

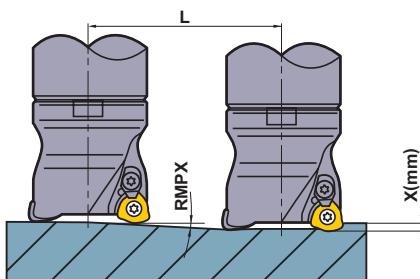
RECOMMENDED CUTTING CONDITIONS

■ CUTTING SPEED

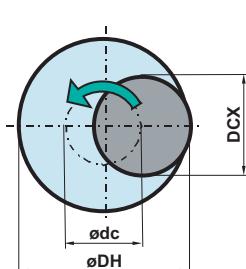
| Workpiece Material | | Characteristics | Cutting Speed (m/min) for Different Grades | | | |
|--------------------|-------------------------------|--------------------------------|--|------------------|-----------------|-----------------|
| P | Mild Steels | Hardness ≤180HB | FH7020 | MP6120 | MP6130 | VP30RT |
| | Carbon Steels Alloy Steels | Hardness 180–280HB | 170 (120–220) | 150 (100–200) | 130 (80–180) | 110 (60–160) |
| | Carbon Steels Alloy Steels | Hardness 280–350HB | 150 (100–200) | 130 (80–180) | 110 (60–160) | 90 (40–140) |
| | Alloy Tool Steels | Hardness ≤350HB (Annealing) | 130 (80–180) | 100 (50–150) | 80 (30–120) | 60 (20–90) |
| | Pre-hardened Steels | Hardness 35–45HRC | — | 100 (70–130) | 80 (50–110) | 80 (30–90) |
| | Stainless Steels | | MP7130 | MP7140 | — | — |
| K | Gray Cast Irons | Tensile Strength ≤350MPa | FH7020 | VP15TF | — | — |
| | Ductile Cast Irons | Tensile Strength ≤800MPa | — | 120 (80–160) | — | — |
| | Heat Resistant Alloys | Hardness ≤350HB | MP9120 | MP9130 | MP9140 | — |
| S | Titanium Alloys | — | 30 (20–40) | 25 (20–35) | 20 (15–30) | — |
| | Hardened Steels | Hardness 40–55HRC | 50 (40–60) | 45 (30–55) | 40 (30–50) | — |
| H | VP15TF | | — | — | — | — |

MAXIMUM CAPACITIES BY MODE

■ RAMPING



■ HELICAL DRILLING



- How to derive a locus of the centre of the tool.

$$\text{ødc} = \text{øDH} - \text{DCX}$$

Locus of
the centre of
the tool

Desired hole
diameter

Cutting Diameter
Maximum

- For the depth of cut per pass, refer to the cutting conditions above for helical drilling.

- Set the machine spindle revolution so that the tool is rotating and cutting in a down cut direction.

- When ramping and helical cutting, please apply a lower feed.
- When drilling, please set the feed in the axial direction at 0.2mm/rev or less.
- The long chips generated can disperse, ensure that adequate safety precautions are taken.

