

System Tip-Bars

Micro Boring / Micro Grooving

System Tip-Bars

| Edge Prep. | | N | | S | | | | | | | | | |
|---------------|------------------|----------------|-----------------|--|----|---|-----|-------------------------------------|----|--|-----------------------|------------|-----------------|
| All PCD Items | | Sharp Edge | | Non-Ferrous Metals (with Interruption) | | Non-Ferrous Metals (without Interruption) | | Titanium Alloys (with Interruption) | | Titanium Alloys (without Interruption) | | | |
| Insert | ANSI Part Number | Min. Bore Dia. | Dimensions (mm) | | | | | | | No. of Edges | PCD | | Toolholder Page |
| | | | ØA | H | L1 | L2 | F | S | rε | | KPD001 | KPD010 | |
| | VNBR 0411-02NB | 4 | 3.9 | 30.8 | 11 | 3.5 | 0.5 | 0.2 | 1 | <input type="radio"/> | <input type="radio"/> | F30 F31 | |
| | 0420-02NB | 4 | 3.9 | 39.8 | 20 | 3.5 | 0.5 | 0.2 | 1 | <input type="radio"/> | <input type="radio"/> | | |
| | VNBR 0511-02NB | 5 | 3.9 | 30.8 | 11 | 4.5 | 0.7 | 0.2 | 1 | <input type="radio"/> | <input type="radio"/> | | |
| | 0520-02NB | 5 | 3.9 | 39.8 | 20 | 4.5 | 0.7 | 0.2 | 1 | <input type="radio"/> | <input type="radio"/> | | |
| | VNBR 0620-02NB | 6 | 3.9 | 39.8 | 20 | 5.3 | 1.0 | 0.2 | 1 | <input type="radio"/> | <input type="radio"/> | | |
| | 0630-02NB | 6 | 3.9 | 49.8 | 30 | 5.3 | 1.0 | 0.2 | 1 | <input type="radio"/> | <input type="radio"/> | | |
| | VNBR 0720-02NB | 7 | 3.9 | 39.8 | 20 | 6.2 | 1.0 | 0.2 | 1 | <input type="radio"/> | <input type="radio"/> | | |
| | 0730-02NB | 7 | 3.9 | 49.8 | 30 | 6.2 | 1.0 | 0.2 | 1 | <input type="radio"/> | <input type="radio"/> | | |

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| Edge Prep. | | N | | S | | | | | | | | | | | |
|---------------|------------------|----------------|-----------------|--|--------|---|------|-------------------------------------|-----|--|-----|--------------|--------------------------|--------------------------|-----------------|
| All PCD Items | | Sharp Edge | | Non-Ferrous Metals (with Interruption) | | Non-Ferrous Metals (without Interruption) | | Titanium Alloys (with Interruption) | | Titanium Alloys (without Interruption) | | | | | |
| Insert | ANSI Part Number | Min. Bore Dia. | Dimensions (mm) | | | | | | | | | No. of Edges | PCD | | Toolholder Page |
| | | | ØA | W (in) | W (mm) | rε | H | L1 | L2 | L3 | F | | T | KPD001 | |
| | VNGR 0410-11NB | 4 | 0.039 | 1.0 | 0.05 | 3.9 | 30.8 | 11 | 0.1 | 3.5 | 0.8 | 1 | <input type="checkbox"/> | <input type="checkbox"/> | F30 F31 |
| | 0420-11NB | 4 | 0.079 | 2.0 | 0.10 | 3.9 | 30.8 | 11 | 0.1 | 3.5 | 0.8 | 1 | <input type="checkbox"/> | <input type="checkbox"/> | |
| | VNGR 0510-11NB | 5 | 0.039 | 1.0 | 0.05 | 3.9 | 30.8 | 11 | 0.1 | 4.4 | 1.0 | 1 | <input type="checkbox"/> | <input type="checkbox"/> | |
| | 0520-11NB | 5 | 0.079 | 2.0 | 0.10 | 3.9 | 30.8 | 11 | 0.1 | 4.4 | 1.0 | 1 | <input type="checkbox"/> | <input type="checkbox"/> | |
| | VNGR 0610-20NB | 6 | 0.039 | 1.0 | 0.05 | 3.9 | 39.8 | 20 | 0.3 | 5.2 | 1.8 | 1 | <input type="checkbox"/> | <input type="checkbox"/> | |
| | 0620-20NB | 6 | 0.079 | 2.0 | 0.10 | 3.9 | 39.8 | 20 | 0.3 | 5.2 | 1.8 | 1 | <input type="checkbox"/> | <input type="checkbox"/> | |
| | VNFGR 0820-10NB | 8 | 0.079 | 2.0 | 0.05 | 3.9 | 39.8 | 10 | - | 7.3 | 2.0 | 1 | <input type="checkbox"/> | <input type="checkbox"/> | F30 F31 |
| | 0830-10NB | 8 | 0.118 | 3.0 | 0.05 | 3.9 | 39.8 | 10 | - | 7.3 | 3.0 | 1 | <input type="checkbox"/> | <input type="checkbox"/> | |

Micro-Bars

| Edge Prep. | | N | | S | | | | | | | | | | |
|---------------|------------------|----------------|-----------------|--|----|---|----|-------------------------------------|-----|--|--------------|----------------------------------|----------------------------------|-----------------|
| All PCD Items | | Sharp Edge | | Non-Ferrous Metals (with Interruption) | | Non-Ferrous Metals (without Interruption) | | Titanium Alloys (with Interruption) | | Titanium Alloys (without Interruption) | | | | |
| Insert | ANSI Part Number | Min. Bore Dia. | Dimensions (mm) | | | | | | | | No. of Edges | PCD | | Toolholder Page |
| | | | ØA | ØD | H | L1 | L2 | L3 | F | S | | rε | KPD001 | |
| | PSB% 0404-60NBS | 4 | 3.8 | 3.6 | 60 | 30 | 10 | 1.9 | 0.3 | 0.05 | 1 | <input checked="" type="radio"/> | <input checked="" type="radio"/> | F94 |
| | 0505-70NBS | 5 | 4.8 | 4.4 | 70 | 40 | 12 | 2.4 | 0.5 | 0.05 | 1 | <input checked="" type="radio"/> | <input type="radio"/> | |
| | 0606-70NBS | 6 | 5.8 | 5.2 | 70 | 45 | 12 | 2.9 | 0.5 | 0.05 | 1 | <input checked="" type="radio"/> | <input checked="" type="radio"/> | |
| | 0707-80NBS | 7 | 6.8 | 6.2 | 80 | 50 | 12 | 3.4 | 0.5 | 0.05 | 1 | <input checked="" type="radio"/> | <input checked="" type="radio"/> | |