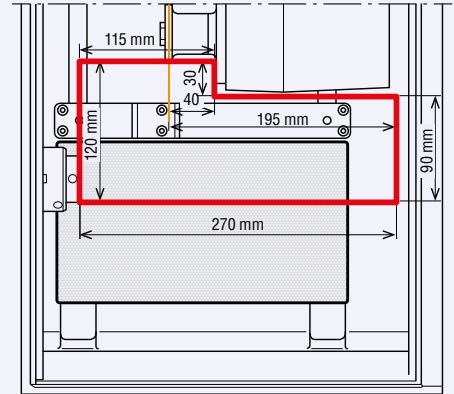
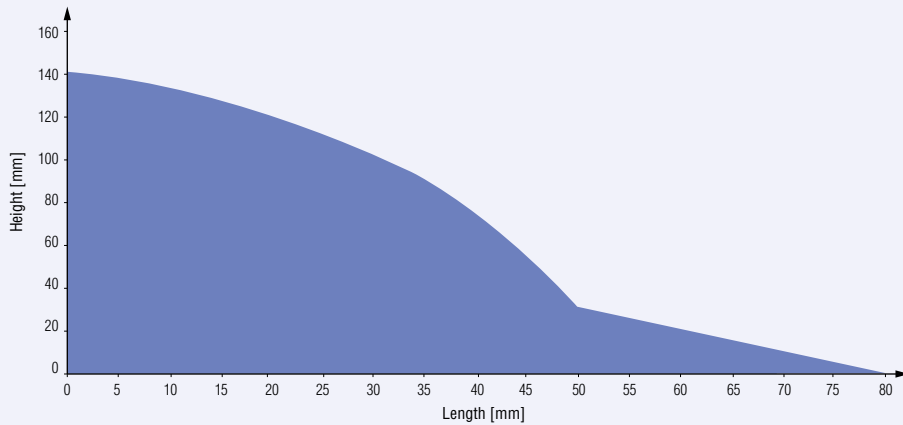


TECHNICAL DATA - Accutom-10/-100

CUTTING CAPACITY



Subject	Accutom-10	Accutom-100
Specimen holder rotation and oscillation	Yes	Yes
Automatic rotation of specimen holder	No	Yes
Motor rotation speed	300-3000 rpm adjustable in steps of 50 rpm	300-5000 rpm adjustable in steps of 50 rpm
Grinding		Feed speed: 0.5 - 7.5 mm/s adjustable in steps of 0.5 mm/s
Cutting		Feed speed: 0.005 - 3 mm/s adjustable in steps of 0.005 mm/s
Positioning speed		Y= 13 mm/s X= 10 mm/s
Positioning range		X direction: 60 mm (precision 0.005 mm) Y direction: 110 mm (precision 0.1 mm)

PHYSICAL SPECIFICATIONS

Cutting capacity	
Cut-off wheel:	75 mm (3") - 150 mm (6") dia. Arbor size: 12.7 mm
Length of cut-off specimen:	40 mm / 195 mm for 25 mm dia.
Length of workpiece to be clamped:	250 mm
Workpiece width and height:	50 x 130 mm
Workpiece cross section:	54 mm without rotation / 108 mm with rotation
Grinding capacity	
Cup wheel:	100 mm (4") - 150 mm (6") dia. Arbor size: 12.7 mm
Sample:	95 x 95 mm (3.7" x 3.7")
Power	
Nominal load	370 W synchronous motor with high energy efficiency and constant torque in various rpm
Current max	10 A
Dimensions	
Height:	440 mm (17.3") cover closed 1065 mm (42") cover open
Width:	644 mm (25.4")
Depth:	720 mm (28.3") 784 mm (30.9") with plug
Weight	68 kg
Software and electronics	
Controls	Touch pad and push/turn knob
Memory	FLASH-ROM/RAM/NV-RAM
LC Display	TFT-colour 320 x 240 dots with LED back light
Noise level	60 dBA, at idle running, at a distance 1.0 m (39.4")
Surrounding temperature	5 - 40 °C (41-104 °F)
Humidity	0 - 95 % RH, non condensing
Safety	Please refer to the Declaration of Conformity
Recirculation cooling unit	
Contents	4.75 l (1.25 gallon)
Flow	1.6 l/min. (0.4 gallon/min.)

SPECIFICATIONS

Accutom-10

Precision cut-off machine with variable speed (300 - 3000 rpm). Variable automatic feed speed and motorized positioning system with digital read-out. Built-in specimen holder rotation and oscillation. Three changeable cutting methods. Complete with recirculation cooling unit, flange set 50 mm dia. and tray for extra filter paper and collection of cut specimens. Specimen holders, cut-off wheels and Corrozip (additive for cooling fluid cat. No. 49900045) are ordered separately.

