



# PCBN车刀片

涂层/修光/断屑



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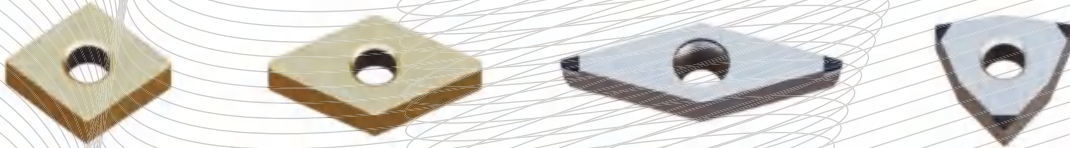
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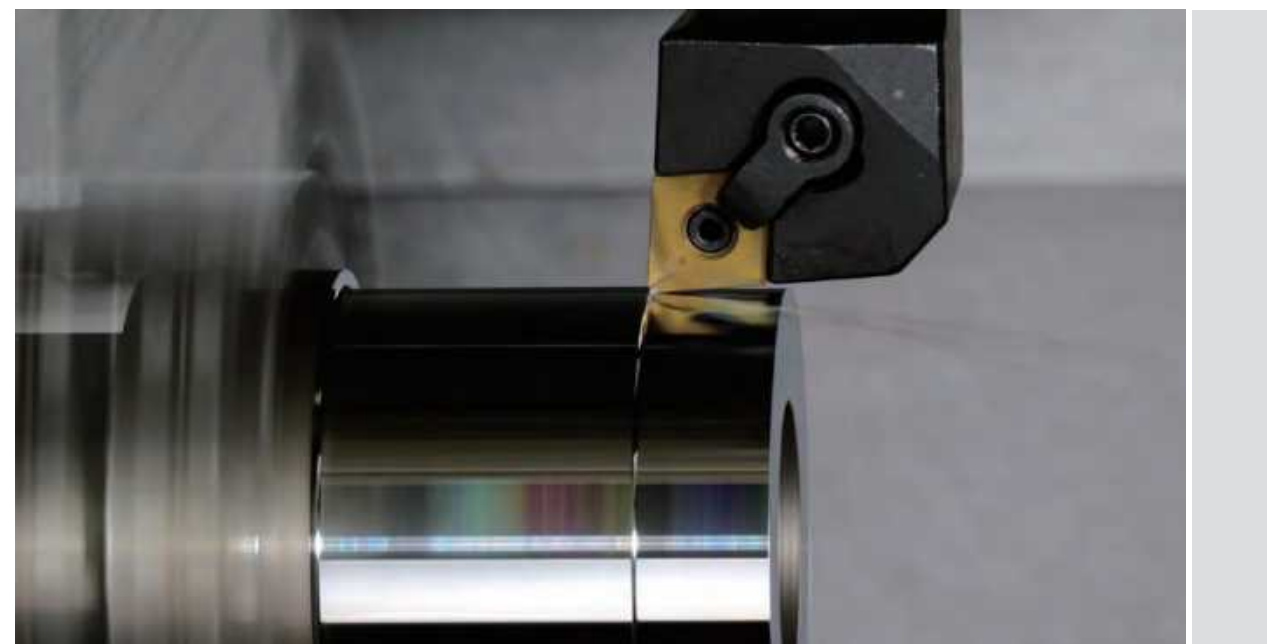
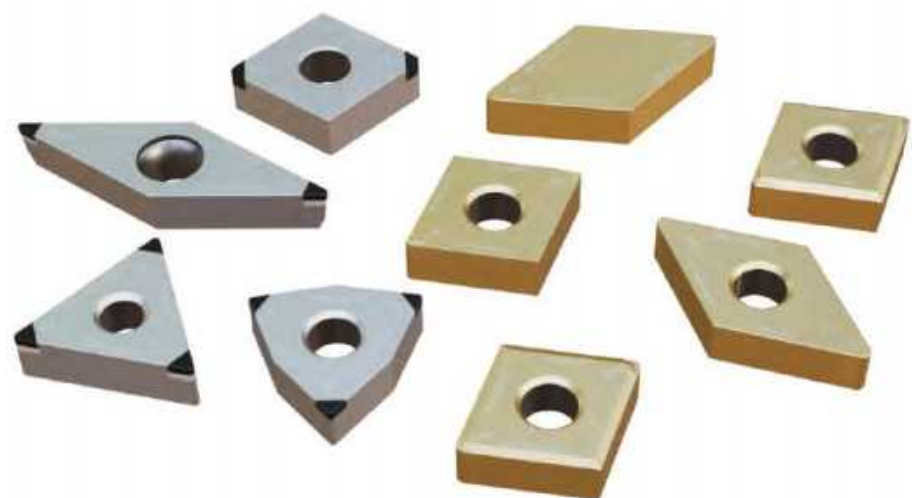
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沃尔德公众号



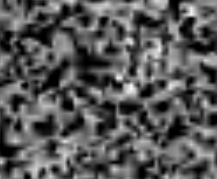
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概述：立方氮化硼(CBN)在1957年制造成功，成为一种新型人造超硬材料，CBN的硬度仅次于金刚石，CBN单晶的显微硬度为HV8000~9000，是目前已知的第二高硬度的物质，PCBN的硬度一般为HV2500~5000。因此用于加工高硬度材料时具有比硬质合金及陶瓷更高的耐磨性，CBN具有很高的抗氧化能力，在1000℃时也不产生氧化现象，与铁系材料在1200~1300℃时也不发生化学反应，所以使用CBN刀具时往往采用干切方式，因此CBN材料在加工黑色金属材料方面具有独到之处。现在已经成为难加工材料的优选材料，其应用加工领域为：淬火钢，铸铁，高温合金和粉末冶金。

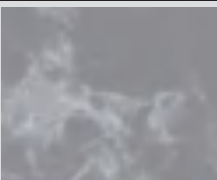
用PCBN刀具车削淬火钢相对于磨削方式具有如优点：成本方面，降低了购置新机床设备的投资金额，复杂形面可一次完成精加工，从而缩短了生产节拍；品质方面，由于一次装夹即可完成加工，行位公差得以提高；在环保方面，PCBN刀具可采用干式切削，有利于环保及资源再生利用。

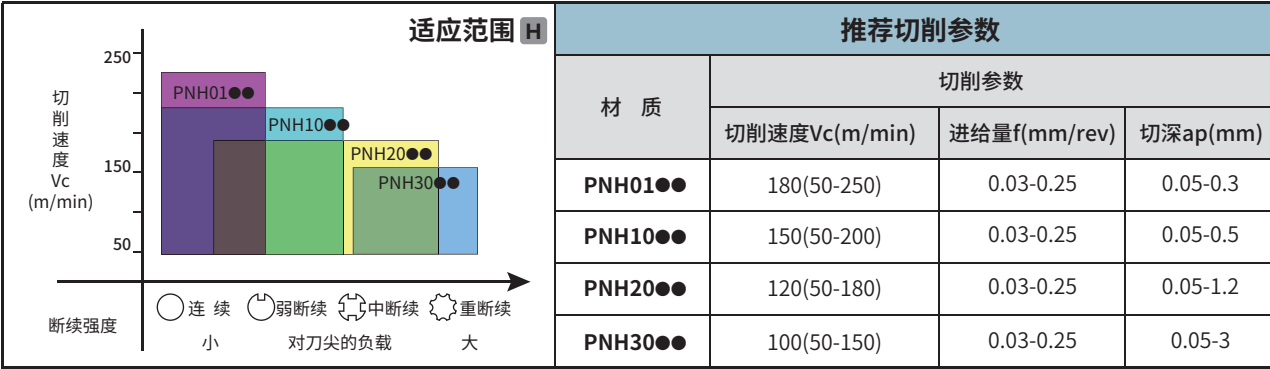
淬火钢加工

| 材 质      | CBN含量 (%) | 粒度 (μm) | 结合剂      | 组织结构                                                                                | 特 长                                             |
|----------|-----------|---------|----------|-------------------------------------------------------------------------------------|-------------------------------------------------|
| ★PNH0120 | 45-50     | 0.5-2   | TiC+TiCN |    | 广泛适用于淬火钢连续精加工                                   |
| PNH0122  | 45-50     | 0.5-3   | TiN      |    | 适应于淬火钢连续小余量高线速度加工，出众的耐磨性                        |
| PNH0124  | 45-50     | 0.5-2   | TiN      |    | 适应于淬火钢连续精加工，具有更好的韧性表现                           |
| ★PNH1020 | 50-55     | 0.5-2   | TiCN     |   | 广泛适用于淬火钢通用加工材料，连续到轻断续                           |
| PNH1022  | 50-55     | 0.5-3   | TiCN     |  | 优异的耐磨性、耐高温性，适应于淬火钢连续到轻断续                        |
| PNH1024  | 55-60     | 1-4     | TiN      |  | 出色的韧性，适应于淬火钢轻断续到中断续加工，高线速度、大进给加工                |
| ★PNH2016 | 60-65     | 0.5-3   | TiN      |  | 兼顾韧性耐高温性，适应于淬火钢断续大余量渗碳层去除                       |
| PNH2018  | 60-65     | 0.5-1   | TiN      |  | 超细粒度CBN颗粒与陶瓷结合剂，优秀的刃口抗崩性，适应于淬火钢轻、中断续加工，高硬度淬火钢加工 |

★ 此标记为首选材料，具体以实际工况为准

淬火钢加工

| 材 质      | CBN含量 (%) | 粒度 (μm) | 结合剂   | 组织结构                                                                                  | 特 长                               |
|----------|-----------|---------|-------|---------------------------------------------------------------------------------------|-----------------------------------|
| PNH2024  | 65-70     | 2-4     | TiN   |    | 出色的韧性，具有一定的耐高温性，适应于淬火钢大余量快进给加工    |
| PNH2026  | 70-75     | 2-4     | TiN   |    | 整体PCBN，适应于淬火钢粗加工，重载切削             |
| PNH2028  | 65-70     | 2-4     | TiN   |    | 整体PCBN，出色的耐高温，适用于淬火钢重载切削，连续到轻断续   |
| ★PNH3019 | 85-90     | 1-2     | 金属化合物 |   | 优秀的韧性与抗崩性，适应于淬火钢材料重断续加工           |
| PNH3020  | 85-90     | 5-30    | 金属化合物 |  | 优异的耐冲击性与耐磨性，适应淬火钢大余量、快进给、连续及断续加工  |
| PNH3023  | 90-95     | 0.5-1   | 金属化合物 |  | 超细粒度高含量PCBN，出色的韧性与抗崩性，适应于淬火钢重断续切削 |



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铸铁加工

| 材 质      | CBN含量 (%) | 粒度 (μm) | 结合剂     | 组织结构 | 特 长                                       |
|----------|-----------|---------|---------|------|-------------------------------------------|
| ★PNK0107 | 90-95     | 3-5     | 金属化合物   |      | 具有优秀的韧性，适应于灰铁连续、轻断续加工                     |
| PNK0110  | 85-90     | 4-10    | 金属化合物   |      | 优异的耐磨性，适应于灰铁粗加工，重载切削                      |
| PNK0118  | 90-95     | 2-4     | 金属化合物   |      | 整体PCBN，适用于灰铁精加工                           |
| ★PNK0122 | 50-55     | 0.5-2   | 专用陶瓷结合剂 |      | 出色的耐高温性，适应于球铁连续、断续精加工                     |
| PNK0126  | 50-55     | 1-2     | 专用陶瓷结合剂 |      | 出色的韧性与耐高温性，适应于球铁连续、高线速度精加工                |
| ★PNK3003 | 85-90     | 1-2     | 金属化合物   |      | 灰铁通用加工材料，精加工、半精加工                         |
| PNK3007  | 85-90     | 1-4     | 金属化合物   |      | 出色的韧性，适应于灰铁断续加工                           |
| PNK3013  | 90-95     | 0.5-1.5 | 金属化合物   |      | 超细粒度高含量PCBN，出色的韧性，刃口锋利型，灰铁精加工，稳定优秀的加工表面质量 |

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铸铁加工

| 材 质     | CBN含量 (%) | 粒度 (μm) | 结合剂   | 组织结构 | 特 长                    |
|---------|-----------|---------|-------|------|------------------------|
| PNK3020 | 85-90     | 4-30    | 金属化合物 |      | 整体PCBN，出色的耐磨性，适应于铸铁粗加工 |

适应范围

K

加工表面质量

优

弱

加工工件断续程度

弱

强

E0000005

S0102005

S0202010

锋利型：E0000005

标准型：S0102005

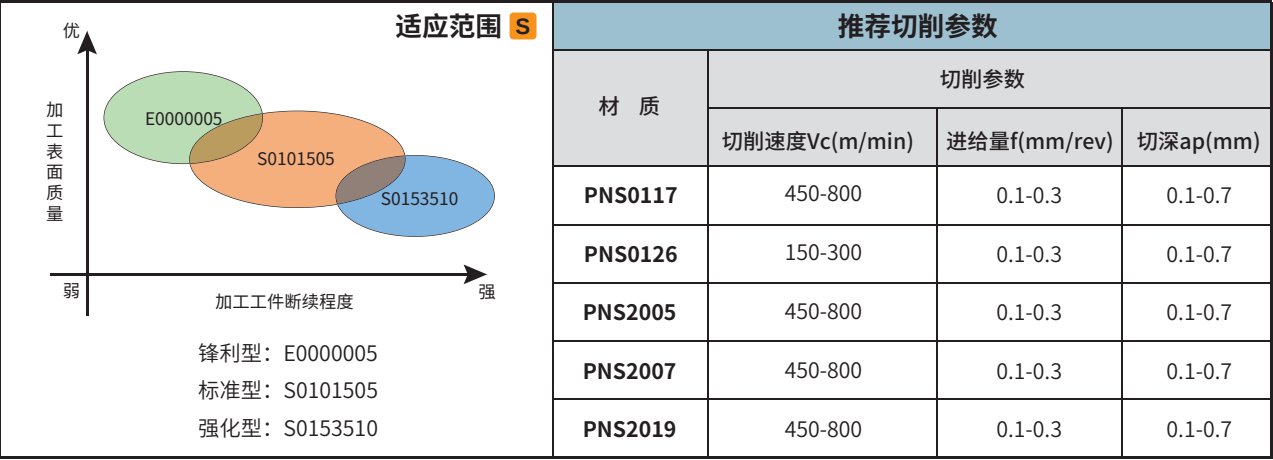
强化型：S0202010

| 被加工材料 |           | 切削参数    | 切削参数           |               |           |
|-------|-----------|---------|----------------|---------------|-----------|
| 材料名称  | 规 格       |         | 切削速度Vc (m/min) | 进给量f (mm/rev) | 切深ap (mm) |
| 灰口铸铁  | HT200-300 | PNK0110 | 350-1000       | 0.1-0.5       | 0.1-0.5   |
|       |           | PNK0118 | 350-1200       | 0.1-0.5       | 0.1-1     |
|       |           | PNK0107 | 350-1200       | 0.1-0.5       | 0.1-0.5   |
|       |           | PNK3003 | 350-1200       | 0.1-0.5       | 0.1-0.5   |
|       |           | PNK3007 | 350-1200       | 0.1-0.5       | 0.1-0.5   |
|       |           | PNK3013 | 350-1200       | 0.1-0.5       | 0.1-0.5   |
| 球墨铸铁  | QT500-700 | PNK3020 | 350-1000       | 0.1-0.5       | 0.1-3     |
|       |           | PNK0122 | 250-350        | 0.1-0.3       | 0.1-0.5   |
|       |           | PNK0126 | 300-600        | 0.1-0.3       | 0.1-0.5   |

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粉末冶金加工

| 材 质      | CBN含量 (%) | 粒度 (μm) | 结合剂   | 组织结构                                                                                | 特 长                          |
|----------|-----------|---------|-------|-------------------------------------------------------------------------------------|------------------------------|
| PNS0117  | 85-90     | 1-4     | 金属化合物 |    | 出色的抗崩性，优异的化学稳定性，适用于粉末冶金连续加工  |
| ★PNS0126 | 60-65     | 0.5-3   | TiN   |    | 优秀的耐高温性，适用于淬火粉末冶金加工          |
| PNS2005  | 90-95     | 0.5-1.5 | 金属化合物 |    | 出色的韧性，优异的锋利性，适用于粉末冶金精加工、断续加工 |
| ★PNS2007 | 85-95     | 1-2     | 金属化合物 |   | 粉末冶金零件通用加工材料                 |
| PNS2019  | 85-90     | 1-3     | 金属化合物 |  | 出色的韧性与耐磨性，适用于粉末冶金断续加工        |



★ 此标记为首选材料，具体以实际工况为准

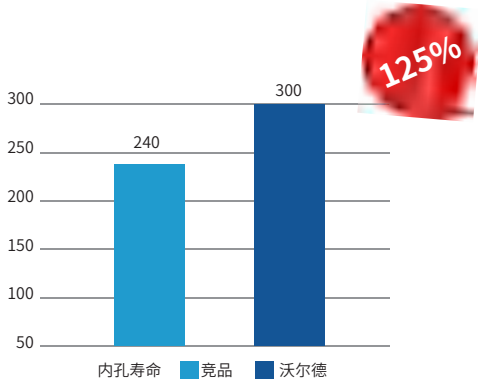
PNH0120

工件名称: 空心输出轴  
硬度: 80HRAmin  
加工方式: 连续加工  
粗糙度要求: Ra1.2

工件材质: 20CrNiMo  
加工部位: 内孔  
冷却方式: 湿式车削  
加工余量: 0.15mm



| 竞 品          |               | 沃尔德               |
|--------------|---------------|-------------------|
| 刀片型号         | CCGW09T308-2N | CCGW09T308-2N     |
| 材料           | PCBN          | PNH0120           |
| 刃口参数         | -             | S0102005 SLWG22C3 |
| 涂层           | 有             | C3                |
| 切削深度(mm)     | 0.1           | 0.1               |
| 切削速度(m/min)  | 160           | 160               |
| 每转进给(mm/rev) | 0.15          | 0.15              |



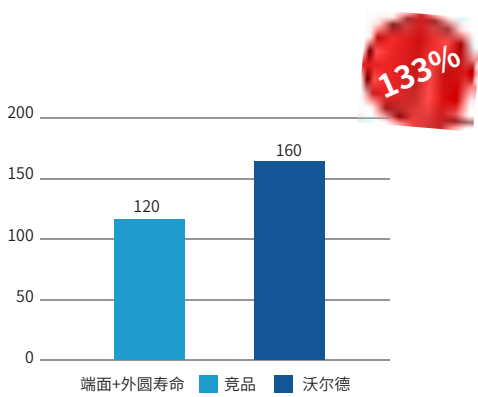
PNH1022

工件名称: 轴承外圈  
硬度: HRC48-62  
加工方式: 连续加工  
粗糙度要求: Ra1.6

工件材质: G20CrNiMo  
加工部位: 端面+外圆  
冷却方式: 湿式车削  
加工余量: 外圆1.1mm/端面1.7mm



| 竞 品          |               | 沃尔德               |
|--------------|---------------|-------------------|
| 刀片型号         | CNGA120408-2N | CNGA120408-2N     |
| 材料           | PCBN          | PNH1022           |
| 刃口参数         | —             | S0153510 SLST30CE |
| 涂层           | 有             | CE                |
| 切削深度(mm)     | 0.3           | 0.3               |
| 切削速度(m/min)  | 180           | 180               |
| 每转进给(mm/rev) | 0.25          | 0.25              |



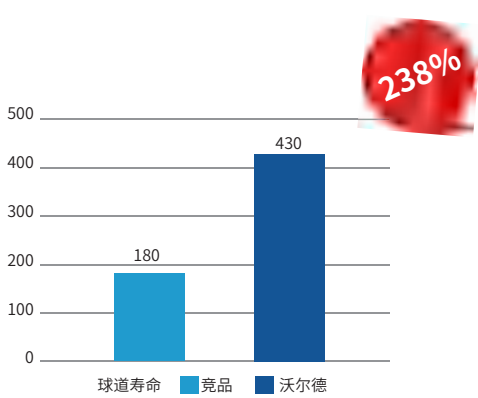
PNH1024

工件名称: 轮毂轴承  
硬度: HRC58~62  
加工方式: 连续精加工  
粗糙度要求: Ra1.6

工件材质: 淬火钢  
加工部位: 球道  
冷却方式: 湿式切削  
加工余量: 0.15mm



| 竞 品          |               | 沃尔德               |
|--------------|---------------|-------------------|
| 刀片型号         | VNGA160408-4N | VNGA160408-4N     |
| 材料           | PCBN          | PNH1024           |
| 刃口参数         | —             | S0153510 SLST22CE |
| 涂层           | 有             | CE                |
| 切削深度(mm)     | 0.15          | 0.15              |
| 切削速度(m/min)  | 250           | 250               |
| 每转进给(mm/rev) | 0.16          | 0.16              |



案例展示

淬火钢/铸铁/粉末冶金

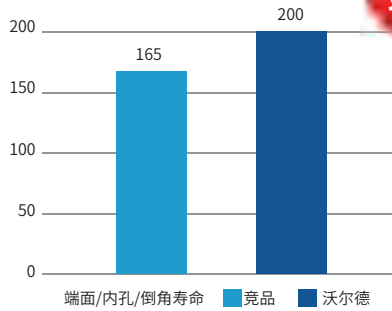


PNH2016

工件名称: 泵驱动轮  
硬度: 680HV1  
加工方式: 连续加工  
粗糙度要求: Rz6.3  
工件材质: 16MnCr5  
加工部位: 端面+内孔+倒角  
冷却方式: 湿式切削  
加工余量: 0.15mm



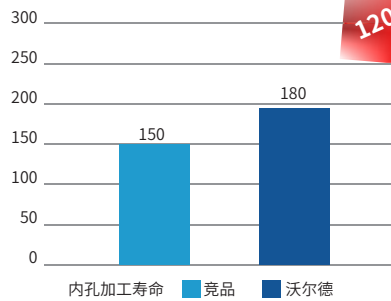
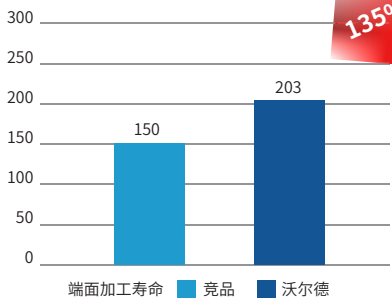
| 竞 品          | 沃尔德                         |
|--------------|-----------------------------|
| 刀片型号         | VCGW110304-2N VCGW110304-2N |
| 材料           | PCBN PNH2016                |
| 刃口参数         | — S0152510 SLST22C3         |
| 涂层           | 有 C3                        |
| 切削深度(mm)     | 0.08 0.08                   |
| 切削速度(m/min)  | 120 120                     |
| 每转进给(mm/rev) | 0.15 0.15                   |



PNH2024

工件名称: 减速齿  
硬度: HRC58~62  
加工方式: 连续+强断续加工  
粗糙度要求: Ra0.8  
工件材质: 20CrMoTi  
加工部位: 端面/内孔  
冷却方式: 湿式切削  
加工余量: 0.15mm

| 竞 品          | 沃尔德                   |
|--------------|-----------------------|
| 刀片型号         | CNGA120408 CNGA120408 |
| 材料           | PCBN PNH2024          |
| 刃口参数         | — S0152510 SLST22C3   |
| 涂层           | 有 C3                  |
| 切削深度(mm)     | 0.25 0.25             |
| 切削速度(m/min)  | 150 150               |
| 每转进给(mm/rev) | 0.25 0.25             |

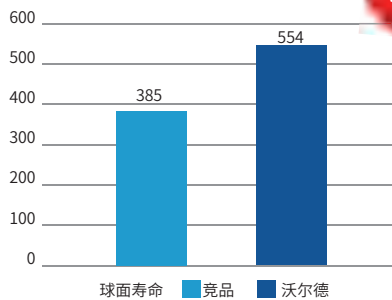


PNH3019

工件名称: 外星轮  
硬度: HRC58~62  
加工方式: 强断续加工  
粗糙度要求: Ra0.8  
工件材质: UC1-Q  
加工部位: 球面  
冷却方式: 空气冷却  
加工余量: 0.2mm



| 竞 品          | 沃尔德                         |
|--------------|-----------------------------|
| 刀片型号         | TNGA160416-3N TNGA160416-3N |
| 材料           | PCBN PNH3019                |
| 刃口参数         | — S0152510 SLST22S          |
| 涂层           | 无 无                         |
| 切削深度(mm)     | 0.2 0.2                     |
| 切削速度(m/min)  | 160 160                     |
| 每转进给(mm/rev) | 0.12 0.12                   |



案例展示

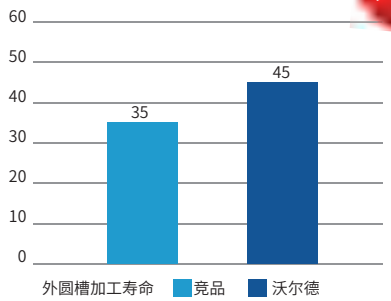
淬火钢/铸铁/粉末冶金

PNH3023

工件名称: 主轴  
硬度: HRC58~62  
加工方式: 强断续加工  
粗糙度要求: Ra0.8  
工件材质: ETN22-X  
加工部位: 端面  
冷却方式: 干式切削  
加工余量: 0.2mm



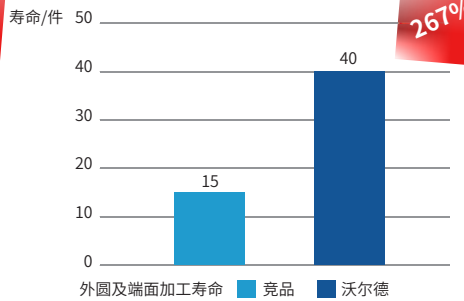
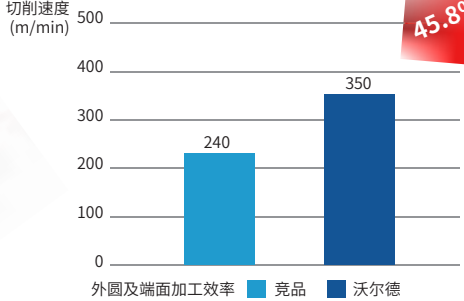
| 竞 品          | 沃尔德                         |
|--------------|-----------------------------|
| 刀片型号         | VNGA160404-2N VNGA160404-2N |
| 材料           | PCBN PNH3023                |
| 刃口参数         | — S0152510 SLST22C3         |
| 涂层           | 有 C3                        |
| 切削深度(mm)     | 0.2 0.2                     |
| 切削速度(m/min)  | 90 90                       |
| 每转进给(mm/rev) | 0.06 0.06                   |



PNK0122

工件名称: 差速器  
硬度: HB220~240  
工件材质: 球铁600-3  
加工部位: 外圆/端面  
加工方式: 连续+断续加工  
粗糙度要求: Ra3.2  
冷却方式: 湿式切削  
加工余量: 0.6mm

| 竞 品          | 沃尔德                         |
|--------------|-----------------------------|
| 刀片型号         | CNGA120412-2N CNGA120412-2N |
| 材料           | 硬质合金 PNK0122                |
| 刃口参数         | — S0202010 SLST22S          |
| 涂层           | 无 无                         |
| 切削深度(mm)     | 0.6 0.6                     |
| 切削速度(m/min)  | 240 350                     |
| 每转进给(mm/rev) | 0.3 0.3                     |

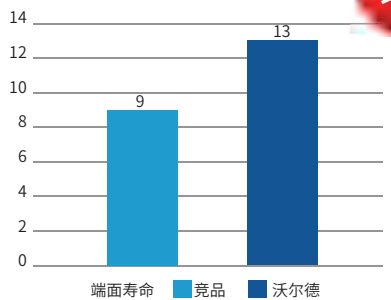


PNK0122

工件名称: 涡轮  
硬度: HB190~220  
加工方式: 断续精加工  
粗糙度要求: Ra0.7  
工件材质: QT500  
加工部位: 端面  
冷却方式: 湿式切削  
平面度要求: 0.02



| 竞 品          | 沃尔德                         |
|--------------|-----------------------------|
| 刀片型号         | DCGW11T308-2N DCGW11T308-2N |
| 材料           | PCBN PNK0122                |
| 刃口参数         | — S0102005 SLST22S          |
| 涂层           | 无 无                         |
| 切削深度(mm)     | 0.15 0.15                   |
| 切削速度(m/min)  | 550 550                     |
| 每转进给(mm/rev) | 0.1 0.1                     |

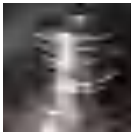


案例展示

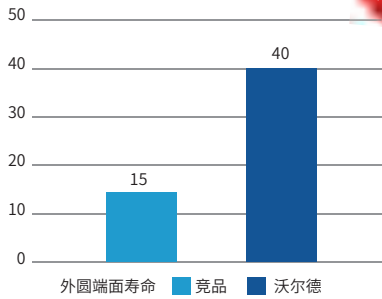
淬火钢/铸铁/粉末冶金

PNK0126

工件名称: 轴套  
硬度: HB217-269  
加工方式: 连续+轻断续加工  
粗糙度要求: Ra2.0  
工件材质: QT700  
加工部位: 外圆/端面  
冷却方式: 湿式切削  
加工余量: 0.2mm



| 竞 品          | 沃尔德                         |
|--------------|-----------------------------|
| 刀片型号         | DNCA150408-2N DNCA150408-2N |
| 材料           | PCBN PNK0126                |
| 刃口参数         | — S0102005 SLST22S          |
| 涂层           | 无 无                         |
| 切削深度(mm)     | 0.2 0.2                     |
| 切削速度(m/min)  | 130 130                     |
| 每转进给(mm/rev) | 0.2 0.2                     |

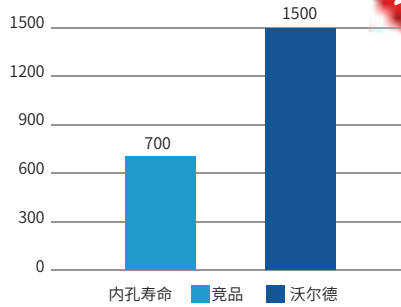


PNK3003

工件名称: 缸体  
硬度: HB190-220  
加工方式: 连续加工  
粗糙度要求: Rz10~20  
工件材质: HT250  
加工部位: 内孔  
冷却方式: 干式切削  
加工余量: 0.065/0.2mm



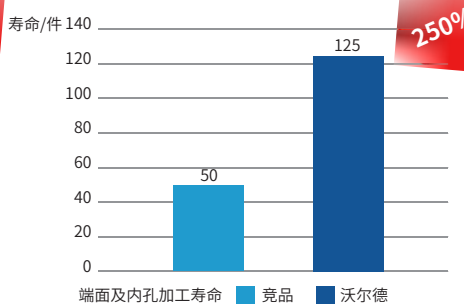
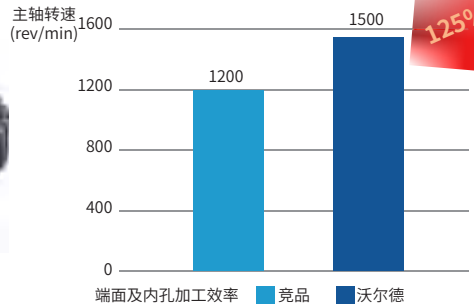
| 竞 品          | 沃尔德                         |
|--------------|-----------------------------|
| 刀片型号         | CCGW09T308-2N CCGW09T308-2N |
| 材料           | PCBN PNK3003                |
| 刃口参数         | — S0102005 SLST22S          |
| 涂层           | 无 无                         |
| 切削深度(mm)     | 0.065/0.2 0.065/0.2         |
| 切削速度(m/min)  | 745 745                     |
| 每转进给(mm/rev) | 0.15 0.15                   |



PNS2005

工件名称: 齿毂  
硬度: HB180~220  
工件材质: 粉末冶金  
加工部位: 端面/内孔  
加工方式: 断续加工  
粗糙度要求: Ra6.3  
冷却方式: 干式切削  
加工余量: 0.15mm

| 竞 品           | 沃尔德                   |
|---------------|-----------------------|
| 刀片型号          | VCGW110306 VCGW110306 |
| 材料            | PCBN PNS2005          |
| 刃口参数          | — S0101505 SLST22S    |
| 涂层            | 无 无                   |
| 切削深度(mm)      | 0.15 0.15             |
| 主轴转速(rev/min) | 1200 1500             |
| 每转进给(mm/rev)  | 0.05 0.05             |



案例展示

淬火钢/铸铁/粉末冶金

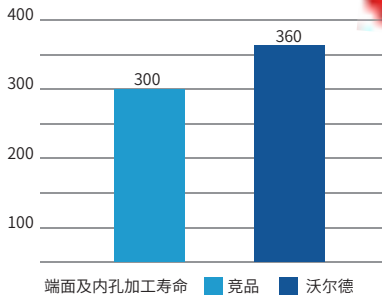


PNS2007

工件名称: 转子  
硬度: HRC58~62  
加工方式: 连续+断续加工  
粗糙度要求: Rz6.3  
工件材质: 粉末冶金  
加工部位: 端面及内孔  
冷却方式: 湿式切削  
加工余量: 0.2mm



| 竞 品          | 沃尔德                         |
|--------------|-----------------------------|
| 刀片型号         | DCGW11T302-2N DCGW11T302-2N |
| 材料           | PCBN PNS2007                |
| 刃口参数         | — S0101505 SLST22S          |
| 涂层           | 无 无                         |
| 切削深度(mm)     | 0.2 0.2                     |
| 切削速度(m/min)  | 250 250                     |
| 每转进给(mm/rev) | 0.06 0.06                   |

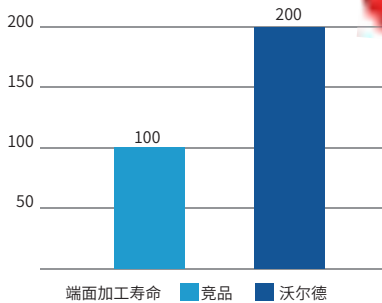


PNS2019

工件名称: 正时凸轮轴链轮  
硬度: HB180~220  
加工方式: 轻断续加工  
粗糙度要求: Ra1.2  
工件材质: 粉末冶金  
加工部位: 端面  
冷却方式: 干式切削  
平面度要求: 0.02



| 竞 品           | 沃尔德                         |
|---------------|-----------------------------|
| 刀片型号          | DCGW11T308-2N DCGW11T308-2N |
| 材料            | PCBN PNS2019                |
| 刃口参数          | — S0153510 SLST22S          |
| 涂层            | 无 无                         |
| 切削深度(mm)      | 0.1 0.1                     |
| 主轴转速(rev/min) | 1900 2400                   |
| 每转进给(mm/rev)  | 0.09 0.07                   |

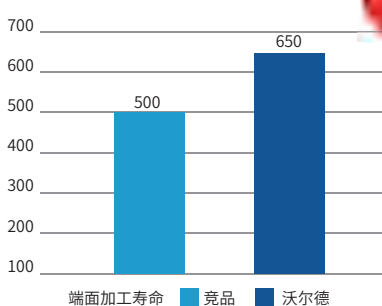


PNS2019

工件名称: 凸轮轴  
硬度: HB180~220  
加工方式: 连续精加工  
粗糙度要求: Ra0.8  
工件材质: 粉末冶金  
加工部位: 端面  
冷却方式: 湿式切削  
平面度要求: 0.3



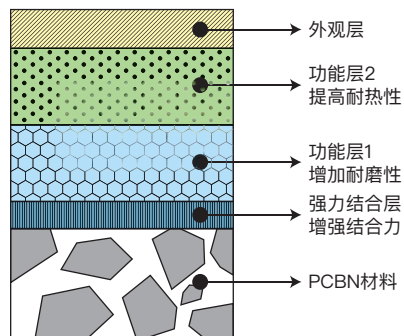
| 竞 品          | 沃尔德                         |
|--------------|-----------------------------|
| 刀片型号         | VBGW160408-2N VBGW160408-2N |
| 材料           | PCBN PNS2019                |
| 刃口参数         | — S0101505 SLST22S          |
| 涂层           | 无 无                         |
| 切削深度(mm)     | 0.3 0.3                     |
| 切削速度(m/min)  | 210 210                     |
| 每转进给(mm/rev) | 0.1 0.1                     |



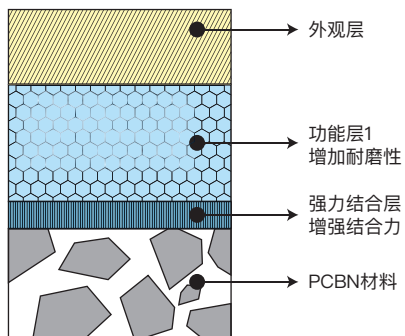
涂层介绍

CE涂层/C3涂层

在CBN表面涂覆PVD涂层能够延长刀具寿命、提高加工精度，尤其在淬火钢加工中表现尤为突出。

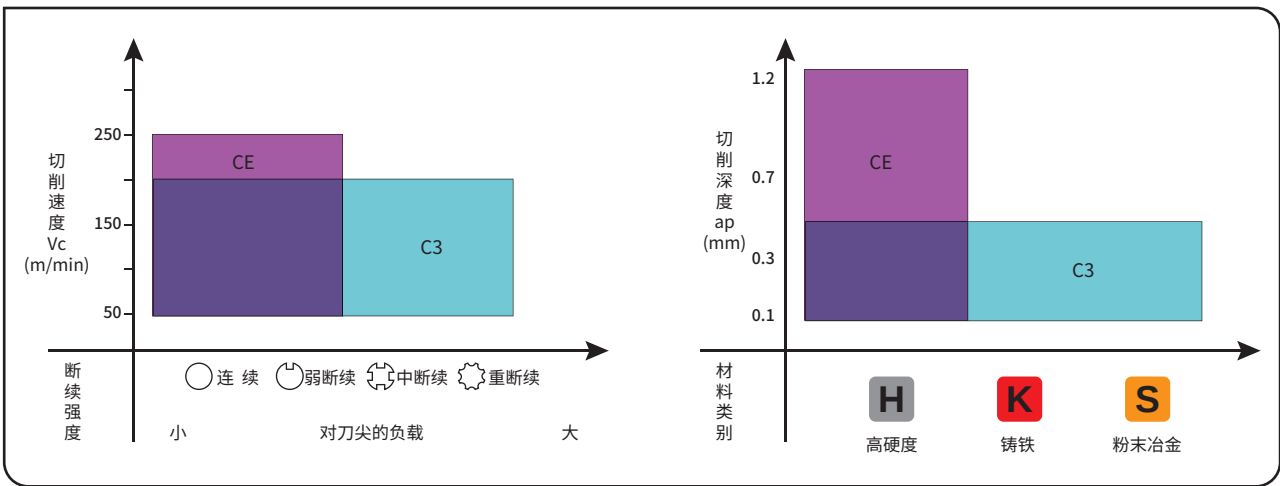


CE涂层



C3涂层

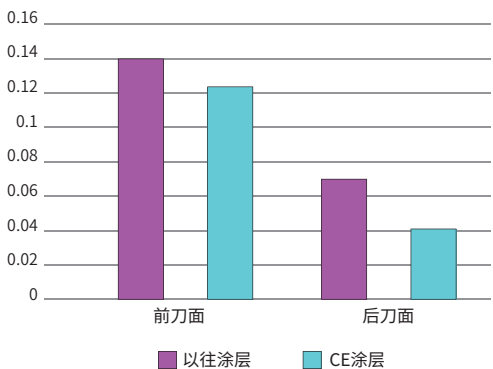
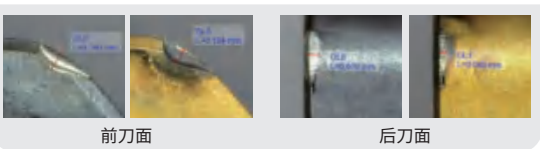
CE/C3涂层应用范围



CE/C3涂层切削性能

材料:GCr15 硬度:HRC58-62

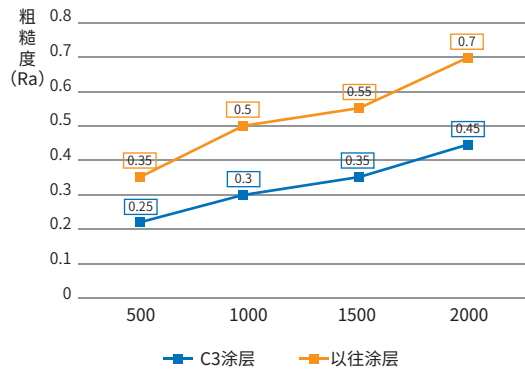
线速度:220m/min 切深:0.1mm 进给:0.12mm/rev 干切切削



CE/以往涂层磨损对比

材料:GCr15 硬度:HRC58-62

线速度:150m/min 切深:0.15mm 进给:0.1mm/rev 干切切削



C3/以往涂层切削对比

修光刀介绍

淬火钢加工/铸铁加工/烧结类加工

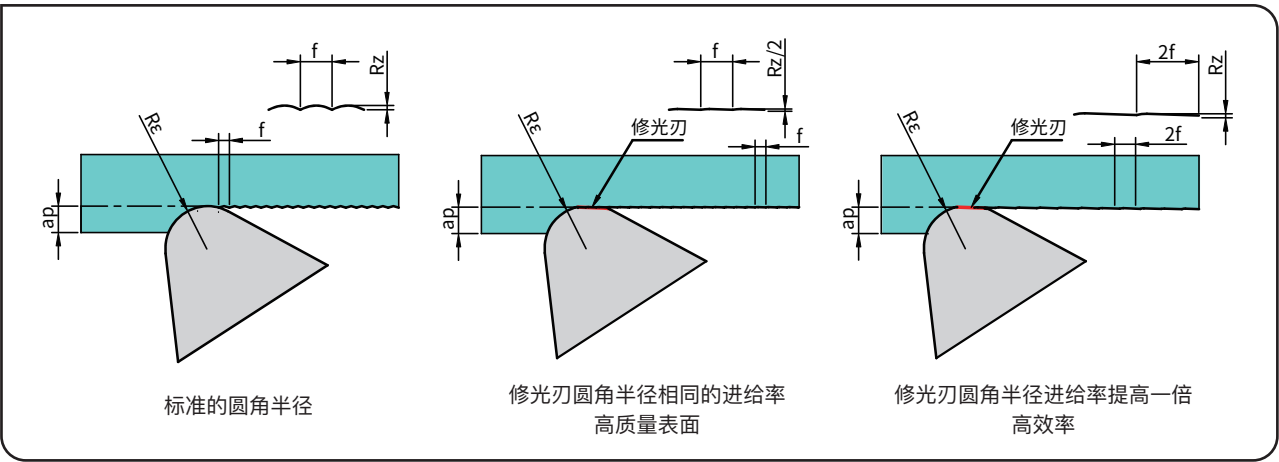
修光刀刀片

●良好表面粗糙度

在相同的加工条件下，可提高表面粗糙度，获得优良的加工质量

●高效率

在相同的表面粗糙度要求下，进给可以大幅度提升，提升加工效率



标准圆弧刀片已加工表面粗糙度理论值计算

$$R_z = \frac{f^2}{8r_\epsilon} * 1000$$

$R_z(\mu m)$ : 理论表面粗糙度

$f(mm/rev)$ : 每转进给量

$r_\epsilon(mm)$ : 刀尖圆弧半径

| 刀尖圆弧 $r_\epsilon$<br>(mm) | 粗糙度要求 $Ra(\mu m)$ |       |       |       |       |
|---------------------------|-------------------|-------|-------|-------|-------|
|                           | 0.2               | 0.4   | 0.8   | 1.6   | 3.2   |
|                           | 进给量 $f$ (mm/rev)  |       |       |       |       |
| 02                        | 0.036             | 0.05  | 0.072 | 0.101 | 0.143 |
| 04                        | 0.05              | 0.072 | 0.101 | 0.143 | 0.202 |
| 08                        | 0.072             | 0.101 | 0.143 | 0.202 | 0.286 |
| 12                        | 0.088             | 0.124 | 0.175 | 0.248 | 0.351 |
| 16                        | 0.101             | 0.143 | 0.202 | 0.286 | 0.405 |
| 0.4/0.8/1.2修光型            | 0.16              | 0.226 | 0.315 | 0.426 | 0.575 |

备注

●修光刀刀片切削阻力较大，用于高刚性机床及被加工工件

●修光刀刀片要对应刀杆型号使用

●修光刀刀片不推荐使用反向走刀方式

断屑槽介绍

CBC1/CBR4

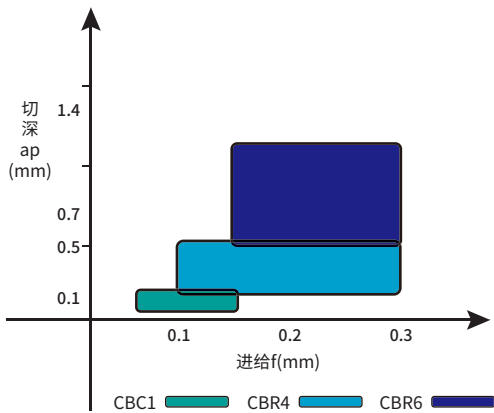


切削中，切屑缠绕会带来工件表面缠绕切屑、工件表面划伤、刀具寿命不稳定、造成二次定位不准、排屑器无法正常排屑、机械手无法正常工作、自动检测系统无法工作等诸多问题。沃尔德标准CBC1、CBR4、CBR6断屑型刀片能够满足精加工、半精加工、粗加工渗碳层去除的断屑要求，避免缠屑带来的诸多不利影响。

