

Technical data		Tegramin-20	Tegramin-25	Tegramin-30
Disc	Diameter	200 mm / 8"	250 mm / 10"	300 mm / 12"
	Speed	40-600 rpm, variable in steps of 10		
	Rotational direction	Counter-clockwise		
	Motor power continuous / max	370 / 555 W / 0.5 / 0.75 HP	750 / 1125 W / 1.0 / 1.5 HP	
	Torque at disc Cont. at <300 rpm Cont. at 600 rpm Max.	11.8 Nm / 8.7 ft-lbf 5.9 Nm / 4.4 ft-lbf > 18 Nm / 13.3 ft-lbf	23.8 Nm / 17.6 ft-lbf 11.9 Nm / 8.8 ft-lbf > 40 Nm / 29.6 ft-lbf	
Head	Speed	50-150 rpm, variable in steps of 10		
	Rotational direction	Clockwise, counter-clockwise		
	Force	Individual specimens: 5-50 N	Specimen holder: 30-300 N Individual specimens: 5-50 N	Specimen holder: 30-400 N Individual specimens: 5-65 N
	Motor	120 W		160 W
	Torque	7.5 Nm / 5.6 ft-lbf		10.2 Nm / 7.6 ft-lbf
Software and electronics	Controls	Touch pad and turn/push knob		
	Memory	FLASH-ROM / RAM / NV-RAM		
	LC Display	TFT-colour 320x240 dots with LED back light		
Safety	Please refer to the Declaration of Conformity			
Stop Mechanisms Designed to comply with:	Emergency stop	EN60204-1, Stop Category 0 EN954-1, Category 2		
	Cover	EN60204-1, Stop Category 2 EN954-1, Category B		
Noise level	At idle running, at a distance 1.0 m / 39.4" from the machine	47 dBA		
	During preparation	Polishing 54 dBA, Grinding 56 dBA		
Surrounding temperature	5-40°C / 41-104°F			
Humidity	Non condensing	0-95% RH		
Supply	Voltage / frequency	200-240 V / 50-60 Hz		
	Power Inlet	1-phase (N+L1+PE) or 2-phase (L1+L2+PE) The electrical installation must comply with "Installation Category II".		
	Power, nominal load	680 W	1060 W	
	Power, idle	9 W	13 W	
	Current, nom.	3.4 A	5.3 A	
	Current, max.	6.3 A	10 A	
	Pressure for tap water	1-10 bar / 14.5-145 psi		
	Water Inlet	¾"		
	Water outlet	ø30 mm / 1¼"	ø40 mm / 1½"	
	Air inlet	ø6 mm		
	Air pressure	6-10 bar / 86-145 psi		
Air quality	The air supplied must be of Class-3 or better, as specified in ISO 8573-1.			
"Exhaust" (with Cover only)	Dimension	ø50 mm / 2" Recommended capacity for exhaust system: 50 m³/h / 1750 ft³/h at 0 mm water gauge.		
Dimensions and weight (without Cover)	Width	60 cm / 23.6"	67.5 cm / 26.6"	
	Depth	65 cm / 25.6"	75 cm / 29.5"	
	Height	48 cm / 18.9"	56 cm / 22"	
	Weight	52.5 kg / 116 lbs	90 kg / 198 lb	
Dimensions and weight (with Cover)	Width	60 cm / 23.6"	67.5 cm / 26.6"	
	Depth	65 cm / 25.6"	75 cm / 29.5"	
	Height (cover closed/open)	50 cm / 19.7" / 85 cm / 33.5"	58.2 cm / 22.9" / 90 cm / 35.4"	
	Weight	58 kg / 128 lbs	98 kg / 216 lb	

Struers' equipment is in conformity with the provisions of the applicable International Directives and their appurtenant Standards (please contact your local supplier for details).

Struers' products are subject to constant product development. Therefore, we reserve the right to introduce changes in our products without notice.

SPECIFICATIONS

Cat.no

Tegramin-30

Automatic, microprocessor controlled machine for grinding and polishing of specimens on 300 mm MD-Disc with cone. Dosing modules, MD-Disc with cone and specimen holders are ordered separately. 06036127

Tegramin-30 with cover

Automatic, microprocessor controlled machine for grinding and polishing of specimens on 300 mm MD-Disc with cone. With transparent cover. Dosing modules, MD-Disc with cone and specimen holders are ordered separately. 06036227

Tegramin-25

Automatic, microprocessor controlled machine for grinding and polishing of specimens on 250 mm MD-Disc with cone. Dosing modules, MD-Disc with cone and specimen holders are ordered separately. 06026127

