

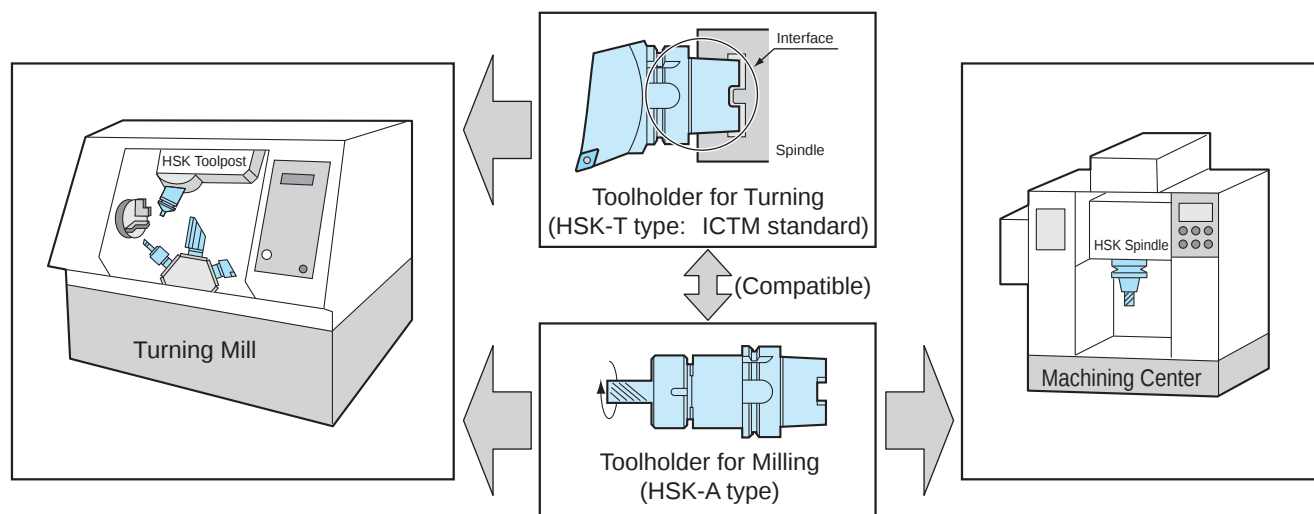
Tools for Turning Mill

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- Turning mill is the machine tool which combines turning and milling functions. Now the interface (joint part of toolpost and toolholder: equivalent to the arbor for milling) for the turning mill meeting ICTM standard is available.
- ICTM standard is the standard developed by 16 companies in Japan as the interface of turning mill machine based on the two-face restraint type standard "ISO 12164-1:2001 HSK Standard Shank".
- This standard became an International Standard as ISO Standard "ISO12164-3: 2008" in 2008. Description is shown as HSK-T○○.

Features

- ① Compatible with HSK-A type for Machining Center.



- ② Machining precision at turning has improved by minimizing the gap between the drive key slot at toolholder side and the drive key at toolpost side.

Table 1: Comparison of the gap of a key and key slot

	(mm)									
HSK-A63 Tolerance	12.25	12.35								
	Key tolerance		0.10	Min. gap	0.15		0.08			
							12.5	Keyslotted tolerance	12.58	
				Max. gap	0.33					
HSK-T63 Tolerance	12.2	12.3	12.4	12.5	12.6					
			0.025							
		12.385	12.41							
		Min. gap	0.015		0.035					
			12.425	12.46						
				Max. gap	0.075					

Table 2: Effect of the gap