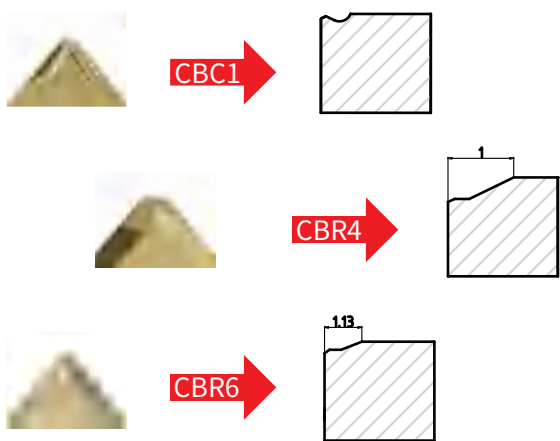
CBC1适合精加工断屑，CBR4适合半精加工、粗加工，CBR6适合粗加工、大余量、大进给高效加工。

与沃尔德C3、CE涂层相结合，充分发挥优异的耐热、耐磨性，延长刀具寿命。

CBC1、CBR4、CBR6使用范围



CBC1、CBR4、CBR6结构



CBC1、CBR4、CBR6切削性能



工件材质: GCr15 HRC58-62  
刀片参数: CNGM120408-2N SLCBC122C3  
切削条件: Vc=150m/min f=0.12mm/rev ap=0.15mm



工件材质: 20CrMoTi HRC58  
刀片参数: DNGM150408-2N SLCBR430C3  
切削条件: Vc=160m/min f=0.15mm/rev ap=0.4mm



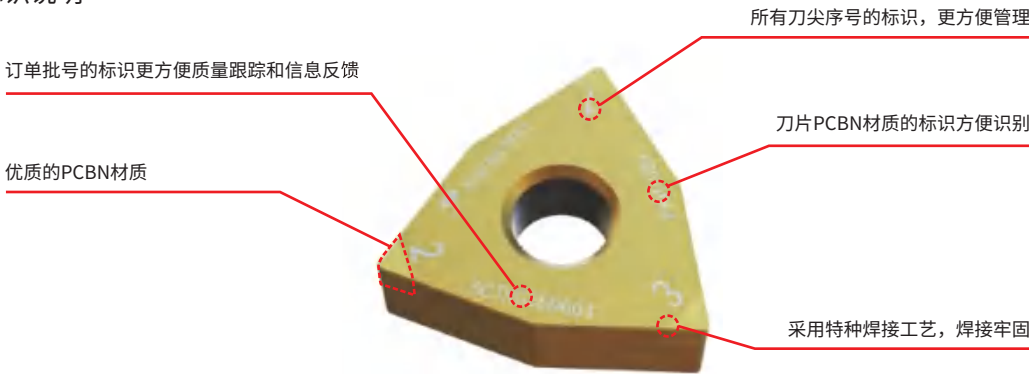
工件材质: 20CrMoTi HRC58-62  
刀片参数: CNGA120408-2N SLCBR640CE  
切削参数: Vc=130m/min f=0.15mm/rev ap=1.3 干切

PCBN刀片标识及包装说明

淬火钢加工/铸铁加工/粉末冶金加工

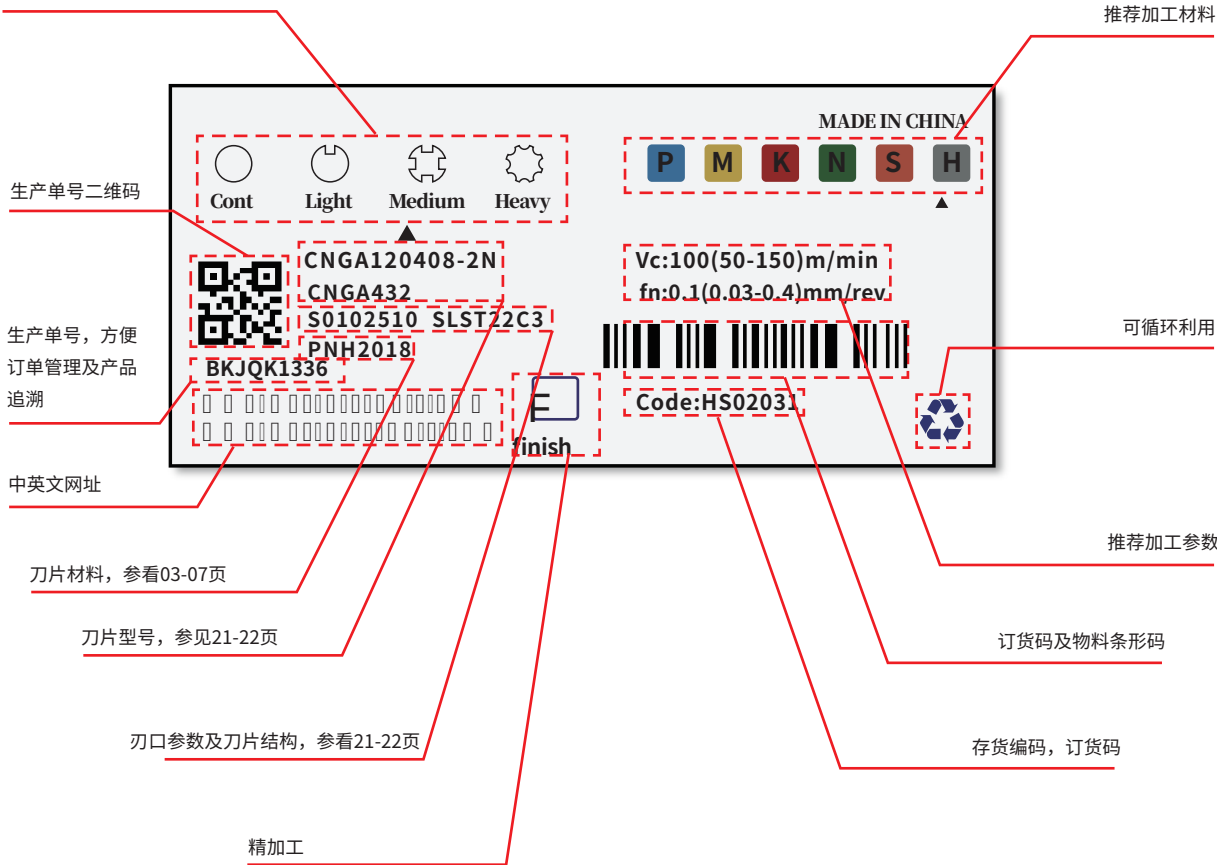


刀片标识说明



标签各标识说明

连续加工: ○ 中断续加工: ⚙  
轻断续加工: ⚙ 重断续加工: ⚙



编码规则

沃尔德PCBN刀片型号编码



| 1.刀片形状 |   |      |       |
|--------|---|------|-------|
|        | H | 正六边形 | 菱形    |
|        |   | 120° | C 80° |
|        | O | 正八边形 | D 55° |
|        |   | 135° | E 75° |
|        | P | 正五边形 | M 86° |
|        |   | 108° | V 35° |
|        | R | 圆形   | W 六边形 |
|        |   |      | 80°   |
|        | S | 正方形  | L 长方形 |
|        |   | 90°  | 90°   |
|        | T | 正三角形 | 平行四边形 |
|        |   | 60°  | A 85° |
|        |   |      | B 82° |
|        |   |      | K 55° |

| 2.刀片后角 |   |     |   |
|--------|---|-----|---|
|        | A | 20° | E |
|        | B | 25° | F |
|        | C | 30° | G |
|        | D | 0°  | N |
|        | P |     |   |
|        | O |     |   |

| 4.固定、断屑槽 |   |  |    |
|----------|---|--|----|
|          | N |  | G  |
|          | B |  | H  |
|          | R |  | W  |
|          | F |  | T  |
|          | C |  | J  |
|          | A |  | Q  |
|          | M |  | 其它 |
|          | X |  |    |

| 3.公差 ISO |    |             |        |
|----------|----|-------------|--------|
|          | 代号 | 公差mm        | Code   |
|          | 级  | 刀尖高m        | 厚度s    |
|          |    | 内切圆IC       | m      |
|          |    | ic          | s      |
|          | C  | ±0.013      | ±0.025 |
|          | H  | ±0.013      | ±0.025 |
|          | E  | ±0.025      | ±0.025 |
|          | G  | ±0.025      | ±0.13  |
|          | K  | ±0.013      | ±0.025 |
|          | M  | ±0.08-±0.18 | ±0.13  |
|          | U  | ±0.13-±0.38 | ±0.13  |

| 5.内切圆直径              |        |       |         |
|----------------------|--------|-------|---------|
| ISO                  |        | ANSI  |         |
| 切刃长度 (按刀片形状)         | 内切圆直径  | Code  | IC Size |
| C D R S T V W        | mm     |       | inch    |
| S4 04 03 03 06 - 02  | 3.97   | (1.2) | 5/32    |
| 04 05 04 04 08 08 S3 | 4.76   | (1.5) | 3/16    |
| 05 06 05 05 09 09 03 | 5.56   | (1.8) | 7/32    |
| - - 06 - - - - 6     | -      | -     | -       |
| 06 07 06 06 11 11 04 | 6.35   | 2     | 1/4     |
| 08 09 07 07 13 13 05 | 7.94   | (2.5) | 5/16    |
| - - 08 - - - - 8     | -      | -     | -       |
| 09 11 09 09 16 16 06 | 9.525  | 3     | 3/8     |
| - - 10 - - - - 10    | -      | -     | -       |
| - - 12 - - - - 12    | -      | -     | -       |
| 12 15 12 12 22 22 08 | 12.7   | 4     | 1/2     |
| 16 19 15 15 27 27 10 | 15.875 | 5     | 5/8     |
| - - 16 - - - - 16    | -      | -     | -       |
| 19 23 19 19 33 33 13 | 19.05  | 6     | 3/4     |
| - - 20 - - - - 20    | -      | -     | -       |
| 22 27 22 22 38 38 15 | 22.225 | 7     | 7/8     |
| - - 25 - - - - 25    | -      | -     | -       |
| 25 31 25 25 44 44 17 | 25.4   | 8     | 1       |
| 32 38 31 31 54 54 21 | 31.75  | 10    | 1-1/4   |
| - - 32 - - - - 32    | -      | -     | -       |

| 6.刀片厚度 |       |       |      |
|--------|-------|-------|------|
| ISO    |       | ANSI  |      |
| 代号     | 尺寸    | Code  | Size |
| S      | mm    | S     | inch |
| 01     | 1.59  | 1     | 1/16 |
| 02     | 2.38  | (1.5) | 3/32 |
| T2     | 2.78  | -     | -    |
| 03     | 3.18  | 2     | 1/8  |
| T3     | 3.97  | (2.5) | 5/32 |
| 04     | 4.76  | 3     | 3/16 |
| 05     | 5.56  | (3.5) | 7/32 |
| 06     | 6.35  | 4     | 1/4  |
| 07     | 7.94  | 5     | 5/16 |
| 09     | 9.525 | 6     | 3/8  |

| 7.刀尖R角 |      |       |          |
|--------|------|-------|----------|
| ISO    |      | ANSI  |          |
| 代号     | 尺寸   | Code  | Size     |
| Re     | mm   | Re    | inch     |
| 00     | 锋利   | 00    | .000     |
| 003    | 0.03 | (0.1) | .001     |
| 01     | 0.1  | (0.2) | .004     |
| 02     | 0.2  | (0.5) | .008     |
| 04     | 0.4  | 1     | 1/64     |
| 08     | 0.8  | 2     | 1/32     |
| 12     | 1.2  | 3     | 3/64     |
| 16     | 1.6  | 4     | 1/16     |
| 20     | 2.0  | 5     | 5/64     |
| 24     | 2.4  | 6     | 3/32     |
| 28     | 2.8  | 7     | 7/64     |
| 32     | 3.2  | 8     | 1/8      |
| M00    | 圆形刀片 |       | circular |

编码规则

沃尔德PCBN刀片型号编码



| 8.刀数 |    |    |    |
|------|----|----|----|
| 代号   | 1  | 2  | 3  |
| 含义   | 一刃 | 二刃 | 三刃 |

| 9.切削方向 |    |    |     |
|--------|----|----|-----|
| 代号     | R  | L  | N   |
| 含义     | 正手 | 反手 | 无方向 |

| 10.主切削刃形状 |    |       |      |
|-----------|----|-------|------|
| E         | T  | S     | F    |
| 钝化        | 倒棱 | 倒棱+钝化 | 锋利刃口 |

| 11.倒棱宽度 |     |      |     |
|---------|-----|------|-----|
| 代号      | 000 | 005  | 010 |
| 尺寸      | -   | 0.05 | 0.1 |

| 12.倒棱角度 |   |    |    |
|---------|---|----|----|
| 代号      | α | 00 | 10 |
| 角度      | ° | -  | 10 |

| 13.倒圆大小 |    |      |     |
|---------|----|------|-----|
| 代号      | 00 | 02   | 05  |
| 尺寸      | -  | 0.05 | 0.1 |

| 14.刀粒结构 |         |       |          |
|---------|---------|-------|----------|
| SF      | SL      | SS    | CB       |
| 整体复合片   | 整体CBN局部 | 整体CBN | CBN复合片标准 |
|         |         |       |          |

| 15.刃口形式 |     |       |  |
|---------|-----|-------|--|
| ST      | WG  | CB    |  |
| 圆角R刀片   | 修光刃 | 断屑槽刀片 |  |

| 16.主切削刃长度 |    |     |     |
|-----------|----|-----|-----|
| 代号        | Ap | 22  | 25  |
| 含义        |    | 2.2 | 2.5 |

| 17.表面处理形式 |  |  |       |
|-----------|--|--|-------|
| S         |  |  | 标准未涂层 |
| C3        |  |  | 涂层    |
| CE        |  |  | 涂层    |

PCBN 数控刀片--淬火钢类

焊接式刀片

|    |             |
|----|-------------|
| CC | 80°菱形·正型·有孔 |
|    | PCBN 正型刀片   |

| H    |                            |                         |                            |                   |
|------|----------------------------|-------------------------|----------------------------|-------------------|
| 断续强度 |                            |                         |                            |                   |
| 结构   | SL                         | SL                      | SL                         | CB                |
| 材质   | PNH0120 PNH0122 PNH0124    | PNH1020 PNH1022 PNH1024 | PNH2016 PNH2018 PNH2024    | PNH3019 PNH3023   |
| 刃口   | S0054505 S0102005 S0152510 | S0152510 S0153510       | S0152510 S0153510 S0203520 | S0102005 S0153510 |
| 涂层   | S/C3/CE                    | S/C3/CE                 | S/C3/CE                    | S/C3              |

| 图示 | ISO           | ANSI               | 刀片结构 |           | 刃数 | ic   | φd  | S    | r   | la  |
|----|---------------|--------------------|------|-----------|----|------|-----|------|-----|-----|
|    | CCGW060202-2N | CCGW2(1.5)(0.5)-2N |      | □□ST22S   | 2  | 6.35 | 2.8 | 2.38 | 0.2 | 2.2 |
|    | 060204-2N     | 2(1.5)1-2N         |      | □□WGR22S  | 2  |      |     |      | 0.4 |     |
|    | 060208-2N     | 2(1.5)2-2N         |      | □□CBR422S | 2  |      |     |      | 0.8 |     |
|    | CCGW060202-2N | CCGW2(1.5)(0.5)-2N |      | □□ST30S   | 2  |      |     |      | 0.2 |     |
|    | 060204-2N     | 2(1.5)1-2N         |      | □□WGR30S  | 2  |      |     |      | 0.4 |     |
|    | 060208-2N     | 2(1.5)2-2N         |      | □□CBR430S | 2  |      |     |      | 0.8 |     |
|    | CCGW060202-2N | CCGW2(1.5)(0.5)-2N |      | □□ST30S   | 2  |      |     |      | 0.2 |     |
|    | 060204-2N     | 2(1.5)1-2N         |      | □□WGR30S  | 2  |      |     |      | 0.4 |     |
|    | 060208-2N     | 2(1.5)2-2N         |      | □□CBR430S | 2  |      |     |      | 0.8 |     |

注：以上表格中刀尖角R0.2的刀片仅提供C3涂层或者非涂层

|    |             |
|----|-------------|
| CC | 80°菱形·正型·有孔 |
|    | PCBN 正型刀片   |

| H    |                            |                         |                            |                   |
|------|----------------------------|-------------------------|----------------------------|-------------------|
| 断续强度 |                            |                         |                            |                   |
| 结构   | SL                         | SL                      | SL                         | CB                |
| 材质   | PNH0120 PNH0122 PNH0124    | PNH1020 PNH1022 PNH1024 | PNH2016 PNH2018 PNH2024    | PNH3019 PNH3023   |
| 刃口   | S0054505 S0102005 S0152510 | S0152510 S0153510       | S0152510 S0153510 S0203520 | S0102005 S0153510 |
| 涂层   | S/C3/CE                    | S/C3/CE                 | S/C3/CE                    | S/C3              |

| 图示 | ISO           | ANSI           | 刀片结构 |           | 刃数 | ic    | φd  | S    | r   | la  |
|----|---------------|----------------|------|-----------|----|-------|-----|------|-----|-----|
|    | CCGW09T304-2N | CCGW3(2.5)1-2N |      | □□ST22S   | 2  | 9.525 | 4.4 | 3.97 | 0.4 | 2.2 |
|    | 09T308-2N     | 3(2.5)2-2N     |      | □□WGR22S  | 2  |       |     |      | 0.8 |     |
|    | 09T312-2N     | 3(2.5)3-2N     |      | □□CBR422S | 2  |       |     |      | 1.2 |     |
|    | CCGW09T304-2N | CCGW3(2.5)1-2N |      | □□ST30S   | 2  |       |     |      | 0.4 |     |
|    | 09T308-2N     | 3(2.5)2-2N     |      | □□WGR30S  | 2  |       |     |      | 0.8 |     |
|    | 09T312-2N     | 3(2.5)3-2N     |      | □□CBR430S | 2  |       |     |      | 1.2 |     |
|    | CCGW09T304-2N | CCGW3(2.5)1-2N |      | □□ST30S   | 2  |       |     |      | 0.4 |     |
|    | 09T308-2N     | 3(2.5)2-2N     |      | □□WGR30S  | 2  |       |     |      | 0.8 |     |
|    | 09T312-2N     | 3(2.5)3-2N     |      | □□CBR430S | 2  |       |     |      | 1.2 |     |

PCBN 数控刀片--淬火钢类

焊接式刀片

|    |             |
|----|-------------|
| CC | 80°菱形·正型·有孔 |
|    | PCBN 正型刀片   |

| H    |                            |                         |                            |                   |
|------|----------------------------|-------------------------|----------------------------|-------------------|
| 断续强度 |                            |                         |                            |                   |
| 结构   | SL                         | SL                      | SL                         | CB                |
| 材质   | PNH0120 PNH0122 PNH0124    | PNH1020 PNH1022 PNH1024 | PNH2016 PNH2018 PNH2024    | PNH3019 PNH3023   |
| 刃口   | S0054505 S0102005 S0152510 | S0152510 S0153510       | S0152510 S0153510 S0203520 | S0102005 S0153510 |
| 涂层   | S/C3/CE                    | S/C3/CE                 | S/C3/CE                    | S/C3              |

| 图示 | ISO           | ANSI       | 刀片结构 |           | 刃数 | ic   | φd  | S    | r   | la  |
|----|---------------|------------|------|-----------|----|------|-----|------|-----|-----|
|    | CCGW120404-2N | CCGW431-2N |      | □□ST22S   | 2  | 12.7 | 5.5 | 4.76 | 0.4 | 2.2 |
|    | 120408-2N     | 432-2N     |      | □□WGR22S  | 2  |      |     |      | 0.8 |     |
|    | 120412-2N     | 433-2N     |      | □□CBR422S | 2  |      |     |      | 1.2 |     |
|    | CCGW120404-2N | CCGW431-2N |      | □□ST30S   | 2  |      |     |      | 0.4 |     |
|    | 120408-2N     | 432-2N     |      | □□WGR30S  | 2  |      |     |      | 0.8 |     |
|    | 120412-2N     | 433-2N     |      | □□CBR430S | 2  |      |     |      | 1.2 |     |
|    | CCGW120404-2N | CCGW431-2N |      | □□ST30S   | 2  |      |     |      | 0.4 |     |
|    | 120408-2N     | 432-2N     |      | □□WGR30S  | 2  |      |     |      | 0.8 |     |
|    | 120412-2N     | 433-2N     |      | □□CBR430S | 2  |      |     |      | 1.2 |     |

|    |             |
|----|-------------|
| DC | 55°菱形·正型·有孔 |
|    | PCBN 正型刀片   |

| H    |                            |                         |                            |                   |
|------|----------------------------|-------------------------|----------------------------|-------------------|
| 断续强度 |                            |                         |                            |                   |
| 结构   | SL                         | SL                      | SL                         | CB                |
| 材质   | PNH0120 PNH0122 PNH0124    | PNH1020 PNH1022 PNH1024 | PNH2016 PNH2018 PNH2024    | PNH3019 PNH3023   |
| 刃口   | S0054505 S0102005 S0152510 | S0152510 S0153510       | S0152510 S0153510 S0203520 | S0102005 S0153510 |
| 涂层   | S/C3/CE                    | S/C3/CE                 | S/C3/CE                    | S/C3              |

| 图示 | ISO           | ANSI               | 刀片结构 |                   | 刃数 | ic   | φd  | S    | r   | la  |
|----|---------------|--------------------|------|-------------------|----|------|-----|------|-----|-----|
|    | DCGW070202-2N | DCGW2(1.5)(0.5)-2N |      | □□ST22S           | 2  | 6.35 | 2.8 | 2.38 | 0.2 | 2.2 |
|    | 070204-2N     | 2(1.5)1-2N         |      | □□WGR22S (107.5°) | 2  |      |     |      | 0.4 |     |
|    | 070208-2N     | 2(1.5)2-2N         |      | □□CBR422S         | 2  |      |     |      | 0.8 |     |
|    | DCGW070202-2N | DCGW2(1.5)(0.5)-2N |      | □□ST30S           | 2  |      |     |      | 0.2 |     |
|    | 070204-2N     | 2(1.5)1-2N         |      | □□WGR30S (107.5°) | 2  |      |     |      | 0.4 |     |
|    | 070208-2N     | 2(1.5)2-2N         |      | □□CBR430S         | 2  |      |     |      | 0.8 |     |
|    | DCGW070202-2N | DCGW2(1.5)(0.5)-2N |      | □□ST30S           | 2  |      |     |      | 0.2 |     |
|    | 070204-2N     | 2(1.5)1-2N         |      | □□WGR30S (107.5°) | 2  |      |     |      | 0.4 |     |
|    | 070208-2N     | 2(1.5)2-2N         |      | □□CBR430S         | 2  |      |     |      | 0.8 |     |

注：以上表格中刀尖角R0.2的刀片仅提供C3涂层或者非涂层

PCBN 数控刀片--淬火钢类

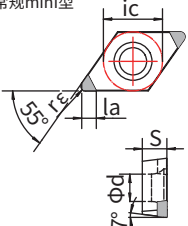
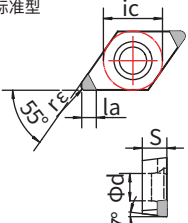
焊接式刀片

DC

55°菱形·正型·有孔

PCBN 正型刀片

| H    |                            |                         |                                              |
|------|----------------------------|-------------------------|----------------------------------------------|
| 断续强度 |                            |                         |                                              |
| 结构   | SL                         | SL                      | CB                                           |
| 材质   | PNH0120 PNH0122 PNH0124    | PNH1020 PNH1022 PNH1024 | PNH2016 PNH2018 PNH2024 PNH3019 PNH3023      |
| 刃口   | S0054505 S0102005 S0152510 | S0152510 S0153510       | S0152510 S0153510 S0203520 S0102005 S0153510 |
| 涂层   | S/C3/CE                    | S/C3/CE                 | S/C3/CE S/C3                                 |

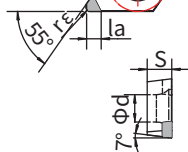
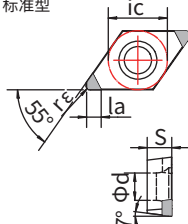
| 图示                                                                                                   | ISO                                                                                               | ANSI           | 刀片结构                                                                               |                                                                                   | 刃数                                                                                | ic    | φd  | S    | r                    | la  |       |     |      |                      |     |     |
|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------|-----|------|----------------------|-----|-------|-----|------|----------------------|-----|-----|
| <div>常规mini型</div>  | DCGW11T304-2N                                                                                     | DCGW3(2.5)1-2N |   | □□ST22S                                                                           | 2                                                                                 | 9.525 | 4.4 | 3.97 | 0.4                  | 2.2 |       |     |      |                      |     |     |
|                                                                                                      | 11T308-2N                                                                                         | 3(2.5)2-2N     |                                                                                    |  |                                                                                   |       |     |      | □□WGR22S<br>(107.5°) |     | 0.8   |     |      |                      |     |     |
|                                                                                                      | 11T312-2N                                                                                         | 3(2.5)3-2N     |                                                                                    |                                                                                   |                                                                                   |       |     |      |                      |     | 1.2   |     |      |                      |     |     |
|                                                                                                      | DCGW11T304-2N                                                                                     | DCGW3(2.5)1-2N |   | □□CBR422S                                                                         | 2                                                                                 |       |     |      | 0.4                  |     |       |     |      |                      |     |     |
|                                                                                                      | 11T308-2N                                                                                         | 3(2.5)2-2N     |                                                                                    |                                                                                   |                                                                                   |       |     |      | 0.8                  |     |       |     |      |                      |     |     |
|                                                                                                      | 11T312-2N                                                                                         | 3(2.5)3-2N     |                                                                                    |                                                                                   |                                                                                   |       |     |      | 1.2                  |     |       |     |      |                      |     |     |
|                                                                                                      | <div>标准型</div>  | DCGW11T304-2N  | DCGW3(2.5)1-2N                                                                     |  | □□ST30S                                                                           |       |     |      | 2                    |     | 9.525 | 4.4 | 3.97 | 0.4                  | 3.0 |     |
|                                                                                                      |                                                                                                   | 11T308-2N      | 3(2.5)2-2N                                                                         |                                                                                   |  |       |     |      |                      |     |       |     |      | □□WGR30S<br>(107.5°) |     | 0.8 |
|                                                                                                      |                                                                                                   | 11T312-2N      | 3(2.5)3-2N                                                                         |                                                                                   |                                                                                   |       |     |      |                      |     |       |     |      |                      |     | 1.2 |
| DCGW11T304-2N                                                                                        |                                                                                                   | DCGW3(2.5)1-2N |  | □□CBR430S                                                                         | 2                                                                                 | 0.4   |     |      |                      |     |       |     |      |                      |     |     |
| 11T308-2N                                                                                            |                                                                                                   | 3(2.5)2-2N     |                                                                                    |                                                                                   |                                                                                   | 0.8   |     |      |                      |     |       |     |      |                      |     |     |
| 11T312-2N                                                                                            |                                                                                                   | 3(2.5)3-2N     |                                                                                    |                                                                                   |                                                                                   | 1.2   |     |      |                      |     |       |     |      |                      |     |     |

DC

55°菱形·正型·有孔

PCBN 正型刀片

| H    |                            |                         |                                              |
|------|----------------------------|-------------------------|----------------------------------------------|
| 断续强度 |                            |                         |                                              |
| 结构   | SL                         | SL                      | CB                                           |
| 材质   | PNH0120 PNH0122 PNH0124    | PNH1020 PNH1022 PNH1024 | PNH2016 PNH2018 PNH2024 PNH3019 PNH3023      |
| 刃口   | S0054505 S0102005 S0152510 | S0152510 S0153510       | S0152510 S0153510 S0203520 S0102005 S0153510 |
| 涂层   | S/C3/CE                    | S/C3/CE                 | S/C3/CE S/C3                                 |

| 图示                                                                                                     | ISO           | ANSI       | 刀片结构                                                                                |                      | 刃数 | ic   | φd  | S    | r   | la  |
|--------------------------------------------------------------------------------------------------------|---------------|------------|-------------------------------------------------------------------------------------|----------------------|----|------|-----|------|-----|-----|
| <div>常规mini型</div>  | DCGW150404-2N | DCGW431-2N |  | □□ST22S              | 2  | 12.7 | 5.5 | 4.76 | 0.4 | 2.2 |
|                                                                                                        | 150408-2N     | 432-2N     |                                                                                     |                      |    |      |     |      | 0.8 |     |
|                                                                                                        | 150412-2N     | 433-2N     |                                                                                     |                      |    |      |     |      | 1.2 |     |
|                                                                                                        | DCGW150404-2N | DCGW431-2N |  | □□WGR22S<br>(107.5°) | 2  |      |     |      | 0.4 |     |
|                                                                                                        | 150408-2N     | 432-2N     |                                                                                     |                      |    |      |     |      | 0.8 |     |
|                                                                                                        | 150412-2N     | 433-2N     |                                                                                     |                      |    |      |     |      | 1.2 |     |
|                                                                                                        | DCGT150404-2N | DCGT431-2N |  | □□CBR422S            | 2  |      |     |      | 0.4 |     |
|                                                                                                        | 150408-2N     | 432-2N     |                                                                                     |                      |    |      |     |      | 0.8 |     |
|                                                                                                        | 150412-2N     | 433-2N     |                                                                                     |                      |    |      |     |      | 1.2 |     |
| <div>标准型</div>      | DCGW150404-2N | DCGW431-2N |  | □□ST30S              | 2  | 12.7 | 5.5 | 4.76 | 0.4 | 3.0 |
|                                                                                                        | 150408-2N     | 432-2N     |                                                                                     |                      |    |      |     |      | 0.8 |     |
|                                                                                                        | 150412-2N     | 433-2N     |                                                                                     |                      |    |      |     |      | 1.2 |     |
|                                                                                                        | DCGW150404-2N | DCGW431-2N |  | □□WGR30S<br>(107.5°) | 2  |      |     |      | 0.4 |     |
|                                                                                                        | 150408-2N     | 432-2N     |                                                                                     |                      |    |      |     |      | 0.8 |     |
|                                                                                                        | 150412-2N     | 433-2N     |                                                                                     |                      |    |      |     |      | 1.2 |     |
|                                                                                                        | DCGT150404-2N | DCGT431-2N |  | □□CBR430S            | 2  |      |     |      | 0.4 |     |
|                                                                                                        | 150408-2N     | 432-2N     |                                                                                     |                      |    |      |     |      | 0.8 |     |
|                                                                                                        | 150412-2N     | 433-2N     |                                                                                     |                      |    |      |     |      | 1.2 |     |

PCBN 数控刀片--淬火钢类

焊接式刀片

SC

90°正方形·正型·有孔

PCBN 正型刀片

| H    |                            |                         |                                              |
|------|----------------------------|-------------------------|----------------------------------------------|
| 断续强度 |                            |                         |                                              |
| 结构   | SL                         | SL                      | CB                                           |
| 材质   | PNH0120 PNH0122 PNH0124    | PNH1020 PNH1022 PNH1024 | PNH2016 PNH2018 PNH2024 PNH3019 PNH3023      |
| 刃口   | S0054505 S0102005 S0152510 | S0152510 S0153510       | S0152510 S0153510 S0203520 S0102005 S0153510 |
| 涂层   | S/C3/CE                    | S/C3/CE                 | S/C3/CE S/C3                                 |

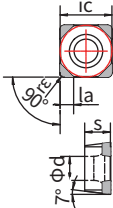
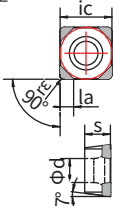
| 图示      | ISO           | ANSI           | 刀片结构                                                                                |           | 刃数 | ic    | φd  | S    | r   | la  |
|---------|---------------|----------------|-------------------------------------------------------------------------------------|-----------|----|-------|-----|------|-----|-----|
| 常规mini型 | SCGW09T304-4N | SCGW3(2.5)1-4N |  | □□ST22S   | 4  | 9.525 | 4.4 | 3.97 | 0.4 | 2.2 |
|         | 09T308-4N     | 3(2.5)2-4N     |                                                                                     |           |    |       |     |      | 0.8 |     |
|         | 09T312-4N     | 3(2.5)3-4N     |                                                                                     |           |    |       |     |      | 1.2 |     |
|         | SCGT09T304-4N | SCGT3(2.5)1-4N |  | □□CBR422S | 4  |       |     |      | 0.4 |     |
|         | 09T308-4N     | 3(2.5)2-4N     |                                                                                     |           |    |       |     |      | 0.8 |     |
|         | 09T312-4N     | 3(2.5)3-4N     |                                                                                     |           |    |       |     |      | 1.2 |     |
| 标准型     | SCGW09T304-4N | SCGW3(2.5)1-4N |  | □□ST30S   | 4  | 9.525 | 4.4 | 3.97 | 0.4 | 3.0 |
|         | 09T308-4N     | 3(2.5)2-4N     |                                                                                     |           |    |       |     |      | 0.8 |     |
|         | 09T312-4N     | 3(2.5)3-4N     |                                                                                     |           |    |       |     |      | 1.2 |     |
|         | SCGT09T304-4N | SCGT3(2.5)1-4N |  | □□CBR430S | 4  |       |     |      | 0.4 |     |
|         | 09T308-4N     | 3(2.5)2-4N     |                                                                                     |           |    |       |     |      | 0.8 |     |
|         | 09T312-4N     | 3(2.5)3-4N     |                                                                                     |           |    |       |     |      | 1.2 |     |

SC

90°正方形·正型·有孔

PCBN 正型刀片

| H    |                            |                         |                                              |
|------|----------------------------|-------------------------|----------------------------------------------|
| 断续强度 |                            |                         |                                              |
| 结构   | SL                         | SL                      | CB                                           |
| 材质   | PNH0120 PNH0122 PNH0124    | PNH1020 PNH1022 PNH1024 | PNH2016 PNH2018 PNH2024 PNH3019 PNH3023      |
| 刃口   | S0054505 S0102005 S0152510 | S0152510 S0153510       | S0152510 S0153510 S0203520 S0102005 S0153510 |
| 涂层   | S/C3/CE                    | S/C3/CE                 | S/C3/CE S/C3                                 |

| 图示                                                                                               | ISO           | ANSI       | 刀片结构                                                                                  |           | 刃数 | ic   | φd  | S    | r   | la  |
|--------------------------------------------------------------------------------------------------|---------------|------------|---------------------------------------------------------------------------------------|-----------|----|------|-----|------|-----|-----|
| 常规mini型<br> | SCGW120404-4N | SCGW431-4N |  | □□ST22S   | 4  | 12.7 | 5.5 | 4.76 | 0.4 | 2.2 |
|                                                                                                  | 120408-4N     | 432-4N     |                                                                                       |           |    |      |     |      | 0.8 |     |
|                                                                                                  | 120412-4N     | 433-4N     |                                                                                       |           |    |      |     |      | 1.2 |     |
|                                                                                                  | SCGT120404-4N | SCGT431-4N |  | □□CBR422S | 4  |      |     |      | 0.4 |     |
|                                                                                                  | 120408-4N     | 432-4N     |                                                                                       |           |    |      |     |      | 0.8 |     |
|                                                                                                  | 120412-4N     | 433-4N     |                                                                                       |           |    |      |     |      | 1.2 |     |
| 标准型<br>     | SCGW120404-4N | SCGW431-4N |  | □□ST30S   | 4  | 12.7 | 5.5 | 4.76 | 0.4 | 3.0 |
|                                                                                                  | 120408-4N     | 432-4N     |                                                                                       |           |    |      |     |      | 0.8 |     |
|                                                                                                  | 120412-4N     | 433-4N     |                                                                                       |           |    |      |     |      | 1.2 |     |
|                                                                                                  | SCGT120404-4N | SCGT431-4N |  | □□CBR430S | 4  |      |     |      | 0.4 |     |
|                                                                                                  | 120408-4N     | 432-4N     |                                                                                       |           |    |      |     |      | 0.8 |     |
|                                                                                                  | 120412-4N     | 433-4N     |                                                                                       |           |    |      |     |      | 1.2 |     |

PCBN 数控刀片--淬火钢类

焊接式刀片

|       |              |
|-------|--------------|
| TC/TP | 60°三角形·正型·有孔 |
|       | PCBN 正型刀片    |

| H    |                            |                         |                            |                   |
|------|----------------------------|-------------------------|----------------------------|-------------------|
| 断续强度 |                            |                         |                            |                   |
| 结构   | SL                         | SL                      | SL                         | CB                |
| 材质   | PNH0120 PNH0122 PNH0124    | PNH1020 PNH1022 PNH1024 | PNH2016 PNH2018 PNH2024    | PNH3019 PNH3023   |
| 刃口   | S0054505 S0102005 S0152510 | S0152510 S0153510       | S0152510 S0153510 S0203520 | S0102005 S0153510 |
| 涂层   | S/C3/CE                    | S/C3/CE                 | S/C3/CE                    | S/C3              |

| 图示 | ISO           | ANSI                   | 刀片结构 | 刃数 | ic   | φd  | S    | r   | la  |
|----|---------------|------------------------|------|----|------|-----|------|-----|-----|
|    | TCGW080202-3N | TCGW(1.5)(1.5)(0.5)-3N |      | 3  | 4.76 | 2.4 | 2.38 | 0.2 | 2.2 |
|    | 080204-3N     | (1.5)(1.5)1-3N         |      | 3  | 4.76 | 2.4 | 2.38 | 0.4 |     |
|    | TPGW080202-3N | TPGW(1.5)(1.5)(0.5)-3N |      | 3  | 4.76 | 2.4 | 2.38 | 0.2 |     |
|    | 080204-3N     | (1.5)(1.5)1-3N         |      | 3  | 4.76 | 2.4 | 2.38 | 0.4 |     |
|    | TCGW080202-3N | TCGW(1.5)(1.5)(0.5)-3N |      | 3  | 4.76 | 2.4 | 2.38 | 0.2 | 3.0 |
|    | 080204-3N     | (1.5)(1.5)1-3N         |      | 3  | 4.76 | 2.4 | 2.38 | 0.4 |     |
|    | TPGW080202-3N | TPGW(1.5)(1.5)(0.5)-3N |      | 3  | 4.76 | 2.4 | 2.38 | 0.2 |     |
|    | 080204-3N     | (1.5)(1.5)1-3N         |      | 3  | 4.76 | 2.4 | 2.38 | 0.4 |     |

注：以上表格中刀尖角R0.2的刀片仅提供C3涂层或者非涂层

|       |              |
|-------|--------------|
| TC/TP | 60°三角形·正型·有孔 |
|       | PCBN 正型刀片    |

| H    |                            |                         |                            |                   |
|------|----------------------------|-------------------------|----------------------------|-------------------|
| 断续强度 |                            |                         |                            |                   |
| 结构   | SL                         | SL                      | SL                         | CB                |
| 材质   | PNH0120 PNH0122 PNH0124    | PNH1020 PNH1022 PNH1024 | PNH2016 PNH2018 PNH2024    | PNH3019 PNH3023   |
| 刃口   | S0054505 S0102005 S0152510 | S0152510 S0153510       | S0152510 S0153510 S0203520 | S0102005 S0153510 |
| 涂层   | S/C3/CE                    | S/C3/CE                 | S/C3/CE                    | S/C3              |

| 图示 | ISO           | ANSI                   | 刀片结构 | 刃数 | ic   | φd  | S    | r   | la  |
|----|---------------|------------------------|------|----|------|-----|------|-----|-----|
|    | TCGW090202-3N | TCGW(1.8)(1.5)(0.5)-3N |      | 3  | 5.56 | 2.4 | 2.38 | 0.2 | 2.2 |
|    | 090204-3N     | (1.8)(1.5)1-3N         |      | 3  | 5.56 | 2.4 | 2.38 | 0.4 |     |
|    | 090208-3N     | (1.8)(1.5)2-3N         |      | 3  | 5.56 | 2.4 | 2.38 | 0.8 |     |
|    | TPGW090202-3N | TPGW(1.8)(1.5)(0.5)-3N |      | 3  | 5.56 | 2.8 | 2.38 | 0.2 |     |
|    | 090204-3N     | (1.8)(1.5)1-3N         |      | 3  | 5.56 | 2.8 | 2.38 | 0.4 | 3.0 |
|    | 090208-3N     | (1.8)(1.5)2-3N         |      | 3  | 5.56 | 2.8 | 2.38 | 0.8 |     |
|    | TPGW090202-3N | TPGW(1.8)(1.5)(0.5)-3N |      | 3  | 5.56 | 2.8 | 2.38 | 0.2 |     |
|    | 090204-3N     | (1.8)(1.5)1-3N         |      | 3  | 5.56 | 2.8 | 2.38 | 0.4 |     |
|    | 090208-3N     | (1.8)(1.5)2-3N         |      | 3  | 5.56 | 2.8 | 2.38 | 0.8 | 3.0 |
|    | TPGW090202-3N | TPGW(1.8)(1.5)(0.5)-3N |      | 3  | 5.56 | 2.8 | 2.38 | 0.2 |     |
|    | 090204-3N     | (1.8)(1.5)1-3N         |      | 3  | 5.56 | 2.8 | 2.38 | 0.4 |     |
|    | 090208-3N     | (1.8)(1.5)2-3N         |      | 3  | 5.56 | 2.8 | 2.38 | 0.8 |     |

注：以上表格中刀尖角R0.2的刀片仅提供C3涂层或者非涂层

PCBN 数控刀片--淬火钢类

焊接式刀片

|       |              |
|-------|--------------|
| TC/TP | 60°三角形·正型·有孔 |
|       | PCBN 正型刀片    |

| H    |                            |                         |                            |                   |
|------|----------------------------|-------------------------|----------------------------|-------------------|
| 断续强度 |                            |                         |                            |                   |
| 结构   | SL                         | SL                      | SL                         | CB                |
| 材质   | PNH0120 PNH0122 PNH0124    | PNH1020 PNH1022 PNH1024 | PNH2016 PNH2018 PNH2024    | PNH3019 PNH3023   |
| 刃口   | S0054505 S0102005 S0152510 | S0152510 S0153510       | S0152510 S0153510 S0203520 | S0102005 S0153510 |
| 涂层   | S/C3/CE                    | S/C3/CE                 | S/C3/CE                    | S/C3              |

| 图示 | ISO           | ANSI           | 刀片结构 | 刃数 | ic   | φd  | S    | r   | la  |
|----|---------------|----------------|------|----|------|-----|------|-----|-----|
|    | TCGW110302-3N | TCGW22(0.5)-3N |      | 3  | 6.35 | 2.8 | 3.18 | 0.2 | 2.2 |
|    | 110304-3N     | 221-3N         |      | 3  | 6.35 | 2.8 | 3.18 | 0.4 |     |
|    | 110308-3N     | 222-3N         |      | 3  | 6.35 | 2.8 | 3.18 | 0.8 |     |
|    | TCGT110302-3N | TCGT22(0.5)-3N |      | 3  | 6.35 | 2.8 | 3.18 | 0.2 |     |
|    | 110304-3N     | 221-3N         |      | 3  | 6.35 | 3.3 | 3.18 | 0.4 | 3.0 |
|    | 110308-3N     | 222-3N         |      | 3  | 6.35 | 3.3 | 3.18 | 0.8 |     |
|    | TPGT110302-3N | TPGT22(0.5)-3N |      | 3  | 6.35 | 3.3 | 3.18 | 0.2 |     |
|    | 110304-3N     | 221-3N         |      | 3  | 6.35 | 3.3 | 3.18 | 0.4 |     |
|    | 110308-3N     | 222-3N         |      | 3  | 6.35 | 3.3 | 3.18 | 0.8 | 3.0 |
|    | TCGW110302-3N | TCGW22(0.5)-3N |      | 3  | 6.35 | 2.8 | 3.18 | 0.2 |     |
|    | 110304-3N     | 221-3N         |      | 3  | 6.35 | 2.8 | 3.18 | 0.4 |     |
|    | 110308-3N     | 222-3N         |      | 3  | 6.35 | 2.8 | 3.18 | 0.8 |     |
|    | TPGT110302-3N | TPGT22(0.5)-3N |      | 3  | 6.35 | 3.3 | 3.18 | 0.2 | 3.0 |
|    | 110304-3N     | 221-3N         |      | 3  | 6.35 | 3.3 | 3.18 | 0.4 |     |
|    | 110308-3N     | 222-3N         |      | 3  | 6.35 | 3.3 | 3.18 | 0.8 |     |
|    | TPGT110302-3N | TPGT22(0.5)-3N |      | 3  | 6.35 | 3.3 | 3.18 | 0.2 |     |
|    | 110304-3N     | 221-3N         |      | 3  | 6.35 | 3.3 | 3.18 | 0.4 | 3.0 |
|    | 110308-3N     | 222-3N         |      | 3  | 6.35 | 3.3 | 3.18 | 0.8 |     |
|    | TPGT110302-3N | TPGT22(0.5)-3N |      | 3  | 6.35 | 3.3 | 3.18 | 0.2 |     |
|    | 110304-3N     | 221-3N         |      | 3  | 6.35 | 3.3 | 3.18 | 0.4 |     |
|    | 110308-3N     | 222-3N         |      | 3  | 6.35 | 3.3 | 3.18 | 0.8 | 3.0 |
|    | TPGT110302-3N | TPGT22(0.5)-3N |      | 3  | 6.35 | 3.3 | 3.18 | 0.2 |     |
|    | 110304-3N     | 221-3N         |      | 3  | 6.35 | 3.3 | 3.18 | 0.4 |     |
|    | 110308-3N     | 222-3N         |      | 3  | 6.35 | 3.3 | 3.18 | 0.8 |     |