Tegramin-25 with cover

Automatic, microprocessor controlled machine for grinding and polishing of specimens on 250 mm MD-Disc with cone. With transparent cover. Dosing modules, MD-Disc with cone and specimen holders are ordered separately. 06026227

Tegramin-20

Automatic, microprocessor-controlled machine for grinding and polishing of specimens on 200 mm MD-Disc with cone. Dosing modules, MD-Disc with cone and specimen holder's are ordered separately. 06016127

Tegramin-20 with cover

Automatic, microprocessor-controlled machine for grinding and polishing of specimens on 200 mm MD-Disc with cone. With transparent cover. Dosing modules, MD-Disc with cone and specimen holder's are ordered separately. 06016227

Tegramin Dosing Module with 1 DP pump

To be installed on Tegramin-30 / -25 or -20. With one pump for diamond suspensions or lubricants. 06036900

Tegramin Dosing Module with 2 DP pumps

To be installed on Tegramin-30 / -25 or -20. With two pumps for diamond suspensions or lubricants. 06036901

Tegramin Dosing Module with 2 DP and 1 DP pump

To be installed on Tegramin-30 / -25 or -20. With two pumps for diamond suspensions or lubricants and one pump for DP suspensions. 06036902

Lavamin

Specimen cleaning unit for cleaning of specimen holders up to 160 mm dia. and for individual specimens in specimen mover plates for Tegramin-25, -30, TegraForce-5 and FotoForce-4. 06236133

Bottle tray for Tegramin. With space for six ½ l bottles and one 1l bottle. To be used with Tegramin-30 / -25 or -20. 06036910

Preparation Discs

MD-Disc with cone for Tegramin-30, 300 mm dia. 06086403
MD-Disc with cone for Tegramin-25, 250 mm dia. 06086402
MD-Disc with cone for Tegramin-20, 200 mm dia. 06086401

Cover

Transparent cover for Tegramin-25/-30 06036903
Transparent cover for Tegramin-20 06016903

Lid

For Tegramin-25 and Tegramin-30 06036906
For Tegramin-20 06016906

Splash guard

for manual preparation For Tegramin-30 06036905
For Tegramin-25 06026905
For Tegramin-20 06016905

Disposable bowl liner

For Tegramin-25 / -30. 5 pcs. 49900052
For Tegramin-20. 5 pcs. 49900056

Shift valve for Tegramin

For recirculation cooling unit (05766xxx) or drain. 06036904

Struers Cooling Unit, System 3. With 50 l tank, small pump, Cool-1, 50 l static filter with filter paper.

1 x 100 V / 50 Hz 05766516
1 x 220-240 V / 50 Hz 05766522
1 x 100-120 V / 60 Hz 05766523
1 x 220-240 V / 60 Hz 05766524
1 x 100-120 V / 50-60 Hz CSA 05766616

Levelling device. For levelling of specimens in specimen holders (ø 140 mm)

05256903

Levelling device, Uniforce. For levelling of specimens in specimen holders ø 140, 160 and 200 mm. With pressure foot for positioning of specimens04886101
04886102**Coupling**

For Tegramin-30 and Tegramin-25 specimen mover plates. 06086901
For Tegramin-20 specimen mover plates. 06086900

Specimen mover plates, for individual specimens

	For Tegramin-25	For Tegramin-30
Without holes	06086906	06086936
For 6 specimens 25 mm dia.	06086902	06086932
For 6 specimens 1" dia.	06086909	06086939
For 6 specimens 30 mm dia.	06086903	06086933
For 6 specimens 1¼" dia.	06086910	06086940
For 6 specimens 1½" dia.	06086911	06086941
For 6 specimens 40 mm dia.	06086904	06086934
For 3 specimens 50 mm dia.	06086905	-
For 3 specimens 2" dia.	06086943	-
For 6 specimens 50 mm dia.	-	06086935
For 6 specimens 2" dia.	-	06086942
For 6 specimens 20 x 30 mm	-	06086944
For Accustop 30	06086907	06086937
For Accustop 40 + TYNDS	-	06086938

Specimen mover plates for Tegramin-20, for individual specimens

Without holes	06086918
For 4 x 25 mm dia.	06086912
For 4 x 30 mm dia.	06086913
For 4 x 40 mm dia.	06086914
For 4 x 1" dia.	06086915
For 4 x 1¼" dia.	06086916
For 4 x 1½" dia.	06086917

**Lavamin - Fully automatic cleaning unit**

You save time with a faster cleaning process and the opportunity to change the preparation surface while the specimens are being cleaned. Automated cleaning perfection every time and avoid replacement of preparation surfaces due to accidental contamination. In addition to saving you time and costs, Lavamin eliminates chemical cleaning agents and leaves no environmental footprint.



A wide range of specimen mover plates are available for Tegramin.