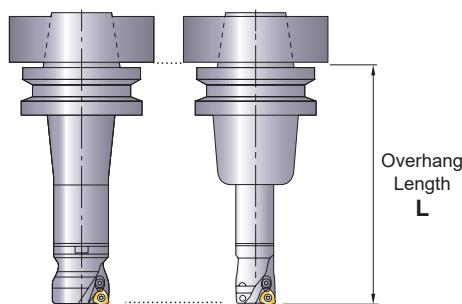
| Tool Holder Type | DCX (mm) | DC (mm) | APMX (mm) | | RMPX | Ramping | | | | Helical Drilling | | AZ (mm) | |
|--------------------------|-------------|------------|---------------------|---------------|------|---------|-------|-------|-------|------------------|-----|------------|-----|
| | | | FT/JM/ST Breaker | JL Breaker | | X=1 | X=1.2 | X=1.5 | X=2 | Min | Max | | |
| Shank type/Screw-in type | AJX06 | 16 | 8.9 | 1.0 | 0.6 | 3° | 19.1 | — | — | 23 | 29 | 0.3 | |
| | AJX06 | 17 | 9.9 | 1.0 | 0.6 | 2.5° | 22.9 | — | — | 25 | 31 | 0.3 | |
| | AJX06 | 20 | 12.9 | 1.0 | 0.6 | 1.5° | 38.2 | — | — | 31 | 37 | 0.3 | |
| | AJX06 | 22 | 14.9 | 1.0 | 0.6 | 1° | 57.3 | — | — | 35 | 41 | 0.3 | |
| | AJX08 | 20 | 11.4 | 1.5 | 0.9 | 3.5° | 16.3 | 19.6 | 24.5 | — | 27 | 36 | 0.5 |
| | AJX08 | 22 | 13.4 | 1.5 | 0.9 | 3° | 19.1 | 22.9 | 28.6 | — | 31 | 40 | 0.5 |
| | AJX08 | 25 | 16.4 | 1.5 | 0.9 | 2° | 28.6 | 34.4 | 43.0 | — | 37 | 46 | 0.5 |
| | AJX08 | 28 | 19.4 | 1.5 | 0.9 | 1.7° | 33.7 | 40.4 | 50.5 | — | 43 | 52 | 0.5 |
| | AJX09 | 25 | 14.9 | 2.0 | 1.2 | 4° | 14.3 | 17.2 | 21.5 | 28.6 | 33 | 46 | 1.0 |
| | AJX09 | 28 | 17.9 | 2.0 | 1.2 | 3° | 19.1 | 22.9 | 28.6 | 38.1 | 39 | 52 | 1.0 |
| | AJX09 | 30 | 20.0 | 2.0 | 1.2 | 2.7° | 21.2 | 25.4 | 31.8 | 42.4 | 43 | 56 | 1.0 |
| | AJX09 | 32 | 21.9 | 2.0 | 1.2 | 2.5° | 22.9 | 27.5 | 34.4 | 45.8 | 47 | 60 | 1.0 |
| | AJX09 | 35 | 24.9 | 2.0 | 1.2 | 2° | 28.6 | 34.4 | 43.0 | 57.3 | 53 | 66 | 1.0 |
| | AJX09 | 40 | 29.9 | 2.0 | 1.2 | 1.5° | 38.2 | 45.8 | 57.3 | 76.4 | 63 | 76 | 1.0 |
| | AJX12 | 30 | 18.3 | 2.0 | 1.2 | 4.5° | 12.7 | 15.2 | 19.0 | 25.4 | 39 | 56 | 1.5 |
| | AJX12 | 32 | 20.3 | 2.0 | 1.2 | 4° | 14.3 | 17.2 | 21.4 | 28.6 | 41 | 60 | 1.5 |
| | AJX12 | 35 | 23.3 | 2.0 | 1.2 | 3.5° | 16.3 | 19.6 | 24.5 | 32.7 | 47 | 66 | 1.5 |
| | AJX12 | 40 | 28.3 | 2.0 | 1.2 | 3° | 19.1 | 22.9 | 28.6 | 38.2 | 57 | 76 | 1.5 |