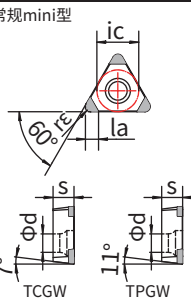
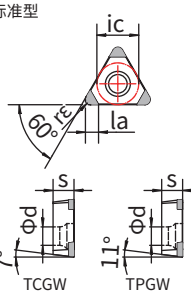
注：以上表格中刀尖角R0.2的刀片仅提供C3涂层或者非涂层

PCBN 数控刀片--淬火钢类

焊接式刀片

| TC/TP | 60°三角形·正型·有孔 |  |  |  | H    |                                                                                   |                                                                                   |                                                                                     |
|-------|--------------|--|--|--|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|       | PCBN 正型刀片    |  |  |  | 断续强度 |  |  |  |
|       |              |  |  |  | 结构   | SL                                                                                | SL                                                                                | SL                                                                                  |
|       |              |  |  |  | 材质   | PNH0120 PNH0122 PNH0124                                                           | PNH1020 PNH1022 PNH1024                                                           | PNH2016 PNH2018 PNH2024                                                             |
|       |              |  |  |  | 刃口   | S0054505 S0102005 S0152510                                                        | S0152510 S0153510                                                                 | S0102005 S0153510                                                                   |

|  |  |  |  | S/C3 |  |  |  |
|--|--|--|--|------|--|--|--|
|  |  |  |  | S/C3 |  |  |  |

| 图示                                                                                 | ISO           | ANSI       | 刀片结构                                                                                | 刃数 | ic    | φd  | S    | r   | la  |
|------------------------------------------------------------------------------------|---------------|------------|-------------------------------------------------------------------------------------|----|-------|-----|------|-----|-----|
|   | TCGW160304-3N | TCGW321-3N |    | 3  | 9.525 | 4.4 | 3.18 | 0.4 | 2.2 |
|                                                                                    | 160308-3N     | 322-3N     |                                                                                     |    |       |     |      | 0.8 |     |
|                                                                                    | 160312-3N     | 323-3N     |                                                                                     |    |       |     |      | 1.2 |     |
|                                                                                    | TCGT160304-3N | TCGT321-3N |    | 3  |       |     |      | 0.4 |     |
|                                                                                    | 160308-3N     | 322-3N     |                                                                                     |    |       |     |      | 0.8 |     |
|                                                                                    | 160312-3N     | 323-3N     |                                                                                     |    |       |     |      | 1.2 |     |
|                                                                                    | TPGW160304-3N | TPGW321-3N |    | 3  | 9.525 | 4.4 | 3.18 | 0.4 |     |
|                                                                                    | 160308-3N     | 322-3N     |                                                                                     |    |       |     |      | 0.8 |     |
|                                                                                    | 160312-3N     | 323-3N     |                                                                                     |    |       |     |      | 1.2 |     |
|                                                                                    | TPGT160304-3N | TPGT321-3N |    | 3  |       |     |      | 0.4 |     |
|                                                                                    | 160308-3N     | 322-3N     |                                                                                     |    |       |     |      | 0.8 |     |
|                                                                                    | 160312-3N     | 323-3N     |                                                                                     |    |       |     |      | 1.2 |     |
|  | TCGW160304-3N | TCGW321-3N |    | 3  | 9.525 | 4.4 | 3.18 | 0.4 | 3.0 |
|                                                                                    | 160308-3N     | 322-3N     |                                                                                     |    |       |     |      | 0.8 |     |
|                                                                                    | 160312-3N     | 323-3N     |                                                                                     |    |       |     |      | 1.2 |     |
|                                                                                    | TCGT160304-3N | TCGT321-3N |   | 3  |       |     |      | 0.4 |     |
|                                                                                    | 160308-3N     | 322-3N     |                                                                                     |    |       |     |      | 0.8 |     |
|                                                                                    | 160312-3N     | 323-3N     |                                                                                     |    |       |     |      | 1.2 |     |
|                                                                                    | TPGW160304-3N | TPGW321-3N |  | 3  | 9.525 | 4.4 | 3.18 | 0.4 |     |
|                                                                                    | 160308-3N     | 322-3N     |                                                                                     |    |       |     |      | 0.8 |     |
|                                                                                    | 160312-3N     | 323-3N     |                                                                                     |    |       |     |      | 1.2 |     |
|                                                                                    | TPGT160304-3N | TPGT321-3N |  | 3  |       |     |      | 0.4 |     |
|                                                                                    | 160308-3N     | 322-3N     |                                                                                     |    |       |     |      | 0.8 |     |
|                                                                                    | 160312-3N     | 323-3N     |                                                                                     |    |       |     |      | 1.2 |     |

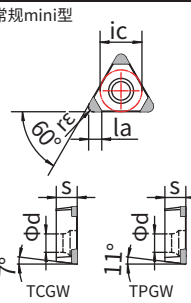
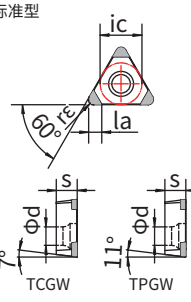
PCBN 数控刀片--淬火钢类

焊接式刀片



| TC/TP | 60°三角形·正型·有孔 |  |  |  | H    |                                                                                     |                                                                                     |                                                                                     |
|-------|--------------|--|--|--|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|       | PCBN 正型刀片    |  |  |  | 断续强度 |  |  |  |
|       |              |  |  |  | 结构   | SL                                                                                  | SL                                                                                  | SL                                                                                  |
|       |              |  |  |  | 材质   | PNH0120 PNH0122 PNH0124                                                             | PNH1020 PNH1022 PNH1024                                                             | PNH2016 PNH2018 PNH2024                                                             |
|       |              |  |  |  | 刃口   | S0054505 S0102005 S0152510                                                          | S0152510 S0153510                                                                   | S0102005 S0153510                                                                   |

|  |  |  |  | S/C3 |  |  |  |
|--|--|--|--|------|--|--|--|
|  |  |  |  | S/C3 |  |  |  |

| 图示                                                                                   | ISO           | ANSI       | 刀片结构                                                                                  | 刃数 | ic    | φd  | S    | r   | la  |
|--------------------------------------------------------------------------------------|---------------|------------|---------------------------------------------------------------------------------------|----|-------|-----|------|-----|-----|
|   | TCGW160404-3N | TCGW331-3N |    | 3  | 9.525 | 4.4 | 4.76 | 0.4 | 2.2 |
|                                                                                      | 160408-3N     | 332-3N     |                                                                                       |    |       |     |      | 0.8 |     |
|                                                                                      | 160412-3N     | 333-3N     |                                                                                       |    |       |     |      | 1.2 |     |
|                                                                                      | TCGT160404-3N | TCGT331-3N |    | 3  |       |     |      | 0.4 |     |
|                                                                                      | 160408-3N     | 332-3N     |                                                                                       |    |       |     |      | 0.8 |     |
|                                                                                      | 160412-3N     | 333-3N     |                                                                                       |    |       |     |      | 1.2 |     |
|                                                                                      | TPGW160404-3N | TPGW331-3N |    | 3  | 9.525 | 4.4 | 4.76 | 0.4 |     |
|                                                                                      | 160408-3N     | 332-3N     |                                                                                       |    |       |     |      | 0.8 |     |
|                                                                                      | 160412-3N     | 333-3N     |                                                                                       |    |       |     |      | 1.2 |     |
|                                                                                      | TPGT160404-3N | TPGT331-3N |    | 3  |       |     |      | 0.4 |     |
|                                                                                      | 160408-3N     | 332-3N     |                                                                                       |    |       |     |      | 0.8 |     |
|                                                                                      | 160412-3N     | 333-3N     |                                                                                       |    |       |     |      | 1.2 |     |
|  | TCGW160404-3N | TCGW331-3N |    | 3  | 9.525 | 4.4 | 4.76 | 0.4 | 3.0 |
|                                                                                      | 160408-3N     | 332-3N     |                                                                                       |    |       |     |      | 0.8 |     |
|                                                                                      | 160412-3N     | 333-3N     |                                                                                       |    |       |     |      | 1.2 |     |
|                                                                                      | TCGT160404-3N | TCGT331-3N |   | 3  |       |     |      | 0.4 |     |
|                                                                                      | 160408-3N     | 332-3N     |                                                                                       |    |       |     |      | 0.8 |     |
|                                                                                      | 160412-3N     | 333-3N     |                                                                                       |    |       |     |      | 1.2 |     |
|                                                                                      | TPGW160404-3N | TPGW331-3N |  | 3  | 9.525 | 4.4 | 4.76 | 0.4 |     |
|                                                                                      | 160408-3N     | 332-3N     |                                                                                       |    |       |     |      | 0.8 |     |
|                                                                                      | 160412-3N     | 333-3N     |                                                                                       |    |       |     |      | 1.2 |     |
|                                                                                      | TPGT160404-3N | TPGT331-3N |  | 3  |       |     |      | 0.4 |     |
|                                                                                      | 160408-3N     | 332-3N     |                                                                                       |    |       |     |      | 0.8 |     |
|                                                                                      | 160412-3N     | 333-3N     |                                                                                       |    |       |     |      | 1.2 |     |

PCBN 数控刀片--淬火钢类

焊接式刀片

|       |             |
|-------|-------------|
| VB/VC | 35°菱形·正型·有孔 |
|       | PCBN 正型刀片   |

| H    |                            |                         |                            |                   |
|------|----------------------------|-------------------------|----------------------------|-------------------|
| 断续强度 |                            |                         |                            |                   |
| 结构   | SL                         | SL                      | SL                         | CB                |
| 材质   | PNH0120 PNH0122 PNH0124    | PNH1020 PNH1022 PNH1024 | PNH2016 PNH2018 PNH2024    | PNH3019 PNH3023   |
| 刃口   | S0054505 S0102005 S0152510 | S0152510 S0153510       | S0152510 S0153510 S0203520 | S0102005 S0153510 |
| 涂层   | S/C3/CE                    | S/C3/CE                 | S/C3/CE                    | S/C3              |

| 图示 | ISO           | ANSI           | 刀片结构 |           | 刃数 | ic   | φd  | S    | r   | la  |
|----|---------------|----------------|------|-----------|----|------|-----|------|-----|-----|
|    | VBGW110302-2N | VBGW22(0.5)-2N |      | □□ST22S   | 2  | 6.35 | 2.8 | 3.18 | 0.2 | 2.2 |
|    | 110304-2N     | 221-2N         |      | □□ST22S   | 2  |      |     |      | 0.4 |     |
|    | 110308-2N     | 222-2N         |      | □□ST22S   | 2  |      |     |      | 0.8 |     |
|    | VBGT110302-2N | VBGT22(0.5)-2N |      | □□CBR422S | 2  |      |     |      | 0.2 |     |
|    | 110304-2N     | 221-2N         |      | □□CBR422S | 2  |      |     |      | 0.4 |     |
|    | 110308-2N     | 222-2N         |      | □□CBR422S | 2  |      |     |      | 0.8 |     |
|    | VCGW110302-2N | VCGW22(0.5)-2N |      | □□ST22S   | 2  | 6.35 | 2.8 | 3.18 | 0.2 |     |
|    | 110304-2N     | 221-2N         |      | □□ST22S   | 2  |      |     |      | 0.4 |     |
|    | 110308-2N     | 222-2N         |      | □□ST22S   | 2  |      |     |      | 0.8 |     |
|    | VCGT110302-2N | VCGT22(0.5)-2N |      | □□CBR422S | 2  |      |     |      | 0.2 |     |
|    | 110304-2N     | 221-2N         |      | □□CBR422S | 2  |      |     |      | 0.4 |     |
|    | 110308-2N     | 222-2N         |      | □□CBR422S | 2  |      |     |      | 0.8 |     |
|    | VBGW110302-2N | VBGW22(0.5)-2N |      | □□ST30S   | 2  | 6.35 | 2.8 | 3.18 | 0.2 | 3.0 |
|    | 110304-2N     | 221-2N         |      | □□ST30S   | 2  |      |     |      | 0.4 |     |
|    | 110308-2N     | 222-2N         |      | □□ST30S   | 2  |      |     |      | 0.8 |     |
|    | VBGT110302-2N | VBGT22(0.5)-2N |      | □□CBR430S | 2  |      |     |      | 0.2 |     |
|    | 110304-2N     | 221-2N         |      | □□CBR430S | 2  |      |     |      | 0.4 |     |
|    | 110308-2N     | 222-2N         |      | □□CBR430S | 2  |      |     |      | 0.8 |     |
|    | VCGW110302-2N | VCGW22(0.5)-2N |      | □□ST30S   | 2  | 6.35 | 2.8 | 3.18 | 0.2 |     |
|    | 110304-2N     | 221-2N         |      | □□ST30S   | 2  |      |     |      | 0.4 |     |
|    | 110308-2N     | 222-2N         |      | □□ST30S   | 2  |      |     |      | 0.8 |     |
|    | VCGT110302-2N | VCGT22(0.5)-2N |      | □□CBR430S | 2  |      |     |      | 0.2 |     |
|    | 110304-2N     | 221-2N         |      | □□CBR430S | 2  |      |     |      | 0.4 |     |
|    | 110308-2N     | 222-2N         |      | □□CBR430S | 2  |      |     |      | 0.8 |     |

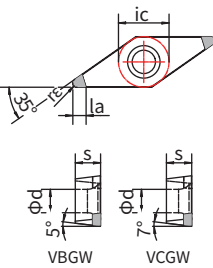
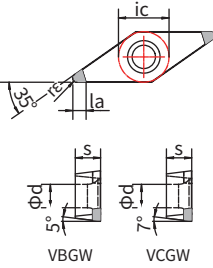
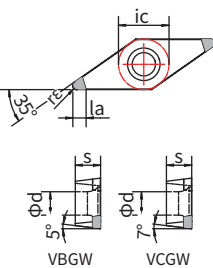
注：以上表格中刀尖角R0.2的刀片仅提供C3涂层或者非涂层

PCBN 数控刀片--淬火钢类

焊接式刀片

|       |             |
|-------|-------------|
| VB/VC | 35°菱形·正型·有孔 |
|       | PCBN 正型刀片   |

| H    |                            |                         |                            |                   |
|------|----------------------------|-------------------------|----------------------------|-------------------|
| 断续强度 |                            |                         |                            |                   |
| 结构   | SL                         | SL                      | SL                         | CB                |
| 材质   | PNH0120 PNH0122 PNH0124    | PNH1020 PNH1022 PNH1024 | PNH2016 PNH2018 PNH2024    | PNH3019 PNH3023   |
| 刃口   | S0054505 S0102005 S0152510 | S0152510 S0153510       | S0152510 S0153510 S0203520 | S0102005 S0153510 |
| 涂层   | S/C3/CE                    | S/C3/CE                 | S/C3/CE                    | S/C3              |

| 图示                                                                                             | ISO           | ANSI       | 刀片结构                                                                                  |           | 刃数 | ic    | φd  | S    | r   | la  |
|------------------------------------------------------------------------------------------------|---------------|------------|---------------------------------------------------------------------------------------|-----------|----|-------|-----|------|-----|-----|
| <br>常规mini型 | VBGW160404-2N | VBGW331-2N |    | □□ST22S   | 2  | 9.525 | 4.4 | 4.76 | 0.4 | 2.2 |
|                                                                                                | 160408-2N     | 332-2N     |                                                                                       |           |    |       |     |      | 0.8 |     |
|                                                                                                | 160412-2N     | 333-2N     |                                                                                       |           |    |       |     |      | 1.2 |     |
|                                                                                                | VBGT160404-2N | VBGT331-2N |    | □□CBR422S | 2  |       |     |      | 0.4 |     |
|                                                                                                | 160408-2N     | 332-2N     |                                                                                       |           |    |       |     |      | 0.8 |     |
|                                                                                                | 160412-2N     | 333-2N     |                                                                                       |           |    |       |     |      | 1.2 |     |
|                                                                                                | VCGW160404-2N | VCGW331-2N |    | □□ST22S   | 2  | 9.525 | 4.4 | 4.76 | 0.4 |     |
|                                                                                                | 160408-2N     | 332-2N     |                                                                                       |           |    |       |     |      | 0.8 |     |
|                                                                                                | 160412-2N     | 333-2N     |                                                                                       |           |    |       |     |      | 1.2 |     |
|                                                                                                | VCGT160404-2N | VCGT331-2N |    | □□CBR422S | 2  |       |     |      | 0.4 |     |
|                                                                                                | 160408-2N     | 332-2N     |                                                                                       |           |    |       |     |      | 0.8 |     |
|                                                                                                | 160412-2N     | 333-2N     |                                                                                       |           |    |       |     |      | 1.2 |     |
| <br>标准型    | VBGW160404-2N | VBGW331-2N |    | □□ST30S   | 2  | 9.525 | 4.4 | 4.76 | 0.4 | 3.0 |
|                                                                                                | 160408-2N     | 332-2N     |                                                                                       |           |    |       |     |      | 0.8 |     |
|                                                                                                | 160412-2N     | 333-2N     |                                                                                       |           |    |       |     |      | 1.2 |     |
|                                                                                                | VBGT160404-2N | VBGT331-2N |   | □□CBR430S | 2  |       |     |      | 0.4 |     |
|                                                                                                | 160408-2N     | 332-2N     |                                                                                       |           |    |       |     |      | 0.8 |     |
|                                                                                                | 160412-2N     | 333-2N     |                                                                                       |           |    |       |     |      | 1.2 |     |
|                                                                                                | VCGW160404-2N | VCGW331-2N |  | □□ST30S   | 2  | 9.525 | 4.4 | 4.76 | 0.4 |     |
|                                                                                                | 160408-2N     | 332-2N     |                                                                                       |           |    |       |     |      | 0.8 |     |
|                                                                                                | 160412-2N     | 333-2N     |                                                                                       |           |    |       |     |      | 1.2 |     |
|                                                                                                | VCGT160404-2N | VCGT331-2N |  | □□CBR430S | 2  |       |     |      | 0.4 |     |
|                                                                                                | 160408-2N     | 332-2N     |                                                                                       |           |    |       |     |      | 0.8 |     |
|                                                                                                | 160412-2N     | 333-2N     |                                                                                       |           |    |       |     |      | 1.2 |     |
| <br>长刃型   | VBGW160404-2N | VBGW331-2N |  | □□ST40S   | 2  | 9.525 | 4.4 | 4.76 | 0.4 | 4.0 |
|                                                                                                | 160408-2N     | 332-2N     |                                                                                       |           |    |       |     |      | 0.8 |     |
|                                                                                                | 160412-2N     | 333-2N     |                                                                                       |           |    |       |     |      | 1.2 |     |
|                                                                                                | 160416-2N     | 334-2N     | 1.6                                                                                   |           |    |       |     |      |     |     |
|                                                                                                | VBGT160404-2N | VBGT331-2N |  | □□CBR640S | 2  |       |     |      | 0.4 |     |
|                                                                                                | 160408-2N     | 332-2N     |                                                                                       |           |    |       |     |      | 0.8 |     |
|                                                                                                | 160412-2N     | 333-2N     |                                                                                       |           |    |       |     |      | 1.2 |     |
|                                                                                                | 160416-2N     | 334-2N     | 1.6                                                                                   |           |    |       |     |      |     |     |
|                                                                                                | VCGW160404-2N | VCGW331-2N |  | □□ST40S   | 2  | 9.525 | 4.4 | 4.76 | 0.4 |     |
|                                                                                                | 160408-2N     | 332-2N     |                                                                                       |           |    |       |     |      | 0.8 |     |
|                                                                                                | 160412-2N     | 333-2N     |                                                                                       |           |    |       |     |      | 1.2 |     |
|                                                                                                | 160416-2N     | 334-2N     | 1.6                                                                                   |           |    |       |     |      |     |     |
|                                                                                                | VCGT160404-2N | VCGT331-2N |  | □□CBR640S | 2  |       |     |      | 0.4 |     |
|                                                                                                | 160408-2N     | 332-2N     |                                                                                       |           |    |       |     |      | 0.8 |     |
| 160412-2N                                                                                      | 333-2N        | 1.2        |                                                                                       |           |    |       |     |      |     |     |
| 160416-2N                                                                                      | 334-2N        | 1.6        |                                                                                       |           |    |       |     |      |     |     |

PCBN 数控刀片--淬火钢类

整体/焊接式刀片

CN

80°菱形·负型·整体

PCBN 负型刀片

| H    |                                                                                                                                                                         |          |  |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--|
| 断续强度 |   |          |  |
| 结构   | SS                                                                                                                                                                      |          |  |
| 材质   | PNH2026                                                                                                                                                                 | PNH2028  |  |
| 刃口   | S0102010                                                                                                                                                                | S0202020 |  |
| 涂层   | S/C3/CE                                                                                                                                                                 |          |  |

| 图示 | ISO           | ANSI       | 刀片结构 |           | 刃数 | ic    | φd | S    | r   | la |
|----|---------------|------------|------|-----------|----|-------|----|------|-----|----|
|    | CNGN090304-4N | CNGN321-4N |      | SSST90S   | 4  | 9.525 | —  | 3.18 | 0.4 | 9  |
|    | 090308-4N     | 322-4N     |      |           |    |       |    |      | 0.8 |    |
|    | 090312-4N     | 323-4N     |      |           |    |       |    |      | 1.2 |    |
|    | CNGN090304-4N | CNGN321-4N |      | SSWGR90S  | 4  |       |    |      | 0.4 |    |
|    | 090308-4N     | 322-4N     |      |           |    |       |    |      | 0.8 |    |
|    | 090312-4N     | 323-4N     |      |           |    |       |    |      | 1.2 |    |
|    | CNGF090304-4N | CNGF321-4N |      | SSCBR490S | 4  |       |    |      | 0.4 |    |
|    | 090308-4N     | 322-4N     |      |           |    |       |    |      | 0.8 |    |
|    | 090312-4N     | 323-4N     |      |           |    |       |    |      | 1.2 |    |
|    | CNGN090404-4N | CNGN331-4N |      | SSST90S   | 4  | 9.525 | —  | 4.76 | 0.4 | 9  |
|    | 090408-4N     | 332-4N     |      |           |    |       |    |      | 0.8 |    |
|    | 090412-4N     | 333-4N     |      |           |    |       |    |      | 1.2 |    |
|    | CNGN090404-4N | CNGN331-4N |      | SSWGR90S  | 4  |       |    |      | 0.4 |    |
|    | 090408-4N     | 332-4N     |      |           |    |       |    |      | 0.8 |    |
|    | 090412-4N     | 333-4N     |      |           |    |       |    |      | 1.2 |    |
|    | CNGF090404-4N | CNGF331-4N |      | SSCBR490S | 4  |       |    |      | 0.4 |    |
|    | 090408-4N     | 332-4N     |      |           |    |       |    |      | 0.8 |    |
|    | 090412-4N     | 333-4N     |      |           |    |       |    |      | 1.2 |    |

CN

80°菱形·负型·有孔

PCBN 负型刀片

| H    |                            |                         |                         |
|------|----------------------------|-------------------------|-------------------------|
| 断续强度 |                            |                         |                         |
| 结构   | SL                         | SL                      | CB                      |
| 材质   | PNH0120 PNH0122 PNH0124    | PNH1020 PNH1022 PNH1024 | PNH2016 PNH2018 PNH2024 |
| 刃口   | S0054505 S0102005 S0152510 | S0152510 S0153510       | S0102005 S0153510       |
| 涂层   | S/C3/CE                    | S/C3/CE                 | S/C3                    |

| 图示 | ISO           | ANSI       | 刀片结构 |           | 刃数 | ic   | φd   | S    | r   | la  |
|----|---------------|------------|------|-----------|----|------|------|------|-----|-----|
|    | CNGA120404-2N | CNGA431-2N |      | □□ST22S   | 2  | 12.7 | 5.16 | 4.76 | 0.4 | 2.2 |
|    | 120408-2N     | 432-2N     |      |           |    |      |      |      | 0.8 |     |
|    | 120412-2N     | 433-2N     |      |           |    |      |      |      | 1.2 |     |
|    | CNGA120404-2N | CNGA431-2N |      | □□WGR22S  | 2  |      |      |      | 0.4 |     |
|    | 120408-2N     | 432-2N     |      |           |    |      |      |      | 0.8 |     |
|    | 120412-2N     | 433-2N     |      |           |    |      |      |      | 1.2 |     |
|    | CNGM120404-2N | CNGM431-2N |      | □□CBR422S | 2  |      |      |      | 0.4 |     |
|    | 120408-2N     | 432-2N     |      |           |    |      |      |      | 0.8 |     |
|    | 120412-2N     | 433-2N     |      |           |    |      |      |      | 1.2 |     |
|    | CNGA120404-2N | CNGA431-2N |      | □□ST30S   | 2  | 12.7 | 5.16 | 4.76 | 0.4 | 3.0 |
|    | 120408-2N     | 432-2N     |      |           |    |      |      |      | 0.8 |     |
|    | 120412-2N     | 433-2N     |      |           |    |      |      |      | 1.2 |     |
|    | CNGA120404-2N | CNGA431-2N |      | □□WGR30S  | 2  |      |      |      | 0.4 |     |
|    | 120408-2N     | 432-2N     |      |           |    |      |      |      | 0.8 |     |
|    | 120412-2N     | 433-2N     |      |           |    |      |      |      | 1.2 |     |
|    | CNGM120404-2N | CNGM431-2N |      | □□CBR430S | 2  |      |      |      | 0.4 |     |
|    | 120408-2N     | 432-2N     |      |           |    |      |      |      | 0.8 |     |
|    | 120412-2N     | 433-2N     |      |           |    |      |      |      | 1.2 |     |

(接下页)

PCBN 数控刀片--淬火钢类

焊接式刀片

CN

80°菱形·负型·有孔

PCBN 负型刀片

| H    |                            |                         |                            |
|------|----------------------------|-------------------------|----------------------------|
| 断续强度 |                            |                         |                            |
| 结构   | SL                         | SL                      | CB                         |
| 材质   | PNH0120 PNH0122 PNH0124    | PNH1020 PNH1022 PNH1024 | PNH2016 PNH2018 PNH2024    |
| 刃口   | S0054505 S0102005 S0152510 | S0152510 S0153510       | S0152510 S0153510 S0203520 |
| 涂层   | S/C3/CE                    | S/C3/CE                 | S/C3                       |

| 图示 | ISO           | ANSI       | 刀片结构 |           | 刃数 | ic   | φd   | S    | r   | la  |
|----|---------------|------------|------|-----------|----|------|------|------|-----|-----|
|    | CNGA120408-2N | CNGA432-2N |      | □□ST40S   | 2  | 12.7 | 5.16 | 4.76 | 0.8 | 4.0 |
|    | 120412-2N     | 433-2N     |      |           |    |      |      |      | 1.2 |     |
|    | 120416-2N     | 434-2N     |      |           |    |      |      |      | 1.6 |     |
|    | CNGA120408-2N | CNGA432-2N |      | □□WGR40S  | 2  |      |      |      | 0.8 |     |
|    | 120412-2N     | 433-2N     |      |           |    |      |      |      | 1.2 |     |
|    | 120416-2N     | 434-2N     |      |           |    |      |      |      | 1.6 |     |
|    | CNGM120408-2N | CNGM432-2N |      | □□CBR640S | 2  |      |      |      | 0.8 |     |
|    | 120412-2N     | 433-2N     |      |           |    |      |      |      | 1.2 |     |
|    | 120416-2N     | 434-2N     |      |           |    |      |      |      | 1.6 |     |
|    | CNGA120404-4N | CNGA431-4N |      | □□ST22S   | 4  | 12.7 | 5.16 | 4.76 | 0.4 | 2.2 |
|    | 120408-4N     | 432-4N     |      |           |    |      |      |      | 0.8 |     |
|    | 120412-4N     | 433-4N     |      |           |    |      |      |      | 1.2 |     |
|    | CNGA120404-4N | CNGA431-4N |      | □□WGR22S  | 4  |      |      |      | 0.4 |     |
|    | 120408-4N     | 432-4N     |      |           |    |      |      |      | 0.8 |     |
|    | 120412-4N     | 433-4N     |      |           |    |      |      |      | 1.2 |     |
|    | CNGG120404-4N | CNGG431-4N |      | □□CBR422S | 4  |      |      |      | 0.4 |     |
|    | 120408-4N     | 432-4N     |      |           |    |      |      |      | 0.8 |     |
|    | 120412-4N     | 433-4N     |      |           |    |      |      |      | 1.2 |     |
|    | CNGA120404-4N | CNGA431-4N |      | □□ST30S   | 4  | 12.7 | 5.16 | 4.76 | 0.4 | 3.0 |
|    | 120408-4N     | 432-4N     |      |           |    |      |      |      | 0.8 |     |
|    | 120412-4N     | 433-4N     |      |           |    |      |      |      | 1.2 |     |
|    | CNGA120404-4N | CNGA431-4N |      | □□WGR30S  | 4  |      |      |      | 0.4 |     |
|    | 120408-4N     | 432-4N     |      |           |    |      |      |      | 0.8 |     |
|    | 120412-4N     | 433-4N     |      |           |    |      |      |      | 1.2 |     |
|    | CNGG120404-4N | CNGG431-4N |      | □□CBR430S | 4  |      |      |      | 0.4 |     |
|    | 120408-4N     | 432-4N     |      |           |    |      |      |      | 0.8 |     |
|    | 120412-4N     | 433-4N     |      |           |    |      |      |      | 1.2 |     |
|    | CNGA120408-4N | CNGA432-4N |      | □□ST40S   | 4  | 12.7 | 5.16 | 4.76 | 0.8 | 4.0 |
|    | 120412-4N     | 433-4N     |      |           |    |      |      |      | 1.2 |     |
|    | 120416-4N     | 434-4N     |      |           |    |      |      |      | 1.6 |     |
|    | CNGA120408-4N | CNGA432-4N |      | □□WGR40S  | 4  |      |      |      | 0.8 |     |
|    | 120412-4N     | 433-4N     |      |           |    |      |      |      | 1.2 |     |
|    | 120416-4N     | 434-4N     |      |           |    |      |      |      | 1.6 |     |
|    | CNGG120408-4N | CNGG432-4N |      | □□CBR640S | 4  |      |      |      | 0.8 |     |
|    | 120412-4N     | 433-4N     |      |           |    |      |      |      | 1.2 |     |
|    | 120416-4N     | 434-4N     |      |           |    |      |      |      | 1.6 |     |

PCBN 数控刀片--淬火钢类

整体式刀片

|    |             |
|----|-------------|
| CN | 80°菱形·负型·整体 |
|    | PCBN 负型刀片   |

|      |                   |
|------|-------------------|
| H    |                   |
| 断续强度 |                   |
| 结构   | SS                |
| 材质   | PNH2026 PNH2028   |
| 刃口   | S0102010 S0202020 |
| 涂层   | S/C3/CE           |

| 图示 | ISO           | ANSI       | 刀片结构 |            | 刃数 | ic   | ød   | S    | r   | la |
|----|---------------|------------|------|------------|----|------|------|------|-----|----|
|    | CNGN120408-4N | CNGN432-4N |      | SSST120S   | 4  | 12.7 | —    | 4.76 | 0.8 | 12 |
|    | 120412-4N     | 433-4N     |      |            |    |      |      |      | 1.2 |    |
|    | 120416-4N     | 434-4N     |      |            |    |      |      |      | 1.6 |    |
|    | CNGN120408-4N | CNGN432-4N |      | SSWGR120S  | 4  |      |      |      | 0.8 |    |
|    | 120412-4N     | 433-4N     |      |            |    |      |      |      | 1.2 |    |
|    | 120416-4N     | 434-4N     |      |            |    |      |      |      | 1.6 |    |
|    | CNGF120408-4N | CNGF432-4N |      | SSCBR6120S | 4  |      |      |      | 0.8 |    |
|    | 120412-4N     | 433-4N     |      |            |    |      |      |      | 1.2 |    |
|    | 120416-4N     | 434-4N     |      |            |    |      |      |      | 1.6 |    |
|    | CNGX120408-4N | CNGX432-4N |      | SSST120S   | 4  | 12.7 | —    | 4.76 | 0.8 | 12 |
|    | 120412-4N     | 433-4N     |      |            |    |      |      |      | 1.2 |    |
|    | 120416-4N     | 434-4N     |      |            |    |      |      |      | 1.6 |    |
|    | CNGX120408-4N | CNGX432-4N |      | SSWGR120S  | 4  |      |      |      | 0.8 |    |
|    | 120412-4N     | 433-4N     |      |            |    |      |      |      | 1.2 |    |
|    | 120416-4N     | 434-4N     |      |            |    |      |      |      | 1.6 |    |
|    | CNGX120408-4N | CNGX432-4N |      | SSCBR6120S | 4  |      |      |      | 0.8 |    |
|    | 120412-4N     | 433-4N     |      |            |    |      |      |      | 1.2 |    |
|    | 120416-4N     | 434-4N     |      |            |    |      |      |      | 1.6 |    |
|    | CNGA120408-4N | CNGA432-4N |      | SSST120S   | 4  | 12.7 | 5.16 | 4.76 | 0.8 | 12 |
|    | 120412-4N     | 433-4N     |      |            |    |      |      |      | 1.2 |    |
|    | 120416-4N     | 434-4N     |      |            |    |      |      |      | 1.6 |    |
|    | CNGA120408-4N | CNGA432-4N |      | SSWGR120S  | 4  |      |      |      | 0.8 |    |
|    | 120412-4N     | 433-4N     |      |            |    |      |      |      | 1.2 |    |
|    | 120416-4N     | 434-4N     |      |            |    |      |      |      | 1.6 |    |
|    | CNGG120408-4N | CNGG432-4N |      | SSCBR6120S | 4  |      |      |      | 0.8 |    |
|    | 120412-4N     | 433-4N     |      |            |    |      |      |      | 1.2 |    |
|    | 120416-4N     | 434-4N     |      |            |    |      |      |      | 1.6 |    |
|    | CNGN120608-4N | CNGN442-4N |      | SSST120S   | 4  | 12.7 | —    | 6.35 | 0.8 | 12 |
|    | 120612-4N     | 443-4N     |      |            |    |      |      |      | 1.2 |    |
|    | 120616-4N     | 444-4N     |      |            |    |      |      |      | 1.6 |    |
|    | CNGN120608-4N | CNGN442-4N |      | SSWGR120S  | 4  |      |      |      | 0.8 |    |
|    | 120612-4N     | 443-4N     |      |            |    |      |      |      | 1.2 |    |
|    | 120616-4N     | 444-4N     |      |            |    |      |      |      | 1.6 |    |
|    | CNGF120608-4N | CNGF442-4N |      | SSCBR6120S | 4  |      |      |      | 0.8 |    |
|    | 120612-4N     | 443-4N     |      |            |    |      |      |      | 1.2 |    |
|    | 120616-4N     | 444-4N     |      |            |    |      |      |      | 1.6 |    |

PCBN 数控刀片--淬火钢类

整体/贯穿式刀片

|    |             |
|----|-------------|
| CN | 80°菱形·负型·整体 |
|    | PCBN 负型刀片   |

|      |                   |
|------|-------------------|
| H    |                   |
| 断续强度 |                   |
| 结构   | SS                |
| 材质   | PNH2026 PNH2028   |
| 刃口   | S0102010 S0202020 |
| 涂层   | S/C3/CE           |

| 图示 | ISO           | ANSI       | 刀片结构 |            | 刃数 | ic   | ød | S    | r   | la |
|----|---------------|------------|------|------------|----|------|----|------|-----|----|
|    | CNGX120608-4N | CNGX442-4N |      | SSST120S   | 4  | 12.7 | —  | 6.35 | 0.8 | 12 |
|    | 120612-4N     | 443-4N     |      |            |    |      |    |      | 1.2 |    |
|    | 120616-4N     | 444-4N     |      |            |    |      |    |      | 1.6 |    |
|    | CNGX120608-4N | CNGX442-4N |      | SSWGR120S  | 4  |      |    |      | 0.8 |    |
|    | 120612-4N     | 443-4N     |      |            |    |      |    |      | 1.2 |    |
|    | 120616-4N     | 444-4N     |      |            |    |      |    |      | 1.6 |    |
|    | CNGX120608-4N | CNGX442-4N |      | SSCBR6120S | 4  |      |    |      | 0.8 |    |
|    | 120612-4N     | 443-4N     |      |            |    |      |    |      | 1.2 |    |
|    | 120616-4N     | 444-4N     |      |            |    |      |    |      | 1.6 |    |
|    | CNGN120708-4N | CNGN452-4N |      | SSST120S   | 4  | 12.7 | —  | 7.94 | 0.8 | 12 |
|    | 120712-4N     | 453-4N     |      |            |    |      |    |      | 1.2 |    |
|    | 120716-4N     | 454-4N     |      |            |    |      |    |      | 1.6 |    |
|    | CNGN120708-4N | CNGN452-4N |      | SSWGR120S  | 4  |      |    |      | 0.8 |    |
|    | 120712-4N     | 453-4N     |      |            |    |      |    |      | 1.2 |    |
|    | 120716-4N     | 454-4N     |      |            |    |      |    |      | 1.6 |    |
|    | CNGF120708-4N | CNGF452-4N |      | SSCBR6120S | 4  |      |    |      | 0.8 |    |
|    | 120712-4N     | 453-4N     |      |            |    |      |    |      | 1.2 |    |
|    | 120716-4N     | 454-4N     |      |            |    |      |    |      | 1.6 |    |
|    | CNGX120708-4N | CNGX452-4N |      | SSST120S   | 4  | 12.7 | —  | 7.94 | 0.8 | 12 |
|    | 120712-4N     | 453-4N     |      |            |    |      |    |      | 1.2 |    |
|    | 120716-4N     | 454-4N     |      |            |    |      |    |      | 1.6 |    |
|    | CNGX120708-4N | CNGX452-4N |      | SSWGR120S  | 4  |      |    |      | 0.8 |    |
|    | 120712-4N     | 453-4N     |      |            |    |      |    |      | 1.2 |    |
|    | 120716-4N     | 454-4N     |      |            |    |      |    |      | 1.6 |    |
|    | CNGX120708-4N | CNGX452-4N |      | SSCBR6120S | 4  |      |    |      | 0.8 |    |
|    | 120712-4N     | 453-4N     |      |            |    |      |    |      | 1.2 |    |
|    | 120716-4N     | 454-4N     |      |            |    |      |    |      | 1.6 |    |

|    |             |
|----|-------------|
| CN | 80°菱形·负型·贯穿 |
|    | PCBN 负型刀片   |

|      |                                 |
|------|---------------------------------|
| H    |                                 |
| 断续强度 |                                 |
| 结构   | SWU                             |
| 材质   | PNH0120 PNH0124 PNH2016 PNH2024 |
| 刃口   | S0102010 S0202020               |
| 涂层   | S/C3/CE                         |

| 图示 | ISO           | ANSI       | 刀片结构 |            | 刃数 | ic   | ød   | S    | r   | la  |
|----|---------------|------------|------|------------|----|------|------|------|-----|-----|
|    | CNGA120408-4N | CNGA432-4N |      | SWUST25S   | 4  | 12.7 | 5.16 | 4.76 | 0.8 | 2.5 |
|    | 120412-4N     | 433-4N     |      |            |    |      |      |      | 1.2 |     |
|    | 120416-4N     | 434-4N     |      |            |    |      |      |      | 1.6 |     |
|    | CNGA120408-4N | CNGA432-4N |      | SWUWGR25S  | 4  |      |      |      | 0.8 |     |
|    | 120412-4N     | 433-4N     |      |            |    |      |      |      | 1.2 |     |
|    | 120416-4N     | 434-4N     |      |            |    |      |      |      | 1.6 |     |
|    | CNGG120408-4N | CNGG432-4N |      | SWUCBR425S | 4  |      |      |      | 0.8 |     |
|    | 120412-4N     | 433-4N     |      |            |    |      |      |      | 1.2 |     |
|    | 120416-4N     | 434-4N     |      |            |    |      |      |      | 1.6 |     |

PCBN 数控刀片--淬火钢类

整体/焊接式刀片

DN

55°菱形·负型·整体

PCBN 负型刀片

| H    |                   |
|------|-------------------|
| 断续强度 |                   |
| 结构   | SS                |
| 材质   | PNH2026 PNH2028   |
| 刃口   | S0102010 S0202020 |
| 涂层   | S/C3/CE           |

| 图示 | ISO           | ANSI       | 刀片结构 |            | 刃数 | ic    | φd | S    | r   | la |
|----|---------------|------------|------|------------|----|-------|----|------|-----|----|
|    | DNGN110404-4N | DNGN331-4N |      | SSST110S   | 4  | 9.525 | —  | 4.76 | 0.4 | 11 |
|    | 110408-4N     | 332-4N     |      |            |    |       |    |      | 0.8 |    |
|    | 110412-4N     | 333-4N     |      |            |    |       |    |      | 1.2 |    |
|    | DNGF110404-4N | DNGF331-4N |      | SSCBR4110S | 4  |       |    |      | 0.4 |    |
|    | 110408-4N     | 332-4N     |      |            |    |       |    |      | 0.8 |    |
|    | 110412-4N     | 333-4N     |      |            |    |       |    |      | 1.2 |    |

DN

55°菱形·负型·有孔

PCBN 负型刀片

| H    |                            |                         |                            |                   |
|------|----------------------------|-------------------------|----------------------------|-------------------|
| 断续强度 |                            |                         |                            |                   |
| 结构   | SL                         | SL                      | SL                         | CB                |
| 材质   | PNH0120 PNH0122 PNH0124    | PNH1020 PNH1022 PNH1024 | PNH2016 PNH2018 PNH2024    | PNH3019 PNH3023   |
| 刃口   | S0054505 S0102005 S0152510 | S0152510 S0153510       | S0152510 S0153510 S0203520 | S0102005 S0153510 |
| 涂层   | S/C3/CE                    | S/C3/CE                 | S/C3/CE                    | S/C3              |

| 图示      | ISO           | ANSI       | 刀片结构 |                   | 刃数 | ic   | φd   | S    | r   | la  |
|---------|---------------|------------|------|-------------------|----|------|------|------|-----|-----|
| 常规mini型 | DNGA150404-2N | DNGA431-2N |      | □□ST22S           | 2  | 12.7 | 5.16 | 4.76 | 0.4 | 2.2 |
|         | 150408-2N     | 432-2N     |      |                   |    |      |      |      | 0.8 |     |
|         | 150412-2N     | 433-2N     |      |                   |    |      |      |      | 1.2 |     |
|         | DNGA150404-2N | DNGA431-2N |      | □□WGR22S (107.5°) | 2  |      |      |      | 0.4 |     |
|         | 150408-2N     | 432-2N     |      |                   |    |      |      |      | 0.8 |     |
|         | 150412-2N     | 433-2N     |      |                   |    |      |      |      | 1.2 |     |
|         | DNGM150404-2N | DNGM431-2N |      | □□CBR422S         | 2  |      |      |      | 0.4 |     |
|         | 150408-2N     | 432-2N     |      |                   |    |      |      |      | 0.8 |     |
|         | 150412-2N     | 433-2N     |      |                   |    |      |      |      | 1.2 |     |
| 标准型     | DNGA150404-2N | DNGA431-2N |      | □□ST30S           | 2  | 12.7 | 5.16 | 4.76 | 0.4 | 3.0 |
|         | 150408-2N     | 432-2N     |      |                   |    |      |      |      | 0.8 |     |
|         | 150412-2N     | 433-2N     |      |                   |    |      |      |      | 1.2 |     |
|         | DNGA150404-2N | DNGA431-2N |      | □□WGR30S (107.5°) | 2  |      |      |      | 0.4 |     |
|         | 150408-2N     | 432-2N     |      |                   |    |      |      |      | 0.8 |     |
|         | 150412-2N     | 433-2N     |      |                   |    |      |      |      | 1.2 |     |
|         | DNGM150404-2N | DNGM431-2N |      | □□CBR430S         | 2  |      |      |      | 0.4 |     |
|         | 150408-2N     | 432-2N     |      |                   |    |      |      |      | 0.8 |     |
|         | 150412-2N     | 433-2N     |      |                   |    |      |      |      | 1.2 |     |
| 长刃型     | DNGA150408-2N | DNGA432-2N |      | □□ST40S           | 2  | 12.7 | 5.16 | 4.76 | 0.8 | 4.0 |
|         | 150412-2N     | 433-2N     |      |                   |    |      |      |      | 1.2 |     |
|         | 150416-2N     | 434-2N     |      |                   |    |      |      |      | 1.6 |     |
|         | DNGA150408-2N | DNGA432-2N |      | □□WGR40S (107.5°) | 2  |      |      |      | 0.8 |     |
|         | 150412-2N     | 433-2N     |      |                   |    |      |      |      | 1.2 |     |
|         | 150416-2N     | 434-2N     |      |                   |    |      |      |      | 1.6 |     |
|         | DNGM150408-2N | DNGM432-2N |      | □□CBR640S         | 2  |      |      |      | 0.8 |     |
|         | 150412-2N     | 433-2N     |      |                   |    |      |      |      | 1.2 |     |
|         | 150416-2N     | 434-2N     |      |                   |    |      |      |      | 1.6 |     |

