



**Xmatic** 

Capacity	Individual specimens	No
	Specimen holder	Diameter: 140 mm for 250 mm MD-Disc
		Diameter: 160 mm for 300 mm MD-Disc
High speed plane grinding station	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
	Motor power	
	Continuous (s1)	2.2 kW
MD grinding and polishing station	Diameter	250 mm or 300 mm
	Rotational speed	50-600 rpm (1000 rpm when spin-drying the disc)
	Rotational direction	Clockwise
	Motor power	
	Continuous (s1)	1.5 kW
pecimen mover	Specimen holder	Only applicable with RFID-tag holders
	Max. weight	4 kg (8.8 lbs) incl. specimens
	Max. specimen height	40 mm (1.6")
	Max. specimen protrusion under holder	6 mm (0.2")
	Force	50 - 500 N in steps of 10 N
	Force accuracy	+/-10% up to 100N, +/-10N on higher values
	Rotational speed	
	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
ertical conveyor	Number of specimen holders	8





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Cleaning station	High pressure water	40 bar	
oteaning station			
	High pressure Pump power	1350 VA	
	High pressure Pump Current	6.5 A single phase	
	Alcohol and soap	Yes	
Features	Material removal sensor	0.05-6 mm on MD grinding and polishing station	
	Methods	Struers methods: All	
		Custom methods: 1200	
	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 clean of dosing tubes	
	High speed plane grinding station	Yes	
Options	Ultrasonic cleaning	Yes	
	Recirluation for MD grinding/polishing station	Yes	
Software and electronics	Touchscreen	Capacitive	
	Display	LCD, 12.1" (1280 x 800)	
fety andards/directives/legislation	See the Declaration of Conformity/Instruction manual.		
REACH	For information about REACH, contact your local Struers office.		
Operating environment	Surrounding temperature		
	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	
Vater supply (tap water)	Flow	Min. 10 L/m (2.6 gmp)	
	Water inlet, connection	3/4"	
	Pressure	2-4 bar (29-58 psi)	





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Vaste water outlet	Diameter	50 mm (1.97")
	Outlet height	50 cm (19.7") above the floor
	Max. distance to drain	600 cm
	Slope	Min. 8%
Compressed air supply	Pressure	6-9.9 bar (87-143 psi)
	Flow	Min. 200 L/m (53 gmp)
	Recommended quality	Class-3, as specified in ISO 8573-1
Power supply	Voltage/frequency	220 V/430 V +/-10% (50/60 Hz)
	Power inlet min.	15 A
	Power	
	Max load	3.6 kW
	Nominal load	1.5 kW
	Idle	250 W
	Current	
	Nominal 220 V	6 A
	Nominal 430 V	4 A
	Max. 220 V	15 A
	Max. 430 V	8 A
	Current, largest load	4.6 A (3 hp.)
	SCCR	25 kA
	Ik min	180 A
	Residual Current Circuit Breaker (RCCB)	The machine has no more than 6mA residual current. RCCB type A can be used.
	Power supply connection terminals	Max. conductor size 10 mm²/AWG 6
Exhaust	Diameter	100 mm (4")
	Minimum capacity	250 m³/h (8830 ft³/h)
Dimensions and weight	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)





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Noise emission level	The figures quoted are emission levels and are not necessarily safe working levels. While there is a co between the emission and exposure levels, this cannot be used reliably to determine whether or not f 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 oth adjacent processes. Also, the permissible exposure level can vary from country to country. This inform	
Ultrasonic noise level	Equivalent ultrasound sound pressure level (equivalent level of ultrasound)	Lteq, T=95.2 dB (measured value). Uncertainty K = 2 dB
Noise level	A-weighted sound emission pressure level at workstations	LpA = 64.4 dB(A) (measured value). Uncertainty K = 4 dB
	Alcohol exhaust timer	Stop category 0
	SF-12	PL b, Category 1
	grinding stone station	Stop category 0
	station  SF-11 Recirculation unit doors interlock, PID	PL b, Category 1
		Stop category 0
	SF-9 Vertical conveyor doors interlock  SF-10 Recirculation unit doors interlock, MD	PL b, Category 1
		Stop category 0
		PL d, Category 3
	MD-elevator door locking device	Stop category 0
	MD-elevator door locking device  SF-8	PL c, Category 1
		Stop category 0
	SF-7	PL d, Category 3
	locking device	Stop category 0
	SF-6 Main safety cover interlock with	PL a, Category b
	ethanol	Stop category 0
	SF-5A Main safety cover interlock, water and	PL c, Category 1
	movements	Stop category 0
	SF-5 Main safety cover interlock, hazardous	PL d, Category 3
	Specificit flotder flover	Stop category 0
	SF-4\Limited speed function, stone  SF-ch\Limited speed function, specimen holder mover	PL d, Category 3
		Stop category 0
	SF-2 Abrasive guard interlock	PL d, Category 3
		Stop category 0
		PL d, Category 3
Categories/Performance Level		Stop category 0
afety Circuit	SF-1	PL c, Category 1

Doc. no.: 16897750\_C\_en Date of release: 2025.04.22