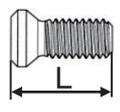
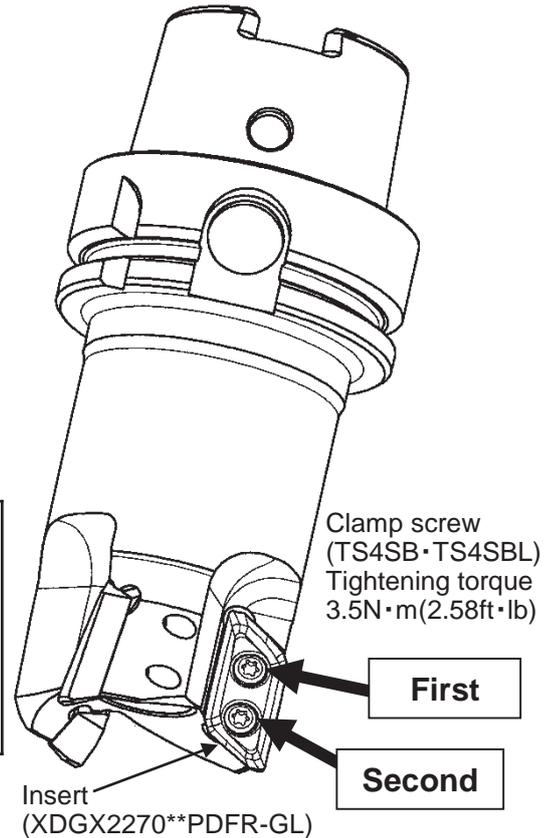


Instruction manual for AXD7000 HSK type

1. How to locate the insert

1. Prior to locating the insert, air blow the insert seat.
2. Press firmly down on the insert when tightening the clamp screw.
3. When tightening the clamp screws, follow the order in Figure 1.
4. To prevent the screw from seizing, use anti-seize lubricant, and tighten at the prescribed tightening torque.
The prescribed tightening torque value is 3.5N·m (2.58ft·lb).
5. Use of the correct insert clamp screws is especially important to ensure overall tool safety.
Be sure to use clamp screws with the appropriate code number.

Cutting edge diameter D1	Φ 32	Φ 40, Φ 50	
Clamp screw number	TS4SB	TS4SBL	
Overall length L	9mm (0.354in)	10.5mm (0.413in)	



6. Ensure that there is no space between the insert and the insert seat.

2. Maximum allowable spindle speed

1. The maximum allowable spindle speeds are shown in Table 1.
Ensure that the cutter operates under the maximum allowable spindle speed.
The maximum allowable spindle speeds for safety purposes are determined in accordance with ISO15641 (Milling Cutters for high speed machining—Safety requirements).

Table 1 Maximum allowable spindle speed (min⁻¹)

Cutting edge diameter D1	φ 32	φ 40	Φ 50
Max. allowable spindle speed	41,000	36,000	30,000

2. Even when operating under the maximum allowable spindle speed, if the spindle speed is equal to or higher than the values shown in Table 2, it is recommended to replace the clamp screws with new ones when changing inserts.
Also ensure that the tools are used in an enclosed area for safety reasons.

Table 2 Spindle speed (min⁻¹)

Cutting edge diameter D1	φ 32	φ 40	φ 50
Spindle speed	9,500	7,600	6,000

3. Balance quality

Balance quality of the holder (without inserts and clamp screws) is G6.3 or better at 10,000min⁻¹.

4. Other instructions

1. Only use the inserts and parts provided by Mitsubishi Materials for this tool.
If other parts are used, the performance will be inferior and safety can not be assured.
2. Please replace the clamp screw periodically since they are consumption parts.
Do not use damaged or worn clamp screws.
3. Please refer to catalog about cutting conditions.
4. When using AXD for ramping, the feed must be 0.05mm/tooth or under.