(接下页)

PCBN 数控刀片--淬火钢类

焊接式刀片

DN

55°菱形·负型·有孔

PCBN 负型刀片

| H    |                            |                         |                            |                   |
|------|----------------------------|-------------------------|----------------------------|-------------------|
| 断续强度 |                            |                         |                            |                   |
| 结构   | SL                         | SL                      | SL                         | CB                |
| 材质   | PNH0120 PNH0122 PNH0124    | PNH1020 PNH1022 PNH1024 | PNH2016 PNH2018 PNH2024    | PNH3019 PNH3023   |
| 刃口   | S0054505 S0102005 S0152510 | S0152510 S0153510       | S0152510 S0153510 S0203520 | S0102005 S0153510 |
| 涂层   | S/C3/CE                    | S/C3/CE                 | S/C3/CE                    | S/C3              |

| 图示      | ISO           | ANSI       | 刀片结构 |                   | 刃数 | ic   | φd   | S    | r   | la  |
|---------|---------------|------------|------|-------------------|----|------|------|------|-----|-----|
| 常规mini型 | DNGA150404-4N | DNGA431-4N |      | □□ST22S           | 4  | 12.7 | 5.16 | 4.76 | 0.4 | 2.2 |
|         | 150408-4N     | 432-4N     |      |                   |    |      |      |      | 0.8 |     |
|         | 150412-4N     | 433-4N     |      |                   |    |      |      |      | 1.2 |     |
|         | DNGA150404-4N | DNGA431-4N |      | □□WGR22S (107.5°) | 4  |      |      |      | 0.4 |     |
|         | 150408-4N     | 432-4N     |      |                   |    |      |      |      | 0.8 |     |
|         | 150412-4N     | 433-4N     |      |                   |    |      |      |      | 1.2 |     |
|         | DNGG150404-4N | DNGG431-4N |      | □□CBR422S         | 4  |      |      |      | 0.4 |     |
|         | 150408-4N     | 432-4N     |      |                   |    |      |      |      | 0.8 |     |
|         | 150412-4N     | 433-4N     |      |                   |    |      |      |      | 1.2 |     |
| 标准型     | DNGA150404-4N | DNGA431-4N |      | □□ST30S           | 4  | 12.7 | 5.16 | 4.76 | 0.4 | 3.0 |
|         | 150408-4N     | 432-4N     |      |                   |    |      |      |      | 0.8 |     |
|         | 150412-4N     | 433-4N     |      |                   |    |      |      |      | 1.2 |     |
|         | DNGA150404-4N | DNGA431-4N |      | □□WGR30S (107.5°) | 4  |      |      |      | 0.4 |     |
|         | 150408-4N     | 432-4N     |      |                   |    |      |      |      | 0.8 |     |
|         | 150412-4N     | 433-4N     |      |                   |    |      |      |      | 1.2 |     |
|         | DNGG150404-4N | DNGG431-4N |      | □□CBR430S         | 4  |      |      |      | 0.4 |     |
|         | 150408-4N     | 432-4N     |      |                   |    |      |      |      | 0.8 |     |
|         | 150412-4N     | 433-4N     |      |                   |    |      |      |      | 1.2 |     |
| 长刃型     | DNGA150408-4N | DNGA432-4N |      | □□ST40S           | 4  | 12.7 | 5.16 | 4.76 | 0.8 | 4.0 |
|         | 150412-4N     | 433-4N     |      |                   |    |      |      |      | 1.2 |     |
|         | 150416-4N     | 434-4N     |      |                   |    |      |      |      | 1.6 |     |
|         | DNGA150408-4N | DNGA432-4N |      | □□WGR40S (107.5°) | 4  |      |      |      | 0.8 |     |
|         | 150412-4N     | 433-4N     |      |                   |    |      |      |      | 1.2 |     |
|         | 150416-4N     | 434-4N     |      |                   |    |      |      |      | 1.6 |     |
|         | DNGG150408-4N | DNGG432-4N |      | □□CBR640S         | 4  |      |      |      | 0.8 |     |
|         | 150412-4N     | 433-4N     |      |                   |    |      |      |      | 1.2 |     |
|         | 150416-4N     | 434-4N     |      |                   |    |      |      |      | 1.6 |     |

PCBN 数控刀片--淬火钢类

整体/贯穿式刀片

DN

55°菱形·负型·整体

PCBN 负型刀片

| H    |                   |
|------|-------------------|
| 断续强度 |                   |
| 结构   | SS                |
| 材质   | PNH2028           |
| 刃口   | S0102010 S0202020 |
| 涂层   | S/C3/CE           |

| 图示 | ISO           | ANSI       | 刀片结构 |            | 刃数 | ic   | φd   | S    | r   | la |
|----|---------------|------------|------|------------|----|------|------|------|-----|----|
|    | DNGN150408-4N | DNGN432-4N |      | SSST150S   | 4  | 12.7 | —    | 4.76 | 0.8 | 15 |
|    | 150412-4N     | 433-4N     |      |            |    |      |      |      | 1.2 |    |
|    | 150416-4N     | 434-4N     |      |            |    |      |      |      | 1.6 |    |
|    | DNGF150408-4N | DNGF432-4N |      | SSCBR6150S | 4  | 12.7 | —    | 4.76 | 0.8 |    |
|    | 150412-4N     | 433-4N     |      |            |    |      |      |      | 1.2 |    |
|    | 150416-4N     | 434-4N     |      |            |    |      |      |      | 1.6 |    |
|    | DNGX150408-4N | DNGX432-4N |      | SSST150S   | 4  | 12.7 | —    | 4.76 | 0.8 | 15 |
|    | 150412-4N     | 433-4N     |      |            |    |      |      |      | 1.2 |    |
|    | 150416-4N     | 434-4N     |      |            |    |      |      |      | 1.6 |    |
|    | DNGX150408-4N | DNGX432-4N |      | SSCBR6150S | 4  | 12.7 | —    | 4.76 | 0.8 |    |
|    | 150412-4N     | 433-4N     |      |            |    |      |      |      | 1.2 |    |
|    | 150416-4N     | 434-4N     |      |            |    |      |      |      | 1.6 |    |
|    | DNGA150408-4N | DNGA432-4N |      | SSST150S   | 4  | 12.7 | 5.16 | 4.76 | 0.8 | 15 |
|    | 150412-4N     | 433-4N     |      |            |    |      |      |      | 1.2 |    |
|    | 150416-4N     | 434-4N     |      |            |    |      |      |      | 1.6 |    |
|    | DNGG150408-4N | DNGG432-4N |      | SSCBR6150S | 4  | 12.7 | 5.16 | 4.76 | 0.8 |    |
|    | 150412-4N     | 433-4N     |      |            |    |      |      |      | 1.2 |    |
|    | 150416-4N     | 434-4N     |      |            |    |      |      |      | 1.6 |    |

DN

55°菱形·负型·贯穿

PCBN 负型刀片

| H    |                                 |
|------|---------------------------------|
| 断续强度 |                                 |
| 结构   | SWU                             |
| 材质   | PNH0120 PNH0124 PNH2016 PNH2024 |
| 刃口   | S0102010 S0202020               |
| 涂层   | S/C3/CE                         |

| 图示 | ISO           | ANSI       | 刀片结构 |            | 刃数 | ic   | φd   | S    | r   | la  |
|----|---------------|------------|------|------------|----|------|------|------|-----|-----|
|    | DNGA150408-4N | DNGA432-4N |      | SWUST25S   | 4  | 12.7 | 5.16 | 4.76 | 0.8 | 2.5 |
|    | 150412-4N     | 433-4N     |      |            |    |      |      |      | 1.2 |     |
|    | 150416-4N     | 434-4N     |      |            |    |      |      |      | 1.6 |     |
|    | DNGG150408-4N | DNGG432-4N |      | SWUCBR425S | 4  | 12.7 | 5.16 | 4.76 | 0.8 |     |
|    | 150412-4N     | 433-4N     |      |            |    |      |      |      | 1.2 |     |
|    | 150416-4N     | 434-4N     |      |            |    |      |      |      | 1.6 |     |

PCBN 数控刀片--淬火钢类

焊接式刀片

DN

55°菱形·负型·有孔

PCBN 负型刀片

| H    |                            |                         |                            |                   |
|------|----------------------------|-------------------------|----------------------------|-------------------|
| 断续强度 |                            |                         |                            |                   |
| 结构   | SL                         | SL                      | SL                         | CB                |
| 材质   | PNH0120 PNH0122 PNH0124    | PNH1020 PNH1022 PNH1024 | PNH2016 PNH2018 PNH2024    | PNH3019 PNH3023   |
| 刃口   | S0054505 S0102005 S0152510 | S0152510 S0153510       | S0152510 S0153510 S0203520 | S0102005 S0153510 |
| 涂层   | S/C3/CE                    | S/C3/CE                 | S/C3/CE                    | S/C3              |

| 图示 | ISO           | ANSI       | 刀片结构 |                   | 刃数 | ic   | φd   | S    | r   | la  |
|----|---------------|------------|------|-------------------|----|------|------|------|-----|-----|
|    | DNGA150604-2N | DNGA441-2N |      | □□ST22S           | 2  | 12.7 | 5.16 | 6.35 | 0.4 | 2.2 |
|    | 150608-2N     | 442-2N     |      |                   |    |      |      |      | 0.8 |     |
|    | 150612-2N     | 443-2N     |      |                   |    |      |      |      | 1.2 |     |
|    | DNGA150604-2N | DNGA441-2N |      | □□WGR22S (107.5°) | 2  |      |      |      | 0.4 |     |
|    | 150608-2N     | 442-2N     |      |                   |    |      |      |      | 0.8 |     |
|    | 150612-2N     | 443-2N     |      |                   |    |      |      |      | 1.2 |     |
|    | DNGM150604-2N | DNGM441-2N |      | □□CBR422S         | 2  |      |      |      | 0.4 |     |
|    | 150608-2N     | 442-2N     |      |                   |    |      |      |      | 0.8 |     |
|    | 150612-2N     | 443-2N     |      |                   |    |      |      |      | 1.2 |     |
|    | DNGA150604-2N | DNGA441-2N |      | □□ST30S           | 2  | 12.7 | 5.16 | 6.35 | 0.4 | 3.0 |
|    | 150608-2N     | 442-2N     |      |                   |    |      |      |      | 0.8 |     |
|    | 150612-2N     | 443-2N     |      |                   |    |      |      |      | 1.2 |     |
|    | DNGA150604-2N | DNGA441-2N |      | □□WGR30S (107.5°) | 2  |      |      |      | 0.4 |     |
|    | 150608-2N     | 442-2N     |      |                   |    |      |      |      | 0.8 |     |
|    | 150612-2N     | 443-2N     |      |                   |    |      |      |      | 1.2 |     |
|    | DNGM150604-2N | DNGM441-2N |      | □□CBR430S         | 2  |      |      |      | 0.4 |     |
|    | 150608-2N     | 442-2N     |      |                   |    |      |      |      | 0.8 |     |
|    | 150612-2N     | 443-2N     |      |                   |    |      |      |      | 1.2 |     |
|    | DNGA150608-2N | DNGA442-2N |      | □□ST40S           | 2  | 12.7 | 5.16 | 6.35 | 0.8 | 4.0 |
|    | 150612-2N     | 443-2N     |      |                   |    |      |      |      | 1.2 |     |
|    | 150616-2N     | 444-2N     |      |                   |    |      |      |      | 1.6 |     |
|    | DNGA150608-2N | DNGA442-2N |      | □□WGR40S (107.5°) | 2  |      |      |      | 0.8 |     |
|    | 150612-2N     | 443-2N     |      |                   |    |      |      |      | 1.2 |     |
|    | 150616-2N     | 444-2N     |      |                   |    |      |      |      | 1.6 |     |
|    | DNGM150608-2N | DNGM442-2N |      | □□CBR640S         | 2  |      |      |      | 0.8 |     |
|    | 150612-2N     | 443-2N     |      |                   |    |      |      |      | 1.2 |     |
|    | 150616-2N     | 444-2N     |      |                   |    |      |      |      | 1.6 |     |
|    | DNGA150604-4N | DNGA441-4N |      | □□ST22S           | 4  | 12.7 | 5.16 | 6.35 | 0.4 | 2.2 |
|    | 150608-4N     | 442-4N     |      |                   |    |      |      |      | 0.8 |     |
|    | 150612-4N     | 443-4N     |      |                   |    |      |      |      | 1.2 |     |
|    | DNGA150604-4N | DNGA441-4N |      | □□WGR22S (107.5°) | 4  |      |      |      | 0.4 |     |
|    | 150608-4N     | 442-4N     |      |                   |    |      |      |      | 0.8 |     |
|    | 150612-4N     | 443-4N     |      |                   |    |      |      |      | 1.2 |     |
|    | DNGG150604-4N | DNGG441-4N |      | □□CBR422S         | 4  |      |      |      | 0.4 |     |
|    | 150608-4N     | 442-4N     |      |                   |    |      |      |      | 0.8 |     |
|    | 150612-4N     | 443-4N     |      |                   |    |      |      |      | 1.2 |     |
|    | DNGA150604-4N | DNGA441-4N |      | □□ST30S           | 4  | 12.7 | 5.16 | 6.35 | 0.4 | 3.0 |
|    | 150608-4N     | 442-4N     |      |                   |    |      |      |      | 0.8 |     |
|    | 150612-4N     | 443-4N     |      |                   |    |      |      |      | 1.2 |     |
|    | DNGA150604-4N | DNGA441-4N |      | □□WGR30S (107.5°) | 4  |      |      |      | 0.4 |     |
|    | 150608-4N     | 442-4N     |      |                   |    |      |      |      | 0.8 |     |
|    | 150612-4N     | 443-4N     |      |                   |    |      |      |      | 1.2 |     |
|    | DNGG150604-4N | DNGG441-4N |      | □□CBR430S         | 4  |      |      |      | 0.4 |     |
|    | 150608-4N     | 442-4N     |      |                   |    |      |      |      | 0.8 |     |
|    | 150612-4N     | 443-4N     |      |                   |    |      |      |      | 1.2 |     |
|    | DNGA150608-4N | DNGA442-4N |      | □□ST40S           | 4  | 12.7 | 5.16 | 6.35 | 0.8 | 4.0 |
|    | 150612-4N     | 443-4N     |      |                   |    |      |      |      | 1.2 |     |
|    | 150616-4N     | 444-4N     |      |                   |    |      |      |      | 1.6 |     |
|    | DNGA150608-4N | DNGA442-4N |      | □□WGR40S (107.5°) | 4  |      |      |      | 0.8 |     |
|    | 150612-4N     | 443-4N     |      |                   |    |      |      |      | 1.2 |     |
|    | 150616-4N     | 444-4N     |      |                   |    |      |      |      | 1.6 |     |
|    | DNGG150608-4N | DNGG442-4N |      | □□CBR640S         | 4  |      |      |      | 0.8 |     |
|    | 150612-4N     | 443-4N     |      |                   |    |      |      |      | 1.2 |     |
|    | 150616-4N     | 444-4N     |      |                   |    |      |      |      | 1.6 |     |

PCBN 数控刀片--淬火钢类

整体/贯穿式刀片

DN

55°菱形·负型·整体

PCBN 负型刀片

| H    |                   |
|------|-------------------|
| 断续强度 |                   |
| 结构   | SS                |
| 材质   | PNH2028           |
| 刃口   | S0102010 S0202020 |
| 涂层   | S/C3/CE           |

| 图示 | ISO           | ANSI       | 刀片结构 |            | 刃数 | ic   | φd | S    | r   | la |
|----|---------------|------------|------|------------|----|------|----|------|-----|----|
|    | DNGN150608-4N | DNGN442-4N |      | SSST150S   | 4  | 12.7 | —  | 6.35 | 0.8 | 15 |
|    | 150612-4N     | 443-4N     |      |            |    |      |    |      | 1.2 |    |
|    | 150616-4N     | 444-4N     |      |            |    |      |    |      | 1.6 |    |
|    | DNGF150608-4N | DNGN442-4N |      | SSCBR6150S | 4  |      |    |      | 0.8 |    |
|    | 150612-4N     | 443-4N     |      |            |    |      |    |      | 1.2 |    |
|    | 150616-4N     | 444-4N     |      |            |    |      |    |      | 1.6 |    |
|    | DNGX150608-4N | DNGX442-4N |      | SSST150S   | 4  | 12.7 | —  | 6.35 | 0.8 | 15 |
|    | 150612-4N     | 443-4N     |      |            |    |      |    |      | 1.2 |    |
|    | 150616-4N     | 444-4N     |      |            |    |      |    |      | 1.6 |    |
|    | DNGX150608-4N | DNGX442-4N |      | SSCBR6150S | 4  |      |    |      | 0.8 |    |
|    | 150612-4N     | 443-4N     |      |            |    |      |    |      | 1.2 |    |
|    | 150616-4N     | 444-4N     |      |            |    |      |    |      | 1.6 |    |

DN

55°菱形·负型·贯穿

PCBN 负型刀片

| H    |                                 |
|------|---------------------------------|
| 断续强度 |                                 |
| 结构   | SWU                             |
| 材质   | PNH0120 PNH0124 PNH2016 PNH2024 |
| 刃口   | S0102010 S0202020               |
| 涂层   | S/C3/CE                         |

| 图示 | ISO           | ANSI       | 刀片结构 |            | 刃数 | ic   | φd   | S    | r   | la  |
|----|---------------|------------|------|------------|----|------|------|------|-----|-----|
|    | DNGA150608-4N | DNGA442-4N |      | SWUST25S   | 4  | 12.7 | 5.16 | 6.35 | 0.8 | 2.5 |
|    | 150612-4N     | 443-4N     |      |            |    |      |      |      | 1.2 |     |
|    | 150616-4N     | 444-4N     |      |            |    |      |      |      | 1.6 |     |
|    | DNGG150608-4N | DNGG442-4N |      | SWUCBR425S | 4  |      |      |      | 0.8 |     |
|    | 150612-4N     | 443-4N     |      |            |    |      |      |      | 1.2 |     |
|    | 150616-4N     | 444-4N     |      |            |    |      |      |      | 1.6 |     |

PCBN 数控刀片--淬火钢类

焊接式刀片

SN

90°正方形·负型·有孔

PCBN 负型刀片

| H    |                            |                         |                            |
|------|----------------------------|-------------------------|----------------------------|
| 断续强度 |                            |                         |                            |
| 结构   | SL                         | SL                      | SL                         |
| 材质   | PNH0120 PNH0122 PNH0124    | PNH1020 PNH1022 PNH1024 | PNH2016 PNH2018 PNH2024    |
| 刃口   | S0054505 S0102005 S0152510 | S0152510 S0153510       | S0152510 S0153510 S0203520 |
| 涂层   | S/C3/CE                    | S/C3/CE                 | S/C3/CE                    |

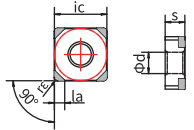
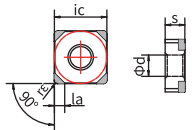
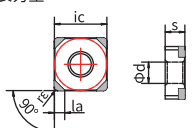
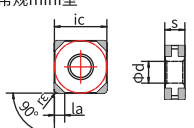
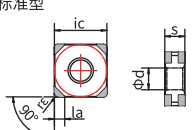
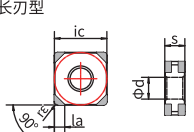
| 图示          | ISO           | ANSI       | 刀片结构 |           | 刃数 | ic    | φd   | S    | r   | la  |
|-------------|---------------|------------|------|-----------|----|-------|------|------|-----|-----|
| 常规mini型<br> | SNGA090304-4N | SNGA321-4N |      | □□ST22S   | 4  | 9.525 | 3.81 | 3.18 | 0.4 | 2.2 |
|             | 090308-4N     | 322-4N     |      |           |    |       |      |      | 0.8 |     |
|             | 090312-4N     | 323-4N     |      |           |    |       |      |      | 1.2 |     |
|             | SNGM090304-4N | SNGM321-4N |      | □□CBR422S | 4  |       |      |      | 0.4 |     |
|             | 090308-4N     | 322-4N     |      |           |    |       |      |      | 0.8 |     |
|             | 090312-4N     | 323-4N     |      |           |    |       |      |      | 1.2 |     |
| 标准型<br>     | SNGA090304-4N | SNGA321-4N |      | □□ST30S   | 4  | 9.525 | 3.81 | 3.18 | 0.4 | 3.0 |
|             | 090308-4N     | 322-4N     |      |           |    |       |      |      | 0.8 |     |
|             | 090312-4N     | 323-4N     |      |           |    |       |      |      | 1.2 |     |
|             | SNGM090304-4N | SNGM321-4N |      | □□CBR430S | 4  |       |      |      | 0.4 |     |
|             | 090308-4N     | 322-4N     |      |           |    |       |      |      | 0.8 |     |
|             | 090312-4N     | 323-4N     |      |           |    |       |      |      | 1.2 |     |
| 常规mini型<br> | SNGA090304-8N | SNGA321-8N |      | □□ST22S   | 8  | 9.525 | 3.81 | 3.18 | 0.4 | 2.2 |
|             | 090308-8N     | 322-8N     |      |           |    |       |      |      | 0.8 |     |
|             | 090312-8N     | 323-8N     |      |           |    |       |      |      | 1.2 |     |
|             | SNGG090304-8N | SNGG321-8N |      | □□CBR422S | 8  |       |      |      | 0.4 |     |
|             | 090308-8N     | 322-8N     |      |           |    |       |      |      | 0.8 |     |
|             | 090312-8N     | 323-8N     |      |           |    |       |      |      | 1.2 |     |
| 标准型<br>     | SNGA090304-8N | SNGA321-8N |      | □□ST30S   | 8  | 9.525 | 3.81 | 3.18 | 0.4 | 3.0 |
|             | 090308-8N     | 322-8N     |      |           |    |       |      |      | 0.8 |     |
|             | 090312-8N     | 323-8N     |      |           |    |       |      |      | 1.2 |     |
|             | SNGG090304-8N | SNGG321-8N |      | □□CBR430S | 8  |       |      |      | 0.4 |     |
|             | 090308-8N     | 322-8N     |      |           |    |       |      |      | 0.8 |     |
|             | 090312-8N     | 323-8N     |      |           |    |       |      |      | 1.2 |     |

PCBN 数控刀片--淬火钢类

焊接式刀片

|    |              |
|----|--------------|
| SN | 90°正方形·负型·有孔 |
|    | PCBN 负型刀片    |

| H    |                            |                         |                            |                   |
|------|----------------------------|-------------------------|----------------------------|-------------------|
| 断续强度 |                            |                         |                            |                   |
| 结构   | SL                         | SL                      | SL                         | CB                |
| 材质   | PNH0120 PNH0122 PNH0124    | PNH1020 PNH1022 PNH1024 | PNH2016 PNH2018 PNH2024    | PNH3019 PNH3023   |
| 刃口   | S0054505 S0102005 S0152510 | S0152510 S0153510       | S0152510 S0153510 S0203520 | S0102005 S0153510 |
| 涂层   | S/C3/CE                    | S/C3/CE                 | S/C3/CE                    | S/C3              |

| 图示                                                                                                     | ISO           | ANSI       | 刀片结构                                                                                |           | 刃数 | ic   | φd   | S    | r   | la  |
|--------------------------------------------------------------------------------------------------------|---------------|------------|-------------------------------------------------------------------------------------|-----------|----|------|------|------|-----|-----|
| <div>常规mini型</div>    | SNGA120404-4N | SNGA431-4N |    | □□ST22S   | 4  | 12.7 | 5.16 | 4.76 | 0.4 | 2.2 |
|                                                                                                        | 120408-4N     | 432-4N     |                                                                                     |           |    |      |      |      | 0.8 |     |
|                                                                                                        | 120412-4N     | 433-4N     |                                                                                     |           |    |      |      |      | 1.2 |     |
|                                                                                                        | SNGM120404-4N | SNGM431-4N |    | □□CBR422S | 4  | 0.4  |      |      |     |     |
|                                                                                                        | 120408-4N     | 432-4N     |                                                                                     |           |    | 0.8  |      |      |     |     |
|                                                                                                        | 120412-4N     | 433-4N     |                                                                                     |           |    | 1.2  |      |      |     |     |
| <div>标准型</div>        | SNGA120404-4N | SNGA431-4N |    | □□ST30S   | 4  | 12.7 | 5.16 | 4.76 | 0.4 | 3.0 |
|                                                                                                        | 120408-4N     | 432-4N     |                                                                                     |           |    |      |      |      | 0.8 |     |
|                                                                                                        | 120412-4N     | 433-4N     |                                                                                     |           |    |      |      |      | 1.2 |     |
|                                                                                                        | SNGM120404-4N | SNGM431-4N |    | □□CBR430S | 4  | 0.4  |      |      |     |     |
|                                                                                                        | 120408-4N     | 432-4N     |                                                                                     |           |    | 0.8  |      |      |     |     |
|                                                                                                        | 120412-4N     | 433-4N     |                                                                                     |           |    | 1.2  |      |      |     |     |
| <div>长刃型</div>       | SNGA120408-4N | SNGA432-4N |    | □□ST40S   | 4  | 12.7 | 5.16 | 4.76 | 0.8 | 4.0 |
|                                                                                                        | 120412-4N     | 433-4N     |                                                                                     |           |    |      |      |      | 1.2 |     |
|                                                                                                        | 120416-4N     | 434-4N     |                                                                                     |           |    |      |      |      | 1.6 |     |
|                                                                                                        | SNGM120408-4N | SNGM432-4N |   | □□CBR640S | 4  | 0.8  |      |      |     |     |
|                                                                                                        | 120412-4N     | 433-4N     |                                                                                     |           |    | 1.2  |      |      |     |     |
|                                                                                                        | 120416-4N     | 434-4N     |                                                                                     |           |    | 1.6  |      |      |     |     |
| <div>常规mini型</div>  | SNGA120404-8N | SNGA431-8N |  | □□ST22S   | 8  | 12.7 | 5.16 | 4.76 | 0.4 | 2.2 |
|                                                                                                        | 120408-8N     | 432-8N     |                                                                                     |           |    |      |      |      | 0.8 |     |
|                                                                                                        | 120412-8N     | 433-8N     |                                                                                     |           |    |      |      |      | 1.2 |     |
|                                                                                                        | SNGG120404-8N | SNGG431-8N |  | □□CBR422S | 8  | 0.4  |      |      |     |     |
|                                                                                                        | 120408-8N     | 432-8N     |                                                                                     |           |    | 0.8  |      |      |     |     |
|                                                                                                        | 120412-8N     | 433-8N     |                                                                                     |           |    | 1.2  |      |      |     |     |
| <div>标准型</div>      | SNGA120404-8N | SNGA431-8N |  | □□ST30S   | 8  | 12.7 | 5.16 | 4.76 | 0.4 | 3.0 |
|                                                                                                        | 120408-8N     | 432-8N     |                                                                                     |           |    |      |      |      | 0.8 |     |
|                                                                                                        | 120412-8N     | 433-8N     |                                                                                     |           |    |      |      |      | 1.2 |     |
|                                                                                                        | SNGG120404-8N | SNGG431-8N |  | □□CBR430S | 8  | 0.4  |      |      |     |     |
|                                                                                                        | 120408-8N     | 432-8N     |                                                                                     |           |    | 0.8  |      |      |     |     |
|                                                                                                        | 120412-8N     | 433-8N     |                                                                                     |           |    | 1.2  |      |      |     |     |
| <div>长刃型</div>      | SNGA120408-8N | SNGA432-8N |  | □□ST40S   | 8  | 12.7 | 5.16 | 4.76 | 0.8 | 4.0 |
|                                                                                                        | 120412-8N     | 433-8N     |                                                                                     |           |    |      |      |      | 1.2 |     |
|                                                                                                        | 120416-8N     | 434-8N     |                                                                                     |           |    |      |      |      | 1.6 |     |
|                                                                                                        | SNGG120408-8N | SNGG432-8N |  | □□CBR640S | 8  | 0.8  |      |      |     |     |
|                                                                                                        | 120412-8N     | 433-8N     |                                                                                     |           |    | 1.2  |      |      |     |     |
|                                                                                                        | 120416-8N     | 434-8N     |                                                                                     |           |    | 1.6  |      |      |     |     |

PCBN 数控刀片--淬火钢类

焊接式刀片

|    |              |
|----|--------------|
| TN | 60°三角形·负型·有孔 |
|    | PCBN 负型刀片    |

| H    |                            |                         |                            |                   |
|------|----------------------------|-------------------------|----------------------------|-------------------|
| 断续强度 |                            |                         |                            |                   |
| 结构   | SL                         | SL                      | SL                         | CB                |
| 材质   | PNH0120 PNH0122 PNH0124    | PNH1020 PNH1022 PNH1024 | PNH2016 PNH2018 PNH2024    | PNH3019 PNH3023   |
| 刃口   | S0054505 S0102005 S0152510 | S0152510 S0153510       | S0152510 S0153510 S0203520 | S0102005 S0153510 |
| 涂层   | S/C3/CE                    | S/C3/CE                 | S/C3/CE                    | S/C3              |

| 图示          | ISO           | ANSI       | 刀片结构 |           | 刃数 | ic    | φd   | S    | r   | la  |
|-------------|---------------|------------|------|-----------|----|-------|------|------|-----|-----|
| 常规mini型<br> | TNGA160404-3N | TNGA331-3N |      | □□ST22S   | 3  | 9.525 | 3.81 | 4.76 | 0.4 | 2.2 |
|             | 160408-3N     | 332-3N     |      |           |    |       |      |      | 0.8 |     |
|             | 160412-3N     | 333-3N     |      |           |    |       |      |      | 1.2 |     |
|             | TNGM160404-3N | TNGM331-3N |      | □□CBR422S | 3  |       |      |      | 0.4 |     |
|             | 160408-3N     | 332-3N     |      |           |    |       |      |      | 0.8 |     |
|             | 160412-3N     | 333-3N     |      |           |    |       |      |      | 1.2 |     |
| 标准型<br>     | TNGA160404-3N | TNGA331-3N |      | □□ST30S   | 3  | 9.525 | 3.81 | 4.76 | 0.4 | 3.0 |
|             | 160408-3N     | 332-3N     |      |           |    |       |      |      | 0.8 |     |
|             | 160412-3N     | 333-3N     |      |           |    |       |      |      | 1.2 |     |
|             | TNGM160404-3N | TNGM331-3N |      | □□CBR430S | 3  |       |      |      | 0.4 |     |
|             | 160408-3N     | 332-3N     |      |           |    |       |      |      | 0.8 |     |
|             | 160412-3N     | 333-3N     |      |           |    |       |      |      | 1.2 |     |
| 常规mini型<br> | TNGA160404-6N | TNGA331-6N |      | □□ST22S   | 6  | 9.525 | 3.81 | 4.76 | 0.4 | 2.2 |
|             | 160408-6N     | 332-6N     |      |           |    |       |      |      | 0.8 |     |
|             | 160412-6N     | 333-6N     |      |           |    |       |      |      | 1.2 |     |
|             | TNGG160404-6N | TNGG331-6N |      | □□CBR422S | 6  |       |      |      | 0.4 |     |
|             | 160408-6N     | 332-6N     |      |           |    |       |      |      | 0.8 |     |
|             | 160412-6N     | 333-6N     |      |           |    |       |      |      | 1.2 |     |
| 标准型<br>     | TNGA160404-6N | TNGA331-6N |      | □□ST30S   | 6  | 9.525 | 3.81 | 4.76 | 0.4 | 3.0 |
|             | 160408-6N     | 332-6N     |      |           |    |       |      |      | 0.8 |     |
|             | 160412-6N     | 333-6N     |      |           |    |       |      |      | 1.2 |     |
|             | TNGG160404-6N | TNGG331-6N |      | □□CBR430S | 6  |       |      |      | 0.4 |     |
|             | 160408-6N     | 332-6N     |      |           |    |       |      |      | 0.8 |     |
|             | 160412-6N     | 333-6N     |      |           |    |       |      |      | 1.2 |     |

PCBN 数控刀片--淬火钢类

整体式刀片

|    |              |
|----|--------------|
| TN | 60°三角形·负型·整体 |
|    | PCBN 负型刀片    |

|      |                   |
|------|-------------------|
| H    |                   |
| 断续强度 |                   |
| 结构   | SS                |
| 材质   | PNH2026 PNH2028   |
| 刃口   | S0102010 S0202020 |
| 涂层   | S/C3/CE           |

| 图示 | ISO           | ANSI       | 刀片结构 |            | 刃数 | ic    | φd   | S    | r   | la |
|----|---------------|------------|------|------------|----|-------|------|------|-----|----|
|    | TNGN160408-6N | TNGN332-6N |      | SSST160S   | 6  | 9.525 | —    | 4.76 | 0.8 | 16 |
|    | 160412-6N     | 333-6N     |      |            |    |       |      |      | 1.2 |    |
|    | 160416-6N     | 334-6N     |      |            |    |       |      |      | 1.6 |    |
|    | TNGN160408-6N | TNGN332-6N |      | SSCBR6160S | 6  |       |      |      | 0.8 |    |
|    | 160412-6N     | 333-6N     |      |            |    |       |      |      | 1.2 |    |
|    | 160416-6N     | 334-6N     |      |            |    |       |      |      | 1.6 |    |
|    | TNGX160408-6N | TNGX332-6N |      | SSST160S   | 6  | 9.525 | —    | 4.76 | 0.8 | 16 |
|    | 160412-6N     | 333-6N     |      |            |    |       |      |      | 1.2 |    |
|    | 160416-6N     | 334-6N     |      |            |    |       |      |      | 1.6 |    |
|    | TNGX160408-6N | TNGX332-6N |      | SSCBR6160S | 6  |       |      |      | 0.8 |    |
|    | 160412-6N     | 333-6N     |      |            |    |       |      |      | 1.2 |    |
|    | 160416-6N     | 334-6N     |      |            |    |       |      |      | 1.6 |    |
|    | TNGA160408-6N | TNGA332-6N |      | SSST160S   | 6  | 9.525 | 3.81 | 4.76 | 0.8 | 16 |
|    | 160412-6N     | 333-6N     |      |            |    |       |      |      | 1.2 |    |
|    | 160416-6N     | 334-6N     |      |            |    |       |      |      | 1.6 |    |
|    | TNGA160408-6N | TNGA332-6N |      | SSCBR6160S | 6  |       |      |      | 0.8 |    |
|    | 160412-6N     | 333-6N     |      |            |    |       |      |      | 1.2 |    |
|    | 160416-6N     | 334-6N     |      |            |    |       |      |      | 1.6 |    |
|    | TNGN160708-6N | TNGN352-6N |      | SSST160S   | 6  | 9.525 | —    | 7.94 | 0.8 | 16 |
|    | 160712-6N     | 353-6N     |      |            |    |       |      |      | 1.2 |    |
|    | 160716-6N     | 354-6N     |      |            |    |       |      |      | 1.6 |    |
|    | TNGN160708-6N | TNGN352-6N |      | SSCBR6160S | 6  |       |      |      | 0.8 |    |
|    | 160712-6N     | 353-6N     |      |            |    |       |      |      | 1.2 |    |
|    | 160716-6N     | 354-6N     |      |            |    |       |      |      | 1.6 |    |
|    | TNGX160708-6N | TNGX352-6N |      | SSST160S   | 6  | 9.525 | —    | 7.94 | 0.8 | 16 |
|    | 160712-6N     | 353-6N     |      |            |    |       |      |      | 1.2 |    |
|    | 160716-6N     | 354-6N     |      |            |    |       |      |      | 1.6 |    |
|    | TNGX160708-6N | TNGX352-6N |      | SSCBR6160S | 6  |       |      |      | 0.8 |    |
|    | 160712-6N     | 353-6N     |      |            |    |       |      |      | 1.2 |    |
|    | 160716-6N     | 354-6N     |      |            |    |       |      |      | 1.6 |    |

PCBN 数控刀片--淬火钢类

贯穿式刀片

|    |              |
|----|--------------|
| TN | 60°三角形·负型·贯穿 |
|    | PCBN 负型刀片    |

|      |                                 |
|------|---------------------------------|
| H    |                                 |
| 断续强度 |                                 |
| 结构   | SWU                             |
| 材质   | PNH0120 PNH0124 PNH2016 PNH2024 |
| 刃口   | S0102010 S0202020               |
| 涂层   | S/C3/CE                         |

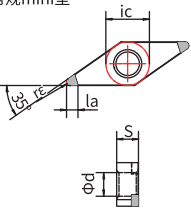
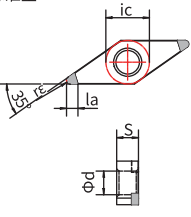
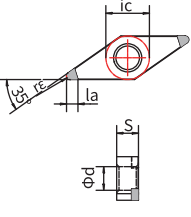
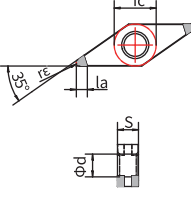
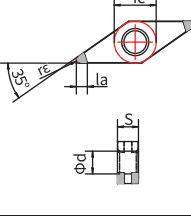
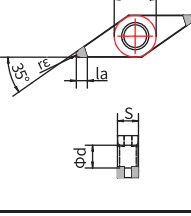
| 图示 | ISO           | ANSI       | 刀片结构 |            | 刃数 | ic    | φd   | S    | r   | la  |
|----|---------------|------------|------|------------|----|-------|------|------|-----|-----|
|    | TNGA160408-6N | TNGA332-6N |      | SWUST25S   | 6  | 9.525 | 3.81 | 4.76 | 0.8 | 2.5 |
|    | 160412-6N     | 333-6N     |      |            |    |       |      |      | 1.2 |     |
|    | 160416-6N     | 334-6N     |      |            |    |       |      |      | 1.6 |     |
|    | TNGG160408-6N | TNGG332-6N |      | SWUCBR625S | 6  |       |      |      | 0.8 |     |
|    | 160412-6N     | 333-6N     |      |            |    |       |      |      | 1.2 |     |
|    | 160416-6N     | 334-6N     |      |            |    |       |      |      | 1.6 |     |

PCBN 数控刀片--淬火钢类

焊接式刀片

| VN | 35°菱形·负型·有孔 |  |
|----|-------------|--|
|    | PCBN 负型刀片   |  |
|    |             |  |
|    |             |  |
|    |             |  |

| H    |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 断续强度 |  |  |  |  |
| 结构   | SL                                                                                | SL                                                                                | SL                                                                                  | CB                                                                                  |
| 材质   | PNH0120 PNH0122 PNH0124                                                           | PNH1020 PNH1022 PNH1024                                                           | PNH2016 PNH2018 PNH2024                                                             | PNH3019 PNH3023                                                                     |
| 刃口   | S0054505 S0102005 S0152510                                                        | S0152510 S0153510                                                                 | S0152510 S0153510 S0203520                                                          | S0102005 S0153510                                                                   |
| 涂层   | S/C3/CE                                                                           | S/C3/CE                                                                           | S/C3/CE                                                                             | S/C3                                                                                |

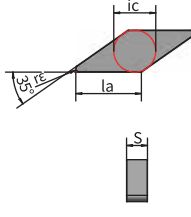
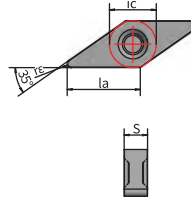
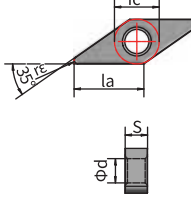
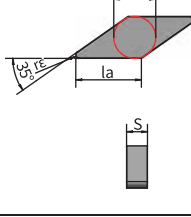
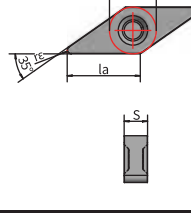
| 图示                                                                                  | ISO           | ANSI       | 刀片结构                                                                                |           | 刃数 | ic    | φd   | S    | r   | la  |
|-------------------------------------------------------------------------------------|---------------|------------|-------------------------------------------------------------------------------------|-----------|----|-------|------|------|-----|-----|
|    | VNGA160404-2N | VNGA331-2N |    | □□ST22S   | 2  | 9.525 | 3.81 | 4.76 | 0.4 | 2.2 |
|                                                                                     | 160408-2N     | 332-2N     |                                                                                     |           |    |       |      |      | 0.8 |     |
|                                                                                     | 160412-2N     | 333-2N     |                                                                                     |           |    |       |      |      | 1.2 |     |
|                                                                                     | VNGM160404-2N | VNGM331-2N |    | □□CBR422S | 2  |       |      |      | 0.4 |     |
|                                                                                     | 160408-2N     | 332-2N     |                                                                                     |           |    |       |      |      | 0.8 |     |
|                                                                                     | 160412-2N     | 333-2N     |                                                                                     |           |    |       |      |      | 1.2 |     |
|   | VNGA160404-2N | VNGA331-2N |    | □□ST30S   | 2  | 9.525 | 3.81 | 4.76 | 0.4 | 3.0 |
|                                                                                     | 160408-2N     | 332-2N     |                                                                                     |           |    |       |      |      | 0.8 |     |
|                                                                                     | 160412-2N     | 333-2N     |                                                                                     |           |    |       |      |      | 1.2 |     |
|                                                                                     | VNGM160404-2N | VNGM331-2N |   | □□CBR430S | 2  |       |      |      | 0.4 |     |
|                                                                                     | 160408-2N     | 332-2N     |                                                                                     |           |    |       |      |      | 0.8 |     |
|                                                                                     | 160412-2N     | 333-2N     |                                                                                     |           |    |       |      |      | 1.2 |     |
|  | VNGA160408-2N | VNGA332-2N |  | □□ST40S   | 2  | 9.525 | 3.81 | 4.76 | 0.8 | 4.0 |
|                                                                                     | 160412-2N     | 333-2N     |                                                                                     |           |    |       |      |      | 1.2 |     |
|                                                                                     | 160416-2N     | 334-2N     |                                                                                     |           |    |       |      |      | 1.6 |     |
|                                                                                     | VNGM160408-2N | VNGM332-2N |  | □□CBR640S | 2  |       |      |      | 0.8 |     |
|                                                                                     | 160412-2N     | 333-2N     |                                                                                     |           |    |       |      |      | 1.2 |     |
|                                                                                     | 160416-2N     | 334-2N     |                                                                                     |           |    |       |      |      | 1.6 |     |
|  | VNGA160404-4N | VNGA331-4N |  | □□ST22S   | 4  | 9.525 | 3.81 | 4.76 | 0.4 | 2.2 |
|                                                                                     | 160408-4N     | 332-4N     |                                                                                     |           |    |       |      |      | 0.8 |     |
|                                                                                     | 160412-4N     | 333-4N     |                                                                                     |           |    |       |      |      | 1.2 |     |
|                                                                                     | VNGG160404-4N | VNGG331-4N |  | □□CBR422S | 4  |       |      |      | 0.4 |     |
|                                                                                     | 160408-4N     | 332-4N     |                                                                                     |           |    |       |      |      | 0.8 |     |
|                                                                                     | 160412-4N     | 333-4N     |                                                                                     |           |    |       |      |      | 1.2 |     |
|  | VNGA160404-4N | VNGA331-4N |  | □□ST30S   | 4  | 9.525 | 3.81 | 4.76 | 0.4 | 3.0 |
|                                                                                     | 160408-4N     | 332-4N     |                                                                                     |           |    |       |      |      | 0.8 |     |
|                                                                                     | 160412-4N     | 333-4N     |                                                                                     |           |    |       |      |      | 1.2 |     |
|                                                                                     | VNGG160404-4N | VNGG331-4N |  | □□CBR430S | 4  |       |      |      | 0.4 |     |
|                                                                                     | 160408-4N     | 332-4N     |                                                                                     |           |    |       |      |      | 0.8 |     |
|                                                                                     | 160412-4N     | 333-4N     |                                                                                     |           |    |       |      |      | 1.2 |     |
|  | VNGA160408-4N | VNGA332-4N |  | □□ST40S   | 4  | 9.525 | 3.81 | 4.76 | 0.8 | 4.0 |
|                                                                                     | 160412-4N     | 333-4N     |                                                                                     |           |    |       |      |      | 1.2 |     |
|                                                                                     | 160416-4N     | 334-4N     |                                                                                     |           |    |       |      |      | 1.6 |     |
|                                                                                     | VNGG160408-4N | VNGG332-4N |  | □□CBR640S | 4  |       |      |      | 0.8 |     |
|                                                                                     | 160412-4N     | 333-4N     |                                                                                     |           |    |       |      |      | 1.2 |     |
|                                                                                     | 160416-4N     | 334-4N     |                                                                                     |           |    |       |      |      | 1.6 |     |