Cat. no: 06286127 **Voltage:** 200-240 V / 50-60 Hz

Accutom-100

Precision cut-off and grinding machine with variable speed (300 - 5000 rpm). Variable automatic feed speed and motorized positioning system with digital read-out with MultiCut function. Built-in specimen holder rotation and oscillation and vacuum pump connection for vacuum chuck. Cut-off wheel, cup wheel and material database and 100 optional changeable methods included. Complete with recirculation cooling unit, flange set 50 mm dia. and tray for extra filter paper and collection of cut specimens. Specimen holders, cut-off wheels, cup wheels and Corrozip (additive for cooling fluid cat. No. 49900045) are ordered separately.

Cat. no: 06176127 **Voltage:** 200-240 V / 50-60 Hz

Welch Vacuum Pump

Used on Discoplan-TS and Accutom-100. With vacuum: ~907 mbar and output: ~28 l/min. Dimensions L x W x H, cm (in): 37.5 x 21 x 25.5 (14.8 x 8.3 x 10.0).

Cat. no: 061961xx

CONSUMABLES

Cat.no

Diamond Cup Wheel, MOP15 91 µm

For grinding of hard and brittle materials on Accutom-100. Metal bond. Size 150 mm dia. 40800199

Diamond Cup Wheel, MOP15 40 µm

For grinding of hard and brittle materials on Accutom-100. Metal bond. Size 150 mm dia. 40800200

Filter paper, 100 pcs.

For Accutom-10/-100, size 240 x 130 mm (9.4" x 5.1") 49900060

Cut-off wheels

All types of cut-off wheels from the size of 76 - 152 mm / 3 - 6", including abrasive wheels, can be used on Accutom-10/-100. Struers offer a large variety of diamond, CBN, Al₂O₃ and SiC cut-off wheels covering all possible applications. See special brochure for more information about cut-off wheels.

ACCESSORIES

Flange set

Different flanges can be used to achieve the highest precision or the biggest cutting capacity. For Secotom-15/-50 and Accutom-10/-100. 42 mm dia. flange set (max. 168 mm / 6.6" cut-off wheel) 65 mm dia. flange set 110 mm dia. flange set

Flange Set for cup wheels on Accutom-100

For use with cup wheels on Accutom-100

Specimen holders with dovetail

Specimen Holder CATAN

for small workpieces Max. opening: 10 mm

Specimen Holder CATSI

for general use. Max. opening: 60 mm

Specimen Holder CATFF

teardrop type with opening. For workpieces 15 - 40 mm dia.

Specimen Holder CATTY

with 7 screws for irregular workpieces. Max. 40 mm width

Specimen Holder CATRE

for cylindrical workpieces. Max opening 40 mm dia.

Specimen Holder CATAL

for long workpieces. With double parallel vice

Three-jaw Chuck

For centering and clamping cylindrical workpieces up to 65 mm dia.

Tilting Joint CATJO

to be mounted between the dovetail and the specimen holder. The specimen holder can then be angled ± 10°.

Angling Joint CATJA

to be mounted between the dovetail and the specimen holder. The specimen holder can then be angled 30° to one side and 90° to the other side.

Specimen Holder CATNI

with goniometer

Specimen Holder CATPE

for adhering workpieces

Specimen holder CATAP

with ceramic vacuum chuck for thin sections. For one 27 x 46 / 28 x 48 mm glass slide.

Vacuum chuck *

For thin sections. With three separate ceramic vacuum chucks with individual valves. Choose between one to three of 27 x 46 or 28 x 48 mm / two 25 x 75 mm (1 x 3") / one 50 x 75 mm (2 x 3") glass slides. To be used on Accutom-100. Vacuum pump with vacuum of minimum 900 mBar and approx. 34 l/min is recommended to secure the glass slide.

Kit for an external recirculation tank

To be used if you do not want to clean the included tank or where 4.75 litre cooling fluid is not enough. Can also be used if you want to filter the fluid to ensure that the fluid is as clean as possible. Includes 2 x 2 m hoses and front plate to be placed instead of the recirculation tank front.

Struers' equipment conforms 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.

Cat.no

05036901
05996919
05036902



06176902



04276915



04946903



04946904



04946905



04946907



04946909



05036919



04946906



04946908



04276911



04276912



04276913



06176901



05996918



FLEXIBLE CLAMPING

**Special order item, please contact your local sales representative for more information before ordering.*