| | AJX14 | 50 | 38.2 | 2.0 | 1.2 | 4.2° | 13.6 | 16.3 | 20.4 | 27.2 | 72 | 96 | 2.0 |
| | AJX14 | 63 | 51.1 | 2.0 | 1.2 | 2.8° | 20.4 | 24.5 | 30.7 | 40.9 | 98 | 122 | 2.0 |
| Arbor type | AJX06 | 32 | 24.9 | 1.0 | 0.6 | 0.5° | 114.6 | 137.5 | 171.9 | 229.2 | 51 | 61 | 0.3 |
| | AJX08 | 40 | 31.4 | 1.5 | 0.9 | 1° | 57.3 | 68.7 | 85.9 | 114.6 | 65 | 76 | 0.5 |
| | AJX08 | 42 | 33.4 | 1.5 | 0.9 | 0.9° | 63.7 | 76.4 | 95.5 | 127.3 | 69 | 80 | 0.5 |
| | AJX08 | 50 | 41.4 | 1.5 | 0.9 | 0.7° | 81.8 | 98.2 | 122.8 | 163.7 | 85 | 96 | 0.5 |
| | AJX08 | 52 | 43.4 | 1.5 | 0.9 | 0.7° | 81.8 | 98.2 | 122.8 | 163.7 | 89 | 100 | 0.5 |
| | AJX09 | 50 | 40.0 | 2.0 | 1.2 | 1.1° | 52.1 | 62.5 | 78.1 | 104.2 | 83 | 96 | 1.0 |
| | AJX09 | 52 | 41.9 | 2.0 | 1.2 | 1° | 57.3 | 68.7 | 85.9 | 114.6 | 85 | 100 | 1.0 |
| | AJX09 | 63 | 52.9 | 2.0 | 1.2 | 0.8° | 71.6 | 85.9 | 107.4 | 143.2 | 107 | 122 | 1.0 |
| | AJX09 | 66 | 55.9 | 2.0 | 1.2 | 0.8° | 71.6 | 85.9 | 107.4 | 143.2 | 113 | 128 | 1.0 |
| | AJX12 | 50 | 38.3 | 2.0 | 1.2 | 2° | 28.6 | 34.4 | 43.0 | 57.3 | 77 | 96 | 1.5 |
| | AJX12 | 63 | 51.3 | 2.0 | 1.2 | 1.5° | 38.2 | 45.8 | 57.3 | 76.4 | 103 | 122 | 1.5 |
| | AJX12 | 66 | 54.3 | 2.0 | 1.2 | 1.4° | 40.9 | 49.1 | 61.4 | 81.8 | 109 | 128 | 1.5 |
| | AJX12 | 80 | 68.3 | 2.0 | 1.2 | 1.1° | 52.1 | 62.5 | 78.1 | 104.2 | 137 | 156 | 1.5 |
| | AJX12 | 100 | 88.3 | 2.0 | 1.2 | 0.8° | 71.6 | 85.9 | 107.4 | 143.2 | 177 | 196 | 1.5 |
| | AJX14 | 63 | 51.1 | 2.0 | 1.2 | 2.8° | 20.4 | 24.5 | 30.7 | 40.9 | 98 | 122 | 2.0 |
| | AJX14 | 66 | 54.1 | 2.0 | 1.2 | 2.6° | 22.0 | 26.4 | 33.0 | 44.0 | 108 | 128 | 2.0 |
| | AJX14 | 80 | 68.1 | 2.0 | 1.2 | 1.8° | 31.8 | 38.2 | 47.7 | 63.6 | 132 | 156 | 2.0 |
| | AJX14 | 100 | 88.1 | 2.0 | 1.2 | 1.2° | 47.7 | 57.3 | 71.6 | 95.5 | 172 | 196 | 2.0 |
| | AJX14 | 125 | 113.2 | 2.0 | 1.2 | 0.8° | 71.6 | 85.9 | 107.4 | 143.2 | 222 | 246 | 2.0 |
| | AJX14 | 160 | 148.2 | 2.0 | 1.2 | 0.5° | 114.6 | 137.5 | 171.9 | 229.2 | 292 | 316 | 2.0 |