PCBN 数控刀片--淬火钢类

整体式刀片

|    |             |  |
|----|-------------|--|
| VN | 35°菱形·负型·整体 |  |
|    | PCBN 负型刀片   |  |
|    |             |  |
|    |             |  |
|    |             |  |

|      |                                                                                                                                                                         |          |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| H    |                                                                                                                                                                         |          |
| 断续强度 |   |          |
| 结构   | SS                                                                                                                                                                      |          |
| 材质   | PNH2028                                                                                                                                                                 |          |
| 刃口   | S0102010                                                                                                                                                                | S0202020 |
| 涂层   | S/C3/CE                                                                                                                                                                 |          |

| 图示                                                                                    | ISO           | ANSI       | 刀片结构                                                                                  |            | 刃数 | ic    | φd   | S    | r   | la |
|---------------------------------------------------------------------------------------|---------------|------------|---------------------------------------------------------------------------------------|------------|----|-------|------|------|-----|----|
|    | VNGN160408-4N | VNGN332-4N |    | SSST160S   | 4  | 9.525 | —    | 4.76 | 0.8 | 16 |
|                                                                                       | 160412-4N     | 333-4N     |                                                                                       |            |    |       |      |      | 1.2 |    |
|                                                                                       | 160416-4N     | 334-4N     |                                                                                       |            |    |       |      |      | 1.6 |    |
|                                                                                       | VNGF160408-4N | VNGF332-4N |    | SSCBR6160S | 4  |       |      |      | 0.8 |    |
|                                                                                       | 160412-4N     | 333-4N     |                                                                                       |            |    |       |      |      | 1.2 |    |
|                                                                                       | 160416-4N     | 334-4N     |                                                                                       |            |    |       |      |      | 1.6 |    |
|   | VNGX160408-4N | VNGX332-4N |    | SSST160S   | 4  | 9.525 | —    | 4.76 | 0.8 | 16 |
|                                                                                       | 160412-4N     | 333-4N     |                                                                                       |            |    |       |      |      | 1.2 |    |
|                                                                                       | 160416-4N     | 334-4N     |                                                                                       |            |    |       |      |      | 1.6 |    |
|                                                                                       | VNGX160408-4N | VNGX332-4N |    | SSCBR6160S | 4  |       |      |      | 0.8 |    |
|                                                                                       | 160412-4N     | 333-4N     |                                                                                       |            |    |       |      |      | 1.2 |    |
|                                                                                       | 160416-4N     | 334-4N     |                                                                                       |            |    |       |      |      | 1.6 |    |
|  | VNGA160408-4N | VNGA332-4N |  | SSST160S   | 4  | 9.525 | 3.81 | 4.76 | 0.8 | 16 |
|                                                                                       | 160412-4N     | 333-4N     |                                                                                       |            |    |       |      |      | 1.2 |    |
|                                                                                       | 160416-4N     | 334-4N     |                                                                                       |            |    |       |      |      | 1.6 |    |
|                                                                                       | VNGG160408-4N | VNGG332-4N |  | SSCBR6160S | 4  |       |      |      | 0.8 |    |
|                                                                                       | 160412-4N     | 333-4N     |                                                                                       |            |    |       |      |      | 1.2 |    |
|                                                                                       | 160416-4N     | 334-4N     |                                                                                       |            |    |       |      |      | 1.6 |    |
|  | VNGN160708-4N | VNGN352-4N |  | SSST160S   | 4  | 9.525 | —    | 7.94 | 0.8 | 16 |
|                                                                                       | 160712-4N     | 353-4N     |                                                                                       |            |    |       |      |      | 1.2 |    |
|                                                                                       | 160716-4N     | 354-4N     |                                                                                       |            |    |       |      |      | 1.6 |    |
|                                                                                       | VNGF160708-4N | VNGF352-4N |  | SSCBR6160S | 4  |       |      |      | 0.8 |    |
|                                                                                       | 160712-4N     | 353-4N     |                                                                                       |            |    |       |      |      | 1.2 |    |
|                                                                                       | 160716-4N     | 354-4N     |                                                                                       |            |    |       |      |      | 1.6 |    |
|  | VNGX160708-4N | VNGX352-4N |  | SSST160S   | 4  | 9.525 | —    | 7.94 | 0.8 | 16 |
|                                                                                       | 160712-4N     | 353-4N     |                                                                                       |            |    |       |      |      | 1.2 |    |
|                                                                                       | 160716-4N     | 354-4N     |                                                                                       |            |    |       |      |      | 1.6 |    |
|                                                                                       | VNGX160708-4N | VNGX352-4N |  | SSCBR6160S | 4  |       |      |      | 0.8 |    |
|                                                                                       | 160712-4N     | 353-4N     |                                                                                       |            |    |       |      |      | 1.2 |    |
|                                                                                       | 160716-4N     | 354-4N     |                                                                                       |            |    |       |      |      | 1.6 |    |

PCBN 数控刀片--淬火钢类

贯穿式刀片

|    |             |
|----|-------------|
| VN | 35°菱形·负型·贯穿 |
|    | PCBN 负型刀片   |

|      |                 |                 |          |
|------|-----------------|-----------------|----------|
| H    |                 |                 |          |
| 断续强度 |                 |                 |          |
| 结构   | SWU             |                 | SWU      |
| 材质   | PNH0120 PNH0124 | PNH2016 PNH2024 |          |
| 刃口   | S0102010        |                 | S0202020 |
| 涂层   | S/C3/CE         |                 | S/C3/CE  |

| 图示                                                                                | ISO           | ANSI       | 刀片结构                                                                              |            | 刃数 | ic    | φd   | S    | r   | la  |
|-----------------------------------------------------------------------------------|---------------|------------|-----------------------------------------------------------------------------------|------------|----|-------|------|------|-----|-----|
|  | VNGA160408-4N | VNGA332-4N |  | SWUST25S   | 4  | 9.525 | 3.81 | 4.76 | 0.8 | 2.5 |
|                                                                                   | 160412-4N     | 333-4N     |                                                                                   |            |    |       |      |      | 1.2 |     |
|                                                                                   | 160416-4N     | 334-4N     |                                                                                   |            |    |       |      |      | 1.6 |     |
|                                                                                   | VNGG160408-4N | VNGG332-4N |  | SWUCBR625S | 4  |       |      |      | 0.8 |     |
|                                                                                   | 160412-4N     | 333-4N     |                                                                                   |            |    |       |      |      | 1.2 |     |
|                                                                                   | 160416-4N     | 334-4N     |                                                                                   |            |    |       |      |      | 1.6 |     |

PCBN 数控刀片--淬火钢类

焊接式刀片

|    |              |
|----|--------------|
| WN | 80°六边型·负型·有孔 |
|    | PCBN 负型刀片    |

|      |                            |                         |                            |                   |
|------|----------------------------|-------------------------|----------------------------|-------------------|
| H    |                            |                         |                            |                   |
| 断续强度 |                            |                         |                            |                   |
| 结构   | SL                         | SL                      | SL                         | CB                |
| 材质   | PNH0120 PNH0122 PNH0124    | PNH1020 PNH1022 PNH1024 | PNH2016 PNH2018 PNH2024    | PNH3019 PNH3023   |
| 刃口   | S0054505 S0102005 S0152510 | S0152510 S0153510       | S0152510 S0153510 S0203520 | S0102005 S0153510 |
| 涂层   | S/C3/CE                    |                         | S/C3/CE                    | S/C3              |

| 图示 | ISO           | ANSI       | 刀片结构 |           | 刃数 | ic   | φd   | S    | r   | la  |
|----|---------------|------------|------|-----------|----|------|------|------|-----|-----|
|    | WNGA080404-3N | WNGA431-3N |      | □□ST22S   | 3  | 12.7 | 5.16 | 4.76 | 0.4 | 2.2 |
|    | 080408-3N     | 432-3N     |      |           |    |      |      |      | 0.8 |     |
|    | 080412-3N     | 433-3N     |      |           |    |      |      |      | 1.2 |     |
|    | WNGA080404-3N | WNGA431-3N |      | □□WGR22S  | 3  |      |      |      | 0.4 |     |
|    | 080408-3N     | 432-3N     |      |           |    |      |      |      | 0.8 |     |
|    | 080412-3N     | 433-3N     |      |           |    |      |      |      | 1.2 |     |
|    | WNGM080404-3N | WNGM431-3N |      | □□CBR422S | 3  |      |      |      | 0.4 |     |
|    | 080408-3N     | 432-3N     |      |           |    |      |      |      | 0.8 |     |
|    | 080412-3N     | 433-3N     |      |           |    |      |      |      | 1.2 |     |
|    | WNGA080404-3N | WNGA431-3N |      | □□ST30S   | 3  | 12.7 | 5.16 | 4.76 | 0.4 | 3.0 |
|    | 080408-3N     | 432-3N     |      |           |    |      |      |      | 0.8 |     |
|    | 080412-3N     | 433-3N     |      |           |    |      |      |      | 1.2 |     |
|    | WNGA080404-3N | WNGA431-3N |      | □□WGR30S  | 3  |      |      |      | 0.4 |     |
|    | 080408-3N     | 432-3N     |      |           |    |      |      |      | 0.8 |     |
|    | 080412-3N     | 433-3N     |      |           |    |      |      |      | 1.2 |     |
|    | WNGM080404-3N | WNGM431-3N |      | □□CBR430S | 3  |      |      |      | 0.4 |     |
|    | 080408-3N     | 432-3N     |      |           |    |      |      |      | 0.8 |     |
|    | 080412-3N     | 433-3N     |      |           |    |      |      |      | 1.2 |     |
|    | WNGA080408-3N | WNGA432-3N |      | □□ST40S   | 3  | 12.7 | 5.16 | 4.76 | 0.8 | 4.0 |
|    | 080412-3N     | 433-3N     |      |           |    |      |      |      | 1.2 |     |
|    | 080416-3N     | 434-3N     |      |           |    |      |      |      | 1.6 |     |
|    | WNGA080408-3N | WNGA432-3N |      | □□WGR40S  | 3  |      |      |      | 0.8 |     |
|    | 080412-3N     | 433-3N     |      |           |    |      |      |      | 1.2 |     |
|    | 080416-3N     | 434-3N     |      |           |    |      |      |      | 1.6 |     |
|    | WNGM080408-3N | WNGM432-3N |      | □□CBR640S | 3  |      |      |      | 0.8 |     |
|    | 080412-3N     | 433-3N     |      |           |    |      |      |      | 1.2 |     |
|    | 080416-3N     | 434-3N     |      |           |    |      |      |      | 1.6 |     |
|    | WNGA080404-6N | WNGA431-6N |      | □□ST22S   | 6  | 12.7 | 5.16 | 4.76 | 0.4 | 2.2 |
|    | 080408-6N     | 432-6N     |      |           |    |      |      |      | 0.8 |     |
|    | 080412-6N     | 433-6N     |      |           |    |      |      |      | 1.2 |     |
|    | WNGA080404-6N | WNGA431-6N |      | □□WGR22S  | 6  |      |      |      | 0.4 |     |
|    | 080408-6N     | 432-6N     |      |           |    |      |      |      | 0.8 |     |
|    | 080412-6N     | 433-6N     |      |           |    |      |      |      | 1.2 |     |
|    | WNGG080404-6N | WNGG431-6N |      | □□CBR422S | 6  |      |      |      | 0.4 |     |
|    | 080408-6N     | 432-6N     |      |           |    |      |      |      | 0.8 |     |
|    | 080412-6N     | 433-6N     |      |           |    |      |      |      | 1.2 |     |
|    | WNGA080404-6N | WNGA431-6N |      | □□ST30S   | 6  | 12.7 | 5.16 | 4.76 | 0.4 | 3.0 |
|    | 080408-6N     | 432-6N     |      |           |    |      |      |      | 0.8 |     |
|    | 080412-6N     | 433-6N     |      |           |    |      |      |      | 1.2 |     |
|    | WNGA080404-6N | WNGA431-6N |      | □□WGR30S  | 6  |      |      |      | 0.4 |     |
|    | 080408-6N     | 432-6N     |      |           |    |      |      |      | 0.8 |     |
|    | 080412-6N     | 433-6N     |      |           |    |      |      |      | 1.2 |     |
|    | WNGG080404-6N | WNGG431-6N |      | □□CBR430S | 6  |      |      |      | 0.4 |     |
|    | 080408-6N     | 432-6N     |      |           |    |      |      |      | 0.8 |     |
|    | 080412-6N     | 433-6N     |      |           |    |      |      |      | 1.2 |     |
|    | WNGA080408-6N | WNGA432-6N |      | □□ST40S   | 6  | 12.7 | 5.16 | 4.76 | 0.8 | 4.0 |
|    | 080412-6N     | 433-6N     |      |           |    |      |      |      | 1.2 |     |
|    | 080416-6N     | 434-6N     |      |           |    |      |      |      | 1.6 |     |
|    | WNGA080408-6N | WNGA432-6N |      | □□WGR40S  | 6  |      |      |      | 0.8 |     |
|    | 080412-6N     | 433-6N     |      |           |    |      |      |      | 1.2 |     |
|    | 080416-6N     | 434-6N     |      |           |    |      |      |      | 1.6 |     |
|    | WNGG080408-6N | WNGG432-6N |      | □□CBR640S | 6  |      |      |      | 0.8 |     |
|    | 080412-6N     | 433-6N     |      |           |    |      |      |      | 1.2 |     |
|    | 080416-6N     | 434-6N     |      |           |    |      |      |      | 1.6 |     |

PCBN 数控刀片--淬火钢类

整体/贯穿式刀片

|    |              |
|----|--------------|
| WN | 80°六边型·负型·整体 |
|    | PCBN 负型刀片    |

|      |                   |
|------|-------------------|
| H    |                   |
| 断续强度 |                   |
| 结构   | SS                |
| 材质   | PNH2026 PNH2028   |
| 刃口   | S0102010 S0202020 |
| 涂层   | S/C3/CE           |

| 图示 | ISO           | ANSI       | 刀片结构 |           | 刃数 | ic   | φd   | S    | r   | la |
|----|---------------|------------|------|-----------|----|------|------|------|-----|----|
|    | WNGN080408-6N | WNGN432-6N |      | SSST80S   | 6  | 12.7 | —    | 4.76 | 0.8 | 8  |
|    | 080412-6N     | 433-6N     |      |           |    |      |      |      | 1.2 |    |
|    | 080416-6N     | 434-6N     |      |           |    |      |      |      | 1.6 |    |
|    | WNGN080408-6N | WNGN432-6N |      | SSWGR80S  | 6  |      |      |      | 0.8 |    |
|    | 080412-6N     | 433-6N     |      |           |    |      |      |      | 1.2 |    |
|    | 080416-6N     | 434-6N     |      |           |    |      |      |      | 1.6 |    |
|    | WNGF080408-6N | WNGF432-6N |      | SSCBR680S | 6  |      |      |      | 0.8 |    |
|    | 080412-6N     | 433-6N     |      |           |    |      |      |      | 1.2 |    |
|    | 080416-6N     | 434-6N     |      |           |    |      |      |      | 1.6 |    |
|    | WNGX080408-6N | WNGX432-6N |      | SSST80S   | 6  | 12.7 | —    | 4.76 | 0.8 | 8  |
|    | 080412-6N     | 433-6N     |      |           |    |      |      |      | 1.2 |    |
|    | 080416-6N     | 434-6N     |      |           |    |      |      |      | 1.6 |    |
|    | WNGX080408-6N | WNGX432-6N |      | SSWGR80S  | 6  |      |      |      | 0.8 |    |
|    | 080412-6N     | 433-6N     |      |           |    |      |      |      | 1.2 |    |
|    | 080416-6N     | 434-6N     |      |           |    |      |      |      | 1.6 |    |
|    | WNGX080408-6N | WNGX432-6N |      | SSCBR680S | 6  |      |      |      | 0.8 |    |
|    | 080412-6N     | 433-6N     |      |           |    |      |      |      | 1.2 |    |
|    | 080416-6N     | 434-6N     |      |           |    |      |      |      | 1.6 |    |
|    | WNGA080408-6N | WNGA432-6N |      | SSST80S   | 6  | 12.7 | 5.16 | 4.76 | 0.8 | 8  |
|    | 080412-6N     | 433-6N     |      |           |    |      |      |      | 1.2 |    |
|    | 080416-6N     | 434-6N     |      |           |    |      |      |      | 1.6 |    |
|    | WNGA080408-6N | WNGA432-6N |      | SSWGR80S  | 6  |      |      |      | 0.8 |    |
|    | 080412-6N     | 433-6N     |      |           |    |      |      |      | 1.2 |    |
|    | 080416-6N     | 434-6N     |      |           |    |      |      |      | 1.6 |    |
|    | WNGG080408-6N | WNGG432-6N |      | SSCBR680S | 6  |      |      |      | 0.8 |    |
|    | 080412-6N     | 433-6N     |      |           |    |      |      |      | 1.2 |    |
|    | 080416-6N     | 434-6N     |      |           |    |      |      |      | 1.6 |    |

|    |              |
|----|--------------|
| WN | 80°六边型·负型·贯穿 |
|    | PCBN 负型刀片    |

|      |                                 |
|------|---------------------------------|
| H    |                                 |
| 断续强度 |                                 |
| 结构   | SWU                             |
| 材质   | PNH0120 PNH0124 PNH2016 PNH2024 |
| 刃口   | S0102010 S0202020               |
| 涂层   | S/C3/CE                         |

| 图示 | ISO           | ANSI       | 刀片结构 |            | 刃数 | ic   | φd   | S    | r   | la  |
|----|---------------|------------|------|------------|----|------|------|------|-----|-----|
|    | WNGA080408-6N | WNGA432-6N |      | SWUST25S   | 6  | 12.7 | 5.16 | 4.76 | 0.8 | 2.5 |
|    | 080412-6N     | 433-6N     |      |            |    |      |      |      | 1.2 |     |
|    | 080416-6N     | 434-6N     |      |            |    |      |      |      | 1.6 |     |
|    | WNGA080408-6N | WNGA432-6N |      | SWUWGR25S  | 6  |      |      |      | 0.8 |     |
|    | 080412-6N     | 433-6N     |      |            |    |      |      |      | 1.2 |     |
|    | 080416-6N     | 434-6N     |      |            |    |      |      |      | 1.6 |     |
|    | WNGG080408-6N | WNGG432-6N |      | SWUCBR625S | 6  |      |      |      | 0.8 |     |
|    | 080412-6N     | 433-6N     |      |            |    |      |      |      | 1.2 |     |
|    | 080416-6N     | 434-6N     |      |            |    |      |      |      | 1.6 |     |

PCBN 数控刀片--淬火钢类

焊接式刀片

|            |           |
|------------|-----------|
| C/V<br>T/W | 超小刀片      |
|            | PCBN 正型刀片 |

|      |                   |
|------|-------------------|
| H    |                   |
| 断续强度 |                   |
| 结构   | SL                |
| 材质   | PNH0120 PNH2018   |
| 刃口   | S0152010 S0101505 |
| 涂层   | S/C3/CE           |

| 图示 | ISO           | ANSI                   | 刀片结构 |         | 刃数 | ic   | φd  | S    | r   | la  |
|----|---------------|------------------------|------|---------|----|------|-----|------|-----|-----|
|    | CCGW030102-2N | —                      |      | □□ST18S | 2  | 3.5  | 1.9 | 1.4  | 0.2 | 1.8 |
|    | 030104-2N     | —                      |      |         |    |      |     |      | 0.4 |     |
|    | CCGW040102-2N | CCGW(1.5)1(0.5)-2N     |      | □□ST18S | 2  | 4.3  | 2.2 | 1.8  | 0.2 | 1.8 |
|    | 040104-2N     | (1.5)11-2N             |      |         |    |      |     |      | 0.4 |     |
|    | VCGW070202-2N | VCGW(1.2)(1.5)(0.5)-2N |      | □□ST22S | 2  | 3.97 | 2.2 | 2.38 | 0.2 | 2.2 |
|    | 070204-2N     | (1.2)(1.5)1-2N         |      |         |    |      |     |      | 0.4 |     |
|    | VBGW070202-2N | VBGW(1.2)(1.5)(0.5)-2N |      | □□ST22S | 2  | 3.97 | 2.2 | 2.38 | 0.2 | 2.2 |
|    | 070204-2N     | (1.2)(1.5)1-2N         |      |         |    |      |     |      | 0.4 |     |
|    | TCGW06T102-3N | —                      |      | □□ST18S | 3  | 3.97 | 2.2 | 1.98 | 0.2 | 1.8 |
|    | 06T104-3N     | —                      |      |         |    |      |     |      | 0.4 |     |
|    | TBGN060102-3N | TBGN(1.2)1(0.5)-3N     |      | SFST60S | 3  | 3.97 | —   | 1.59 | 0.2 | 6.0 |
|    | 060104-3N     | TBGN(1.2)11-3N         |      |         |    |      |     |      | 0.4 |     |
|    | WCGW020102-3N | WCGW(1.2)1(0.5)-3N     |      | □□ST17S | 3  | 3.97 | 2.2 | 1.59 | 0.2 | 1.7 |
|    | 020104-3N     | (1.2)11-3N             |      |         |    |      |     |      | 0.4 |     |

注：以上表格中刀尖角R0.2的刀片仅提供C3涂层或者非涂层

PCBN 数控刀片--淬火钢类

整体式刀片

|       |        |
|-------|--------|
| RN/RC | 圆形·整体  |
|       | PCBN圆片 |

| H                            |                   |                    |
|------------------------------|-------------------|--------------------|
| 断续强度                         |                   |                    |
| 结构                           | SS                | SS                 |
| 材质                           | PNH2026 PNH2028   | PNH3020 (S≤4.76mm) |
| 刃口                           | S0102010 S0202020 |                    |
| 涂层                           | S/C3/CE           | S/C3/CE            |
| 注释: PNH3020提供不大于4.76mm厚的刀片种类 |                   |                    |

| 图示 | ISO          | ANSI       | 刀片结构 |          | 刃数 | ic     | φd | S    | r | la |
|----|--------------|------------|------|----------|----|--------|----|------|---|----|
|    | RNGN060300   | RNGN22     |      | SSST64S  | —  | 6.35   | —  | 3.18 | — | —  |
|    | RNGN090300   | RNGN32     |      | SSST95S  |    | 9.525  |    | 3.18 |   |    |
|    | RNGN090400   | RNGN33     |      | SSST95S  |    | 9.525  |    | 4.76 |   |    |
|    | RNGN120300   | RNGN42     |      | SSST127S |    | 12.7   |    | 3.18 |   |    |
|    | RNGN120400   | RNGN43     |      | SSST127S |    | 12.7   |    | 4.76 |   |    |
|    | RNGN120700   | RNGN45     |      | SSST127S |    | 12.7   |    | 7.94 |   |    |
|    | RNGN150700   | RNGN55     |      | SSST159S |    | 15.875 |    | 7.94 |   |    |
|    | RNGN190400   | RNGN63     |      | SSST190S |    | 19.05  |    | 4.76 |   |    |
|    | RNGN190700   | RNGN65     |      | SSST190S |    | 19.05  |    | 7.94 |   |    |
|    | RNGN200800   | —          |      | SSST200S |    | 20     |    | 8    |   |    |
|    | RNGN201000   | —          |      | SSST200S |    | 20     |    | 10   |   |    |
|    | RNGN250400   | RNGN83     |      | SSST254S |    | 25.4   |    | 4.76 |   |    |
|    | RNGN250700   | RNGN85     |      | SSST254S |    | 25.4   |    | 7.94 |   |    |
|    | RCGN0603MO   | —          |      | SSST60S  | —  | 6      | —  | 3.18 | — | —  |
|    | RCGN060300   | RCGN22     |      | SSST64S  |    | 6.35   |    | 3.18 |   |    |
|    | RCGN090300   | RCGN32     |      | SSST95S  |    | 9.525  |    | 3.18 |   |    |
|    | RCGN090400   | RCGN33     |      | SSST95S  |    | 9.525  |    | 4.76 |   |    |
|    | RCGN120300   | RCGN42     |      | SSST127S |    | 12.7   |    | 3.18 |   |    |
|    | RCGN120400   | RCGN43     |      | SSST127S |    | 12.7   |    | 4.76 |   |    |
|    | RCGN120700   | RCGN45     |      | SSST127S | —  | 12.7   | —  | 7.94 | — | —  |
|    | RCGX060400   | RCGX23     |      | SSST64S  |    | 6.35   |    | 4.76 |   |    |
|    | RCGX060500   | RCGX2(3.5) |      | SSST64S  |    | 6.35   |    | 5.56 |   |    |
|    | RCGX090400   | RCGX33     |      | SSST95S  |    | 9.525  |    | 4.76 |   |    |
|    | RCGX100400   | —          |      | SSST100S |    | 10     |    | 4.76 |   |    |
|    | RCGX120700   | RCGX45     |      | SSST127S |    | 12.7   |    | 7.94 |   |    |
|    | RCGX150700   | RCGX55     |      | SSST190S | —  | 15.875 | —  | 7.94 | — | —  |
|    | RCGX191000   | —          |      | SSST190S |    | 19.05  |    | 10   |   |    |
|    | RCGX201200   | —          |      | SSST200S |    | 20     |    | 12   |   |    |
|    | RCGX060400-V | RCGX23     |      | SSST64S  |    | 6.35   |    | 4.76 |   |    |
|    | RCGX080400-V | —          |      | SSST80S  |    | 8      |    | 4.76 |   |    |
|    |              |            |      |          |    |        |    |      |   |    |

PCBN 数控刀片--淬火钢类

整面式刀片

|       |        |
|-------|--------|
| RN/RC | 圆形·整面  |
|       | PCBN圆片 |

| H    |                   |         |
|------|-------------------|---------|
| 断续强度 |                   |         |
| 结构   | SF                | SF      |
| 材质   | PNH3013           | PNH3023 |
| 刃口   | S0102010 S0202020 |         |
| 涂层   | S/C3/CE           |         |

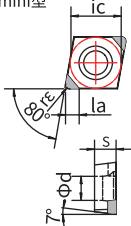
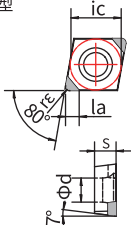
| 图示 | ISO          | ANSI           | 刀片结构 |          | 刃数 | ic     | φd | S    | r | la |
|----|--------------|----------------|------|----------|----|--------|----|------|---|----|
|    | RNGN060300   | RNGN22         |      | SFST64S  | —  | 6.35   | —  | 3.18 | — | —  |
|    | RNGN090300   | RNGN32         |      | SFST95S  |    | 9.525  |    | 3.18 |   |    |
|    | RNGN090400   | RNGN33         |      | SFST95S  |    | 9.525  |    | 4.76 |   |    |
|    | RNGN120300   | RNGN42         |      | SFST127S |    | 12.7   |    | 3.18 |   |    |
|    | RNGN120400   | RNGN43         |      | SFST127S |    | 12.7   |    | 4.76 |   |    |
|    | RNGN120700   | RNGN45         |      | SFST127S |    | 12.7   |    | 7.94 |   |    |
|    | RNGN150700   | RNGN55         |      | SFST159S |    | 15.875 |    | 7.94 |   |    |
|    |              |                |      |          |    |        |    |      |   |    |
|    | RCGN0603MO   | —              |      | SFST60S  | —  | 6      | —  | 3.18 | — | —  |
|    | RCGN060300   | RCGN22         |      | SFST64S  |    | 6.35   |    | 3.18 |   |    |
|    | RCGN090300   | RCGN32         |      | SFST95S  |    | 9.525  |    | 3.18 |   |    |
|    | RCGN090400   | RCGN33         |      | SFST95S  |    | 9.525  |    | 4.76 |   |    |
|    | RCGN120300   | RCGN42         |      | SFST127S |    | 12.7   |    | 3.18 |   |    |
|    | RCGN120400   | RCGN43         |      | SFST127S |    | 12.7   |    | 4.76 |   |    |
|    | RCGN120700   | RCGN45         |      | SFST127S |    | 12.7   |    | 7.94 |   |    |
|    |              |                |      |          |    |        |    |      |   |    |
|    | RCGX060400   | RCGX23         |      | SFST64S  | —  | 6.35   | —  | 4.76 | — | —  |
|    | RCGX060500   | RCGX2(3.5)     |      | SFST64S  |    | 6.35   |    | 5.56 |   |    |
|    | RCGX090400   | RCGX33         |      | SFST95S  |    | 9.525  |    | 4.76 |   |    |
|    | RCGX100400   | —              |      | SFST100S |    | 10     |    | 4.76 |   |    |
|    | RCGX120700   | RCGX45         |      | SFST127S |    | 12.7   |    | 7.94 |   |    |
|    |              |                |      |          |    |        |    |      |   |    |
|    | RCGX060400-V | RCGX23         |      | SFST64S  | —  | 6.35   | —  | 4.76 | — | —  |
|    | RCGX080400-V | —              |      | SFST80S  |    | 8      |    | 4.76 |   |    |
|    |              |                |      |          | —  |        | —  |      | — | —  |
|    | RCGW050200   | RCGW(1.8)(1.5) |      | SFST56S  |    | 5.56   |    | 2.4  |   |    |
|    | RCGW060300   | RCGW22         |      | SFST64S  |    | 6.35   |    | 2.8  |   |    |
|    |              |                |      |          |    |        |    |      |   |    |

PCBN 数控刀片--铸铁类

焊接式刀片

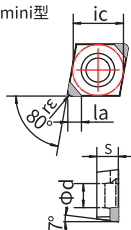
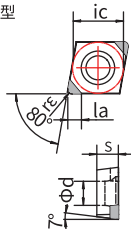
|    |             |
|----|-------------|
| CC | 80°菱形·正型·有孔 |
|    | PCBN 正型刀片   |

|      |                   |         |         |                         |
|------|-------------------|---------|---------|-------------------------|
| K    |                   |         |         |                         |
| 断续强度 |                   |         |         |                         |
| 结构   | SL                | CB      | SL      | CB                      |
| 材质   | PNK0126           | PNK0107 | PNK0122 | PNK3003 PNK3007 PNK3013 |
| 刃口   | S0102005 S0202010 |         |         |                         |
| 涂层   | S/C3              |         |         |                         |

| 图示                                                                                 | ISO           | ANSI               | 刀片结构                                                                              |         | 刃数 | ic   | φd  | S    | r   | la  |  |  |
|------------------------------------------------------------------------------------|---------------|--------------------|-----------------------------------------------------------------------------------|---------|----|------|-----|------|-----|-----|--|--|
|   | CCGW060202-2N | CCGW2(1.5)(0.5)-2N |  | □□ST22S | 2  | 6.35 | 2.8 | 2.38 | 0.2 | 2.2 |  |  |
|                                                                                    | 060204-2N     | 2(1.5)1-2N         |                                                                                   |         |    |      |     |      | 0.4 |     |  |  |
|                                                                                    | 060208-2N     | 2(1.5)2-2N         |                                                                                   |         |    |      |     |      | 0.8 |     |  |  |
|                                                                                    | CCGW060202-2N | CCGW2(1.5)(0.5)-2N |  | 2       |    |      |     |      | 0.2 |     |  |  |
|                                                                                    | 060204-2N     | 2(1.5)1-2N         |                                                                                   |         |    |      |     |      | 0.4 |     |  |  |
|                                                                                    | 060208-2N     | 2(1.5)2-2N         |                                                                                   |         |    |      |     |      | 0.8 |     |  |  |
|  | CCGW060202-2N | CCGW2(1.5)(0.5)-2N |  | □□ST30S | 2  | 6.35 | 2.8 | 2.38 | 0.2 | 3.0 |  |  |
|                                                                                    | 060204-2N     | 2(1.5)1-2N         |                                                                                   |         |    |      |     |      | 0.4 |     |  |  |
|                                                                                    | 060208-2N     | 2(1.5)2-2N         |                                                                                   |         |    |      |     |      | 0.8 |     |  |  |
|                                                                                    | CCGW060202-2N | CCGW2(1.5)(0.5)-2N |  | 2       |    |      |     |      | 0.2 |     |  |  |
|                                                                                    | 060204-2N     | 2(1.5)1-2N         |                                                                                   |         |    |      |     |      | 0.4 |     |  |  |
|                                                                                    | 060208-2N     | 2(1.5)2-2N         |                                                                                   |         |    |      |     |      | 0.8 |     |  |  |

|    |             |
|----|-------------|
| CC | 80°菱形·正型·有孔 |
|    | PCBN 正型刀片   |

|      |                   |         |         |                         |
|------|-------------------|---------|---------|-------------------------|
| K    |                   |         |         |                         |
| 断续强度 |                   |         |         |                         |
| 结构   | SL                | CB      | SL      | CB                      |
| 材质   | PNK0126           | PNK0107 | PNK0122 | PNK3003 PNK3007 PNK3013 |
| 刃口   | S0102005 S0202010 |         |         |                         |
| 涂层   | S/C3              |         |         |                         |

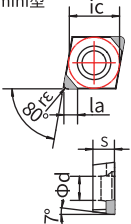
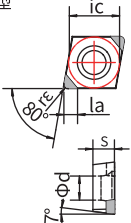
| 图示                                                                                                     | ISO           | ANSI           | 刀片结构                                                                                |          | 刃数 | ic    | φd  | S    | r   | la  |
|--------------------------------------------------------------------------------------------------------|---------------|----------------|-------------------------------------------------------------------------------------|----------|----|-------|-----|------|-----|-----|
| <div>常规mini型</div>  | CCGW09T304-2N | CCGW3(2.5)1-2N |  | □□ST22S  | 2  | 9.525 | 4.4 | 3.97 | 0.4 | 2.2 |
|                                                                                                        | 09T308-2N     | 3(2.5)2-2N     |                                                                                     |          |    |       |     |      | 0.8 |     |
|                                                                                                        | 09T312-2N     | 3(2.5)3-2N     |                                                                                     |          |    |       |     |      | 1.2 |     |
|                                                                                                        | CCGW09T304-2N | CCGW3(2.5)1-2N |  | □□WGR22S | 2  |       |     |      | 0.4 |     |
|                                                                                                        | 09T308-2N     | 3(2.5)2-2N     |                                                                                     |          |    |       |     |      | 0.8 |     |
|                                                                                                        | 09T312-2N     | 3(2.5)3-2N     |                                                                                     |          |    |       |     |      | 1.2 |     |
| <div>标准型</div>      | CCGW09T304-2N | CCGW3(2.5)1-2N |  | □□ST30S  | 2  | 9.525 | 4.4 | 3.97 | 0.4 | 3.0 |
|                                                                                                        | 09T308-2N     | 3(2.5)2-2N     |                                                                                     |          |    |       |     |      | 0.8 |     |
|                                                                                                        | 09T312-2N     | 3(2.5)3-2N     |                                                                                     |          |    |       |     |      | 1.2 |     |
|                                                                                                        | CCGW09T304-2N | CCGW3(2.5)1-2N |  | □□WGR30S | 2  |       |     |      | 0.4 |     |
|                                                                                                        | 09T308-2N     | 3(2.5)2-2N     |                                                                                     |          |    |       |     |      | 0.8 |     |
|                                                                                                        | 09T312-2N     | 3(2.5)3-2N     |                                                                                     |          |    |       |     |      | 1.2 |     |

PCBN 数控刀片--铸铁类

焊接式刀片

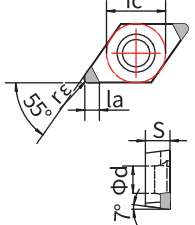
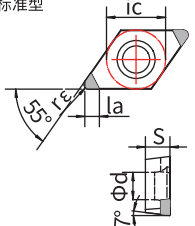
|    |             |
|----|-------------|
| CC | 80°菱形·正型·有孔 |
|    | PCBN 正型刀片   |

|      |                   |         |         |                         |
|------|-------------------|---------|---------|-------------------------|
| K    |                   |         |         |                         |
| 断续强度 |                   |         |         |                         |
| 结构   | SL                | CB      | SL      | CB                      |
| 材质   | PNK0126           | PNK0107 | PNK0122 | PNK3003 PNK3007 PNK3013 |
| 刃口   | S0102005 S0202010 |         |         |                         |
| 涂层   | S/C3              |         |         |                         |

| 图示                                                                                   | ISO           | ANSI       | 刀片结构                                                                                |          | 刃数 | ic   | φd  | S    | r   | la  |
|--------------------------------------------------------------------------------------|---------------|------------|-------------------------------------------------------------------------------------|----------|----|------|-----|------|-----|-----|
|   | CCGW120404-2N | CCGW431-2N |  | □□ST22S  | 2  | 12.7 | 5.5 | 4.76 | 0.4 | 2.2 |
|                                                                                      | 120408-2N     | 432-2N     |                                                                                     |          |    |      |     |      | 0.8 |     |
|                                                                                      | 120412-2N     | 433-2N     |                                                                                     |          |    |      |     |      | 1.2 |     |
|                                                                                      | CCGW120404-2N | CCGW431-2N |  | □□WGR22S | 2  |      |     |      | 0.4 |     |
|                                                                                      | 120408-2N     | 432-2N     |                                                                                     |          |    |      |     |      | 0.8 |     |
|                                                                                      | 120412-2N     | 433-2N     |                                                                                     |          |    |      |     |      | 1.2 |     |
|  | CCGW120404-2N | CCGW431-2N |  | □□ST30S  | 2  | 12.7 | 5.5 | 4.76 | 0.4 | 3.0 |
|                                                                                      | 120408-2N     | 432-2N     |                                                                                     |          |    |      |     |      | 0.8 |     |
|                                                                                      | 120412-2N     | 433-2N     |                                                                                     |          |    |      |     |      | 1.2 |     |
|                                                                                      | CCGW120404-2N | CCGW431-2N |  | □□WGR30S | 2  |      |     |      | 0.4 |     |
|                                                                                      | 120408-2N     | 432-2N     |                                                                                     |          |    |      |     |      | 0.8 |     |
|                                                                                      | 120412-2N     | 433-2N     |                                                                                     |          |    |      |     |      | 1.2 |     |

|    |             |
|----|-------------|
| DC | 55°菱形·正型·有孔 |
|    | PCBN 正型刀片   |

|      |                   |         |         |                         |
|------|-------------------|---------|---------|-------------------------|
| K    |                   |         |         |                         |
| 断续强度 |                   |         |         |                         |
| 结构   | SL                | CB      | SL      | CB                      |
| 材质   | PNK0126           | PNK0107 | PNK0122 | PNK3003 PNK3007 PNK3013 |
| 刃口   | S0102005 S0202010 |         |         |                         |
| 涂层   | S/C3              |         |         |                         |

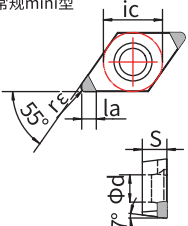
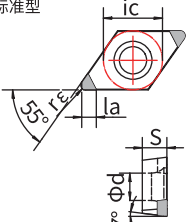
| 图示                                                                                                       | ISO           | ANSI               | 刀片结构                                                                                  |                      | 刃数 | ic   | φd  | S    | r   | la  |
|----------------------------------------------------------------------------------------------------------|---------------|--------------------|---------------------------------------------------------------------------------------|----------------------|----|------|-----|------|-----|-----|
| <div>常规mini型</div>  | DCGW070202-2N | DCGW2(1.5)(0.5)-2N |  | □□ST22S              | 2  | 6.35 | 2.8 | 2.38 | 0.2 | 2.2 |
|                                                                                                          | 070204-2N     | 2(1.5)1-2N         |                                                                                       | □□ST22S              |    |      |     |      | 0.4 |     |
|                                                                                                          | 070208-2N     | 2(1.5)2-2N         |                                                                                       | □□ST22S              |    |      |     |      | 0.8 |     |
|                                                                                                          | DCGW070202-2N | DCGW2(1.5)(0.5)-2N |  | □□WGR22S<br>(107.5°) | 2  |      |     |      | 0.2 |     |
|                                                                                                          | 070204-2N     | 2(1.5)1-2N         |                                                                                       | □□WGR22S<br>(107.5°) |    |      |     |      | 0.4 |     |
|                                                                                                          | 070208-2N     | 2(1.5)2-2N         |                                                                                       | □□WGR22S<br>(107.5°) |    |      |     |      | 0.8 |     |
| <div>标准型</div>      | DCGW070202-2N | DCGW2(1.5)(0.5)-2N |  | □□ST30S              | 2  | 6.35 | 2.8 | 2.38 | 0.2 | 3.0 |
|                                                                                                          | 070204-2N     | 2(1.5)1-2N         |                                                                                       | □□ST30S              |    |      |     |      | 0.4 |     |
|                                                                                                          | 070208-2N     | 2(1.5)2-2N         |                                                                                       | □□ST30S              |    |      |     |      | 0.8 |     |
|                                                                                                          | DCGW070202-2N | DCGW2(1.5)(0.5)-2N |  | □□WGR30S<br>(107.5°) | 2  |      |     |      | 0.2 |     |
|                                                                                                          | 070204-2N     | 2(1.5)1-2N         |                                                                                       | □□WGR30S<br>(107.5°) |    |      |     |      | 0.4 |     |
|                                                                                                          | 070208-2N     | 2(1.5)2-2N         |                                                                                       | □□WGR30S<br>(107.5°) |    |      |     |      | 0.8 |     |

PCBN 数控刀片--铸铁类

焊接式刀片

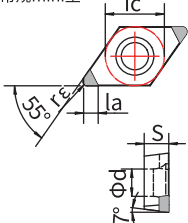
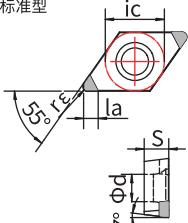
|    |             |                                                                                   |    |                                                                                     |
|----|-------------|-----------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------|
| DC | 55°菱形·正型·有孔 |                                                                                   |    |                                                                                     |
|    | PCBN 正型刀片   |                                                                                   |    |                                                                                     |
|    | K           |                                                                                   |    |                                                                                     |
|    | 断续强度        |  |    |  |
|    | 结构          | SL                                                                                | CB | SL      CB                                                                          |

|    |                     |         |         |                             |
|----|---------------------|---------|---------|-----------------------------|
| 材质 | PNK0126             | PNK0107 | PNK0122 | PNK3003   PNK3007   PNK3013 |
| 刃口 | S0102005   S0202010 |         |         |                             |
| 涂层 | S/C3                |         |         |                             |

| 图示                                                                                                   | ISO           | ANSI           | 刀片结构                                                                              |                      | 刃数 | ic    | φd  | S    | r   | la  |
|------------------------------------------------------------------------------------------------------|---------------|----------------|-----------------------------------------------------------------------------------|----------------------|----|-------|-----|------|-----|-----|
| <div>常规mini型</div>  | DCGW11T304-2N | DCGW3(2.5)1-2N |  | □□ST22S              | 2  | 9.525 | 4.4 | 3.97 | 0.4 | 2.2 |
|                                                                                                      | 11T308-2N     | 3(2.5)2-2N     |                                                                                   |                      |    |       |     |      | 0.8 |     |
|                                                                                                      | 11T312-2N     | 3(2.5)3-2N     |                                                                                   |                      |    |       |     |      | 1.2 |     |
|                                                                                                      | DCGW11T304-2N | DCGW3(2.5)1-2N |  | □□WGR22S<br>(107.5°) |    |       |     |      | 0.4 |     |
|                                                                                                      | 11T308-2N     | 3(2.5)2-2N     |                                                                                   |                      |    |       |     |      | 0.8 |     |
|                                                                                                      | 11T312-2N     | 3(2.5)3-2N     |                                                                                   |                      |    |       |     |      | 1.2 |     |
| <div>标准型</div>      | DCGW11T304-2N | DCGW3(2.5)1-2N |  | □□ST30S              | 2  | 9.525 | 4.4 | 3.97 | 0.4 | 3.0 |
|                                                                                                      | 11T308-2N     | 3(2.5)2-2N     |                                                                                   |                      |    |       |     |      | 0.8 |     |
|                                                                                                      | 11T312-2N     | 3(2.5)3-2N     |                                                                                   |                      |    |       |     |      | 1.2 |     |
|                                                                                                      | DCGW11T304-2N | DCGW3(2.5)1-2N |  | □□WGR30S<br>(107.5°) |    |       |     |      | 0.4 |     |
|                                                                                                      | 11T308-2N     | 3(2.5)2-2N     |                                                                                   |                      |    |       |     |      | 0.8 |     |
|                                                                                                      | 11T312-2N     | 3(2.5)3-2N     |                                                                                   |                      |    |       |     |      | 1.2 |     |

|    |             |                                                                                     |    |                                                                                       |
|----|-------------|-------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------|
| DC | 55°菱形·正型·有孔 |                                                                                     |    |                                                                                       |
|    | PCBN 正型刀片   |                                                                                     |    |                                                                                       |
|    | K           |                                                                                     |    |                                                                                       |
|    | 断续强度        |  |    |  |
|    | 结构          | SL                                                                                  | CB | SL      CB                                                                            |

|    |                     |         |         |                             |
|----|---------------------|---------|---------|-----------------------------|
| 材质 | PNK0126             | PNK0107 | PNK0122 | PNK3003   PNK3007   PNK3013 |
| 刃口 | S0102005   S0202010 |         |         |                             |
| 涂层 | S/C3                |         |         |                             |

| 图示                                                                                  | ISO           | ANSI       | 刀片结构                                                                                |                      | 刃数 | ic   | φd  | S    | r   | la  |
|-------------------------------------------------------------------------------------|---------------|------------|-------------------------------------------------------------------------------------|----------------------|----|------|-----|------|-----|-----|
|  | DCGW150404-2N | DCGW431-2N |  | □□ST22S              | 2  | 12.7 | 5.5 | 4.76 | 0.4 | 2.2 |
|                                                                                     | 150408-2N     | 432-2N     |                                                                                     |                      |    |      |     |      | 0.8 |     |
|                                                                                     | 150412-2N     | 433-2N     |                                                                                     |                      |    |      |     |      | 1.2 |     |
|                                                                                     | DCGW150404-2N | DCGW431-2N |  | □□WGR22S<br>(107.5°) |    |      |     |      | 0.4 |     |
|                                                                                     | 150408-2N     | 432-2N     |                                                                                     |                      |    |      |     |      | 0.8 |     |
|                                                                                     | 150412-2N     | 433-2N     |                                                                                     |                      |    |      |     |      | 1.2 |     |
|  | DCGW150404-2N | DCGW431-2N |  | □□ST30S              | 2  | 12.7 | 5.5 | 4.76 | 0.4 | 3.0 |
|                                                                                     | 150408-2N     | 432-2N     |                                                                                     |                      |    |      |     |      | 0.8 |     |
|                                                                                     | 150412-2N     | 433-2N     |                                                                                     |                      |    |      |     |      | 1.2 |     |
|                                                                                     | DCGW150404-2N | DCGW431-2N |  | □□WGR30S<br>(107.5°) |    |      |     |      | 0.4 |     |
|                                                                                     | 150408-2N     | 432-2N     |                                                                                     |                      |    |      |     |      | 0.8 |     |
|                                                                                     | 150412-2N     | 433-2N     |                                                                                     |                      |    |      |     |      | 1.2 |     |

