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Double Column SKD Series

Vertical lathe SKJ series are a modern single-column multipurpose machine tool designed for work-pieces up to nominal diameter 629", height 157" and weight 220,000lbs. It is constructed with a traveling column and cross rail, rail head and side head (optional). It enables turning in a large range of work-piece diameters at the most favorable position of the column and thus also better utilization of the side head. These concepts are useful especially for turning of ring-shaped work-pieces, which have a larger diameter and do no need machining in the centers. The machine consists of a modular system of main assemblies and equipment that enables creating, in addition to the standard ones, special designs of machines customized to the customer's specific requirements.

	SKD28-35D	SKD32-35D	SKD40/47D	SKD50/53D	SKD63/65D
	Vertical turning lathe, double column	Vertical turning lathe, double column	Vertical turning lathe, double column	Vertical turning lathe, double column	Vertical turning lathe, double column
Machining capacity					
Nominal diameter of turning2	3 500mm (137")	3 500mm (137")	4 700mm (185")	5 300mm (216")	6 500mm (255")
Max.turning diam. to the centre of table	-	-	-	-	-
Max. height of workpiece over table	2 500mm (98.4")	2 500mm (98.4")	2 500mm (98.4")	4 000mm (157")	4 000mm (157")
Table diameter	2 800mm (110")	3 200mm 126")	4 000mm (157")	4 700mm (185")	6 300mm (248")
Maximum load	50 000 kg (110,000 lb)	50 000 kg (110,000 lb)	60 000kg (132000 lbs)	100000kg (220,000 lbs	100000kg (220,000 lbs
Maximum torque	228 kNm (168,163 lbf	228 kNm (168,163 lbf	228 kNm (168,163 lbf	236kNm (174,064 lbf	236kNm (17,064 lbf
Main drive motor output	2x71kw (2x95hp)	2x71kw (2x95hp)	2x71kw (2x95hp)	2x71kw (2x95hp)	2x71kw (2x95hp)
Table revolutions 1st stage	0,87-25	0,87-25	0,7-20	0,5-12	0.5-10
2nd stage	3,5-100	3,5-100	2,8-80	2,5-50	2.0-40
Right head - horizontal cross rail travel	2 830mm (111")	2 830mm (111")	3 550mm (139.7")	3 800mm (149")	4 800mm (189")

Left head - horizontal cross rail travel3)	2 300 mm (90.5")	2 300 mm (90.5")	3 000mm (118")	3 300mm (130"	4 300mm (169")
Side head - vertical cross rail travel4)	1400 mm (55”)	1 400 mm (55")	1 400 mm (55")	2 800mm (110")	2 800mm (110")
Crossing of ram axis over the table centre	20 mm (0.78”)	20 mm (0.78”)	20 mm (0.78”)	20 mm (0.78")	20 mm (0.78")
Ram slide	1600 mm (2000) 62” (78.7”)	1 600mm (2 000) 62" (78.7")	1 600mm (2 000) 62" (78.7")	2 000mm (2 500)78.7"(98.4")	2 000mm (2 500)78.7"(98.4")
Feeds	0,1- 8 000mm (314 ipm)	0,1- 8 000mm (314 ipm)	0,1- 8 000mm (314 ipm)	0,1- 8 000mm (314 ipm)	0,1- 8 000mm (314 ipm)
Rapid traverse	8 000mm /min(314 ipm)	8 000mm /min(314 ipm)	8 000mm /min(314 ipm)	8 000mm /min(314 ipm)	8 000mm /min(314 ipm)
Ram cross-section	340x340mm (13.3"x13.3")	340x340mm (13.3"x13.3")	340x340mm (13.3"x13.3")	340x340mm (13.3"x13.3")	340x340mm (13.3"x13.3")
Maximum tool cross-section	50x50 mm ,1.96 x1.96"	50x50 mm ,1.96 x1.96"	50x50 mm ,1.96 x1.96"	50x50 mm ,1.96 x1.96"	50x50 mm ,1.96 x1.96"
Maximum cutting force5)	100kN (22480 lbf)	100kN (22480 lbf)	100kN (22480 lbf)	100kN (22480 lbf)	100kN (22480 lbf)
Cross rail stroke	1800 mm (73.7”)	1800 mm (73.7”)	1800 mm (73.7”)	3 000mm (118")	3 000mm (118")
Traverse speed	500mpm (19.6 ipm)	500mpm (19.6 ipm)	500mpm (19.6 ipm)	500mpm (19.6 ipm)	500mpm (19.6 ipm)
Column travel		-	-	-	-
Traverse speed		-	-	-	-