RECOMMENDED CUTTING CONDITIONS

■ DEPTH OF CUT / FEED

| Workpiece Material | Characteristics | Shank Type / Screw-in Type | | | | | | | | | |
|--------------------|-----------------------------|-----------------------------|------------|--------------|--------------|------------|--------------|--------------|------------|--------------|-----|
| | | DCX=ø16, ø17 | | | DCX=ø20, ø22 | | | DCX=ø25, ø28 | | | |
| | | L (mm) | ap (mm) | fz (mm/t) | L (mm) | ap (mm) | fz (mm/t) | L (mm) | ap (mm) | fz (mm/t) | |
| P | Mild Steel | Hardness ≤180HB | 140 | 0.8 | 0.8 | 160 | 1.0 | 1.0 | 170 | 1.0 | 1.2 |
| | | | 180 | 0.6 | 0.6 | 210 | 0.8 | 0.8 | 230 | 0.8 | 1.0 |
| | | | 210 | 0.4 | 0.4 | 240 | 0.6 | 0.6 | 290 | 0.6 | 0.8 |
| | Carbon Steel Alloy Steel | Hardness 180–280HB | 140 | 0.8 | 0.8 | 160 | 1.0 | 1.0 | 170 | 1.0 | 1.2 |
| | | | 180 | 0.6 | 0.6 | 210 | 0.8 | 0.8 | 230 | 0.8 | 1.0 |
| | | | 210 | 0.4 | 0.4 | 240 | 0.6 | 0.6 | 290 | 0.6 | 0.8 |
| | Carbon Steel Alloy Steel | Hardness 280–350HB | 140 | 0.7 | 0.8 | 160 | 0.8 | 1.0 | 170 | 0.8 | 1.2 |
| | | | 180 | 0.5 | 0.6 | 210 | 0.6 | 0.8 | 230 | 0.6 | 1.0 |
| | | | 210 | 0.3 | 0.4 | 240 | 0.4 | 0.6 | 290 | 0.4 | 0.8 |
| | Alloy Tool Steel | Hardness ≤350HB | 140 | 0.7 | 0.8 | 160 | 0.8 | 1.0 | 170 | 0.8 | 1.2 |
| | | | 180 | 0.5 | 0.6 | 210 | 0.6 | 0.8 | 230 | 0.6 | 1.0 |
| | | | 210 | 0.3 | 0.4 | 240 | 0.4 | 0.6 | 290 | 0.4 | 0.8 |
| | Pre-hardened Steel | Hardness 35–45HRC | 140 | 0.7 | 0.7 | 160 | 0.8 | 0.8 | 170 | 0.8 | 1.0 |
| | | | 180 | 0.5 | 0.5 | 210 | 0.6 | 0.6 | 230 | 0.6 | 0.8 |
| | | | 210 | 0.3 | 0.3 | 240 | 0.4 | 0.4 | 290 | 0.4 | 0.6 |
| M | Stainless Steel | Hardness ≤270HB | 140 | 0.8 | 0.7 | 160 | 1.0 | 0.8 | 170 | 1.0 | 1.0 |
| | | | 180 | 0.6 | 0.5 | 210 | 0.8 | 0.6 | 230 | 0.8 | 0.8 |
| | | | 210 | 0.4 | 0.3 | 240 | 0.6 | 0.4 | 290 | 0.6 | 0.6 |
| K | Gray Cast Iron | Tensile Strength ≤350MPa | 140 | 0.8 | 1.0 | 160 | 1.0 | 1.2 | 170 | 1.0 | 1.4 |
| | | | 180 | 0.6 | 0.8 | 210 | 0.8 | 1.0 | 230 | 0.8 | 1.2 |
| | | | 210 | 0.4 | 0.6 | 240 | 0.6 | 0.8 | 290 | 0.6 | 1.0 |
| S | Ductile Cast Iron | Tensile Strength ≤800MPa | 140 | 0.7 | 0.8 | 160 | 0.8 | 1.0 | 170 | 0.8 | 1.2 |
| | | | 180 | 0.5 | 0.6 | 210 | 0.6 | 0.8 | 230 | 0.6 | 1.0 |
| | Titanium Alloy | | 210 | 0.3 | 0.4 | 240 | 0.4 | 0.6 | 290 | 0.4 | 0.8 |
| H | Heat Resistant Alloy | Hardness 40–55HRC | 140 | 0.6 | 0.6 | 160 | 0.8 | 0.6 | 170 | 1.0 | 0.6 |
| | | | 180 | 0.4 | 0.4 | 210 | 0.6 | 0.4 | 230 | 0.8 | 0.4 |
| | | | 210 | 0.3 | 0.3 | 240 | 0.4 | 0.3 | 290 | 0.6 | 0.3 |
| | Hardened Steel | Hardness 40–55HRC | 140 | 0.5 | 0.5 | 160 | 0.5 | 0.6 | 170 | 0.5 | 0.8 |
| | | | 180 | 0.4 | 0.3 | 210 | 0.4 | 0.4 | 230 | 0.4 | 0.6 |
| | | | 210 | 0.3 | 0.2 | 240 | 0.3 | 0.2 | 290 | 0.3 | 0.4 |