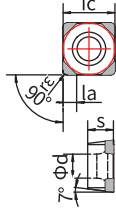
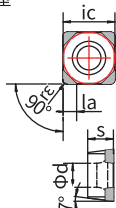
PCBN 数控刀片--铸铁类

焊接/整体式刀片

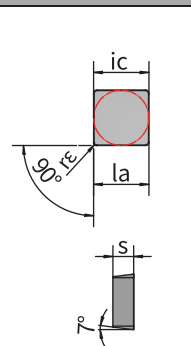


|    |              |                                                                                     |    |                                                                                     |
|----|--------------|-------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------|
| SC | 90°正方形·正型·有孔 |                                                                                     |    |                                                                                     |
|    | PCBN 正型刀片    |                                                                                     |    |                                                                                     |
|    | K            |                                                                                     |    |                                                                                     |
|    | 断续强度         |  |    |  |
|    | 结构           | SL                                                                                  | CB | SL      CB                                                                          |

|    |                     |         |         |                             |
|----|---------------------|---------|---------|-----------------------------|
| 材质 | PNK0126             | PNK0107 | PNK0122 | PNK3003   PNK3007   PNK3013 |
| 刃口 | S0102005   S0202010 |         |         |                             |
| 涂层 | S/C3                |         |         |                             |

| 图示                                                                                             | ISO           | ANSI           | 刀片结构                                                                                |         | 刃数 | ic    | φd  | S    | r   | la  |
|------------------------------------------------------------------------------------------------|---------------|----------------|-------------------------------------------------------------------------------------|---------|----|-------|-----|------|-----|-----|
| 常规mini型<br> | SCGW09T304-4N | SCGW3(2.5)1-4N |  | □□ST22S | 4  | 9.525 | 4.4 | 3.97 | 0.4 | 2.2 |
|                                                                                                | 09T308-4N     | 3(2.5)2-4N     |                                                                                     |         |    |       |     |      | 0.8 |     |
|                                                                                                | 09T312-4N     | 3(2.5)3-4N     |                                                                                     |         |    |       |     |      | 1.2 |     |
| 标准型<br>     | SCGW09T304-4N | SCGW3(2.5)1-4N |  | □□ST30S | 4  | 9.525 | 4.4 | 3.97 | 0.4 | 3.0 |
|                                                                                                | 09T308-4N     | 3(2.5)2-4N     |                                                                                     |         |    |       |     |      | 0.8 |     |
|                                                                                                | 09T312-4N     | 3(2.5)3-4N     |                                                                                     |         |    |       |     |      | 1.2 |     |

|                             |                                  |                                                                                       |                                                                                       |
|-----------------------------|----------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| SC                          | 90°正方形•正型•整体                     |                                                                                       |                                                                                       |
|                             | PCBN 正型刀片                        |                                                                                       |                                                                                       |
|                             | K                                |                                                                                       |                                                                                       |
|                             | 断续强度                             |  |  |
|                             | 结构                               | SS                                                                                    | SS                                                                                    |
| 材质                          | PNK0110    PNK0118               | PNH3020 (S≤4.76mm)                                                                    |                                                                                       |
| 刃口                          | E0000005    S0102005    S0202020 |                                                                                       |                                                                                       |
| 涂层                          | S/C3                             |                                                                                       |                                                                                       |
| 注释：PNK0118提供不大于4.76mm厚的刀片种类 |                                  |                                                                                       |                                                                                       |

| 图示                                                                                    | ISO           | ANSI       | 刀片结构                                                                                  | 刃数 | ic    | φd | S    | r   | la    |
|---------------------------------------------------------------------------------------|---------------|------------|---------------------------------------------------------------------------------------|----|-------|----|------|-----|-------|
|  | SCGN090304-4N | SCGN321-4N |  | 4  | 9.525 | —  | 3.18 | 0.4 | 9.525 |
|                                                                                       | 090308-4N     | 322-4N     |                                                                                       |    |       |    |      | 0.8 |       |
|                                                                                       | 090312-4N     | 323-4N     |                                                                                       |    |       |    |      | 1.2 |       |
|                                                                                       | SCGN090404-4N | SCGN331-4N |  | 4  | 9.525 | —  | 4.76 | 0.4 | 9.525 |
|                                                                                       | 090408-4N     | 332-4N     |                                                                                       |    |       |    |      | 0.8 |       |
|                                                                                       | 090412-4N     | 333-4N     |                                                                                       |    |       |    |      | 1.2 |       |
|                                                                                       | SCGN120408-4N | SCGN432-4N |  | 4  | 12.7  | —  | 4.76 | 0.8 | 12.7  |
|                                                                                       | 120412-4N     | 433-4N     |                                                                                       |    |       |    |      | 1.2 |       |
|                                                                                       | 120416-4N     | 434-4N     |                                                                                       |    |       |    |      | 1.6 |       |

PCBN 数控刀片--铸铁类

焊接式刀片

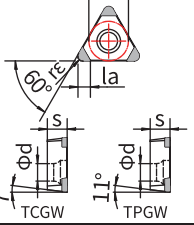
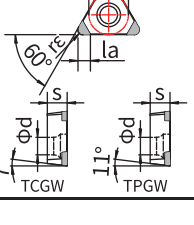
|       |              |
|-------|--------------|
| TC/TP | 60°三角形·正型·有孔 |
|       | PCBN 正型刀片    |

|      |                   |         |         |                         |
|------|-------------------|---------|---------|-------------------------|
| K    |                   |         |         |                         |
| 断续强度 |                   |         |         |                         |
| 结构   | SL                | CB      | SL      | CB                      |
| 材质   | PNK0126           | PNK0107 | PNK0122 | PNK3003 PNK3007 PNK3013 |
| 刃口   | S0102005 S0202010 |         |         |                         |
| 涂层   | S/C3              |         |         |                         |

| 图示          | ISO                        | ANSI                                     | 刀片结构 | 刃数 | ic   | φd  | S    | r   | la  |
|-------------|----------------------------|------------------------------------------|------|----|------|-----|------|-----|-----|
| 常规mini型<br> | TCGW080202-3N<br>080204-3N | TCGW(1.5)(1.5)(0.5)-3N<br>(1.5)(1.5)1-3N |      | 3  | 4.76 | 2.4 | 2.38 | 0.2 | 2.2 |
|             |                            |                                          |      |    |      |     |      | 0.4 |     |
|             | TPGW080202-3N<br>080204-3N | TPGW(1.5)(1.5)(0.5)-3N<br>(1.5)(1.5)1-3N |      | 3  | 4.76 | 2.4 | 2.38 | 0.2 |     |
|             |                            |                                          |      |    |      |     |      | 0.4 |     |
| 标准型<br>     | TCGW080202-3N<br>080204-3N | TCGW(1.5)(1.5)(0.5)-3N<br>(1.5)(1.5)1-3N |      | 3  | 4.76 | 2.4 | 2.38 | 0.2 | 3.0 |
|             |                            |                                          |      |    |      |     |      | 0.4 |     |
|             | TPGW080202-3N<br>080204-3N | TPGW(1.5)(1.5)(0.5)-3N<br>(1.5)(1.5)1-3N |      | 3  | 4.76 | 2.4 | 2.38 | 0.2 |     |
|             |                            |                                          |      |    |      |     |      | 0.4 |     |

|       |              |
|-------|--------------|
| TC/TP | 60°三角形·正型·有孔 |
|       | PCBN 正型刀片    |

|      |                   |         |         |                         |
|------|-------------------|---------|---------|-------------------------|
| K    |                   |         |         |                         |
| 断续强度 |                   |         |         |                         |
| 结构   | SL                | CB      | SL      | CB                      |
| 材质   | PNK0126           | PNK0107 | PNK0122 | PNK3003 PNK3007 PNK3013 |
| 刃口   | S0102005 S0202010 |         |         |                         |
| 涂层   | S/C3              |         |         |                         |

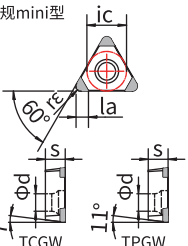
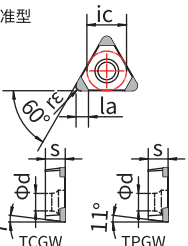
| 图示                                                                                             | ISO           | ANSI                   | 刀片结构                                                                                |         | 刃数 | ic   | φd  | S    | r   | la  |
|------------------------------------------------------------------------------------------------|---------------|------------------------|-------------------------------------------------------------------------------------|---------|----|------|-----|------|-----|-----|
| 常规mini型<br> | TCGW090202-3N | TCGW(1.8)(1.5)(0.5)-3N |  | □□ST22S | 3  | 5.56 | 2.4 | 2.38 | 0.2 | 2.2 |
|                                                                                                | 090204-3N     | (1.8)(1.5)1-3N         |                                                                                     |         |    |      |     |      | 0.4 |     |
|                                                                                                | 090208-3N     | (1.8)(1.5)2-3N         |                                                                                     |         |    |      |     |      | 0.8 |     |
|                                                                                                | TPGW090202-3N | TPGW(1.8)(1.5)(0.5)-3N |  | □□ST22S | 3  | 5.56 | 2.8 | 2.38 | 0.2 |     |
|                                                                                                | 090204-3N     | (1.8)(1.5)1-3N         |                                                                                     |         |    |      |     |      | 0.4 |     |
|                                                                                                | 090208-3N     | (1.8)(1.5)2-3N         |                                                                                     |         |    |      |     |      | 0.8 |     |
| 标准型<br>     | TCGW090202-3N | TCGW(1.8)(1.5)(0.5)-3N |  | □□ST30S | 3  | 5.56 | 2.4 | 2.38 | 0.2 | 3.0 |
|                                                                                                | 090204-3N     | (1.8)(1.5)1-3N         |                                                                                     |         |    |      |     |      | 0.4 |     |
|                                                                                                | 090208-3N     | (1.8)(1.5)2-3N         |                                                                                     |         |    |      |     |      | 0.8 |     |
|                                                                                                | TPGW090202-3N | TPGW(1.8)(1.5)(0.5)-3N |  | □□ST30S | 3  | 5.56 | 2.8 | 2.38 | 0.2 |     |
|                                                                                                | 090204-3N     | (1.8)(1.5)1-3N         |                                                                                     |         |    |      |     |      | 0.4 |     |
|                                                                                                | 090208-3N     | (1.8)(1.5)2-3N         |                                                                                     |         |    |      |     |      | 0.8 |     |

PCBN 数控刀片--铸铁类

焊接式刀片

|       |              |
|-------|--------------|
| TC/TP | 60°三角形·正型·有孔 |
|       | PCBN 正型刀片    |

|      |                   |         |         |                         |
|------|-------------------|---------|---------|-------------------------|
| K    |                   |         |         |                         |
| 断续强度 |                   |         |         |                         |
| 结构   | SL                | CB      | SL      | CB                      |
| 材质   | PNK0126           | PNK0107 | PNK0122 | PNK3003 PNK3007 PNK3013 |
| 刃口   | S0102005 S0202010 |         |         |                         |
| 涂层   | S/C3              |         |         |                         |

| 图示                                                                                             | ISO           | ANSI           | 刀片结构                                                                                |         | 刃数 | ic   | φd  | S    | r   | la  |
|------------------------------------------------------------------------------------------------|---------------|----------------|-------------------------------------------------------------------------------------|---------|----|------|-----|------|-----|-----|
| 常规mini型<br> | TCGW110302-3N | TCGW22(0.5)-3N |  | □□ST22S | 3  | 6.35 | 2.8 | 3.18 | 0.2 | 2.2 |
|                                                                                                | 110304-3N     | 221-3N         |                                                                                     |         |    |      |     |      | 0.4 |     |
|                                                                                                | 110308-3N     | 222-3N         |                                                                                     |         |    |      |     |      | 0.8 |     |
|                                                                                                | TPGW110302-3N | TPGW22(0.5)-3N |  | □□ST22S | 3  | 6.35 | 3.3 | 3.18 | 0.2 |     |
|                                                                                                | 110304-3N     | 221-3N         |                                                                                     |         |    |      |     |      | 0.4 |     |
|                                                                                                | 110308-3N     | 222-3N         |                                                                                     |         |    |      |     |      | 0.8 |     |
| 标准型<br>    | TCGW110302-3N | TCGW22(0.5)-3N |  | □□ST30S | 3  | 6.35 | 2.8 | 3.18 | 0.2 | 3.0 |
|                                                                                                | 110304-3N     | 221-3N         |                                                                                     |         |    |      |     |      | 0.4 |     |
|                                                                                                | 110308-3N     | 222-3N         |                                                                                     |         |    |      |     |      | 0.8 |     |
|                                                                                                | TPGW110302-3N | TPGW22(0.5)-3N |  | □□ST30S | 3  | 6.35 | 3.3 | 3.18 | 0.2 |     |
|                                                                                                | 110304-3N     | 221-3N         |                                                                                     |         |    |      |     |      | 0.4 |     |
|                                                                                                | 110308-3N     | 222-3N         |                                                                                     |         |    |      |     |      | 0.8 |     |

|    |              |
|----|--------------|
| TP | 60°三角形·正型·有孔 |
|    | PCBN 正型刀片    |

|      |                   |         |         |                         |
|------|-------------------|---------|---------|-------------------------|
| K    |                   |         |         |                         |
| 断续强度 |                   |         |         |                         |
| 结构   | SL                | CB      | SL      | CB                      |
| 材质   | PNK0126           | PNK0107 | PNK0122 | PNK3003 PNK3007 PNK3013 |
| 刃口   | S0102005 S0202010 |         |         |                         |
| 涂层   | S/C3              |         |         |                         |

| 图示          | ISO           | ANSI       | 刀片结构 | 刃数 | ic    | φd  | S    | r   | la  |
|-------------|---------------|------------|------|----|-------|-----|------|-----|-----|
| 常规mini型<br> | TPGW160304-3N | TPGW321-3N |      | 3  | 9.525 | 4.4 | 3.18 | 0.4 | 2.2 |
|             | 160308-3N     | 322-3N     |      |    |       |     |      | 0.8 |     |
|             | 160312-3N     | 323-3N     |      |    |       |     |      | 1.2 |     |
| 标准型<br>     | TPGW160304-3N | TPGW321-3N |      | 3  | 9.525 | 4.4 | 3.18 | 0.4 | 3.0 |
|             | 160308-3N     | 322-3N     |      |    |       |     |      | 0.8 |     |
|             | 160312-3N     | 323-3N     |      |    |       |     |      | 1.2 |     |

PCBN 数控刀片--铸铁类

焊接式刀片

|    |              |
|----|--------------|
| TP | 60°三角形·正型·有孔 |
|    | PCBN 正型刀片    |

|      |                   |         |         |                         |
|------|-------------------|---------|---------|-------------------------|
| K    |                   |         |         |                         |
| 断续强度 |                   |         |         |                         |
| 结构   | SL                | CB      | SL      | CB                      |
| 材质   | PNK0126           | PNK0107 | PNK0122 | PNK3003 PNK3007 PNK3013 |
| 刃口   | S0102005 S0202010 |         |         |                         |
| 涂层   | S/C3              |         |         |                         |

| 图示          | ISO           | ANSI       | 刀片结构 |         | 刃数 | ic    | φd  | S    | r   | la  |
|-------------|---------------|------------|------|---------|----|-------|-----|------|-----|-----|
| 常规mini型<br> | TPGW160404-3N | TPGW331-3N |      | □□ST22S | 3  | 9.525 | 4.4 | 4.76 | 0.4 | 2.2 |
|             | 160408-3N     | 332-3N     |      |         |    |       |     |      | 0.8 |     |
|             | 160412-3N     | 333-3N     |      |         |    |       |     |      | 1.2 |     |
| 标准型<br>     | TPGW160404-3N | TPGW331-3N |      | □□ST30S | 3  | 9.525 | 4.4 | 4.76 | 0.4 | 3.0 |
|             | 160408-3N     | 332-3N     |      |         |    |       |     |      | 0.8 |     |
|             | 160412-3N     | 333-3N     |      |         |    |       |     |      | 1.2 |     |

|       |             |
|-------|-------------|
| VB/VC | 35°菱形·正型·有孔 |
|       | PCBN 正型刀片   |

|      |                   |         |         |                         |
|------|-------------------|---------|---------|-------------------------|
| K    |                   |         |         |                         |
| 断续强度 |                   |         |         |                         |
| 结构   | SL                | CB      | SL      | CB                      |
| 材质   | PNK0126           | PNK0107 | PNK0122 | PNK3003 PNK3007 PNK3013 |
| 刃口   | S0102005 S0202010 |         |         |                         |
| 涂层   | S/C3              |         |         |                         |

| 图示          | ISO           | ANSI           | 刀片结构 |         | 刃数 | ic   | φd  | S    | r   | la  |
|-------------|---------------|----------------|------|---------|----|------|-----|------|-----|-----|
| 常规mini型<br> | VBGW110302-2N | VBGW22(0.5)-2N |      | □□ST22S | 2  | 6.35 | 2.8 | 3.18 | 0.2 | 2.2 |
|             | 110304-2N     | 221-2N         |      |         |    |      |     |      | 0.4 |     |
|             | 110308-2N     | 222-2N         |      |         |    |      |     |      | 0.8 |     |
|             | VCGW110302-2N | VCGW22(0.5)-2N |      |         |    |      |     |      | 0.2 |     |
| 标准型<br>     | 110304-2N     | 221-2N         |      | □□ST22S | 2  | 6.35 | 2.8 | 3.18 | 0.4 | 3.0 |
|             | 110308-2N     | 222-2N         |      |         |    |      |     |      | 0.8 |     |
|             | VCGW110302-2N | VCGW22(0.5)-2N |      |         |    |      |     |      | 0.2 |     |
|             | 110304-2N     | 221-2N         |      |         |    |      |     |      | 0.4 |     |
| 标准型<br>     | 110308-2N     | 222-2N         |      | □□ST30S | 2  | 6.35 | 2.8 | 3.18 | 0.8 | 3.0 |
|             | VCGW110302-2N | VCGW22(0.5)-2N |      |         |    |      |     |      | 0.2 |     |
| 标准型<br>     | 110304-2N     | 221-2N         |      | □□ST30S | 2  | 6.35 | 2.8 | 3.18 | 0.4 | 3.0 |
|             | 110308-2N     | 222-2N         |      |         |    |      |     |      | 0.8 |     |

PCBN 数控刀片--铸铁类

焊接式刀片



|       |             |
|-------|-------------|
| VB/VC | 35°菱形·正型·有孔 |
|       | PCBN 正型刀片   |

|      |                   |         |         |                         |
|------|-------------------|---------|---------|-------------------------|
| K    |                   |         |         |                         |
| 断续强度 |                   |         |         |                         |
| 结构   | SL                | CB      | SL      | CB                      |
| 材质   | PNK0126           | PNK0107 | PNK0122 | PNK3003 PNK3007 PNK3013 |
| 刃口   | S0102005 S0202010 |         |         |                         |
| 涂层   | S/C3              |         |         |                         |

| 图示          | ISO           | ANSI       | 刀片结构 |         | 刃数 | ic    | φd  | S    | r   | la  |
|-------------|---------------|------------|------|---------|----|-------|-----|------|-----|-----|
| 常规mini型<br> | VBGW160404-2N | VBGW331-2N |      | □□ST22S | 2  | 9.525 | 4.4 | 4.76 | 0.4 | 2.2 |
|             | 160408-2N     | 332-2N     |      |         |    |       |     |      | 0.8 |     |
|             | 160412-2N     | 333-2N     |      |         |    |       |     |      | 1.2 |     |
|             | VCGW160404-2N | VCGW331-2N |      |         |    |       |     |      | 0.4 |     |
|             | 160408-2N     | 332-2N     |      |         |    |       |     |      | 0.8 |     |
|             | 160412-2N     | 333-2N     |      |         |    |       |     |      | 1.2 |     |
| 标准型<br>     | VBGW160404-2N | VBGW331-2N |      | □□ST30S | 2  | 9.525 | 4.4 | 4.76 | 0.4 | 3.0 |
|             | 160408-2N     | 332-2N     |      |         |    |       |     |      | 0.8 |     |
|             | 160412-2N     | 333-2N     |      |         |    |       |     |      | 1.2 |     |
|             | VCGW160404-2N | VCGW331-2N |      |         |    |       |     |      | 0.4 |     |
|             | 160408-2N     | 332-2N     |      |         |    |       |     |      | 0.8 |     |
|             | 160412-2N     | 333-2N     |      |         |    |       |     |      | 1.2 |     |
| 长刃型<br>     | VBGW160404-2N | VBGW331-2N |      | □□ST40S | 2  | 9.525 | 4.4 | 4.76 | 0.4 | 4.0 |
|             | 160408-2N     | 332-2N     |      |         |    |       |     |      | 0.8 |     |
|             | 160412-2N     | 333-2N     |      |         |    |       |     |      | 1.2 |     |
|             | 160416-2N     | 334-2N     |      |         |    |       |     |      | 1.6 |     |
|             | VCGW160404-2N | VCGW331-2N |      |         |    |       |     |      | 0.4 |     |
|             | 160408-2N     | 332-2N     |      |         |    |       |     |      | 0.8 |     |
| 长刃型<br>     | 160412-2N     | 333-2N     |      | □□ST40S | 2  | 9.525 | 4.4 | 4.76 | 1.2 | 4.0 |
|             | 160416-2N     | 334-2N     |      |         |    |       |     |      | 1.6 |     |

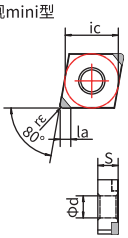
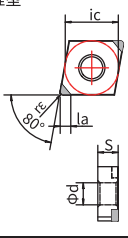
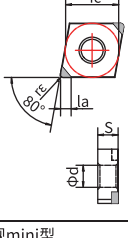
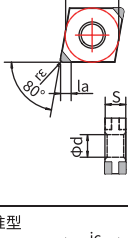
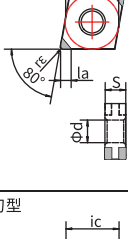
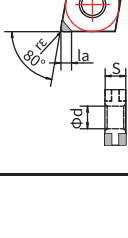
PCBN 数控刀片--铸铁类

焊接式刀片

CN

80°菱形·负型·有孔  
PCBN 负型刀片

| K    |                                                                                   |         |                                                                                     |                         |
|------|-----------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|-------------------------|
| 断续强度 |  |         |  |                         |
| 结构   | SL                                                                                | CB      | SL                                                                                  | CB                      |
| 材质   | PNK0126                                                                           | PNK0107 | PNK0122                                                                             | PNK3003 PNK3007 PNK3013 |
| 刃口   | S0102005 S0202010                                                                 |         |                                                                                     |                         |
| 涂层   | S/C3                                                                              |         |                                                                                     |                         |

| 图示                                                                                  | ISO           | ANSI       | 刀片结构                                                                                |          | 刃数 | ic   | φd   | S    | r   | la  |
|-------------------------------------------------------------------------------------|---------------|------------|-------------------------------------------------------------------------------------|----------|----|------|------|------|-----|-----|
|    | CNGA120404-2N | CNGA431-2N |    | □□ST22S  | 2  | 12.7 | 5.16 | 4.76 | 0.4 | 2.2 |
|                                                                                     | 120408-2N     | 432-2N     |                                                                                     |          |    |      |      |      | 0.8 |     |
|                                                                                     | 120412-2N     | 433-2N     |                                                                                     |          |    |      |      |      | 1.2 |     |
|                                                                                     | CNGA120404-2N | CNGA431-2N |    | □□WGR22S | 2  |      |      |      | 0.4 |     |
|                                                                                     | 120408-2N     | 432-2N     |                                                                                     |          |    |      |      |      | 0.8 |     |
|                                                                                     | 120412-2N     | 433-2N     |                                                                                     |          |    |      |      |      | 1.2 |     |
|   | CNGA120404-2N | CNGA431-2N |    | □□ST30S  | 2  | 12.7 | 5.16 | 4.76 | 0.4 | 3.0 |
|                                                                                     | 120408-2N     | 432-2N     |                                                                                     |          |    |      |      |      | 0.8 |     |
|                                                                                     | 120412-2N     | 433-2N     |                                                                                     |          |    |      |      |      | 1.2 |     |
|                                                                                     | CNGA120404-2N | CNGA431-2N |    | □□WGR30S | 2  |      |      |      | 0.4 |     |
|                                                                                     | 120408-2N     | 432-2N     |                                                                                     |          |    |      |      |      | 0.8 |     |
|                                                                                     | 120412-2N     | 433-2N     |                                                                                     |          |    |      |      |      | 1.2 |     |
|  | CNGA120408-2N | CNGA432-2N |  | □□ST40S  | 2  | 12.7 | 5.16 | 4.76 | 0.8 | 4.0 |
|                                                                                     | 120412-2N     | 433-2N     |                                                                                     |          |    |      |      |      | 1.2 |     |
|                                                                                     | 120416-2N     | 434-2N     |                                                                                     |          |    |      |      |      | 1.6 |     |
|                                                                                     | CNGA120408-2N | CNGA432-2N |  | □□WGR40S | 2  |      |      |      | 0.8 |     |
|                                                                                     | 120412-2N     | 433-2N     |                                                                                     |          |    |      |      |      | 1.2 |     |
|                                                                                     | 120416-2N     | 434-2N     |                                                                                     |          |    |      |      |      | 1.6 |     |
|  | CNGA120404-4N | CNGA431-4N |  | □□ST22S  | 4  | 12.7 | 5.16 | 4.76 | 0.4 | 2.2 |
|                                                                                     | 120408-4N     | 432-4N     |                                                                                     |          |    |      |      |      | 0.8 |     |
|                                                                                     | 120412-4N     | 433-4N     |                                                                                     |          |    |      |      |      | 1.2 |     |
|                                                                                     | CNGA120404-4N | CNGA431-4N |  | □□WGR22S | 4  |      |      |      | 0.4 |     |
|                                                                                     | 120408-4N     | 432-4N     |                                                                                     |          |    |      |      |      | 0.8 |     |
|                                                                                     | 120412-4N     | 433-4N     |                                                                                     |          |    |      |      |      | 1.2 |     |
|  | CNGA120404-4N | CNGA431-4N |  | □□ST30S  | 4  | 12.7 | 5.16 | 4.76 | 0.4 | 3.0 |
|                                                                                     | 120408-4N     | 432-4N     |                                                                                     |          |    |      |      |      | 0.8 |     |
|                                                                                     | 120412-4N     | 433-4N     |                                                                                     |          |    |      |      |      | 1.2 |     |
|                                                                                     | CNGA120404-4N | CNGA431-4N |  | □□WGR30S | 4  |      |      |      | 0.4 |     |
|                                                                                     | 120408-4N     | 432-4N     |                                                                                     |          |    |      |      |      | 0.8 |     |
|                                                                                     | 120412-4N     | 433-4N     |                                                                                     |          |    |      |      |      | 1.2 |     |
|  | CNGA120408-4N | CNGA432-4N |  | □□ST40S  | 4  | 12.7 | 5.16 | 4.76 | 0.8 | 4.0 |
|                                                                                     | 120412-4N     | 433-4N     |                                                                                     |          |    |      |      |      | 1.2 |     |
|                                                                                     | 120416-4N     | 434-4N     |                                                                                     |          |    |      |      |      | 1.6 |     |
|                                                                                     | CNGA120408-4N | CNGA432-4N |  | □□WGR40S | 4  |      |      |      | 0.8 |     |
|                                                                                     | 120412-4N     | 433-4N     |                                                                                     |          |    |      |      |      | 1.2 |     |
|                                                                                     | 120416-4N     | 434-4N     |                                                                                     |          |    |      |      |      | 1.6 |     |

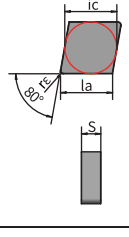
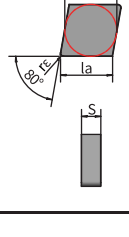
PCBN 数控刀片--铸铁类

整体式刀片

CN

80°菱形·负型·整体  
PCBN 负型刀片

| K                            |                                                                                     |                                                                                     |
|------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 断续强度                         |  |  |
| 结构                           | SS                                                                                  | SS                                                                                  |
| 材质                           | PNK0110    PNK0118                                                                  | PNH3020 (S≤4.76mm)                                                                  |
| 刃口                           | E0000005    S0102005    S0202020                                                    |                                                                                     |
| 涂层                           | S/C3                                                                                |                                                                                     |
| 注释: PNK0118提供不大于4.76mm厚的刀片种类 |                                                                                     |                                                                                     |

| 图示                                                                                   | ISO           | ANSI       | 刀片结构                                                                                 |          | 刃数 | ic    | φd | S    | r   | la |
|--------------------------------------------------------------------------------------|---------------|------------|--------------------------------------------------------------------------------------|----------|----|-------|----|------|-----|----|
|   | CNGN090304-4N | CNGN321-4N |   | SSST90S  | 4  | 9.525 | —  | 3.18 | 0.4 | 9  |
|                                                                                      | 090308-4N     | 322-4N     |                                                                                      |          |    |       |    |      | 0.8 |    |
|                                                                                      | 090312-4N     | 323-4N     |                                                                                      |          |    |       |    |      | 1.2 |    |
|                                                                                      | CNGN090304-4N | CNGN321-4N |   | SSWGR90S | 4  |       |    |      | 0.4 |    |
|                                                                                      | 090308-4N     | 322-4N     |                                                                                      |          |    |       |    |      | 0.8 |    |
|                                                                                      | 090312-4N     | 323-4N     |                                                                                      |          |    |       |    |      | 1.2 |    |
|  | CNGN090404-4N | CNGN331-4N |   | SSST90S  | 4  | 9.525 | —  | 4.76 | 0.4 | 9  |
|                                                                                      | 090408-4N     | 332-4N     |                                                                                      |          |    |       |    |      | 0.8 |    |
|                                                                                      | 090412-4N     | 333-4N     |                                                                                      |          |    |       |    |      | 1.2 |    |
|                                                                                      | CNGN090404-4N | CNGN331-4N |  | SSWGR90S | 4  |       |    |      | 0.4 |    |
|                                                                                      | 090408-4N     | 332-4N     |                                                                                      |          |    |       |    |      | 0.8 |    |
|                                                                                      | 090412-4N     | 333-4N     |                                                                                      |          |    |       |    |      | 1.2 |    |

PCBN 数控刀片--铸铁类

整体式刀片

CN

80°菱形·负型·整体

PCBN 负型刀片

| K                            |                                                                                    |         |                                                                                     |
|------------------------------|------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|
| 断续强度                         |  |         |  |
| 结构                           | SS                                                                                 |         | SS                                                                                  |
| 材质                           | PNK0110                                                                            | PNK0118 | PNH3020 (S≤4.76mm)                                                                  |
| 刃口                           | E0000005    S0102005    S0202020                                                   |         |                                                                                     |
| 涂层                           | S/C3                                                                               |         |                                                                                     |
| 注释: PNK0118提供不大于4.76mm厚的刀片种类 |                                                                                    |         |                                                                                     |

| 图示 | ISO           | ANSI       | 刀片结构 |           | 刃数 | ic   | φd   | S    | r   | la |
|----|---------------|------------|------|-----------|----|------|------|------|-----|----|
|    | CNGN120408-4N | CNGN432-4N |      | SSST120S  | 4  | 12.7 | —    | 4.76 | 0.8 | 12 |
|    | 120412-4N     | 433-4N     |      |           |    |      |      |      | 1.2 |    |
|    | 120416-4N     | 434-4N     |      |           |    |      |      |      | 1.6 |    |
|    | CNGN120408-4N | CNGN432-4N |      | SSWGR120S | 4  |      |      |      | 0.8 |    |
|    | 120412-4N     | 433-4N     |      |           |    |      |      |      | 1.2 |    |
|    | 120416-4N     | 434-4N     |      |           |    |      |      |      | 1.6 |    |
|    | CNGX120408-4N | CNGX432-4N |      | SSST120S  | 4  | 12.7 | —    | 4.76 | 0.8 | 12 |
|    | 120412-4N     | 433-4N     |      |           |    |      |      |      | 1.2 |    |
|    | 120416-4N     | 434-4N     |      |           |    |      |      |      | 1.6 |    |
|    | CNGX120408-4N | CNGX432-4N |      | SSWGR120S | 4  |      |      |      | 0.8 |    |
|    | 120412-4N     | 433-4N     |      |           |    |      |      |      | 1.2 |    |
|    | 120416-4N     | 434-4N     |      |           |    |      |      |      | 1.6 |    |
|    | CNGA120408-4N | CNGA432-4N |      | SSST120S  | 4  | 12.7 | 5.16 | 4.76 | 0.8 | 12 |
|    | 120412-4N     | 433-4N     |      |           |    |      |      |      | 1.2 |    |
|    | 120416-4N     | 434-4N     |      |           |    |      |      |      | 1.6 |    |
|    | CNGA120408-4N | CNGA432-4N |      | SSWGR120S | 4  |      |      |      | 0.8 |    |
|    | 120412-4N     | 433-4N     |      |           |    |      |      |      | 1.2 |    |
|    | 120416-4N     | 434-4N     |      |           |    |      |      |      | 1.6 |    |
|    | CNGN120708-4N | CNGN452-4N |      | SSST120S  | 4  | 12.7 | —    | 7.94 | 0.8 | 12 |
|    | 120712-4N     | 453-4N     |      |           |    |      |      |      | 1.2 |    |
|    | 120716-4N     | 454-4N     |      |           |    |      |      |      | 1.6 |    |
|    | CNGN120708-4N | CNGN452-4N |      | SSWGR120S | 4  |      |      |      | 0.8 |    |
|    | 120712-4N     | 453-4N     |      |           |    |      |      |      | 1.2 |    |
|    | 120716-4N     | 454-4N     |      |           |    |      |      |      | 1.6 |    |
|    | CNGX120708-4N | CNGX452-4N |      | SSST120S  | 4  | 12.7 | —    | 7.94 | 0.8 | 12 |
|    | 120712-4N     | 453-4N     |      |           |    |      |      |      | 1.2 |    |
|    | 120716-4N     | 454-4N     |      |           |    |      |      |      | 1.6 |    |
|    | CNGX120708-4N | CNGX452-4N |      | SSWGR120S | 4  |      |      |      | 0.8 |    |
|    | 120712-4N     | 453-4N     |      |           |    |      |      |      | 1.2 |    |
|    | 120716-4N     | 454-4N     |      |           |    |      |      |      | 1.6 |    |

PCBN 数控刀片--铸铁类

焊接式刀片

DN

55°菱形·负型·有孔

PCBN 负型刀片

| K    |                   |         |                                 |
|------|-------------------|---------|---------------------------------|
| 断续强度 |                   |         |                                 |
| 结构   | SL                | CB      | SL CB                           |
| 材质   | PNK0126           | PNK0107 | PNK0122 PNK3003 PNK3007 PNK3013 |
| 刃口   | S0102005 S0202010 |         |                                 |
| 涂层   | S/C3              |         |                                 |

| 图示 | ISO           | ANSI       | 刀片结构 |                   | 刃数 | ic   | φd   | S    | r   | la  |
|----|---------------|------------|------|-------------------|----|------|------|------|-----|-----|
|    | DNGA150404-2N | DNGA431-2N |      | □□ST22S           | 2  | 12.7 | 5.16 | 4.76 | 0.4 | 2.2 |
|    | 150408-2N     | 432-2N     |      |                   |    |      |      |      | 0.8 |     |
|    | 150412-2N     | 433-2N     |      |                   |    |      |      |      | 1.2 |     |
|    | DNGA150404-2N | DNGA431-2N |      | □□WGR22S (107.5°) | 2  |      |      |      | 0.4 |     |
|    | 150408-2N     | 432-2N     |      |                   |    |      |      |      | 0.8 |     |
|    | 150412-2N     | 433-2N     |      |                   |    |      |      |      | 1.2 |     |
|    | DNGA150404-2N | DNGA431-2N |      | □□ST30S           | 2  | 12.7 | 5.16 | 4.76 | 0.4 | 3.0 |
|    | 150408-2N     | 432-2N     |      |                   |    |      |      |      | 0.8 |     |
|    | 150412-2N     | 433-2N     |      |                   |    |      |      |      | 1.2 |     |
|    | DNGA150404-2N | DNGA431-2N |      | □□WGR30S (107.5°) | 2  |      |      |      | 0.4 |     |
|    | 150408-2N     | 432-2N     |      |                   |    |      |      |      | 0.8 |     |
|    | 150412-2N     | 433-2N     |      |                   |    |      |      |      | 1.2 |     |
|    | DNGA150408-2N | DNGA432-2N |      | □□ST40S           | 2  | 12.7 | 5.16 | 4.76 | 0.8 | 4.0 |
|    | 150412-2N     | 433-2N     |      |                   |    |      |      |      | 1.2 |     |
|    | 150416-2N     | 434-2N     |      |                   |    |      |      |      | 1.6 |     |
|    | DNGA150408-2N | DNGA432-2N |      | □□WGR40S (107.5°) | 2  |      |      |      | 0.8 |     |
|    | 150412-2N     | 433-2N     |      |                   |    |      |      |      | 1.2 |     |
|    | 150416-2N     | 434-2N     |      |                   |    |      |      |      | 1.6 |     |
|    | DNGA150404-4N | DNGA431-4N |      | □□ST22S           | 4  | 12.7 | 5.16 | 4.76 | 0.4 | 2.2 |
|    | 150408-4N     | 432-4N     |      |                   |    |      |      |      | 0.8 |     |
|    | 150412-4N     | 433-4N     |      |                   |    |      |      |      | 1.2 |     |
|    | DNGA150404-4N | DNGA431-4N |      | □□WGR22S (107.5°) | 4  |      |      |      | 0.4 |     |
|    | 150408-4N     | 432-4N     |      |                   |    |      |      |      | 0.8 |     |
|    | 150412-4N     | 433-4N     |      |                   |    |      |      |      | 1.2 |     |
|    | DNGA150404-4N | DNGA431-4N |      | □□ST30S           | 4  | 12.7 | 5.16 | 4.76 | 0.4 | 3.0 |
|    | 150408-4N     | 432-4N     |      |                   |    |      |      |      | 0.8 |     |
|    | 150412-4N     | 433-4N     |      |                   |    |      |      |      | 1.2 |     |
|    | DNGA150404-4N | DNGA431-4N |      | □□WGR30S (107.5°) | 4  |      |      |      | 0.4 |     |
|    | 150408-4N     | 432-4N     |      |                   |    |      |      |      | 0.8 |     |
|    | 150412-4N     | 433-4N     |      |                   |    |      |      |      | 1.2 |     |
|    | DNGA150408-4N | DNGA432-4N |      | □□ST40S           | 4  | 12.7 | 5.16 | 4.76 | 0.8 | 4.0 |
|    | 150412-4N     | 433-4N     |      |                   |    |      |      |      | 1.2 |     |
|    | 150416-4N     | 434-4N     |      |                   |    |      |      |      | 1.6 |     |
|    | DNGA150408-4N | DNGA432-4N |      | □□WGR40S (107.5°) | 4  |      |      |      | 0.8 |     |
|    | 150412-4N     | 433-4N     |      |                   |    |      |      |      | 1.2 |     |
|    | 150416-4N     | 434-4N     |      |                   |    |      |      |      | 1.6 |     |

PCBN 数控刀片--铸铁类

焊接式刀片

DN

55°菱形·负型·有孔  
PCBN 负型刀片

| K    |                   |         |         |                         |
|------|-------------------|---------|---------|-------------------------|
| 断续强度 |                   |         |         |                         |
| 结构   | SL                | CB      | SL      | CB                      |
| 材质   | PNK0126           | PNK0107 | PNK0122 | PNK3003 PNK3007 PNK3013 |
| 刃口   | S0102005 S0202010 |         |         |                         |
| 涂层   | S/C3              |         |         |                         |

| 图示 | ISO           | ANSI       | 刀片结构 |                   | 刃数 | ic   | φd   | S    | r   | la  |
|----|---------------|------------|------|-------------------|----|------|------|------|-----|-----|
|    | DNGA150604-2N | DNGA441-2N |      | □□ST22S           | 2  | 12.7 | 5.16 | 6.35 | 0.4 | 2.2 |
|    | 150608-2N     | 442-2N     |      | □□ST22S           | 2  |      |      |      | 0.8 |     |
|    | 150612-2N     | 443-2N     |      | □□ST22S           | 2  |      |      |      | 1.2 |     |
|    | DNGA150604-2N | DNGA441-2N |      | □□WGR22S (107.5°) | 2  |      |      |      | 0.4 |     |
|    | 150608-2N     | 442-2N     |      | □□WGR22S (107.5°) | 2  |      |      |      | 0.8 |     |
|    | 150612-2N     | 443-2N     |      | □□WGR22S (107.5°) | 2  |      |      |      | 1.2 |     |
|    | DNGA150604-2N | DNGA441-2N |      | □□ST30S           | 2  | 12.7 | 5.16 | 6.35 | 0.4 | 3.0 |
|    | 150608-2N     | 442-2N     |      | □□ST30S           | 2  |      |      |      | 0.8 |     |
|    | 150612-2N     | 443-2N     |      | □□ST30S           | 2  |      |      |      | 1.2 |     |
|    | DNGA150604-2N | DNGA441-2N |      | □□WGR30S (107.5°) | 2  |      |      |      | 0.4 |     |
|    | 150608-2N     | 442-2N     |      | □□WGR30S (107.5°) | 2  |      |      |      | 0.8 |     |
|    | 150612-2N     | 443-2N     |      | □□WGR30S (107.5°) | 2  |      |      |      | 1.2 |     |
|    | DNGA150608-2N | DNGA442-2N |      | □□ST40S           | 2  | 12.7 | 5.16 | 6.35 | 0.8 | 4.0 |
|    | 150612-2N     | 443-2N     |      | □□ST40S           | 2  |      |      |      | 1.2 |     |
|    | 150616-2N     | 444-2N     |      | □□ST40S           | 2  |      |      |      | 1.6 |     |
|    | DNGA150608-2N | DNGA442-2N |      | □□WGR40S (107.5°) | 2  |      |      |      | 0.8 |     |
|    | 150612-2N     | 443-2N     |      | □□WGR40S (107.5°) | 2  |      |      |      | 1.2 |     |
|    | 150616-2N     | 444-2N     |      | □□WGR40S (107.5°) | 2  |      |      |      | 1.6 |     |
|    | DNGA150604-4N | DNGA441-4N |      | □□ST22S           | 4  | 12.7 | 5.16 | 6.35 | 0.4 | 2.2 |
|    | 150608-4N     | 442-4N     |      | □□ST22S           | 4  |      |      |      | 0.8 |     |
|    | 150612-4N     | 443-4N     |      | □□ST22S           | 4  |      |      |      | 1.2 |     |
|    | DNGA150604-4N | DNGA441-4N |      | □□WGR22S (107.5°) | 4  |      |      |      | 0.4 |     |
|    | 150608-4N     | 442-4N     |      | □□WGR22S (107.5°) | 4  |      |      |      | 0.8 |     |
|    | 150612-4N     | 443-4N     |      | □□WGR22S (107.5°) | 4  |      |      |      | 1.2 |     |
|    | DNGA150604-4N | DNGA441-4N |      | □□ST30S           | 4  | 12.7 | 5.16 | 6.35 | 0.4 | 3.0 |
|    | 150608-4N     | 442-4N     |      | □□ST30S           | 4  |      |      |      | 0.8 |     |
|    | 150612-4N     | 443-4N     |      | □□ST30S           | 4  |      |      |      | 1.2 |     |
|    | DNGA150604-4N | DNGA441-4N |      | □□WGR30S (107.5°) | 4  |      |      |      | 0.4 |     |
|    | 150608-4N     | 442-4N     |      | □□WGR30S (107.5°) | 4  |      |      |      | 0.8 |     |
|    | 150612-4N     | 443-4N     |      | □□WGR30S (107.5°) | 4  |      |      |      | 1.2 |     |
|    | DNGA150608-4N | DNGA442-4N |      | □□ST40S           | 4  | 12.7 | 5.16 | 6.35 | 0.8 | 4.0 |
|    | 150612-4N     | 443-4N     |      | □□ST40S           | 4  |      |      |      | 1.2 |     |
|    | 150616-4N     | 444-4N     |      | □□ST40S           | 4  |      |      |      | 1.6 |     |
|    | DNGA150608-4N | DNGA442-4N |      | □□WGR40S (107.5°) | 4  |      |      |      | 0.8 |     |
|    | 150612-4N     | 443-4N     |      | □□WGR40S (107.5°) | 4  |      |      |      | 1.2 |     |
|    | 150616-4N     | 444-4N     |      | □□WGR40S (107.5°) | 4  |      |      |      | 1.6 |     |

