

Technical Data Scudding - Vertical Machines

Working range		S-150	S-250	S-500
Machining Ø, max (external)	mm	150	250	500
Machining Ø, max (internal)	mm	150	250	400
Clamping chuck Ø, max.	mm	215	315	630
Slide travel z	mm	180	500	500
Slide travel x	mm	800	1,400	1,700
Work piece spindle				
Driving power 100%	kW	17	35	35
Driving power 40%	kW	22	40	40
Max. speed (rpm)	Nm	100	430	536
Torque, 40% ED	Nm	128	610	694
Rotation speed	min -1	1,600	780	750
Max. rotation speed	min -1	4,500	2,200	3,500
Measuring system	Type	Heidenhain ERM 2280 (2048 I/U)	Heidenhain ERA 4880 C (5000 I/U)	Heidenhain ERA 4880 C (5000 I/U)
Front bearing Inside-Ø	mm	90	120	150
Clamping cylinder		OVS-85	OVS-85	OVS-105
Spindle head	size	A 6	A 8	A 11
Work tool spindle				
Driving power 100%	kW	27.5	27.5	35
Driving power 40%	kW	27.5	27.5	40
Rotation speed 100%	Nm	75	75	430
Rotation speed 40%	Nm	102	102	610
Rotation speed	min -1	3,500	3,500	780
Max. rotation speed	min -1	7,000 (limited)	7,000 (limited)	3,500
Measuring system	Type	Heidenhain ERM 2280 (2048 I/U)	Heidenhain ERM 2280 (2048 I/U)	Heidenhain ERA 4880 C (5000 I/U)
Front bearing Inside-Ø	mm	80	80	120
Spindle head	size	HSK-C 63	HSK-C 63	HSK-C 100
Feed drives				
Axis drive x		AC servo motor	AC servo motor	AC servo motor
Axis drive z		AC servo motor	AC servo motor	AC servo motor
Ball screw diameter Ø	mm	40	40	40
Rapid traverse x	m/min	60	60	60
Rapid traverse z	m/min	30	30	30
Max. Feed force X / Z 40% ED	kN	8 / 10 kN	8 / 10 kN	8 / 10 kN
Work piece handling				
Travel speed shuttle	m/min	120	120	120
CNC-controlled				
Brand		Siemens Sinumerik	Siemens Sinumerik	Siemens Sinumerik
Type		840 D sl	840 D sl	840 D sl
General data				
Dimension Base machine (space requirement) (LxBxH)		1.840 x 2.600 x 2.900	3.870 x 4.375 x 3.140	3.870 x 4.375 x 3.140
Weight, approx.	kg	10,000	15,000	16,000
Connected load	kW	45	65	75