

MACHINE COMPARISON



Kern Fortis HD



Kern Micro HD+



Kern Micro HD



Kern Micro Vario



max. travel X-axis	[mm]	780	350	350	350
max. travel Y-axis	[mm]	420	220	220	220
max. travel Z-axis	[mm]	450	250	250	250
max. feed/fast movement X, Y, Z-axis	[m/min]	60	60	60	30
max. acceleration X-axis	[m/s²]	10	10	10	10
max. acceleration Y-axis	[m/s²]	10	12	12	10
max. acceleration Z-axis	[m/s²]	15	20	20	10
Spindle option 1	HSK interface	CSC HSK-E 40	HSK-E 25	HSK-E 25	HSK-E 25
	max. spindle speed	45.000	80.000	80.000	50.000
	Bearing	rolling bearing	air bearing	air bearing	rolling bearing
	Power S1	15	5,8	5,8	6
	Rated torque S1	6	0,7	0,7	1,4
	Amount of max. tools	349	241	241	241
Spindle option 2	HSK interface	CSC HSK-A 63	CSC HSK-E 40	HSK-E 40	HSK-E 40
	max. spindle speed	24.000	45.000	42.000	42.000
	Bearing	rolling bearing	rolling bearing	rolling bearing	rolling bearing
	Power S1	29	15	15	15
	Rated torque S1	69.2	6	6	6
	Amount of max. tools	154	210	210	210
max. table load	[kg]	on request	50	50	50
max. workpiece size	[Ø x mm]	565 x 350	350 x 200	350 x 200	350 x 200
Control		Heidenhain TNC7	Heidenhain TNC7	Heidenhain TNC7	Heidenhain TNC7
L x W x H (without aspiration)	[mm]	4,063 x 3,140 x 3,500	2,800 x 1,640 x 2,740	2,800 x 1,640 x 2,740	2,800 x 1,640 x 2,740
Weight	[kg]	16,400	5,500	5,500	5,200
Automation tool changer		internal	internal	internal	internal
Automation workpiece changer		external	internal/external	internal/external	internal/external
Drives		linear motor	linear motor	linear motor	ball screw
Guidance system linear (X/Y/Z)		hydrostatic	hydrostatic	hydrostatic	bearing guide
Drives		torque motor	torque motor	torque motor	torque motor
Guidance system 4th/5th axis (B/C)		bearing guide	hydrostatic	bearing guide	bearing guide