PCBN 数控刀片--铸铁类

整体式刀片

DN

55°菱形·负型·整体  
PCBN 负型刀片

| K                            |                                                                                     |         |                                                                                     |          |
|------------------------------|-------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|----------|
| 断续强度                         |  |         |  |          |
| 结构                           | SS                                                                                  |         | SS                                                                                  |          |
| 材质                           | PNK0110                                                                             | PNK0118 | PNH3020 (S≤4.76mm)                                                                  |          |
| 刃口                           | E0000005                                                                            |         | S0102005                                                                            | S0202020 |
| 涂层                           | S/C3                                                                                |         |                                                                                     |          |
| 注释: PNK0118提供不大于4.76mm厚的刀片种类 |                                                                                     |         |                                                                                     |          |

| 图示 | ISO           | ANSI       | 刀片结构 |          | 刃数 | ic    | φd | S    | r   | la |
|----|---------------|------------|------|----------|----|-------|----|------|-----|----|
|    | DNGN110404-4N | DNGN331-4N |      | SSST110S | 4  | 9.525 | —  | 4.76 | 0.4 | 11 |
|    | 110408-4N     | 332-4N     |      | SSST110S | 4  |       |    |      | 0.8 |    |
|    | 110412-4N     | 333-4N     |      | SSST110S | 4  |       |    |      | 1.2 |    |

DN

55°菱形·负型·整体  
PCBN 负型刀片

| K    |                                                                                     |                                                                                     |
|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 断续强度 |  |  |
| 结构   | SS                                                                                  | SS                                                                                  |
| 材质   | PNK0110                                                                             | PNH3020 (S≤4.76mm)                                                                  |
| 刃口   | E0000005 S0102005 S0202020                                                          |                                                                                     |
| 涂层   | S/C3                                                                                |                                                                                     |

| 图示 | ISO           | ANSI       | 刀片结构 |          | 刃数 | ic   | φd   | S    | r   | la |
|----|---------------|------------|------|----------|----|------|------|------|-----|----|
|    | DNGN150408-4N | DNGN432-4N |      | SSST150S | 4  | 12.7 | —    | 4.76 | 0.8 | 15 |
|    | 150412-4N     | 433-4N     |      | SSST150S | 4  |      |      |      | 1.2 |    |
|    | 150416-4N     | 434-4N     |      | SSST150S | 4  |      |      |      | 1.6 |    |
|    | DNGX150408-4N | DNGX432-4N |      | SSST150S | 4  | 12.7 | —    | 4.76 | 0.8 | 15 |
|    | 150412-4N     | 433-4N     |      | SSST150S | 4  |      |      |      | 1.2 |    |
|    | 150416-4N     | 434-4N     |      | SSST150S | 4  |      |      |      | 1.6 |    |
|    | DNGA150408-4N | DNGA432-4N |      | SSST150S | 4  | 12.7 | 5.16 | 4.76 | 0.8 | 15 |
|    | 150412-4N     | 433-4N     |      | SSST150S | 4  |      |      |      | 1.2 |    |
|    | 150416-4N     | 434-4N     |      | SSST150S | 4  |      |      |      | 1.6 |    |

DN

55°菱形·负型·整体  
PCBN 负型刀片

| K    |                                                                                       |                                                                                       |
|------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 断续强度 |  |  |
| 结构   | SS                                                                                    | SS                                                                                    |
| 材质   | PNK0110                                                                               | PNH3020 (S≤4.76mm)                                                                    |
| 刃口   | E0000005 S0102005 S0202020                                                            |                                                                                       |
| 涂层   | S/C3                                                                                  |                                                                                       |

| 图示 | ISO           | ANSI       | 刀片结构 |          | 刃数 | ic   | φd | S    | r   | la |
|----|---------------|------------|------|----------|----|------|----|------|-----|----|
|    | DNGN150608-4N | DNGN442-4N |      | SSST150S | 4  | 12.7 | —  | 6.35 | 0.8 | 15 |
|    | 150612-4N     | 443-4N     |      | SSST150S | 4  |      |    |      | 1.2 |    |
|    | 150616-4N     | 444-4N     |      | SSST150S | 4  |      |    |      | 1.6 |    |
|    | DNGX150608-4N | DNGX442-4N |      | SSST150S | 4  | 12.7 | —  | 6.35 | 0.8 | 15 |
|    | 150612-4N     | 443-4N     |      | SSST150S | 4  |      |    |      | 1.2 |    |
|    | 150616-4N     | 444-4N     |      | SSST150S | 4  |      |    |      | 1.6 |    |

PCBN 数控刀片--铸铁类

焊接式刀片

|    |              |
|----|--------------|
| SN | 90°正方形·负型·有孔 |
|    | PCBN 负型刀片    |

|      |                   |         |         |                         |
|------|-------------------|---------|---------|-------------------------|
| K    |                   |         |         |                         |
| 断续强度 |                   |         |         |                         |
| 结构   | SL                | CB      | SL      | CB                      |
| 材质   | PNK0126           | PNK0107 | PNK0122 | PNK3003 PNK3007 PNK3013 |
| 刃口   | S0102005 S0202010 |         |         |                         |
| 涂层   | S/C3              |         |         |                         |

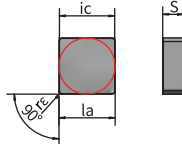
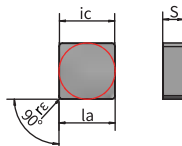
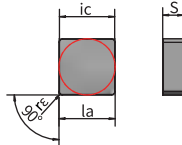
| 图示 | ISO           | ANSI       | 刀片结构 |         | 刃数 | ic   | φd   | S    | r   | la  |
|----|---------------|------------|------|---------|----|------|------|------|-----|-----|
|    | SNGA120404-4N | SNGA431-4N |      | □□ST22S | 4  | 12.7 | 5.16 | 4.76 | 0.4 | 2.2 |
|    | 120408-4N     | 432-4N     |      |         |    |      |      |      | 0.8 |     |
|    | 120412-4N     | 433-4N     |      |         |    |      |      |      | 1.2 |     |
|    |               |            |      |         |    |      |      |      |     |     |
|    | SNGA120404-4N | SNGA431-4N |      | □□ST30S | 4  | 12.7 | 5.16 | 4.76 | 0.4 | 3.0 |
|    | 120408-4N     | 432-4N     |      |         |    |      |      |      | 0.8 |     |
|    | 120412-4N     | 433-4N     |      |         |    |      |      |      | 1.2 |     |
|    | SNGA120408-4N | SNGA432-4N |      | □□ST40S | 4  | 12.7 | 5.16 | 4.76 | 0.8 | 4.0 |
|    | 120412-4N     | 433-4N     |      |         |    |      |      |      | 1.2 |     |
|    | 120416-4N     | 434-4N     |      |         |    |      |      |      | 1.8 |     |
|    | SNGA120404-8N | SNGA431-8N |      | □□ST22S | 8  | 12.7 | 5.16 | 4.76 | 0.4 | 2.2 |
|    | 120408-8N     | 432-8N     |      |         |    |      |      |      | 0.8 |     |
|    | 120412-8N     | 433-8N     |      |         |    |      |      |      | 1.2 |     |
|    | SNGA120404-8N | SNGA431-8N |      | □□ST30S | 8  | 12.7 | 5.16 | 4.76 | 0.4 | 3.0 |
|    | 120408-8N     | 432-8N     |      |         |    |      |      |      | 0.8 |     |
|    | 120412-8N     | 433-8N     |      |         |    |      |      |      | 1.2 |     |
|    | SNGA120408-8N | SNGA432-8N |      | □□ST40S | 8  | 12.7 | 5.16 | 4.76 | 0.8 | 4.0 |
|    | 120412-8N     | 433-8N     |      |         |    |      |      |      | 1.2 |     |
|    | 120416-8N     | 434-8N     |      |         |    |      |      |      | 1.6 |     |

PCBN 数控刀片--铸铁类

整体式刀片

|    |              |
|----|--------------|
| SN | 90°正方形·负型·整体 |
|    | PCBN 负型刀片    |

|                              |                                                                                                                                                                         |         |                                                                                                                                                                         |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| K                            |                                                                                                                                                                         |         |                                                                                                                                                                         |
| 断续强度                         |   |         |   |
| 结构                           | SS                                                                                                                                                                      |         | SS                                                                                                                                                                      |
| 材质                           | PNK0110                                                                                                                                                                 | PNK0118 | PNH3020 (S≤4.76mm)                                                                                                                                                      |
| 刃口                           | E0000005    S0102005    S0202020                                                                                                                                        |         |                                                                                                                                                                         |
| 涂层                           | S/C3                                                                                                                                                                    |         |                                                                                                                                                                         |
| 注釋: PNK0118提供不大于4.76mm厚的刀片种类 |                                                                                                                                                                         |         |                                                                                                                                                                         |

| 图示                                                                                    | ISO           | ANSI       | 刀片结构                                                                                  |          | 刃数 | ic     | φd | S    | r   | la     |
|---------------------------------------------------------------------------------------|---------------|------------|---------------------------------------------------------------------------------------|----------|----|--------|----|------|-----|--------|
|    | SNGN090304-8N | SNGN321-8N |    | SSST95S  | 8  | 9.525  | —  | 3.18 | 0.4 | 9.525  |
|                                                                                       | 90308-8N      | 322-8N     |                                                                                       |          |    |        |    |      | 0.8 |        |
|                                                                                       | 90312-8N      | 323-8N     |                                                                                       |          |    |        |    |      | 1.2 |        |
|                                                                                       | SNGN090404-8N | SNGN331-8N |    | SSST95S  | 8  | 9.525  | —  | 4.76 | 0.4 |        |
|                                                                                       | 90408-8N      | 332-8N     |                                                                                       |          |    |        |    |      | 0.8 |        |
|                                                                                       | 90412-8N      | 333-8N     |                                                                                       |          |    |        |    |      | 1.2 |        |
|    | SNGN120408-8N | SNGN432-8N |    | SSST127S | 8  | 12.7   | —  | 4.76 | 0.8 | 12.7   |
|                                                                                       | 120412-8N     | 433-8N     |                                                                                       |          |    |        |    |      | 1.2 |        |
|                                                                                       | 120416-8N     | 434-8N     |                                                                                       |          |    |        |    |      | 1.6 |        |
|                                                                                       | SNGX120408-8N | SNGX432-8N |    | SSST127S | 8  |        |    |      | 0.8 |        |
|                                                                                       | 120412-8N     | 433-8N     |                                                                                       |          |    |        |    |      | 1.2 |        |
|                                                                                       | 120416-8N     | 434-8N     |                                                                                       |          |    |        |    |      | 1.6 |        |
|  | SNGN120708-8N | SNGN452-8N |  | SSST127S | 8  | 12.7   | —  | 7.94 | 0.8 | 12.7   |
|                                                                                       | 120712-8N     | 453-8N     |                                                                                       |          |    |        |    |      | 1.2 |        |
|                                                                                       | 120716-8N     | 454-8N     |                                                                                       |          |    |        |    |      | 1.6 |        |
|                                                                                       | SNGX120708-8N | SNGX452-8N |  | SSST127S | 8  |        |    |      | 0.8 |        |
|                                                                                       | 120712-8N     | 453-8N     |                                                                                       |          |    |        |    |      | 1.2 |        |
|                                                                                       | 120716-8N     | 454-8N     |                                                                                       |          |    |        |    |      | 1.6 |        |
|                                                                                       | SNGN150708-8N | SNGN552-8N |  | SSST159S | 8  | 15.875 | —  | 7.94 | 0.8 | 15.875 |
|                                                                                       | 150712-8N     | 553-8N     |                                                                                       |          |    |        |    |      | 1.2 |        |
|                                                                                       | 150716-8N     | 554-8N     |                                                                                       |          |    |        |    |      | 1.6 |        |
|                                                                                       | SNGX150708-8N | SNGX552-8N |  | SSST159S | 8  |        |    |      | 0.8 |        |
|                                                                                       | 150712-8N     | 553-8N     |                                                                                       |          |    |        |    |      | 1.2 |        |
|                                                                                       | 150716-8N     | 554-8N     |                                                                                       |          |    |        |    |      | 1.6 |        |

PCBN 数控刀片--铸铁类

焊接/整体式刀片

|    |              |
|----|--------------|
| TN | 60°三角形·负型·有孔 |
|    | PCBN 负型刀片    |

|      |                   |         |         |                         |
|------|-------------------|---------|---------|-------------------------|
| K    |                   |         |         |                         |
| 断续强度 |                   |         |         |                         |
| 结构   | SL                | CB      | SL      | CB                      |
| 材质   | PNK0126           | PNK0107 | PNK0122 | PNK3003 PNK3007 PNK3013 |
| 刃口   | S0102005 S0202010 |         |         |                         |
| 涂层   | S/C3              |         |         |                         |

| 图示 | ISO           | ANSI       | 刀片结构 | 刃数 | ic    | φd   | S    | r   | la  |
|----|---------------|------------|------|----|-------|------|------|-----|-----|
|    | TNGA160404-3N | TNGA331-3N |      | 3  | 9.525 | 3.81 | 4.76 | 0.4 | 2.2 |
|    | 160408-3N     | 332-3N     |      |    |       |      |      | 0.8 |     |
|    | 160412-3N     | 333-3N     |      |    |       |      |      | 1.2 |     |
|    | TNGA160404-6N | TNGA331-6N |      | 6  | 9.525 | 3.81 | 4.76 | 0.4 | 2.2 |
|    | 160408-6N     | 332-6N     |      |    |       |      |      | 0.8 |     |
|    | 160412-6N     | 333-6N     |      |    |       |      |      | 1.2 |     |
|    | TNGA160404-3N | TNGA331-3N |      | 3  | 9.525 | 3.81 | 4.76 | 0.4 | 3.0 |
|    | 160408-3N     | 332-3N     |      |    |       |      |      | 0.8 |     |
|    | 160412-3N     | 333-3N     |      |    |       |      |      | 1.2 |     |
|    | TNGA160404-6N | TNGA331-6N |      | 6  | 9.525 | 3.81 | 4.76 | 0.4 | 3.0 |
|    | 160408-6N     | 332-6N     |      |    |       |      |      | 0.8 |     |
|    | 160412-6N     | 333-6N     |      |    |       |      |      | 1.2 |     |

|    |              |
|----|--------------|
| TN | 60°三角形·负型·整体 |
|    | PCBN 负型刀片    |

|                              |                                                                                      |         |                                                                                       |          |
|------------------------------|--------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------|----------|
| K                            |                                                                                      |         |                                                                                       |          |
| 断续强度                         |  |         |  |          |
| 结构                           | SS                                                                                   |         | SS                                                                                    |          |
| 材质                           | PNK0110                                                                              | PNK0118 | PNH3020 (S≤4.76mm)                                                                    |          |
| 刃口                           | E0000005                                                                             |         | S0102005                                                                              | S0202020 |
| 涂层                           | S/C3                                                                                 |         |                                                                                       |          |
| 注释: PNK0118提供不大于4.76mm厚的刀片种类 |                                                                                      |         |                                                                                       |          |

| 图示 | ISO           | ANSI       | 刀片结构 | 刃数 | ic    | φd | S    | r   | la |
|----|---------------|------------|------|----|-------|----|------|-----|----|
|    | TNGN160408-6N | TNGN332-6N |      | 6  | 9.525 | —  | 4.76 | 0.8 | 16 |
|    | 160412-6N     | 333-6N     |      |    |       |    |      | 1.2 |    |
|    | 160416-6N     | 334-6N     |      |    |       |    |      | 1.6 |    |

PCBN 数控刀片--铸铁类

焊接式刀片



|    |             |
|----|-------------|
| VN | 35°菱形·负型·有孔 |
|    | PCBN 负型刀片   |

|      |                   |         |         |                         |
|------|-------------------|---------|---------|-------------------------|
| K    |                   |         |         |                         |
| 断续强度 |                   |         |         |                         |
| 结构   | SL                | CB      | SL      | CB                      |
| 材质   | PNK0126           | PNK0107 | PNK0122 | PNK3003 PNK3007 PNK3013 |
| 刃口   | S0102005 S0202010 |         |         |                         |
| 涂层   | S/C3              |         |         |                         |

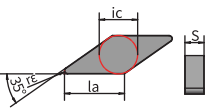
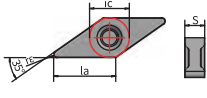
| 图示 | ISO           | ANSI       | 刀片结构 | 刃数 | ic    | φd   | S    | r   | la  |
|----|---------------|------------|------|----|-------|------|------|-----|-----|
|    | VNGA160404-2N | VNGA331-2N |      | 2  | 9.525 | 3.81 | 4.76 | 0.4 | 2.2 |
|    | 160408-2N     | 332-2N     |      |    |       |      |      | 0.8 |     |
|    | 160412-2N     | 333-2N     |      |    |       |      |      | 1.2 |     |
|    | VNGA160404-2N | VNGA331-2N |      | 2  | 9.525 | 3.81 | 4.76 | 0.4 | 3.0 |
|    | 160408-2N     | 332-2N     |      |    |       |      |      | 0.8 |     |
|    | 160412-2N     | 333-2N     |      |    |       |      |      | 1.2 |     |
|    | VNGA160408-2N | VNGA332-2N |      | 2  | 9.525 | 3.81 | 4.76 | 0.8 | 4.0 |
|    | 160412-2N     | 333-2N     |      |    |       |      |      | 1.2 |     |
|    | 160416-2N     | 334-2N     |      |    |       |      |      | 1.6 |     |
|    | VNGA160404-4N | VNGA331-4N |      | 4  | 9.525 | 3.81 | 4.76 | 0.4 | 2.2 |
|    | 160408-2N     | 332-4N     |      |    |       |      |      | 0.8 |     |
|    | 160412-4N     | 333-4N     |      |    |       |      |      | 1.2 |     |
|    | VNGA160404-4N | VNGA331-4N |      | 4  | 9.525 | 3.81 | 4.76 | 0.4 | 3.0 |
|    | 160408-2N     | 332-4N     |      |    |       |      |      | 0.8 |     |
|    | 160412-4N     | 333-4N     |      |    |       |      |      | 1.2 |     |
|    | VNGA160408-4N | VNGA332-4N |      | 4  | 9.525 | 3.81 | 4.76 | 0.8 | 4.0 |
|    | 160412-2N     | 333-4N     |      |    |       |      |      | 1.2 |     |
|    | 160416-4N     | 334-4N     |      |    |       |      |      | 1.6 |     |

PCBN 数控刀片--铸铁类

整体式刀片

|    |             |
|----|-------------|
| VN | 35°菱形·负型·整体 |
|    | PCBN 负型刀片   |

|      |                                                                                    |                                                                                     |                                                                                     |
|------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| K    |                                                                                    |                                                                                     |                                                                                     |
| 断续强度 |  |  |  |
| 结构   | SS                                                                                 |                                                                                     | SS                                                                                  |
| 材质   | PNK0110                                                                            |                                                                                     | PNK3020                                                                             |
| 刃口   | E0000005 S0102005 S0202020                                                         |                                                                                     |                                                                                     |
| 涂层   | S/C3                                                                               |                                                                                     |                                                                                     |

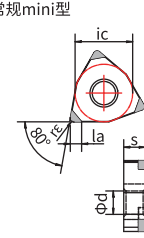
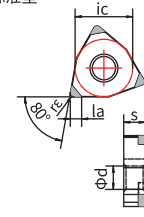
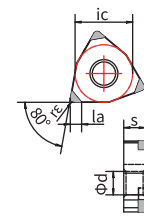
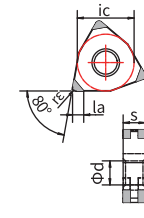
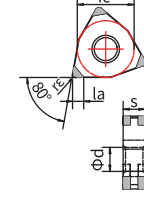
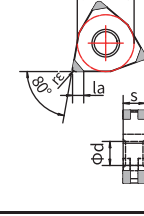
| 图示                                                                                | ISO           | ANSI       | 刀片结构                                                                              | 刃数 | ic    | φd | S    | r   | la |
|-----------------------------------------------------------------------------------|---------------|------------|-----------------------------------------------------------------------------------|----|-------|----|------|-----|----|
|  | VNGN160408-4N | VNGN332-4N |  | 4  | 9.525 | —  | 4.76 | 0.8 | 16 |
|                                                                                   | 160412-4N     | 333-4N     |                                                                                   |    |       |    |      | 1.2 |    |
|                                                                                   | 160416-4N     | 334-4N     |                                                                                   |    |       |    |      | 1.6 |    |
|  | VNGX160408-4N | VNGX332-4N |  | 4  | 9.525 | —  | 4.76 | 0.8 | 16 |
|                                                                                   | 160412-4N     | 333-4N     |                                                                                   |    |       |    |      | 1.2 |    |
|                                                                                   | 160416-4N     | 334-4N     |                                                                                   |    |       |    |      | 1.6 |    |

PCBN 数控刀片--铸铁类

焊接式刀片

|    |              |
|----|--------------|
| WN | 80°六边型·负型·有孔 |
|    | PCBN 负型刀片    |

|      |                                                                                     |                                                                                     |                                                                                     |
|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| K    |                                                                                     |                                                                                     |                                                                                     |
| 断续强度 |  |  |  |
| 结构   | SL                                                                                  | CB                                                                                  | SL CB                                                                               |
| 材质   | PNK0126                                                                             | PNK0107                                                                             | PNK0122 PNK3003 PNK3007 PNK3013                                                     |
| 刃口   | S0102005 S0202010                                                                   |                                                                                     |                                                                                     |
| 涂层   | S/C3                                                                                |                                                                                     |                                                                                     |

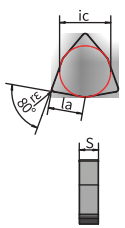
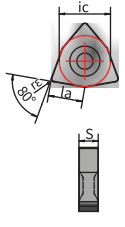
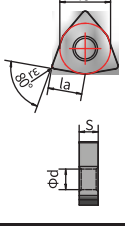
| 图示                                                                                               | ISO           | ANSI       | 刀片结构                                                                                  | 刃数 | ic   | φd   | S    | r   | la  |
|--------------------------------------------------------------------------------------------------|---------------|------------|---------------------------------------------------------------------------------------|----|------|------|------|-----|-----|
| 常规mini型<br>   | WNGA080404-3N | WNGA431-3N |    | 3  | 12.7 | 5.16 | 4.76 | 0.4 | 2.2 |
|                                                                                                  | 080408-3N     | 432-3N     |                                                                                       |    |      |      |      | 0.8 |     |
|                                                                                                  | 080412-3N     | 433-3N     |                                                                                       |    |      |      |      | 1.2 |     |
|                                                                                                  | WNGA080404-3N | WNGA431-3N |    | 3  | 12.7 | 5.16 | 4.76 | 0.4 | 2.2 |
|                                                                                                  | 080408-3N     | 432-3N     |                                                                                       |    |      |      |      | 0.8 |     |
|                                                                                                  | 080412-3N     | 433-3N     |                                                                                       |    |      |      |      | 1.2 |     |
| 标准型<br>      | WNGA080404-3N | WNGA431-3N |    | 3  | 12.7 | 5.16 | 4.76 | 0.4 | 3.0 |
|                                                                                                  | 080408-3N     | 432-3N     |                                                                                       |    |      |      |      | 0.8 |     |
|                                                                                                  | 080412-3N     | 433-3N     |                                                                                       |    |      |      |      | 1.2 |     |
|                                                                                                  | WNGA080404-3N | WNGA431-3N |    | 3  | 12.7 | 5.16 | 4.76 | 0.4 | 3.0 |
|                                                                                                  | 080408-3N     | 432-3N     |                                                                                       |    |      |      |      | 0.8 |     |
|                                                                                                  | 080412-3N     | 433-3N     |                                                                                       |    |      |      |      | 1.2 |     |
| 长刃型<br>     | WNGA080408-3N | WNGA432-3N |  | 3  | 12.7 | 5.16 | 4.76 | 0.8 | 4.0 |
|                                                                                                  | 080412-3N     | 433-3N     |                                                                                       |    |      |      |      | 1.2 |     |
|                                                                                                  | 080416-3N     | 434-3N     |                                                                                       |    |      |      |      | 1.6 |     |
|                                                                                                  | WNGA080408-3N | WNGA432-3N |  | 3  | 12.7 | 5.16 | 4.76 | 0.8 | 4.0 |
|                                                                                                  | 080412-3N     | 433-3N     |                                                                                       |    |      |      |      | 1.2 |     |
|                                                                                                  | 080416-3N     | 434-3N     |                                                                                       |    |      |      |      | 1.6 |     |
| 常规mini型<br> | WNGA080404-6N | WNGA431-6N |  | 6  | 12.7 | 5.16 | 4.76 | 0.4 | 2.2 |
|                                                                                                  | 080408-6N     | 432-6N     |                                                                                       |    |      |      |      | 0.8 |     |
|                                                                                                  | 080412-6N     | 433-6N     |                                                                                       |    |      |      |      | 1.2 |     |
|                                                                                                  | WNGA080404-6N | WNGA431-6N |  | 6  | 12.7 | 5.16 | 4.76 | 0.4 | 2.2 |
|                                                                                                  | 080408-6N     | 432-6N     |                                                                                       |    |      |      |      | 0.8 |     |
|                                                                                                  | 080412-6N     | 433-6N     |                                                                                       |    |      |      |      | 1.2 |     |
| 标准型<br>     | WNGA080404-6N | WNGA431-6N |  | 6  | 12.7 | 5.16 | 4.76 | 0.4 | 3.0 |
|                                                                                                  | 080408-6N     | 432-6N     |                                                                                       |    |      |      |      | 0.8 |     |
|                                                                                                  | 080412-6N     | 433-6N     |                                                                                       |    |      |      |      | 1.2 |     |
|                                                                                                  | WNGA080404-6N | WNGA431-6N |  | 6  | 12.7 | 5.16 | 4.76 | 0.4 | 3.0 |
|                                                                                                  | 080408-6N     | 432-6N     |                                                                                       |    |      |      |      | 0.8 |     |
|                                                                                                  | 080412-6N     | 433-6N     |                                                                                       |    |      |      |      | 1.2 |     |
| 长刃型<br>     | WNGA080408-6N | WNGA432-6N |  | 6  | 12.7 | 5.16 | 4.76 | 0.8 | 4.0 |
|                                                                                                  | 080412-6N     | 433-6N     |                                                                                       |    |      |      |      | 1.2 |     |
|                                                                                                  | 080416-6N     | 434-6N     |                                                                                       |    |      |      |      | 1.6 |     |
|                                                                                                  | WNGA080408-6N | WNGA432-6N |  | 6  | 12.7 | 5.16 | 4.76 | 0.8 | 4.0 |
|                                                                                                  | 080412-6N     | 433-6N     |                                                                                       |    |      |      |      | 1.2 |     |
|                                                                                                  | 080416-6N     | 434-6N     |                                                                                       |    |      |      |      | 1.6 |     |

PCBN 数控刀片--铸铁类

整体式刀片

|    |              |
|----|--------------|
| WN | 80°六边型·负型·整体 |
|    | PCBN 负型刀片    |

|                             |                                                                                                                                                                      |                                                                                                                                                                         |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| K                           |                                                                                                                                                                      |                                                                                                                                                                         |
| 断续强度                        |   |   |
| 结构                          | SS                                                                                                                                                                   | SS                                                                                                                                                                      |
| 材质                          | PNK0110    PNK0118                                                                                                                                                   | PNH3020 (S≤4.76mm)                                                                                                                                                      |
| 刃口                          | E0000005    S0102005    S0202020                                                                                                                                     |                                                                                                                                                                         |
| 涂层                          | S/C3                                                                                                                                                                 |                                                                                                                                                                         |
| 注释：PNK0118提供不大于4.76mm厚的刀片种类 |                                                                                                                                                                      |                                                                                                                                                                         |

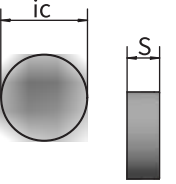
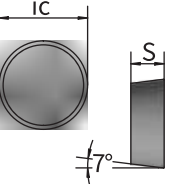
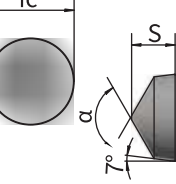
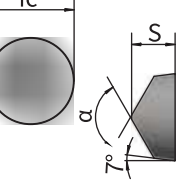
| 图示                                                                                  | ISO           | ANSI       | 刀片结构                                                                                |          | 刃数 | ic   | φd   | S    | r   | la |
|-------------------------------------------------------------------------------------|---------------|------------|-------------------------------------------------------------------------------------|----------|----|------|------|------|-----|----|
|    | WNGN080408-6N | WNGN432-6N |    | SSST80S  | 6  | 12.7 | —    | 4.76 | 0.8 | 8  |
|                                                                                     | 080412-6N     | 433-6N     |                                                                                     |          |    |      |      |      | 1.2 |    |
|                                                                                     | 080416-6N     | 434-6N     |                                                                                     |          |    |      |      |      | 1.6 |    |
|                                                                                     | WNGN080408-6N | WNGN432-6N |    | SSWGR80S | 6  |      |      |      | 0.8 |    |
|                                                                                     | 080412-6N     | 433-6N     |                                                                                     |          |    |      |      |      | 1.2 |    |
|                                                                                     | 080416-6N     | 434-6N     |                                                                                     |          |    |      |      |      | 1.6 |    |
|   | WNGX080408-6N | WNGX432-6N |    | SSST80S  | 6  | 12.7 | —    | 4.76 | 0.8 | 8  |
|                                                                                     | 080412-6N     | 433-6N     |                                                                                     |          |    |      |      |      | 1.2 |    |
|                                                                                     | 080416-6N     | 434-6N     |                                                                                     |          |    |      |      |      | 1.6 |    |
|                                                                                     | WNGX080408-6N | WNGX432-6N |   | SSWGR80S | 6  |      |      |      | 0.8 |    |
|                                                                                     | 080412-6N     | 433-6N     |                                                                                     |          |    |      |      |      | 1.2 |    |
|                                                                                     | 080416-6N     | 434-6N     |                                                                                     |          |    |      |      |      | 1.6 |    |
|  | WNGA080408-6N | WNGA432-6N |  | SSST80S  | 6  | 12.7 | 5.16 | 4.76 | 0.8 | 8  |
|                                                                                     | 080412-6N     | 433-6N     |                                                                                     |          |    |      |      |      | 1.2 |    |
|                                                                                     | 080416-6N     | 434-6N     |                                                                                     |          |    |      |      |      | 1.6 |    |
|                                                                                     | WNGA080408-6N | WNGA432-6N |  | SSWGR80S | 6  |      |      |      | 0.8 |    |
|                                                                                     | 080412-6N     | 433-6N     |                                                                                     |          |    |      |      |      | 1.2 |    |
|                                                                                     | 080416-6N     | 434-6N     |                                                                                     |          |    |      |      |      | 1.6 |    |

PCBN 数控刀片--铸铁类

整体式刀片

|       |        |
|-------|--------|
| RN/RC | 圆形·整体  |
|       | PCBN圆片 |

|                             |                                                                                                                                                                         |                                                                                                                                                                         |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| K                           |                                                                                                                                                                         |                                                                                                                                                                         |
| 断续强度                        |   |   |
| 结构                          | SS                                                                                                                                                                      | SS                                                                                                                                                                      |
| 材质                          | PNK0110    PNK0118                                                                                                                                                      | PNH3020 (S≤4.76mm)                                                                                                                                                      |
| 刃口                          | E0000005    S0102005    S0202020                                                                                                                                        |                                                                                                                                                                         |
| 涂层                          | S/C3                                                                                                                                                                    |                                                                                                                                                                         |
| 注释：PNK0118提供不大于4.76mm厚的刀片种类 |                                                                                                                                                                         |                                                                                                                                                                         |

| 图示                                                                                    | ISO          | ANSI       | 刀片结构                                                                                  |          | 刃数 | ic     | φd | S    | r | la |
|---------------------------------------------------------------------------------------|--------------|------------|---------------------------------------------------------------------------------------|----------|----|--------|----|------|---|----|
|    | RNGN060300   | RNGN22     |    | SSST64S  | —  | 6.35   | —  | 3.18 | — | —  |
|                                                                                       | RNGN090300   | RNGN32     |                                                                                       | SSST95S  |    | 9.525  |    | 3.18 |   |    |
|                                                                                       | RNGN090400   | RNGN33     |                                                                                       | SSST95S  |    | 9.525  |    | 4.76 |   |    |
|                                                                                       | RNGN120300   | RNGN42     |                                                                                       | SSST127S |    | 12.7   |    | 3.18 |   |    |
|                                                                                       | RNGN120400   | RNGN43     |                                                                                       | SSST127S |    | 12.7   |    | 4.76 |   |    |
|                                                                                       | RNGN120700   | RNGN45     |                                                                                       | SSST127S |    | 12.7   |    | 7.94 |   |    |
|                                                                                       | RNGN150700   | RNGN55     |                                                                                       | SSST159S |    | 15.875 |    | 7.94 |   |    |
|                                                                                       | RNGN190400   | RNGN63     |                                                                                       | SSST190S |    | 19.05  |    | 4.76 |   |    |
|                                                                                       | RNGN190700   | RNGN65     |                                                                                       | SSST190S |    | 19.05  |    | 7.94 |   |    |
|                                                                                       | RNGN200800   | —          |                                                                                       | SSST200S |    | 20     |    | 8    |   |    |
|                                                                                       | RNGN201000   | —          |                                                                                       | SSST200S |    | 20     |    | 10   |   |    |
|                                                                                       | RNGN250400   | RNGN83     |                                                                                       | SSST254S |    | 25.4   |    | 4.76 |   |    |
|                                                                                       | RNGN250700   | RNGN85     |                                                                                       | SSST254S |    | 25.4   |    | 7.94 |   |    |
|                                                                                       | RCGN0603MO   | —          |                                                                                       | SSST60S  |    | 6      |    | 3.18 |   |    |
|                                                                                       | RCGN060300   | RCGN22     |                                                                                       | SSST64S  |    | 6.35   |    | 3.18 |   |    |
|   | RCGN090300   | RCGN32     |  | SSST95S  | —  | 9.525  | —  | 3.18 | — | —  |
|                                                                                       | RCGN090400   | RCGN33     |                                                                                       | SSST95S  |    | 9.525  |    | 4.76 |   |    |
|                                                                                       | RCGN120300   | RCGN42     |                                                                                       | SSST127S |    | 12.7   |    | 3.18 |   |    |
|                                                                                       | RCGN120400   | RCGN43     |                                                                                       | SSST127S |    | 12.7   |    | 4.76 |   |    |
|                                                                                       | RCGN120700   | RCGN45     |                                                                                       | SSST127S |    | 12.7   |    | 7.94 |   |    |
|                                                                                       | RCGX060400   | RCGX23     |                                                                                       | SSST64S  |    | 6.35   |    | 4.76 |   |    |
|                                                                                       | RCGX060500   | RCGX2(3.5) |                                                                                       | SSST64S  |    | 6.35   |    | 5.56 |   |    |
|  | RCGX090400   | RCGX33     |  | SSST95S  | —  | 9.525  | —  | 4.76 | — | —  |
|                                                                                       | RCGX100400   | —          |                                                                                       | SSST100S |    | 10     |    | 4.76 |   |    |
|                                                                                       | RCGX120700   | RCGX45     |                                                                                       | SSST127S |    | 12.7   |    | 7.94 |   |    |
|                                                                                       | RCGX150700   | RCGX55     |                                                                                       | SSST190S |    | 15.875 |    | 7.94 |   |    |
|                                                                                       | RCGX191000   | —          |                                                                                       | SSST190S |    | 19.05  |    | 10   |   |    |
|                                                                                       | RCGX201200   | —          |                                                                                       | SSST200S |    | 20     |    | 12   |   |    |
|                                                                                       | RCGX060400-V | RCGX23     |                                                                                       | SSST64S  |    | 6.35   |    | 4.76 |   |    |
|  | RCGX080400-V | —          |  | SSST80S  | —  | 8      | —  | 4.76 | — | —  |
|                                                                                       |              |            |                                                                                       |          |    |        |    |      |   |    |

PCBN 数控刀片--铸铁类

整面式刀片

|       |        |
|-------|--------|
| RN/RC | 圆形·整面  |
|       | PCBN圆片 |

|      |          |          |          |
|------|----------|----------|----------|
| K    |          |          |          |
| 断续强度 |          |          |          |
| 结构   | SF       | SF       | SF       |
| 材质   | PNK0107  | PNK3003  | PNK3007  |
| 刃口   | E0000005 | S0102005 | S0202020 |
| 涂层   | S/C3     |          |          |

| 图示 | ISO          | ANSI           | 刀片结构 | 刃数 | ic     | φd | S    | r | la |
|----|--------------|----------------|------|----|--------|----|------|---|----|
|    | RNGN060300   | RNGN22         |      | —  | 6.35   | —  | 3.18 | — | —  |
|    | RNGN090300   | RNGN32         |      |    | 9.525  |    | 3.18 |   |    |
|    | RNGN090400   | RNGN33         |      |    | 9.525  |    | 4.76 |   |    |
|    | RNGN120300   | RNGN42         |      |    | 12.7   |    | 3.18 |   |    |
|    | RNGN120400   | RNGN43         |      |    | 12.7   |    | 4.76 |   |    |
|    | RNGN120700   | RNGN45         |      |    | 12.7   |    | 7.94 |   |    |
|    | RNGN150700   | RNGN55         |      |    | 15.875 |    | 7.94 |   |    |
|    | RCGN0603MO   | —              |      | —  | 6      | —  | 3.18 | — | —  |
|    | RCGN060300   | RCGN22         |      |    | 6.35   |    | 3.18 |   |    |
|    | RCGN090300   | RCGN32         |      |    | 9.525  |    | 3.18 |   |    |
|    | RCGN090400   | RCGN33         |      |    | 9.525  |    | 4.76 |   |    |
|    | RCGN120300   | RCGN42         |      |    | 12.7   |    | 3.18 |   |    |
|    | RCGN120400   | RCGN43         |      |    | 12.7   |    | 4.76 |   |    |
|    | RCGN120700   | RCGN45         |      |    | 12.7   |    | 7.94 |   |    |
|    | RCGX060400   | RCGX23         |      | —  | 6.35   | —  | 4.76 | — | —  |
|    | RCGX060500   | RCGX2(3.5)     |      |    | 6.35   |    | 5.56 |   |    |
|    | RCGX090400   | RCGX33         |      |    | 9.525  |    | 4.76 |   |    |
|    | RCGX100400   | —              |      |    | 10     |    | 4.76 |   |    |
|    | RCGX120700   | RCGX45         |      |    | 12.7   |    | 7.94 |   |    |
|    | —            | —              |      |    | —      |    | —    |   |    |
|    | —            | —              |      |    | —      |    | —    |   |    |
|    | RCGX060400-V | RCGX23         |      | —  | 6.35   | —  | 4.76 | — | —  |
|    | RCGX080400-V | —              |      |    | 8      |    | 4.76 |   |    |
|    | RCGW050200   | RCGW(1.8)(1.5) |      | —  | 5.56   | —  | 2.38 | — | —  |
|    | RCGW060300   | RCGW22         |      |    | 6.35   |    | 3.18 |   |    |

PCBN 数控刀片--粉末冶金类

焊接式刀片

|    |             |
|----|-------------|
| CC | 80°菱形·正型·有孔 |
|    | PCBN 正型刀片   |

|      |          |          |                         |
|------|----------|----------|-------------------------|
| S    |          |          |                         |
| 断续强度 |          |          |                         |
| 结构   | SL       | CB       | CB                      |
| 材质   | PNS0126  | PNS0117  | PNS2005 PNS2007 PNS2019 |
| 刃口   | E0000005 | S0101505 | S0153510                |
| 涂层   | S/C3     |          |                         |

| 图示          | ISO           | ANSI           | 刀片结构 | 刃数 | ic   | φd  | S    | r   | la  |
|-------------|---------------|----------------|------|----|------|-----|------|-----|-----|
| 常规mini型<br> | CCGW060204-2N | CCGW2(1.5)1-2N |      | 2  | 6.35 | 2.8 | 2.38 | 0.4 | 2.2 |
|             | 060208-2N     | 2(1.5)2-2N     |      |    |      |     |      |     |     |
|             | CCGW060204-2N | CCGW2(1.5)1-2N |      |    |      |     |      |     |     |
|             | 060208-2N     | 2(1.5)2-2N     |      |    |      |     |      |     |     |
| 标准型<br>     | CCGW060204-2N | CCGW2(1.5)1-2N |      | 2  | 6.35 | 2.8 | 2.38 | 0.4 | 3.0 |
|             | 060208-2N     | 2(1.5)2-2N     |      |    |      |     |      |     |     |
|             | CCGW060204-2N | CCGW2(1.5)1-2N |      |    |      |     |      |     |     |
|             | 060208-2N     | 2(1.5)2-2N     |      |    |      |     |      |     |     |

|    |             |
|----|-------------|
| CC | 80°菱形·正型·有孔 |
|    | PCBN 正型刀片   |

|      |          |          |                         |
|------|----------|----------|-------------------------|
| S    |          |          |                         |
| 断续强度 |          |          |                         |
| 结构   | SL       | CB       | CB                      |
| 材质   | PNS0126  | PNS0117  | PNS2005 PNS2007 PNS2019 |
| 刃口   | E0000005 | S0101505 | S0153510                |
| 涂层   | S/C3     |          |                         |

| 图示          | ISO           | ANSI           | 刀片结构 | 刃数 | ic    | φd  | S    | r   | la  |
|-------------|---------------|----------------|------|----|-------|-----|------|-----|-----|
| 常规mini型<br> | CCGW09T304-2N | CCGW3(2.5)1-2N |      | 2  | 9.525 | 4.4 | 3.97 | 0.4 | 2.2 |
|             | 09T308-2N     | 3(2.5)2-2N     |      |    |       |     |      |     |     |
|             | CCGW09T304-2N | CCGW3(2.5)1-2N |      |    |       |     |      |     |     |
|             | 09T308-2N     | 3(2.5)2-2N     |      |    |       |     |      |     |     |
| 标准型<br>     | CCGW09T304-2N | CCGW3(2.5)1-2N |      | 2  | 9.525 | 4.4 | 3.97 | 0.4 | 3.0 |
|             | 09T308-2N     | 3(2.5)2-2N     |      |    |       |     |      |     |     |
|             | CCGW09T304-2N | CCGW3(2.5)1-2N |      |    |       |     |      |     |     |
|             | 09T308-2N     | 3(2.5)2-2N     |      |    |       |     |      |     |     |

PCBN 数控刀片--粉末冶金类

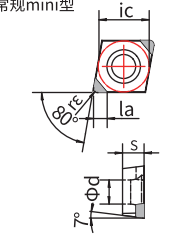
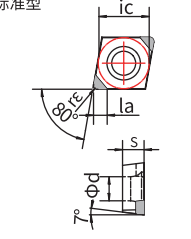
焊接式刀片

CC

80°菱形·正型·有孔

PCBN 正型刀片

| S    |                                                                                   |                                                                                     |                                                                                     |
|------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 断续强度 |  |  |  |
| 结构   | SL                                                                                | CB                                                                                  | CB                                                                                  |
| 材质   | PNS0126                                                                           | PNS0117                                                                             | PNS2005   PNS2007<br>PNS2019                                                        |
| 刃口   | E0000005   S0101505   S0153510                                                    |                                                                                     |                                                                                     |
| 涂层   | S/C3                                                                              |                                                                                     |                                                                                     |

