

TES SMA



Spindel Service Case



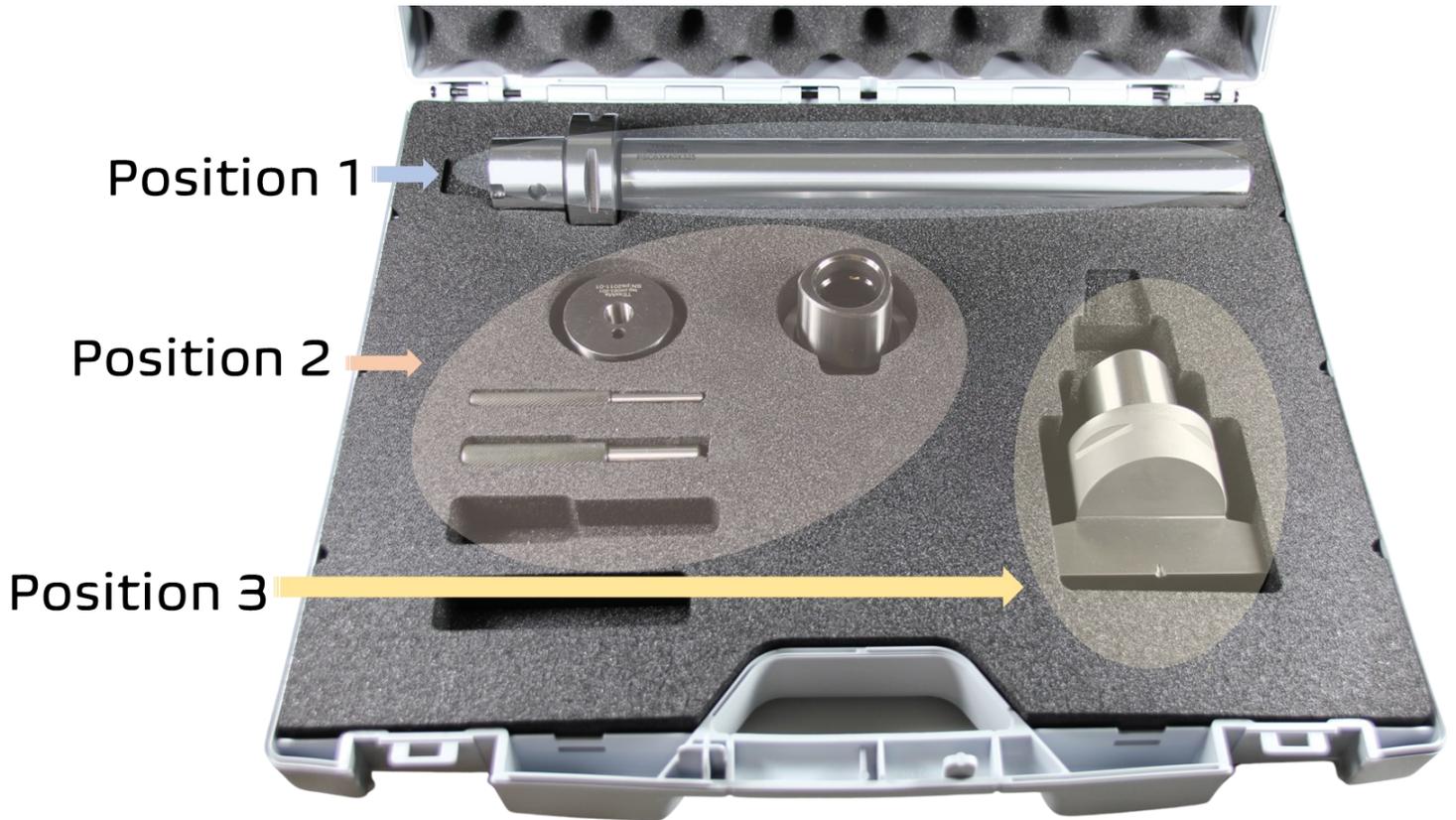
TESSMA



The **TESSMa Spindle Service Case** includes the 3 most often needed gauges to adjust machine spindles:

- **Runout Test Arbor**
offer a quick and easy way to verify that a machine spindle is running true after a crash, after a machine has been moved, or periodically as a performance check.
- **Ball End Arbors**
TESSMa ball end spindle runout test arbors are designed checking positioning accuracy of 5-axis machines. They are available for various machine spindle interfaces in standard, medium and long versions
- **Tool Changer Alignment Gauge**
are used to check automatic tool changer positioning between the gripper arm, magazine, tool holder, and the spindle.
- **Center Height Gauge**
allows the spindle center and spindle orientation to be checked. In addition, the gauge can also be used for tool presetter verification.
- **Reference Tools**
Reference and calibration tools for calibrating and adjusting your setting and measuring devices.

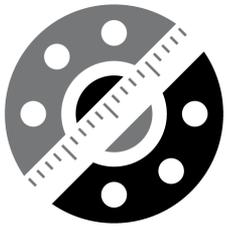
Offer request:



Please mark the desired gauges with a cross at the corresponding interface :

Please mark with a cross max. 1 cross per position and spindle interface			Position 1		Position 2	Position 3		
			runout test arbor	ball end arbor	alignment gauge	master gauge	reference gauge	ball end arbor
machine tool spindle interface								
	DIN ISO 7388-1 (DIN 69871)	SK40						
		SK 50						
	DIN ISO 7388-2 (JIS B 6339)	BT40						
		BT50						
	ISO 12164-1 (DIN 69893)	HSK-A 63						
		HSK-A 80						
		HSK-A100						
	DIN 69893-6	HSK-F 63						
		ISO 26623-1	PSC 63					
		PSC 80						

Special application, please describe:



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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 (known as 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

