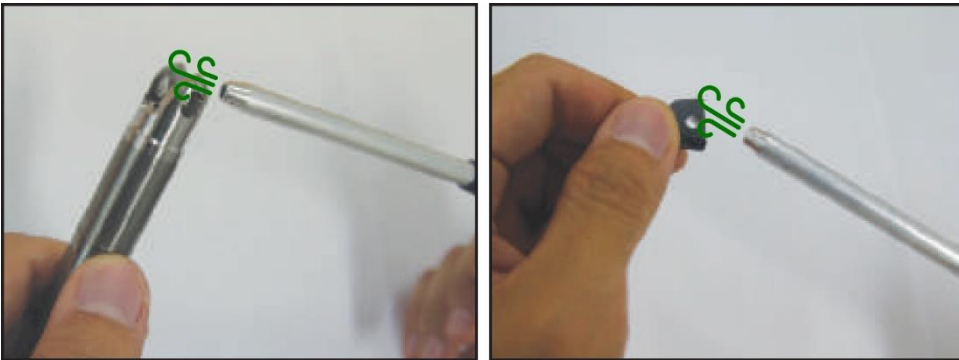
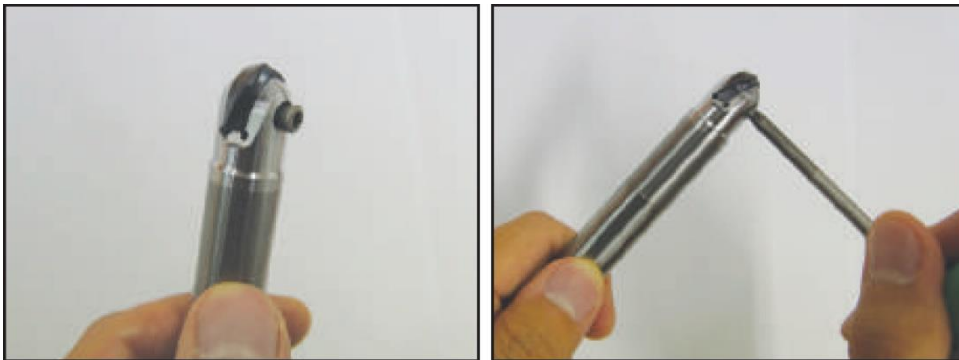


Technical Details



Clean the insert and the insert seat with compressed air.



- Slide the insert into the seat of the tool holder.
- Be sure the insert is installed with the “Torx” logo facing the screw as shown in the Clamping Direction image.
- Always use anti-seize grease on the screw.
- Do not press down on the insert while tightening the screw.
- Tighten the screw to the recommended clamping torque shown in the chart.

SIZE	CLAMPING TORQUE		
	ØD	[in · lbs]	[N · m]
Ø 5/16 (Ø 8)		9.0	1.02
Ø 3/8 (Ø 10)		13.5	1.53
Ø 1/2 (Ø 12 - Ø 13)		22.5	2.54
Ø 5/8 (Ø 16 - Ø 17)		31.5	3.56
Ø 3/4 (Ø 20 - Ø 21)		44.5	5.03
Ø 1 (Ø 25 - Ø 26)		53.0	5.99
Ø 1-1/4 (Ø 30 - Ø 32)		58.0	6.55



Technical Details

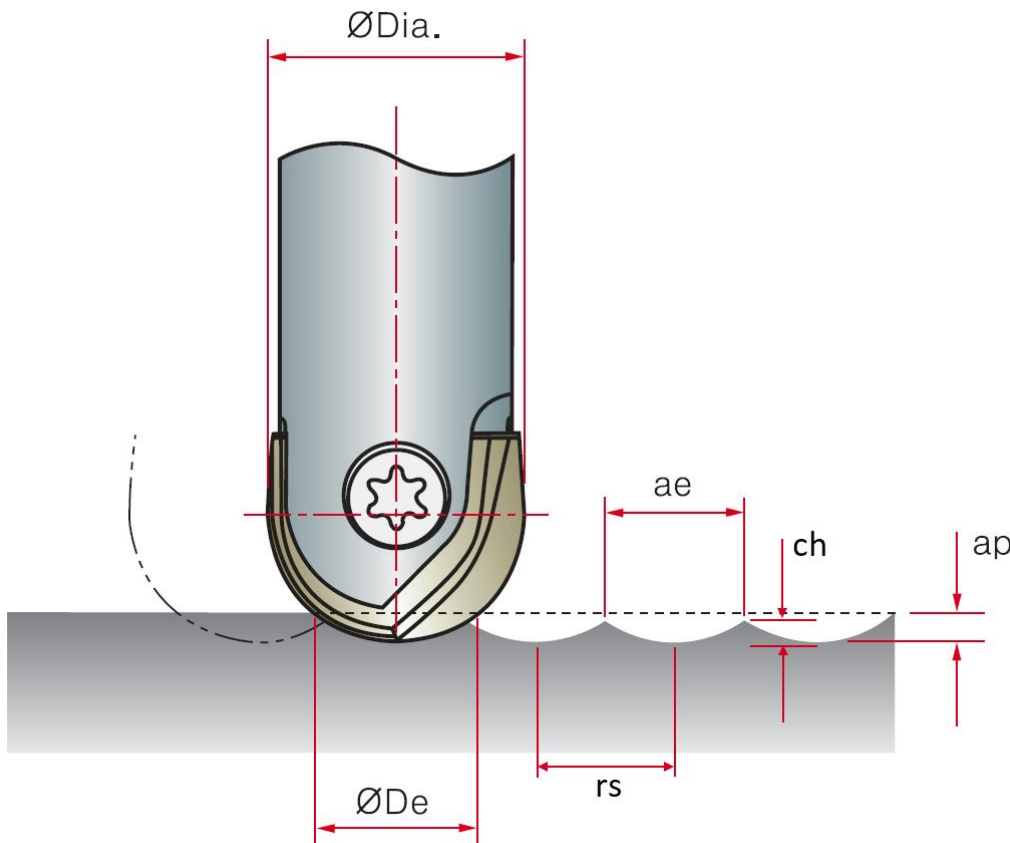


Radial Stepover (rs) is the distance between centerlines of successive, parallel cuts. When the radial stepover is increased, the **cuspl height** (ch) will increase. The cusp height is the primary factor that will determine the smoothness of the machined surface. A cusp height of .00003" to .00005" (.00076mm to .00127mm) will produce a very fine finish. Since the cusp height is controlled by the radial stepover and the effective tool diameter, this formula can be used to calculate the cusp height on a flat surface:

$$\text{Cusp Height (ch)} = (\emptyset De \div 2) - \sqrt{((\emptyset De^2 - rs^2) \div 4)}$$

The **Effective Tool Diameter** ($\emptyset De$) is the actual cutting diameter on the tool at a given **Depth of Cut** (ap). Use this formula to calculate the effective tool diameter.

$$\text{Effective Tool Dia. } (\emptyset De) = 2\sqrt{(ap) * (\emptyset Dia. - ap)}$$



Tool Diameter ($\emptyset Dia.$)
Effective Tool Diameter ($\emptyset De$)
Depth of Cut (ap)
Width of Cut (ae)
Radial Stepover (rs)
Cusp Height (ch)