① Overhang Length L



② Main Spindle Revolution

$$n(\text{min}^{-1}) = (\text{Recommended Cutting Speed} \times 1000) \div (\text{DCX} \times 3.14)$$

③ Table Feed Rate

$$vf(\text{mm/min}) = n \times \text{Feed per Tooth} \times \text{Number of Teeth}$$

④ Recommended width of cut (ae) is more than 60% of the cutting edge diameter (DCX).

⑤ The above cutting conditions are guides to cutting on a #50 BT machine. In case of #40 BT and #63 HSK machines, a cutting edge diameter of under 35mm is recommended. In this case, reduce the depth of cut and table feed rate.

⑥ Use of ST chipbreaker with tougher cutting edges is recommended for machining parts that require interrupted cutting. First recommended insert grade for non-standard 06/08/09 ST chipbreakers is VP30RT irrespective of the workpiece material.

⑦ Cutter body with coarse pitch is recommended for the unstable cutting caused by the long tool overhang.

⑧ Use the "sharp" JM chipbreaker to lower cutting forces or when long tool overhangs are used.

⑨ Heavy chips are generated when machining with the AJX. To avoid chip jamming-related problems, use air blower while machining to discharging chips effectively.

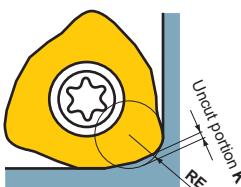
⑩ The maximum depth of cut of JL breaker is different in the insert size.

06 size is up to 0.6mm, 08 size is up to 0.9mm, and 09, 12, 14 size is up to 1.2mm.

