

Technical datasheet: TANDEM KSF plus, KSF-LH plus, KSF-F plus

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Functional description:

The force reversal in the vise is carried out by a wedge hook principle and guarantees a high force transmission. The cylinder piston is moved downwards using spring force. The base jaws connected to the chuck piston via an incline are therefore moved inwards. The jaw movement to the outside is generated by the pneumatic pressurization of the piston chamber against the spring force.

Note: Use for O.D. clamping only!



KSF plus

Characteristics	Description											
	KSF plus				KSF-LH plus				KSF-F plus			
	100	140	160	250	100	140	160	250	100	140	160	250
Max. pressure	6 bar	6 bar	6 bar	6 bar	6 bar	6 bar	6 bar	6 bar	6 bar	6 bar	6 bar	6 bar
Clamping force, (Turbo)*	10 kN	16 kN	25 kN	50 kN	4,5 kN, (10 kN)	7,5 kN, (17,5 kN)	10 kN, (25 kN)	16 kN, (38 kN)	10 kN	16 kN	25 kN	50 kN
Weight	5 kg	9,4 kg	16 kg	42 kg	5 kg	9,5 kg	16 kg	42 kg	5 kg	9,4 kg	16 kg	42 kg
Repeatability **	0,01 mm	0,01 mm	0,02 mm	0,03 mm	0,01 mm	0,01 mm	0,02 mm	0,03 mm	0,01 mm	0,01 mm	0,02 mm	0,03 mm
Stroke/jaw	2 mm	3 mm	3 mm	5 mm	6 mm	7 mm	8 mm	15 mm	4 mm	6 mm	6 mm	10 mm
Air consumption	500 cm ³	1200 cm ³	1700 cm ³	4600 cm ³	500 cm ³	1200 cm	1700 cm ³	4600 cm ³	500 cm ³	1200 cm ³	1700 cm ³	4600 cm ³
Closing-/opening time	0,2 s	0,6 s	0,4 s	1 s	0,2 s	0,6 s	0,4 s	1 s	0,2 s	0,6 s	0,4 s	1 s
Distance »H«*	16 mm	20 mm	25 mm	40 mm	16 mm	20 mm	25 mm	40 mm	16 mm	20 mm	25 mm	40 mm
Max. jaw height	60 mm	60 mm	60 mm	150	150 mm ***	120 mm ***	200 mm ***	500 mm ***	60 mm	60 mm	60 mm	150 mm

* Clamping force is the arithmetic sum of the individual forces present at the chuck jaws at a clearance of „H“ at maximum pressure and maximum torque

** The repeat accuracy is the result from the end position spreads after 100 consecutive strokes

*** When used without turbo function

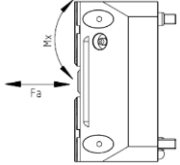
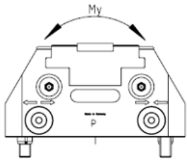
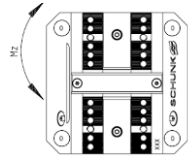
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2 integrated jaws interfaces	Tongue and groove and fine serration
Definition of the clamping module in terms of MRL Directive 2006/42/EC	Incomplete machine
Design	One- piece rectangular base body
Accuracy to the centre	Z- variant: ± 0.01 Fitting screw: $\pm 0,02$ Clamping sleeve: ± 0.04

Control of the clamping force block	From the side or bottom as desired
Small clearance	Prevents the ingress of dust and chips into the tensioner
PL (Performance Level)	Not applicable because the module is no safety component
Application of proven and basic safety principles according to DIN 13849-2 attachment A	E.g. proven springs, application suitable materials and manufacturing processes, correct dimensioning etc.

Maximum load on the tensioner

Size						
	Mx		My		Mz	Fa
100	250 Nm		250 Nm		250 Nm	5000 N
140	400 Nm		400 Nm		400 Nm	8000 N
160	500 Nm		500 Nm		500 Nm	10000 N
250	1200 Nm		1200 Nm		1200 Nm	20000 N