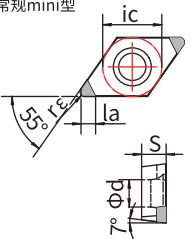
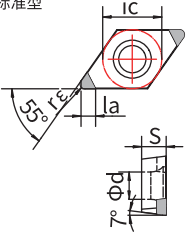
| 图示                                                                                 | ISO           | ANSI       | 刀片结构                                                                              |          | 刃数 | ic   | φd  | S    | r   | la  |
|------------------------------------------------------------------------------------|---------------|------------|-----------------------------------------------------------------------------------|----------|----|------|-----|------|-----|-----|
|   | CCGW120404-2N | CCGW431-2N |  | □□ST22S  | 2  | 12.7 | 5.5 | 4.76 | 0.4 | 2.2 |
|                                                                                    | 120408-2N     | 432-2N     |                                                                                   |          |    |      |     |      | 0.8 |     |
|                                                                                    | CCGW120404-2N | CCGW431-2N |  | □□WGR22S | 2  |      |     |      | 0.4 |     |
|                                                                                    | 120408-2N     | 432-2N     |                                                                                   |          |    |      |     |      | 0.8 |     |
|  | CCGW120404-2N | CCGW431-2N |  | □□ST30S  | 2  | 12.7 | 5.5 | 4.76 | 0.4 | 3.0 |
|                                                                                    | 120408-2N     | 432-2N     |                                                                                   |          |    |      |     |      | 0.8 |     |
|                                                                                    | CCGW120404-2N | CCGW431-2N |  | □□WGR30S | 2  |      |     |      | 0.4 |     |
|                                                                                    | 120408-2N     | 432-2N     |                                                                                   |          |    |      |     |      | 0.8 |     |

DC

55°菱形·正型·有孔

PCBN 正型刀片

| S    |                                                                                     |                                                                                       |                                                                                       |
|------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 断续强度 |  |  |  |
| 结构   | SL                                                                                  | CB                                                                                    | CB                                                                                    |
| 材质   | PNS0126                                                                             | PNS0117                                                                               | PNS2005   PNS2007<br>PNS2019                                                          |
| 刃口   | E0000005   S0101505   S0153510                                                      |                                                                                       |                                                                                       |
| 涂层   | S/C3                                                                                |                                                                                       |                                                                                       |

| 图示                                                                                  | ISO           | ANSI           | 刀片结构                                                                                |                   | 刃数 | ic   | φd  | S    | r   | la  |
|-------------------------------------------------------------------------------------|---------------|----------------|-------------------------------------------------------------------------------------|-------------------|----|------|-----|------|-----|-----|
|  | DCGW070204-2N | DCGW2(1.5)1-2N |  | □□ST22S           | 2  | 6.35 | 2.8 | 2.38 | 0.4 | 2.2 |
|                                                                                     | 070208-2N     | 2(1.5)2-2N     |                                                                                     |                   |    |      |     |      | 0.8 |     |
|                                                                                     | DCGW070204-2N | DCGW2(1.5)1-2N |  | □□WGR22S (107.5°) | 2  |      |     |      | 0.4 |     |
|                                                                                     | 070208-2N     | 2(1.5)2-2N     |                                                                                     |                   |    |      |     |      | 0.8 |     |
|  | DCGW070204-2N | DCGW2(1.5)1-2N |  | □□ST30S           | 2  | 6.35 | 2.8 | 2.38 | 0.4 | 3.0 |
|                                                                                     | 070208-2N     | 2(1.5)2-2N     |                                                                                     |                   |    |      |     |      | 0.8 |     |
|                                                                                     | DCGW070204-2N | DCGW2(1.5)1-2N |  | □□WGR30S (107.5°) | 2  |      |     |      | 0.4 |     |
|                                                                                     | 070208-2N     | 2(1.5)2-2N     |                                                                                     |                   |    |      |     |      | 0.8 |     |

PCBN 数控刀片--粉末冶金类

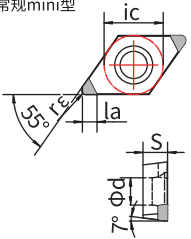
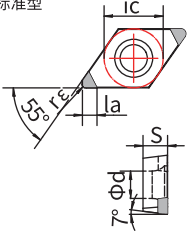
焊接式刀片

DC

55°菱形·正型·有孔

PCBN 正型刀片

| S    |                                                                                     |                                                                                     |                                                                                     |
|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 断续强度 |  |  |  |
| 结构   | SL                                                                                  | CB                                                                                  | CB                                                                                  |
| 材质   | PNS0126                                                                             | PNS0117                                                                             | PNS2005   PNS2007<br>PNS2019                                                        |
| 刃口   | E0000005   S0101505   S0153510                                                      |                                                                                     |                                                                                     |
| 涂层   | S/C3                                                                                |                                                                                     |                                                                                     |

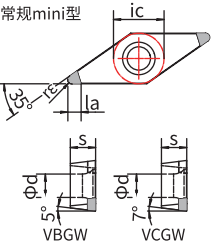
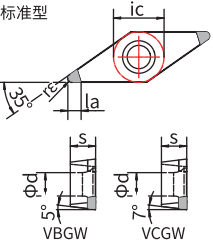
| 图示                                                                                   | ISO           | ANSI           | 刀片结构                                                                                |                   | 刃数 | ic    | φd  | S    | r   | la  |
|--------------------------------------------------------------------------------------|---------------|----------------|-------------------------------------------------------------------------------------|-------------------|----|-------|-----|------|-----|-----|
|   | DCGW11T304-2N | DCGW3(2.5)1-2N |  | □□ST22S           | 2  | 9.525 | 4.4 | 3.97 | 0.4 | 2.2 |
|                                                                                      | 11T308-2N     | 3(2.5)2-2N     |                                                                                     |                   |    |       |     |      | 0.8 |     |
|                                                                                      | DCGW11T304-2N | DCGW3(2.5)1-2N |  | □□WGR22S (107.5°) | 2  |       |     |      | 0.4 |     |
|                                                                                      | 11T308-2N     | 3(2.5)2-2N     |                                                                                     |                   |    |       |     |      | 0.8 |     |
|  | DCGW11T304-2N | DCGW3(2.5)1-2N |  | □□ST30S           | 2  | 9.525 | 4.4 | 3.97 | 0.4 | 3.0 |
|                                                                                      | 11T308-2N     | 3(2.5)2-2N     |                                                                                     |                   |    |       |     |      | 0.8 |     |
|                                                                                      | DCGW11T304-2N | DCGW3(2.5)1-2N |  | □□WGR30S (107.5°) | 2  |       |     |      | 0.4 |     |
|                                                                                      | 11T308-2N     | 3(2.5)2-2N     |                                                                                     |                   |    |       |     |      | 0.8 |     |

PCBN 数控刀片--粉末冶金类

焊接式刀片

|       |             |
|-------|-------------|
| VB/VC | 35°菱形•正型•有孔 |
|       | PCBN 正型刀片   |

|      |                            |         |                            |
|------|----------------------------|---------|----------------------------|
| S    |                            |         |                            |
| 断续强度 |                            |         |                            |
| 结构   | SL                         | CB      | CB                         |
| 材质   | PNS0126                    | PNS0117 | PNS2005 PNS2007<br>PNS2019 |
| 刃口   | E0000005 S0101505 S0153510 |         |                            |
| 涂层   | S/C3                       |         |                            |

| 图示                                                                                                   | ISO           | ANSI       | 刀片结构                                                                              |         | 刃数 | ic    | φd  | S    | r   | la  |
|------------------------------------------------------------------------------------------------------|---------------|------------|-----------------------------------------------------------------------------------|---------|----|-------|-----|------|-----|-----|
| <div>常规mini型</div>  | VBGW160404-2N | VBGW331-2N |  | □□ST22S | 2  | 9.525 | 4.4 | 4.76 | 0.4 | 2.2 |
|                                                                                                      | 160408-2N     | 332-2N     |                                                                                   | 0.8     |    |       |     |      |     |     |
|                                                                                                      | VCGW160404-2N | VCGW331-2N |  | □□ST22S | 2  |       |     |      | 0.4 |     |
|                                                                                                      | 160408-2N     | 332-2N     |                                                                                   | 0.8     |    |       |     |      |     |     |
| <div>标准型</div>     | VBGW160404-2N | VBGW331-2N |  | □□ST30S | 2  | 9.525 | 4.4 | 4.76 | 0.4 | 3.0 |
|                                                                                                      | 160408-2N     | 332-2N     |                                                                                   | 0.8     |    |       |     |      |     |     |
|                                                                                                      | VCGW160404-2N | VCGW331-2N |  | □□ST30S | 2  |       |     |      | 0.4 |     |
|                                                                                                      | 160408-2N     | 332-2N     |                                                                                   | 0.8     |    |       |     |      |     |     |

PCBN 数控刀片--粉末冶金类

焊接式刀片

|    |             |
|----|-------------|
| CN | 80°菱形•负型•有孔 |
|    | PCBN 负型刀片   |

|      |                            |         |                            |
|------|----------------------------|---------|----------------------------|
| S    |                            |         |                            |
| 断续强度 |                            |         |                            |
| 结构   | SL                         | CB      | CB                         |
| 材质   | PNS0126                    | PNS0117 | PNS2005 PNS2007<br>PNS2019 |
| 刃口   | E0000005 S0101505 S0153510 |         |                            |
| 涂层   | S/C3                       |         |                            |

| 图示 | ISO           | ANSI       | 刀片结构 |          | 刃数 | ic   | φd   | S    | r   | la  |
|----|---------------|------------|------|----------|----|------|------|------|-----|-----|
|    | CNGA120404-2N | CNGA431-2N |      | □□ST22S  | 2  | 12.7 | 5.16 | 4.76 | 0.4 | 2.2 |
|    | 120408-2N     | 432-2N     |      |          |    |      |      |      | 0.8 |     |
|    | CNGA120404-2N | CNGA431-2N |      | □□WGR22S | 2  |      |      |      | 0.4 |     |
|    | 120408-2N     | 432-2N     |      |          |    |      |      |      | 0.8 |     |
|    | CNGA120404-2N | CNGA431-2N |      | □□ST30S  | 2  | 12.7 | 5.16 | 4.76 | 0.4 | 3.0 |
|    | 120408-2N     | 432-2N     |      |          |    |      |      |      | 0.8 |     |
|    | CNGA120404-2N | CNGA431-2N |      | □□WGR30S | 2  |      |      |      | 0.4 |     |
|    | 120408-2N     | 432-2N     |      |          |    |      |      |      | 0.8 |     |
|    | CNGA120404-4N | CNGA431-4N |      | □□ST22S  | 4  | 12.7 | 5.16 | 4.76 | 0.4 | 2.2 |
|    | 120408-4N     | 432-4N     |      |          |    |      |      |      | 0.8 |     |
|    | CNGA120404-4N | CNGA431-4N |      | □□WGR22S | 4  |      |      |      | 0.4 |     |
|    | 120408-4N     | 432-4N     |      |          |    |      |      |      | 0.8 |     |
|    | CNGA120404-4N | CNGA431-4N |      | □□ST30S  | 4  | 12.7 | 5.16 | 4.76 | 0.4 | 3.0 |
|    | 120408-4N     | 432-4N     |      |          |    |      |      |      | 0.8 |     |
|    | CNGA120404-4N | CNGA431-4N |      | □□WGR30S | 4  |      |      |      | 0.4 |     |
|    | 120408-4N     | 432-4N     |      |          |    |      |      |      | 0.8 |     |

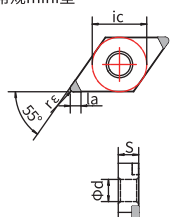
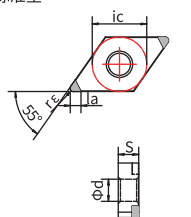
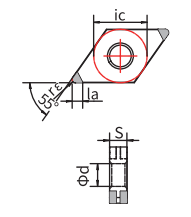
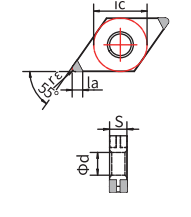
PCBN 数控刀片--粉末冶金类

焊接式刀片

DN

55°菱形·负型·有孔  
PCBN 负型刀片

| S    |                                                                                    |                                                                                     |                                                                                     |
|------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 断续强度 |  |  |  |
| 结构   | SL                                                                                 | CB                                                                                  | CB                                                                                  |
| 材质   | PNS0126                                                                            | PNS0117                                                                             | PNS2005 PNS2007<br>PNS2019                                                          |
| 刃口   | E0000005 S0101505 S0153510                                                         |                                                                                     |                                                                                     |
| 涂层   | S/C3                                                                               |                                                                                     |                                                                                     |

| 图示                                                                                  | ISO           | ANSI       | 刀片结构                                                                                |                   | 刃数 | ic   | φd   | S    | r   | la  |
|-------------------------------------------------------------------------------------|---------------|------------|-------------------------------------------------------------------------------------|-------------------|----|------|------|------|-----|-----|
|    | DNGA150404-2N | DNGA431-2N |    | □□ST22S           | 2  | 12.7 | 5.16 | 4.76 | 0.4 | 2.2 |
|                                                                                     | 150408-2N     | 432-2N     |    | □□ST22S           | 2  |      |      |      | 0.8 |     |
|                                                                                     | DNGA150404-2N | DNGA431-2N |    | □□WGR22S (107.5°) | 2  |      |      |      | 0.4 |     |
|                                                                                     | 150408-2N     | 432-2N     |    | □□WGR22S (107.5°) | 2  |      |      |      | 0.8 |     |
|   | DNGA150404-2N | DNGA431-2N |    | □□ST30S           | 2  | 12.7 | 5.16 | 4.76 | 0.4 | 3.0 |
|                                                                                     | 150408-2N     | 432-2N     |    | □□ST30S           | 2  |      |      |      | 0.8 |     |
|                                                                                     | DNGA150404-2N | DNGA431-2N |    | □□WGR30S (107.5°) | 2  |      |      |      | 0.4 |     |
|                                                                                     | 150408-2N     | 432-2N     |   | □□WGR30S (107.5°) | 2  |      |      |      | 0.8 |     |
|  | DNGA150404-4N | DNGA431-4N |  | □□ST22S           | 4  | 12.7 | 5.16 | 4.76 | 0.4 | 2.2 |
|                                                                                     | 150408-4N     | 432-4N     |  | □□ST22S           | 4  |      |      |      | 0.8 |     |
|                                                                                     | DNGA150404-4N | DNGA431-4N |  | □□WGR22S (107.5°) | 4  |      |      |      | 0.4 |     |
|                                                                                     | 150408-4N     | 432-4N     |  | □□WGR22S (107.5°) | 4  |      |      |      | 0.8 |     |
|  | DNGA150404-4N | DNGA431-4N |  | □□ST30S           | 4  | 12.7 | 5.16 | 4.76 | 0.4 | 3.0 |
|                                                                                     | 150408-4N     | 432-4N     |  | □□ST30S           | 4  |      |      |      | 0.8 |     |
|                                                                                     | DNGA150404-4N | DNGA431-4N |  | □□WGR30S (107.5°) | 4  |      |      |      | 0.4 |     |
|                                                                                     | 150408-4N     | 432-4N     |  | □□WGR30S (107.5°) | 4  |      |      |      | 0.8 |     |

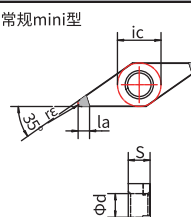
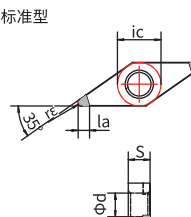
PCBN 数控刀片--粉末冶金类

焊接式刀片

VN

35°菱形·负型·有孔  
PCBN 负型刀片

| S    |                                                                                     |                                                                                     |                                                                                     |
|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 断续强度 |  |  |  |
| 结构   | SL                                                                                  | CB                                                                                  | CB                                                                                  |
| 材质   | PNS0126                                                                             | PNS0117                                                                             | PNS2005 PNS2007<br>PNS2019                                                          |
| 刃口   | E0000005 S0101505 S0153510                                                          |                                                                                     |                                                                                     |
| 涂层   | S/C3                                                                                |                                                                                     |                                                                                     |

| 图示                                                                                   | ISO           | ANSI       | 刀片结构                                                                                 |         | 刃数 | ic    | φd   | S    | r   | la  |
|--------------------------------------------------------------------------------------|---------------|------------|--------------------------------------------------------------------------------------|---------|----|-------|------|------|-----|-----|
|   | VNGA160404-2N | VNGA331-2N |   | □□ST22S | 2  | 9.525 | 3.81 | 4.76 | 0.4 | 2.2 |
|                                                                                      | 160408-2N     | 332-2N     |   | □□ST22S | 2  |       |      |      | 0.8 |     |
|                                                                                      | VNGA160404-4N | VNGA331-4N |   | □□ST22S | 4  |       |      |      | 0.4 |     |
|                                                                                      | 160408-4N     | 332-4N     |   | □□ST22S | 4  |       |      |      | 0.8 |     |
|  | VNGA160404-2N | VNGA331-2N |   | □□ST30S | 2  | 9.525 | 3.81 | 4.76 | 0.4 | 3.0 |
|                                                                                      | 160408-2N     | 332-2N     |   | □□ST30S | 2  |       |      |      | 0.8 |     |
|                                                                                      | VNGA160404-4N | VNGA331-4N |   | □□ST30S | 4  |       |      |      | 0.4 |     |
|                                                                                      | 160408-4N     | 332-4N     |  | □□ST30S | 4  |       |      |      | 0.8 |     |

刀片磨损原因及解决方案

后刀面磨损/刃口破损/月牙洼磨损/崩刃

后刀面磨损



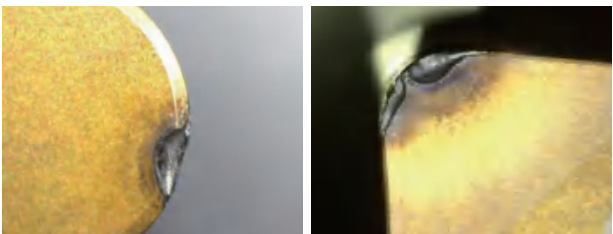
- 原因：切削速度太高
- 材质耐磨性不足
- 进给率太低
- 解决方法：降低切削速度
- 选择耐磨性更高的材质
- 调整进给量与切削速度和切削深度的匹配（增加进给量）

刃口破损



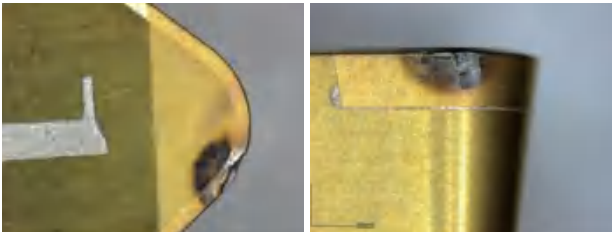
- 原因：材质过硬
- 震动
- 进给率太高或切削深度太大
- 断续切削
- 碎屑破坏
- 解决方法：降低切削速度
- 选择耐磨性更高的材质
- 调整进给量与切削速度和切削深度的匹配（增加进给量）

月牙洼磨损



- 原因：过高的切削速度和/或进给量
- 材质的耐磨性不足
- 冷却液供给不足
- 解决方法：降低切削速度和/或进给量
- 增加冷却液流量和压力，优化冷却液供给
- 使用抗月牙洼磨损性能更高的材质

崩刃



- 原因：刀片承受更大的压力
- 稳定性不足
- 圆角太小
- 刃口切深处破损过大
- 解决方法：使用韧性更好的材质
- 使用带倒棱的刀片
- 增加刀刃的倒圆

干/湿式切削推荐

干式切削/湿式切削

在PCBN刀具切削中，冷却液能够起到润滑、冷却的作用，减少刀片热损伤，在连续高线速度、大余量重载切削条件下作用突出。在断续切削中，冷却液会造成刀片冷热交替容易产生内应力从而造成热裂纹，因此在断续切削中更推荐干式切削。

机床转速转换表

切削速度——工件/刀盘直径

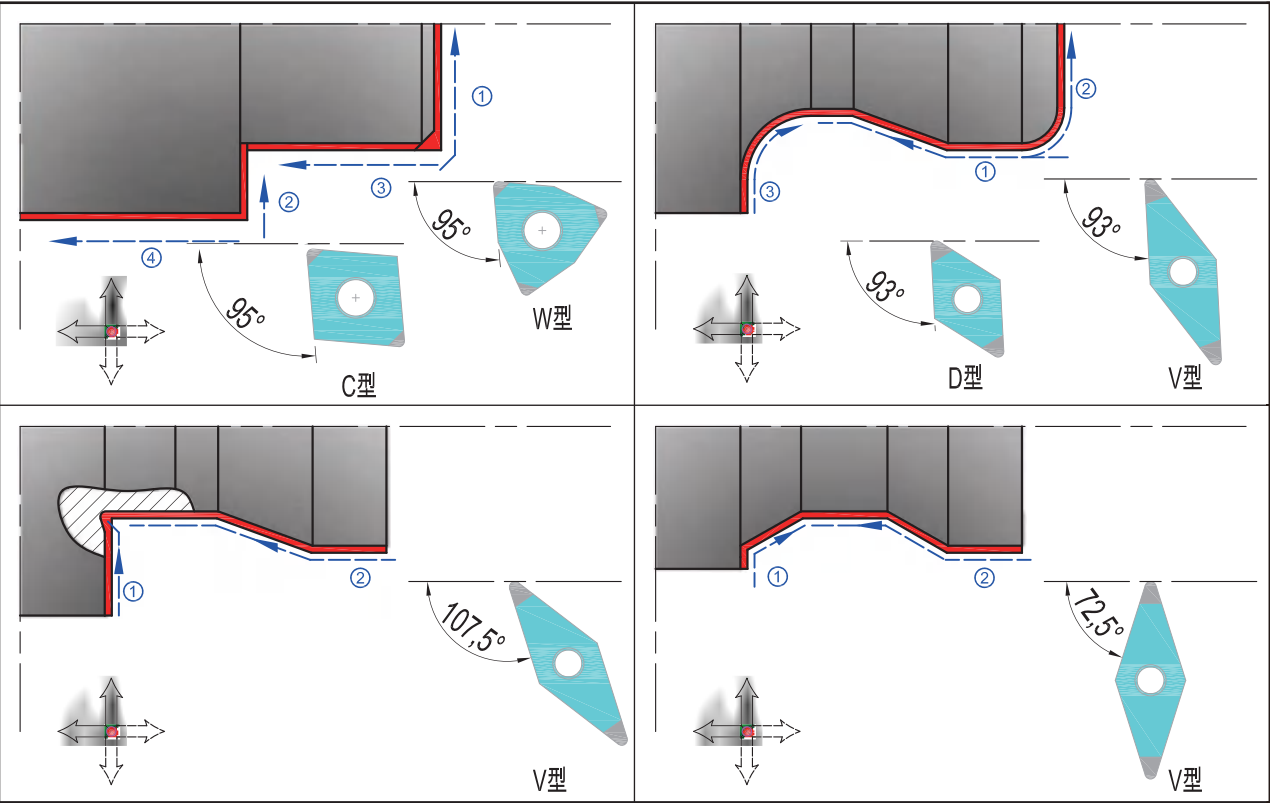
| 切削速度<br>Vc(m/min) | 工件/刀盘直径（mm） Workpiece/Tool Holer Diameter（mm） |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------------|-----------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                   | 12                                            | 16   | 20   | 25   | 32   | 50   | 63   | 80   | 100  | 125  | 160  | 175  | 200  | 250  |
| 80                | 2123                                          | 1592 | 1274 | 1019 | 796  | 510  | 404  | 318  | 255  | 204  | 159  | 146  | 127  | 102  |
| 90                | 2389                                          | 1791 | 1433 | 1146 | 896  | 573  | 455  | 358  | 287  | 229  | 179  | 164  | 143  | 115  |
| 100               | 2654                                          | 1990 | 1592 | 1274 | 995  | 637  | 506  | 398  | 318  | 255  | 199  | 182  | 159  | 127  |
| 110               | 2919                                          | 2189 | 1752 | 1401 | 1095 | 701  | 556  | 438  | 350  | 280  | 219  | 200  | 175  | 140  |
| 120               | 3185                                          | 2389 | 1911 | 1529 | 1194 | 764  | 607  | 478  | 382  | 306  | 239  | 218  | 191  | 153  |
| 140               | 3715                                          | 2787 | 2229 | 1783 | 1393 | 892  | 708  | 557  | 446  | 357  | 279  | 255  | 223  | 178  |
| 160               | 4246                                          | 3185 | 2548 | 2038 | 1592 | 1019 | 809  | 637  | 510  | 408  | 318  | 291  | 255  | 204  |
| 180               | 4777                                          | 3583 | 2866 | 2293 | 1791 | 1146 | 910  | 717  | 573  | 459  | 358  | 328  | 287  | 229  |
| 200               | 5308                                          | 3981 | 3185 | 2548 | 1990 | 1274 | 1011 | 796  | 637  | 510  | 398  | 364  | 318  | 255  |
| 220               | 5839                                          | 4379 | 3503 | 2803 | 2189 | 1401 | 1112 | 876  | 701  | 561  | 438  | 400  | 350  | 280  |
| 240               | 6369                                          | 4777 | 3822 | 3057 | 2389 | 1529 | 1213 | 955  | 764  | 611  | 478  | 437  | 382  | 306  |
| 260               | 6900                                          | 5175 | 4140 | 3312 | 2588 | 1656 | 1314 | 1035 | 828  | 662  | 518  | 473  | 414  | 331  |
| 280               | 7431                                          | 5573 | 4459 | 3567 | 2787 | 1783 | 1415 | 1115 | 892  | 713  | 557  | 510  | 446  | 357  |
| 300               |                                               | 5971 | 4777 | 3822 | 2986 | 1911 | 1517 | 1194 | 955  | 764  | 597  | 546  | 478  | 382  |
| 400               |                                               |      |      |      |      | 2548 | 2022 | 1592 | 1274 | 1019 | 796  | 728  | 637  | 510  |
| 600               |                                               |      |      |      |      | 3822 | 3033 | 2389 | 1911 | 1529 | 1194 | 1092 | 955  | 764  |
| 800               |                                               |      |      |      |      | 5096 | 4044 | 3185 | 2548 | 2038 | 1592 | 1456 | 1274 | 1019 |
| 1000              |                                               |      |      |      |      | 6369 | 5055 | 3981 | 3185 | 2548 | 1990 | 1820 | 1592 | 1274 |



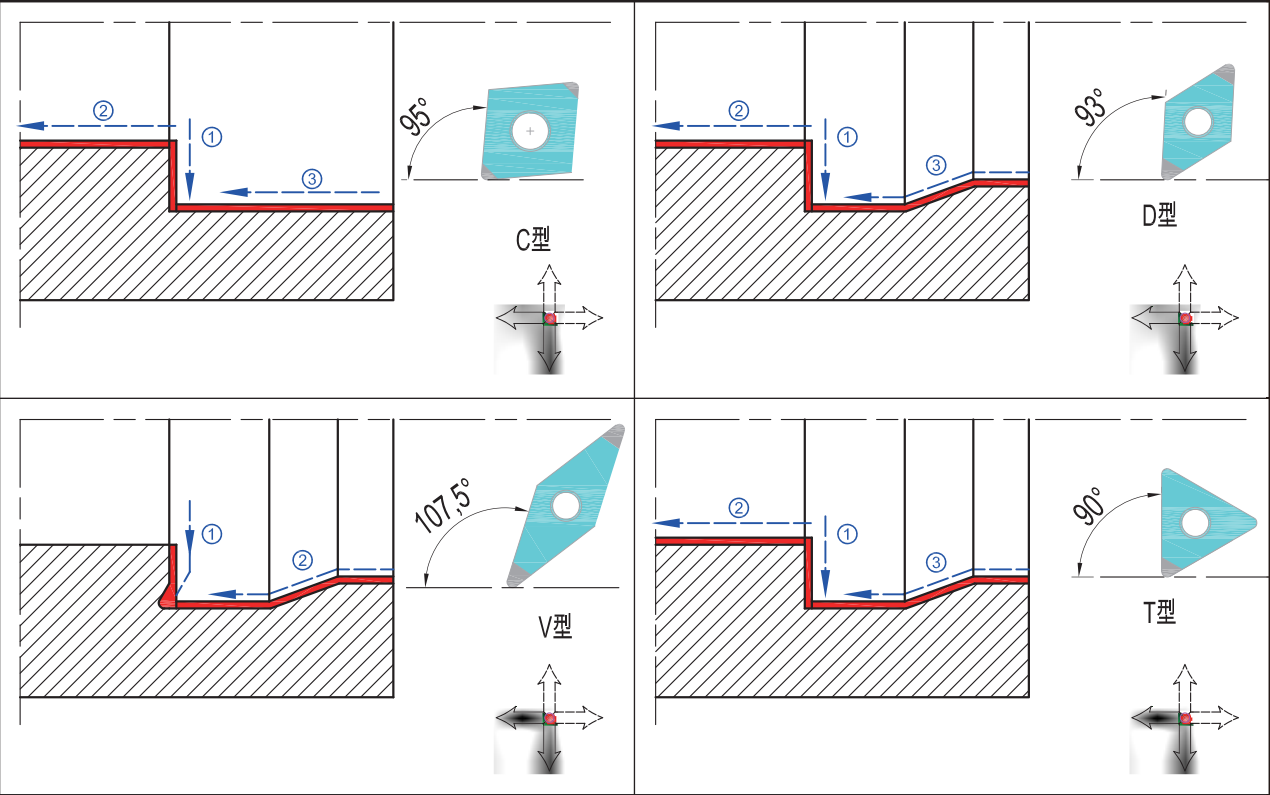
正确走刀路径推荐

使用PCBN刀具车削淬硬钢时推荐的走刀路径

■外圆加工



■内圆加工



金属材料牌号对照表

钢铁牌号对照表



| 钢铁牌号对照表     |          |                |              |                                         |                     |                     |
|-------------|----------|----------------|--------------|-----------------------------------------|---------------------|---------------------|
| 名 称         | 中国       | 日本             | 美国           | 英国                                      | 德国                  | 法国                  |
|             | GB       | JIS            | AISI/SAE     | BS                                      | DIN                 | NF                  |
| 机械结构<br>用碳钢 | 08<br>10 | S10C           | 1010         | 040A10<br>045A10<br>045M10              | C10E<br>C10R        | XC10                |
|             |          | S12C           | 1012         | 040A12                                  |                     | XC12                |
|             | 15       | S15C           | 1015         | 055M15                                  | C15E<br>C15R        |                     |
|             |          | S17C           | 1017         |                                         |                     | XC18                |
|             | 20       | S20C           | 1020         | 070M20<br>C22<br>C22E<br>C22R           | C22<br>C22E<br>C22R | C22<br>C22E<br>C22R |
|             |          | S22C           | 1023         |                                         |                     |                     |
|             | 25       | S25C           | 1025         | C25<br>C25E<br>C22R                     | C25<br>C25E<br>C22R | C25<br>C25E<br>C22R |
|             |          | S28C           | 1029         |                                         |                     |                     |
|             | 30       | S30C           | 1030         | 080A30<br>080M30<br>C30<br>C30E<br>C30R | C30<br>C30E<br>C30R | C30<br>C30E<br>C30R |
|             |          | S33C           |              |                                         |                     |                     |
|             | 35       | S35C           | 1035         | C35<br>C35E<br>C35R                     | C35<br>C35E<br>C35R | C35<br>C35E<br>C35R |
|             |          | S38C           | 1038         |                                         |                     |                     |
|             | 40       | S40C           | 1039<br>1040 | 080M40<br>C40<br>C40E<br>C40R           | C40<br>C40E<br>C40R | C40<br>C40E<br>C40R |
|             |          | S43C           | 1042<br>1043 | 080A42                                  |                     |                     |
|             | 45       | S45C           | 1045<br>1046 | C45<br>C45E<br>C45R                     | C45<br>C45E<br>C45R | C45<br>C45E<br>C45R |
|             |          | S48C           |              | 080A47                                  |                     |                     |
|             | 50       | S50C           | 1049         | 080M50<br>C50<br>C50E<br>C50R           | C50<br>C50E<br>C50R | C50<br>C50E<br>C50R |
|             |          | S53C           | 1050<br>1053 |                                         |                     |                     |
|             | 55       | S55C           | 1055         | 070M55<br>C55<br>C55E                   | C55<br>C55E<br>C55R | C55<br>C55E<br>C55R |
|             | 60       | S58C           | 1059<br>1060 | C55R<br>C60<br>C60E                     | C60<br>C60E         | C60<br>C60E         |
|             |          | S09CK          |              | C60R<br>045A10<br>045M10                | C60R<br>C10E        | C60R<br>XC10        |
|             | 15F      | S15CK<br>S20CK |              |                                         | C15E                | XC12<br>XC18        |

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钢铁牌号对照表

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|         | GB                | JIS     | AISI/SAE                     | BS                                      | DIN                     | NF                  |
| 镍铬钢材    |                   | SNC236  |                              |                                         | 36NiCr6                 |                     |
|         | 12CrNi2           | SNC415  |                              |                                         | 14NiCr10                |                     |
|         | 30CrNi3           | SNC631  |                              |                                         | 36NiCr10                |                     |
|         | 12Cr2Ni4          | SNC815  |                              | 655M13                                  | 15NiCr13                |                     |
|         | 37CrNi3           | SNC836  |                              |                                         | 31NiCr14                |                     |
| 镍铬钼钢材   | 20CrNiMo          | SNCM220 | 8615<br>8617<br>8620<br>8622 | 805A20<br>805M20<br>805A22<br>805M22    | 20NiCrMo2<br>20NiCrMoS2 | 20NCD 2             |
|         |                   | SNCM240 | 8637<br>8640                 |                                         | 40NiCrMo2-2             |                     |
|         |                   | SNCM415 |                              |                                         |                         |                     |
|         | 18CrNiMnMoA       | SNCM420 | 4320                         |                                         | 17NiCrMo6-4             |                     |
|         |                   | SNCM431 |                              |                                         | 30CrNiMo8               |                     |
|         | 40CrNiMoA         | SNCM439 | 4340                         |                                         | 40NiCrMo6               |                     |
|         |                   | SNCM447 |                              |                                         | 34CrNiMo6               |                     |
|         |                   | SNCM616 |                              |                                         |                         |                     |
|         |                   | SNCM625 |                              |                                         |                         |                     |
|         |                   | SNCM630 |                              |                                         |                         |                     |
|         |                   | SNCM815 |                              |                                         |                         |                     |
| 铬钢      | 15Cr<br>15GrA     | SCr415  |                              |                                         | 17Cr3<br>17CrS3         |                     |
|         | 20Cr              | SCr420  | 5120                         |                                         |                         |                     |
|         | 30Cr              | SCr430  | 5130<br>5132                 | 34Cr4<br>34CrS4                         | 34Cr4<br>34CrS4         | 34Cr4<br>34CrS4     |
|         | 35Cr              | SCr435  | 5132                         | 37Cr4<br>37CrS4                         | 37Cr4<br>37CrS4         | 37Cr4<br>37CrS4     |
|         | 40Cr              | SCr440  | 5140                         | 530M40<br>41Cr4<br>41CrS4               | 41Cr4<br>41CrS4         | 41Cr4<br>41CrS4     |
|         | 45Cr<br>50Cr      | SCr445  |                              |                                         |                         |                     |
| 铬钼钢     | 15CrMo            | SCM415  |                              |                                         | 15CrMo4                 |                     |
|         | 20CrMo            | SCM418  |                              |                                         | 18CrMo4<br>18CrMoS4     |                     |
|         |                   | SCM420  |                              | 708M20                                  | 20CrMo5                 |                     |
|         |                   | SCM421  |                              |                                         |                         |                     |
|         | 30CrMo<br>30CrMoA | SCM430  | 4130                         |                                         |                         |                     |
|         |                   | SCM432  |                              |                                         |                         |                     |
|         | 35CrMo            | SCM435  | 4137                         | 34CrMo4<br>34CrMoS4                     | 34CrMo4<br>34CrMoS4     | 34CrMo4<br>34CrMoS4 |
|         | 42CrMo            | SCM440  | 4140<br>4142                 | 708M40<br>709M40<br>42CrMo4<br>42CrMoS4 | 42CrMo4<br>42CrMoS4     | 42CrMo4<br>42CrMoS4 |
|         |                   | SCM445  | 4145<br>4147                 |                                         |                         |                     |
|         |                   | SCM822  |                              |                                         |                         |                     |

金属材料牌号对照表

钢铁牌号对照表



| 钢铁牌号对照表              |                |          |                         |                            |                     |                     |
|----------------------|----------------|----------|-------------------------|----------------------------|---------------------|---------------------|
| 名 称                  | 中国             | 日本       | 美国                      | 英国                         | 德国                  | 法国                  |
|                      | GB             | JIS      | AISI/SAE                | BS                         | DIN                 | NF                  |
| 锰铬钢<br>锰钢            | 20Mn2          | SMn420   | 1522                    | 150M19                     | 20Mn5               |                     |
|                      | 30Mn2<br>35Mn2 | SMn433   | 1536                    | 150M36                     | 34Mn5               |                     |
|                      | 40Mn2          | SMn438   | 1541                    | 150M36                     | 36Mn5               |                     |
|                      | 45Mn2          | SMn443   | 1541                    |                            |                     |                     |
|                      | 15CrMn         | SMnC420  | 5115                    |                            | 16MnCr5             |                     |
|                      | 40GrMn         | SMnC443  | 5140                    |                            |                     |                     |
|                      |                |          |                         |                            |                     |                     |
| 淬火性构造<br>用钢材<br>(H钢) |                | SMn420H  | 1522H                   |                            |                     |                     |
|                      |                | SMn433H  |                         |                            |                     |                     |
|                      |                | SMn438H  | 1541H                   |                            |                     |                     |
|                      |                | SMn443H  | 1541H                   |                            |                     |                     |
|                      |                | SMnC420H |                         |                            |                     |                     |
|                      |                | SMnC443H |                         |                            |                     |                     |
|                      | 15Cr1H         | SCr415H  |                         |                            | 17Cr3<br>17CrS3     |                     |
|                      | 20Cr1H         | SCr420H  | 5120H                   |                            | 17Cr3               |                     |
|                      |                | SCr430H  | 5130H<br>5132H          | 34Cr4<br>34CrS4            | 34Cr4<br>34CrS4     | 34Cr4<br>34CrS4     |
|                      |                | SCr435H  | 5135H                   | 37Cr4<br>37CrS4            | 37Cr4<br>37CrS4     | 37Cr4<br>37CrS4     |
|                      | 40CrH          | SCr440H  | 5140H                   | 41Cr4<br>41CrS4            | 41Cr4<br>41CrS4     | 41Cr4<br>41CrS4     |
|                      | 15CrMoH        | SCM415H  | 4118H                   |                            | 15CrMo5             |                     |
|                      |                | SCM418H  |                         |                            | 18CrMo4<br>18CrMoS4 |                     |
|                      | 20CrMoH        | SCM420H  | 4118H                   | 708H20                     | 18CrMo4             |                     |
|                      |                | SCM435H  | 4135H<br>4137H          | 34CrMo4<br>34CrMoS4        | 34CrMo4<br>34CrMoS4 | 34CrMo4<br>34CrMoS4 |
|                      | 42CrMoH        | SCM440H  | 4140H<br>4142H          | 42CrMo4<br>42CrMoS4        | 42CrMo4<br>42CrMoS4 | 42CrMo4<br>42CrMoS4 |
|                      |                | SCM445H  | 4145H<br>4147H          |                            |                     |                     |
|                      |                | SCM822H  |                         |                            |                     |                     |
|                      |                | SNC415H  |                         |                            |                     |                     |
|                      |                | SNC631H  |                         |                            |                     |                     |
|                      | 12Cr2Ni4H      | SNC815H  |                         | 655H13                     | 15NiCr13            |                     |
|                      | 20CrNiMoH      | SNCM220H | 8617H<br>8620H<br>8622H | 805H17<br>805H20<br>805H22 | 21NiCrMo2           | 20N CD 2            |
|                      | 20CrNi2MoH     | SNCM420H | 4320H                   |                            | 20NiCrMoS6-4        |                     |
| 高碳铬轴承钢               | GCr4           | SUJ1     | 51100                   |                            |                     |                     |
|                      | GCr15          | SUJ2     | 52100                   |                            | 100Cr6              | 100Cr6              |
|                      | GCr15SiMn      | SUJ3     | ASTM A 485<br>Grade 1   |                            |                     |                     |
|                      | GCr15SiMo      | SUJ4     |                         |                            |                     |                     |
|                      | GCr18Mo        | SUJ5     |                         |                            |                     |                     |

金属材料牌号对照表

铸铁牌号对照表

| 铸铁牌号对照表 |          |        |           |        |       |           |
|---------|----------|--------|-----------|--------|-------|-----------|
| 名 称     | 中国       | 日本     | 美国        | 英国     | 德国    | 法国        |
|         | GB       | JIS    | AISI/SAE  | BS     | DIN   | NF        |
| 灰口铸铁    | HT100    | FC100  | NO.20     | 100    | GG10  |           |
|         | HT150    | FC150  | NO.30     | 150    | GG15  | FGL150    |
|         | HT200    | FC200  | NO.35     | 200    | GG20  | FGL200    |
|         | HT250    | FC250  | NO.45     | 250    | GG25  | FGL250    |
|         | HT300    | FC300  | NO.50     | 300    | GG30  | FGL300    |
|         | HT350    | FC350  | NO.60     | 350    | GG35  | FGL350    |
|         |          |        |           |        | GG40  | FGL400    |
| 球墨铸铁    | QT400-18 | FCD400 | 60-40-18  | 400/17 | GGG40 | FGS370-17 |
|         | QT450-10 | FCD450 | 65-45-12  | 420/12 |       | FGS400-12 |
|         | QT500-7  | FCD500 | 70-50-05  | 500/7  | GGG50 | FGS500-7  |
|         | QT600-3  | FCD600 | 80-60-03  | 600/7  | GGG60 | FGS600-2  |
|         | QT700-2  | FCD700 | 100-70-03 | 700/2  | GGG70 | FGS700-2  |
|         | QT800-2  | FCD800 | 120-90-02 | 800/2  | GGG80 | FGS800-2  |
|         | QT900-2  |        |           | 900/2  |       |           |

使用车削工具时的注意事项



危险性提示与应用对策



| 产品类型      | 危险性提示                                               | 应用对策                                                                                |
|-----------|-----------------------------------------------------|-------------------------------------------------------------------------------------|
| 所有车削工具    | 因刀具刃口锋利，用手直接碰触有受伤的风险                                | ※从包装盒内取出及装上机器时，请使用防护手套等防护用具保证安全                                                     |
|           | 因使用方法错误或使用条件不当，导致工具破损或飞散，有受伤风险                      | ※请使用安全护罩和防护眼镜等防护用具<br>※请在推荐的使用条件范围内使用<br>※请参阅操作说明书和产品样本                             |
|           | 因冲击负荷、过度磨损等使车削阻力剧增而导致工具的破损或飞散，有受伤的风险                | ※请使用安全防护罩和防护眼镜等防护用具<br>※及时更换工具                                                      |
|           | 高温车屑的飞散，或排出较长的车屑，有受伤或烫伤的危险                          | ※请使用安全防护罩和防护眼镜等防护用具<br>※清除车屑时，先停下机器，戴上防护手套，使用辅助工具，确保安全的情况下进行操作                      |
|           | 工具和被加工工件在车削时会产生高温，加工后马上用手直接触摸会引起烫伤                  | ※请使用防护手套等防护用具，确保安全                                                                  |
|           | 车削过程中发生的火花或破损等引起的发热、切屑等，有引燃、导致火灾的危险                 | ※不要在有可燃、爆炸危险的地方所使用<br>※使用非水溶性切削油品时，请务必使用防火措施                                        |
|           | 用于高速旋转情况加工下，因工作机械夹持器具等的平衡不好而引起的晃动，振动而导致工具的破损，有受伤的危险 | ※请使用安全防护罩和防护眼镜等防护用具<br>※在试运转时，务必确认没有振动，异常噪音等情况                                      |
|           | 被加工产品上产生的毛刺，直接用手触摸时有受伤的危险                           | ※请不要赤手直接触摸                                                                          |
| 焊接式及机夹式刀具 | 焊接式刀片有刀片脱落、破损等引起受伤的风险                               | ※使用前请确认已切实焊接良好<br>※请不要在可能超过焊接熔点的高温下使用                                               |
|           | 经几次焊接后，使用中的刀片有易破损的危险                                | ※经过几次焊接后，刀片强度下降，请不要使用                                                               |
|           | 用于制定的用途以外目的的加工时，会导致机械或工具的破损，非常危险                    | ※请严格遵守所规定的使用方法                                                                      |
|           | 在刀片及其附件没有被确实紧固妥当的状态下进行车削，有刀具脱落废除致伤的危险               | ※安装座面、紧固用的附件清扫干净，确保无异物后再安装刀片<br>※安装时请确认已用的附带的扳手将刀片及其附件紧固妥当，另外，请绝对不要使用所指定的刀片、附件以外的工具 |
|           | 使用套管等辅助工具过分紧固时，刀片或工具有破损、飞散的危险                       | ※请不要使用套管等辅助工具<br>※请使用适配的扳手                                                          |
|           | 刀具在高速旋转中使用时，因离心力附件、刀片会飞出，非常危险；操作时，请充分注意安全。          | ※请在推荐的使用条件范围内使用<br>※请参阅操作使用说明书和产品样本                                                 |

特别提醒：本手册的内容记载了关于安全知识的基本项目，其他详细情况请参阅各工具的操作使用说明书、各种产品样本呢等，或向本公司咨询；未经本公司认可的改造，规格变更等原因引发的事故，本公司概不负责。

