

		Xmatic
<b>Capacity</b>	Individual specimens	No
	Specimen holder	Diameter: 140 mm for 250 mm MD disc Diameter: 160 mm for 300 mm MD disc
<b>High speed plane grinding station</b>	Diameter	270 mm
	Speed	1450 rpm
	Material removal	0.05 mm - 6 mm, variable in steps of 0,05 mm
	Rotational direction	Clockwise
	Recirculation system	Yes
	<b>Motor power</b>	
	Continuous (s1)	2.2 kW
<b>MD grinding and polishing station</b>	Diameter	250 mm or 300 mm
	Rotational speed	50 - 600 rpm (1000 rpm when spin-drying the disc)
	Rotational direction	Clockwise
	<b>Motor power</b>	
	Continuous (s1)	1.5 kW
<b>Specimen mover</b>	<b>Specimen holder</b>	
		Only applicable with RFID-tag holders
	Max. weight	4 kg (8.8 lbs) incl. specimens
	Max. specimen height	40 mm
	Max. specimen protrusion under holder	6 mm
	Force	50 - 500 N in steps of 10 N
	Force accuracy	+/-10% up to 100N, +/-10N on higher values
	<b>Rotational speed</b>	
	in process	50 - 300 rpm, variable in steps of 10
	when drying	1200 rpm
	Rotational direction	Counter-clockwise, Clockwise
	Motor	1.1 kW
	Torque	7.3 Nm @ 150 rpm
	<b>Vertical conveyor</b>	Number of specimen holders
<b>MD elevator</b>	Number of MD surfaces	8
<b>Cleaning station</b>	High pressure water	40 bar
	Alcohol and soap	Yes

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<b>Features</b>	Material removal	0.05 mm - 6 mm on MD grinding and polishing station
	Dressing of high removal grinding stone	Automatic diamond tip
	Dressing of MD surfaces	Automatic (diamond tip/aluminum oxide stick)
	Automatic dosing	7 pumps for OP or DP suspension
		1 alcohol ejector for cleaning station
1 soap ejector for cleaning station		
	Automatic cleaning of dosing tubes	
	High speed plane grinding station	Yes
<b>Options</b>	Ultrasonic cleaning	Yes
	Recirculation for MD grinding/polishing station	Yes
<b>Software and electronics</b>	Touchscreen	Capacitive
	Display	LCD, 12.1" (1280 x 800)
<b>Safety standards/directives/legislation</b>	See the Declaration of Conformity/Instruction manual.	
<b>REACH</b>	For information about REACH, contact your local Struers office.	
<b>Operating environment</b>	<b>Surrounding temperature</b>	
	During operation	5 - 40°C (41 - 104°F)
	During transport	-25°C - 55°C (transport)
		-25°C - 70°C (max. 24 hours during transport)
Humidity	35 - 85 % RH non-condensing	
<b>Water supply (tap water)</b>	Flow	Min. 10 l/m (2.6 gmp)
	Water inlet, connection	3/4"
	Pressure	2 - 9.9 bar (29 - 143 psi)
<b>Waste water outlet</b>	Diameter	50 mm (1.97")
	Outlet height	50 cm (19.7") above the floor
	Max. distance to drain	600 cm
	Slope	Min. 8%
<b>Compressed air supply</b>	Pressure	6 - 9.9 bar (87 - 143 psi)
	Flow	Min. 200 l/m (53 gpm)
	Recommended quality	Class-3, as specified in ISO 8573-1

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<b>Power supply</b>	Voltage/frequency	220 V/430 V +/-10% (50/60Hz)
	Power inlet	15 A
	<b>Power</b>	
	Nominal load	1.5 KW
	Idle	195 W
	<b>Current</b>	
	Nominal	6 A/4 A
	Max.	15 A/7.5 A
	Current, largest load	4.6 A
<b>Exhaust</b>	Diameter	100 mm (2")
	Recommended capacity	250 m <sup>3</sup> /h (8830 ft <sup>3</sup> /h)
<b>Dimensions and weight</b>	Width	242.5 cm (95.5")
	Depth	75.0 cm (29.5")
	Height	189.0 cm (74.4")
	Height (with open cover)	244.0 cm (96.0")
	Weight	960 kg (2116.4 lbs)
<b>Safety Circuit Categories/Performance Level</b>	SF-1 Emergency stop	PL c, Category 1 Stop category 0
	SF-2 Abrasive guard interlock	PL d, Category 3 Stop category 0
	SF-3 Limited speed function, stone	PL d, Category 3 Stop category 0
	SF-4 Limited speed function, specimen holder mover	PL d, Category 3 Stop category 0
	SF-5 Main safety cover interlock, hazardous movements	PL d, Category 1 Stop category 0
	SF-5A Main safety cover interlock, water and ethanol	PL c, Category 3 Stop category 0
	SF-6 Main safety cover interlock with locking device	PL a, Category b Stop category 0
	SF-7 MD-changer door locking device	PL c, Category 3 Stop category 0
SF-8 MD-changer door locking device	PL c, Category 1 Stop category 0	



		<b>Xmatic</b>
	SF-9 Vertical conveyor doors interlock	PL d, Category 3 Stop category 0
	SF-10 Recirculation unit doors interlock, MD station	PL b, Category 1 Stop category 0
	SF-11 Recirculation unit doors interlock, grinding stone station	PL b, Category 1 Stop category 0
	SF-12 Exhaust timer	PL b, Category 1 Stop category 0
<b>Noise level</b>	A-weighted sound emission pressure level at workstations	LpA = 64.4 dB(A) (measured value). Uncertainty K = 4 dB
<b>Noise level</b>	Equivalent ultrasound sound pressure level (equivalent level of ultrasound)	Lteq, T=95.2 dB (measured value). Uncertainty K = 2 dB
<b>Noise level</b>	<p>The figures quoted are emission levels and are not necessarily safe working levels. While there is a correlation between the emission and exposure levels, this cannot be used reliably to determine whether or not further precautions are required. Factors that influence the actual level of exposure of the workforce include characteristics of the work room, the other sources of noise, etc., i.e. the number of machines and other adjacent processes.</p> <p>Also, the permissible exposure level can vary from country to country. This information, however, will enable the user of the machine to make a better evaluation of the hazard and risk.</p>	
<b>Vibration level</b>	Declared vibration emission	N/A