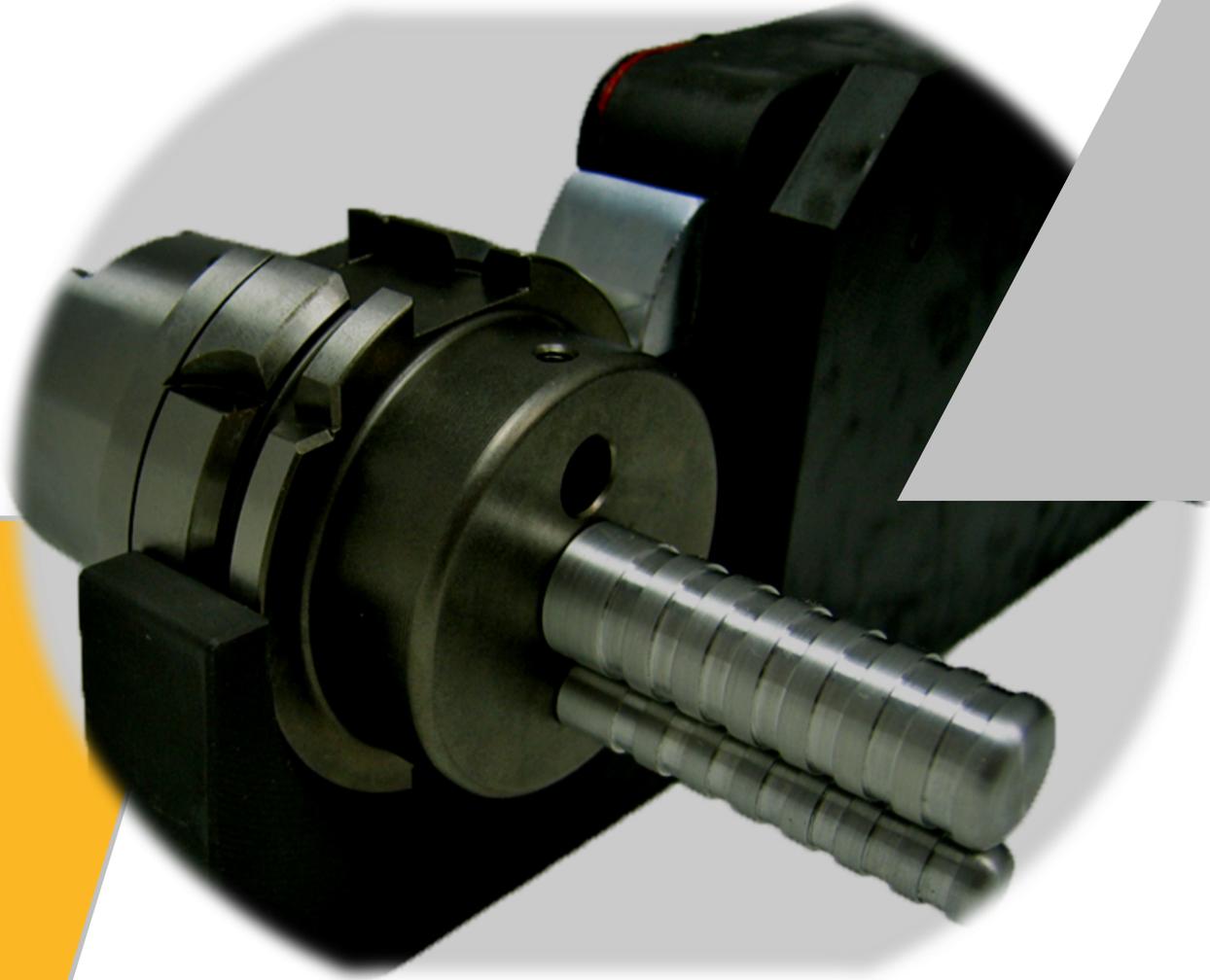


TESSMA



**Tool Changer
Alignment Gauge**

Tool changer alignment gauges are used to check automatic tool changer positioning between the gripper arm, magazine, tool holder, and the spindle.



Tool changer alignment gauges verify proper alignment between the tool changer spindle. Improper alignment can result in abnormal wear on the spindle interface, tool changer, and tool holder. In addition, mis-clamping and dropped tools can also occur.

Tool changer alignment gauges from TEsSMa make correct alignment between the spindle and automatic tool changer easy.

TESSMa Tool changer alignment gauges are available as standard for many common interfaces and machine tools

Steep Taper	tag.is030.001	DIN 69871 DIN ISO 7388-1	SK 30
	tag.is040.001		SK 40
	tag.is050.001		SK 50
	tag.bt030.001	JIS B 6339	MAS-BT 30
	tag.bt040.001		MAS-BT 40
	tag.bt050.001		MAS-BT 50
	tag.ac040.001	ASME B5.50	SK 40
HSK Taper	tag.ha032.001	DIN 69893 ISO 12164	HSK-A/E 32
	tag.ha040.001		HSK-A/E 40
	tag.ha050.001		HSK-A/E 50
	tag.ha063.001		HSK-A/E 63
	tag.ha080.001		HSK-A/E 80
	tag.ha100.001		HSK-A/E 100
	tag.hf063.001		HSK-F 63
Polygonal Taper PSC	tag.ps040.001	ISO 26623	PSC 40
	tag.ps050.001		PSC 50
	tag.ps063.001		PSC 63
	tag.ps080.001		PSC 80
Ball Track System	tag.ts063.001	ISO 26622	TS 63

HSK, PSC and TS taper sets include taper and flange, axial and radial alignment pins, and a padded carrying case

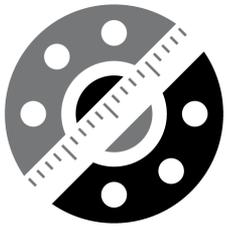


Steep taper sets include taper and flange, alignment pin, extraction screw, and a padded carrying case



Special versions, such as for MAZAK Integrex i-250H ST with HSK or PSC interface (see picture), are partly already





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Steep Taper (SK)-interface

- Steep taper for automated tool change
DIN 69871 part 1: Form A
- JIS B 6339 (former MAS-BT)
- SME B5.50 (ANSI/CAT)



PSC-interface (known as Capto)

- Applied for patent 1988 Market introduction 1990 >Capto<
- Polygonal taper interface with flange surface contact
ISO 26623-1



HSK-interface

- Standard for rotating tool holders:
ISO 12164-1 Style A and C
DIN 69893-1 Form A and C
DIN 69893-6 Form F
- Standard for lathe tool holders:
ISO 12164-3 Form T "Turning"



TS-interface (vgl. KM)

- Applied for patent 1987
Market introduction 1989 >KM<
- Modular taper interface with ball tracking system ISO 26622-1



Morse Taper Interface

- Morse Taper DIN 228

