

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

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Functional description:

The force transfer in the vise is carried out by a wedge hook principle and guarantees a high force transmission. The cylinder piston is moved up or down by supplying air. The base jaws connected to the chuck piston via an incline are therefore moved outwards or inwards.

The double- acting cylinder ensures safe external or internal clamping of workpieces.



Characteristics	Description														
	KSP plus					KSP-LH plus					KSP-F plus				
	64	100	140	160	250	64	100	140	160	250	64	100	140	160	250
Max. actuation pressure	9 bar	9 bar	9 bar	9 bar	6 bar	9 bar	9 bar	9 bar	9 bar	6 bar	9 bar	9 bar	9 bar	9 bar	6 bar
Clamping force*	4,5 kN	18 kN	30 kN	45 kN	55 kN	2,3 kN	8 kN	15 kN	20 kN	20 kN	4 kN	18 kN	30 kN	45 kN	55 kN
Weight [kg]	1.5 kg	4 kg	7.1 kg	11 kg	32 kg	1.5	4 kg	7.2 kg	11 kg	32 kg	1.5 kg	4 kg	7.1 kg	11 kg	32 kg
Repeatability **	0.01 mm	0.01 mm	0.01 mm	0.02 mm	0.03 mm	0.01 mm	0.01 mm	0.01 mm	0.02 mm	0.03 mm	0.01 mm	0.01 mm	0.01 mm	0.02 mm	0.03 mm
Stroke/jaw	2 mm	2 mm	3 mm	3 mm	5 mm	4 mm	6 mm	7 mm	8 mm	15 mm	4 mm	4 mm	6 mm	6 mm	10 mm
Air consumption per double stroke	220 cm ³	1000 cm ³	2300 cm ³	3400 cm ³	9000 cm ³	260 cm ³	1000 cm ³	2300 cm ³	3400 cm ³	9000 cm ³	220 cm ³	1000 cm ³	2300 cm ³	3400 cm ³	9000 cm ³
Closing-/opening time	0.1 s	0.2 s	0.3 s	0.4 s	1 s	0.1 s	0.2 s	0.3 s	0.4 s	1 s	0.1 s	0.2 s	0.3 s	0.4 s	1 s
Distance »H« *	10 mm	16 mm	20 mm	25 mm	40 mm	10 mm	16 mm	20 mm	25 mm	40 mm	10 mm	16 mm	20 mm	25 mm	40 mm
Max. jaw height	60 mm	60 mm	60 mm	60 mm	150 mm	120 mm	150 mm	120 mm	200 mm	500 mm	60 mm	60 mm	60 mm	60 mm	150 mm

* Clamping force is the arithmetic sum of the individual forces present at the vise jaws at a clearance of „H“ at maximum pressure and maximum torque. The clamping force is linear to the actuation pressure.

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

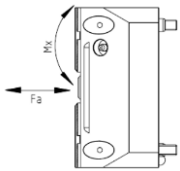
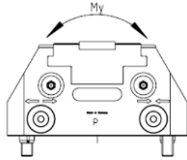
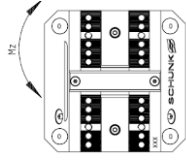
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2 integrated jaws interfaces	Tongue and groove and fine serration or jaw quick- change (BWM)
Definition of the clamping force block in terms of MRL 2006/42/EG	Incomplete machine
Design	One- piece rectangular base body
Accuracy to the centre	Z-variant: ± 0.01 mm Fitting screw: ± 0.02 mm Clamping sleeve: ± 0.04 mm

Control of the clamping modules	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.
Optional	Incl. inductive proximity switch

Maximum load on the tensioner

Size					
	M_x	M_y	M_z	F_a	
64	75 Nm	75 Nm	75 Nm	2000 N	
100, (BWM)	250 Nm, (on request)	250 Nm, (on request)	250 Nm, (on request)	5000 N, (on request)	
140, (BWM)	400 Nm, (on request)	400 Nm, (on request)	400 Nm, (on request)	8000 N, (on request)	
160, (BWM)	500 Nm, (on request)	500 Nm, (on request)	500 Nm, (on request)	10000 N, (on request)	
250, (BWM)	1200 Nm, (on request)	1200 Nm, (on request)	1200 Nm, (on request)	20000 N, (on request)	