| | Shank Type / Screw-in Type | | | | | | | | | | Arbor Type | | | | | | | |
|-----|----------------------------|------------|--------------|---------------------|------------|--------------|---------------------|------------|--------------|--------------|------------|--------------|-------------------|------------|--------------|-----------|------------|--------------|
| | DCX=Ø30, Ø32, Ø35 | | | DCX=Ø40 (Ø32 Shank) | | | DCX=Ø40 (Ø42 Shank) | | | DCX=Ø50, Ø63 | | | DCX=Ø50, Ø63, Ø66 | | | DCX≥Ø80 | | |
| | L (mm) | ap (mm) | fz (mm/t) | L (mm) | ap (mm) | fz (mm/t) | L (mm) | ap (mm) | fz (mm/t) | L (mm) | ap (mm) | fz (mm/t) | L (mm) | ap (mm) | fz (mm/t) | L (mm) | ap (mm) | fz (mm/t) |
| 180 | 1.2 | 1.4 | 1.4 | 180 | 1.2 | 1.4 | 180 | 1.2 | 1.5 | 180 | 1.4 | 1.5 | 150 | 1.5 | 1.5 | 170 | 1.5 | 1.5 |
| 230 | 1.0 | 1.2 | 240 | 1.0 | 1.2 | 240 | 1.0 | 1.3 | 240 | 1.2 | 1.3 | 250 | 1.3 | 1.3 | 300 | 1.3 | 1.3 | |
| 290 | 0.8 | 1.0 | 300 | 0.8 | 1.0 | 300 | 0.8 | 1.1 | — | — | — | 350 | 1.1 | 1.1 | 450 | 1.0 | 1.0 | |
| 180 | 1.2 | 1.4 | 180 | 1.2 | 1.4 | 180 | 1.2 | 1.5 | 180 | 1.4 | 1.5 | 150 | 1.5 | 1.5 | 170 | 1.5 | 1.5 | |
| 230 | 1.0 | 1.2 | 240 | 1.0 | 1.2 | 240 | 1.0 | 1.3 | 240 | 1.2 | 1.3 | 250 | 1.3 | 1.3 | 300 | 1.3 | 1.3 | |
| 290 | 0.8 | 1.0 | 300 | 0.8 | 1.0 | 300 | 0.8 | 1.1 | — | — | — | 350 | 1.1 | 1.1 | 450 | 1.0 | 1.0 | |
| 180 | 1.0 | 1.4 | 180 | 1.0 | 1.4 | 180 | 1.0 | 1.5 | 180 | 1.2 | 1.5 | 150 | 1.3 | 1.5 | 170 | 1.3 | 1.5 | |
| 230 | 0.8 | 1.2 | 240 | 0.8 | 1.2 | 240 | 0.8 | 1.3 | 240 | 1.0 | 1.3 | 250 | 1.1 | 1.3 | 300 | 1.1 | 1.3 | |
| 290 | 0.6 | 1.0 | 300 | 0.6 | 1.0 | 300 | 0.6 | 1.1 | — | — | — | 350 | 0.9 | 1.1 | 450 | 0.8 | 1.0 | |
| 180 | 1.0 | 1.4 | 180 | 1.0 | 1.4 | 180 | 1.0 | 1.5 | 180 | 1.2 | 1.5 | 150 | 1.3 | 1.5 | 170 | 1.3 | 1.5 | |
| 230 | 0.8 | 1.2 | 240 | 0.8 | 1.2 | 240 | 0.8 | 1.3 | 240 | 1.0 | 1.3 | 250 | 1.1 | 1.3 | 300 | 1.1 | 1.3 | |
| 290 | 0.6 | 1.0 | 300 | 0.6 | 1.0 | 300 | 0.6 | 1.1 | — | — | — | 350 | 0.9 | 1.1 | 450 | 0.8 | 1.0 | |
| 180 | 1.0 | 1.2 | 180 | 1.0 | 1.2 | 180 | 1.0 | 1.3 | 180 | 1.2 | 1.3 | 150 | 1.3 | 1.3 | 170 | 1.3 | 1.3 | |
| 230 | 0.8 | 1.0 | 240 | 0.8 | 1.0 | 240 | 0.8 | 1.1 | 240 | 1.0 | 1.1 | 250 | 1.1 | 1.1 | 300 | 1.1 | 1.1 | |
| 290 | 0.6 | 0.8 | 300 | 0.6 | 0.8 | 300 | 0.6 | 0.9 | — | — | — | 350 | 0.9 | 0.9 | 450 | 0.8 | 0.8 | |
| 180 | 1.2 | 1.2 | 180 | 1.2 | 1.2 | 180 | 1.2 | 1.3 | 180 | *1.4 | 1.3 | 150 | *1.5 | 1.3 | 170 | *1.5 | 1.3 | |
| 230 | 1.0 | 1.0 | 240 | 1.0 | 1.0 | 240 | 1.0 | 1.1 | 240 | 1.2 | 1.1 | 250 | *1.3 | 1.1 | 300 | *1.3 | 1.1 | |
| 290 | 0.8 | 0.8 | 300 | 0.8 | 0.8 | 300 | 0.8 | 0.9 | — | — | — | 350 | 1.1 | 0.9 | 450 | 1.0 | 0.8 | |
| 180 | 1.2 | 1.6 | 180 | 1.2 | 1.6 | 180 | 1.2 | 1.7 | 180 | 1.4 | 1.7 | 150 | 1.5 | 1.7 | 170 | 1.5 | 1.7 | |
| 230 | 1.0 | 1.4 | 240 | 1.0 | 1.4 | 240 | 1.0 | 1.5 | 240 | 1.2 | 1.5 | 250 | 1.3 | 1.5 | 300 | 1.3 | 1.5 | |
| 290 | 0.8 | 1.2 | 300 | 0.8 | 1.2 | 300 | 0.8 | 1.3 | — | — | — | 350 | 1.1 | 1.3 | 450 | 1.0 | 1.2 | |
| 180 | 1.0 | 1.4 | 180 | 1.0 | 1.4 | 180 | 1.0 | 1.5 | 180 | 1.2 | 1.5 | 150 | 1.3 | 1.5 | 170 | 1.3 | 1.5 | |
| 230 | 0.8 | 1.2 | 240 | 0.8 | 1.2 | 240 | 0.8 | 1.3 | 240 | 1.0 | 1.3 | 250 | 1.1 | 1.3 | 300 | 1.1 | 1.3 | |
| 290 | 0.6 | 1.0 | 300 | 0.6 | 1.0 | 300 | 0.6 | 1.1 | — | — | — | 350 | 0.9 | 1.1 | 450 | 0.8 | 1.0 | |
| 180 | 1.2 | 0.6 | 180 | 1.2 | 0.6 | 180 | 1.2 | 0.6 | 180 | 1.2 | 0.6 | 150 | 1.2 | 0.6 | 170 | 1.2 | 0.6 | |
| 230 | 1.0 | 0.4 | 240 | 1.0 | 0.4 | 240 | 1.0 | 0.4 | 240 | 1.0 | 0.4 | 250 | 1.0 | 0.4 | 300 | 1.0 | 0.4 | |
| 290 | 0.8 | 0.3 | 300 | 0.8 | 0.3 | 300 | 0.8 | 0.3 | — | — | — | 350 | 0.8 | 0.3 | 450 | 0.8 | 0.3 | |
| 180 | 0.6 | 1.0 | 180 | 0.6 | 1.0 | 180 | 0.6 | 1.1 | 180 | 0.8 | 1.1 | 150 | 0.9 | 1.1 | 170 | 0.9 | 1.1 | |
| 230 | 0.5 | 0.8 | 240 | 0.5 | 0.8 | 240 | 0.5 | 0.9 | 240 | 0.6 | 0.9 | 250 | 0.7 | 0.9 | 300 | 0.7 | 0.9 | |
| 290 | 0.4 | 0.6 | 300 | 0.4 | 0.6 | 300 | 0.4 | 0.7 | — | — | — | — | — | — | — | — | — | |

* Depth of cut of JL breaker is up to 1.2 mm.

NOTE FOR PROGRAMMING



When using the AJX, please programme as an R3 radius cutter. The approximate radius RE and uncut amount K at that time are as shown on the table to the right.

| Insert Size | Breaker | Approx. RE (mm) | Uncut Portion K (mm) |
|-------------|--------------|-----------------|----------------------|
| 06 | FT / JM | 2.0 | 0.33 |
| | JL | 2.5 | 0.32 |
| 08 | FT / JM | 2.5 | 0.46 |
| | JL | 2.0 | 0.40 |
| 09 | FT / JM | 3.0 | 0.47 |
| | JL | 3.0 | 0.46 |
| 12 | FT / JM / ST | 3.0 | 0.63 |
| | JL | 3.0 | 0.53 |
| 14 | FT / JM / ST | 3.0 | 0.64 |
| | JL | 3.0 | 0.55 |

Note 1) The uncut portion may change slightly depending on cutting conditions.