

Technical data	Secotom-15	Secotom-50
Cut-off wheel		
Size	75 - 203 mm / 3 - 8" dia.	
Arbor size	12.7 mm / 0.5" and 22 mm / 0.86"	
Rotational speed	300 - 5000 rpm (in steps of 100 rpm)	
Positioning range	0 - 40 mm / 0 - 1.6" up/down Manual	0 - 40 mm / 0 - 1.6" up/down Automatic by the joystick
Cutting capacity *	70 mm dia. / 2.8" dia. or 165 x 50 mm or 6.5" x 2"	
Cutting table		
Feed speed	0.005 - 3 mm/s / 0.3 - 7"/min. (in steps of 0.005 mm)	
Cutting length	0 - 190 mm / 0 - 7.5" (in steps of 0.1 mm)	
Width	258 mm / 10.2"	
Length	184 mm / 7.2"	
T-slots	8 mm	
Power		
Nominal load (S1)	0.8 kW	1.1 kW
Intermittent (S3)	1.0 kW	1.5 kW
Current, max.	11.7 A	14.8 A
Dimensions		
Height	440 mm / 17.3" cover closed 1055 mm / 41.5" cover open	
Width	644 mm / 25.4"	
Depth	784 mm / 27.6" with plug	
Weight	68 kg / 150 lbs	
Software and electronics		
Controls	Touch pad, joystick and push/turn knob	
Memory	FLASH-ROM / RAM / NV-RAM	
LC Display	TFT-colour 320x240 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.	

* The actual cutting capacity depends on the specific workpiece dimensions, cut-off wheel and clamping technique.

Specifications

Secotom-15

Tabletop, precision cut-off machine with movable cutting table and variable speed. Automatic feeding with electronic control of feed speed. Motorized positioning of workpiece and digital read-out. OptiFeed function. Three cutting methods. Complete with recirculation cooling unit, flange set 50 mm (2") dia. Cut-off wheels, specimen holder's, additive for cooling fluid (Corrozip) and clamping tools are ordered separately. Specification: 200-240 V / 50-60 Hz.

Cat. no:

05996127

Secotom-50

Tabletop, precision cut-off machine with movable cutting table and variable speed. Automatic feeding with electronic control of feed speed. Motorized positioning of cut-off wheel and workpiece and digital read-out. ExciCut and OptiFeed functions. 10 cutting methods and cut-off wheel database included. Complete with recirculation cooling unit and flange set 50 mm (2") dia. Cut-off wheels, specimen holders, additive for cooling fluid (Corrozip) and clamping tools are ordered separately. Specification: 200-240 V / 50-60 Hz.

05996227

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.

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Accessories and consumables



Automatic X-table

For automatic positioning and serial cutting on Secotom-50.
Maximum movement 40 mm / 1.2" with 20 µm accuracy. With two 8 mm T-slots.
To be placed on the standard cutting table.

Cat. no:

05996911



Fixed stand

Stand for specimen holders with dovetail clamp. Designed for small delicate workpieces.
Manual positioning. For 8 mm T-slot.

05996913



Manual X-stand

Stand for specimen holders with dovetail clamp. Manual positioning with digital read-out.
The positioning accuracy is 5 µm. Enables the cutting of plane-parallel slices in a well-defined thickness. The total lateral movement of the X-stand is 30 mm / 1.2".

05996914



Rotary stand with digital readout of the X-position.

The optional rotating stand increases the Secotom-15 and Secotom-50's capacity even further. Workpiece rotation reduces the contact area between the cut-off wheel and the workpiece to a minimum. This decreases frictional heat and allows fast cutting of extremely hard materials. In addition, it increases the machines capacity by enabling you to cut larger workpieces - up to 100 mm / 3.9" diameter. Is used together with specimen holders with dovetail plates. The positioning accuracy is 5 µm and the total lateral movement is 30 mm / 1.2".

05996912



Manual Dresser

For easy dressing of diamond and CBN cut-off wheels while Secotom-15/-50 is running.

05996915



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 as clean as possible. Includes 2 x 2 m hoses and frontplate to be placed instead of the recirculation tank front.

05996918

Cut-off wheels

All types of cut-off wheels from the size of 76-203 mm / 3-8", including abrasive wheels, can be used on Secotom. 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.

A wide range of clamping tools and specimen holders for all shapes and sizes are available



Base plate clamping tool 8 mm, right

Designed to clamp small or odd-sized workpieces close to the cut-off wheel.
Complete with tools for installation in T-slots and grooved jaws.

Cat. no:

06316907

Jaws for base plate clamping tools

Set of 2 jaw blocks for optimum clamping of specimens.
For use with Base Plate clamping tools for 8 mm T-slots (06316907).

06316911

Clamping tools

Quick clamping tool for 8 mm T-slots, right

For securing the workpiece on the right side of the cut-off wheel.
Complete with backstop. Jaw movement: 50 mm. Jaw height: 55 mm

06316913



Vertical clamping tool for 8 mm T-slots

For clamping irregularly shaped workpieces on the cutting table.
Clamping height is adjustable up to 58 mm.
Complete with operating key and one flat clamping shoe.

05036915



Swivel shoes for Vertical clamping tool

Set of 4 multi-shaped swivel shoes for Vertical clamping tool.

05116911



Arm extension for Vertical clamping tool

For extending clamping arm of Vertical clamping tool

05046906



Spring clamp for 8 mm T-slots, left

For retaining the workpiece on the left side of the cut-off wheel.
Complete with backstop and spanner.

05996916

Bolt Clamping Device for 8 mm T-slots

For longitudinal sectioning of bolts and fasteners. With ruler for easy positioning of the workpiece. Clamping range: 4 - 22 mm dia. / 0.15 - 0.47" dia.
A tungsten carbide guide prevents the cut-off wheel from moving to the either side.

06316926



Flange set

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

05036901

05996919

05036902



Specimen holders with dovetail

To be used with Fixed stand, Manual X-stand or Rotary stand

Specimen Holder CATNI, with goniometer

04276911





Specimen Holder CATPE, for adhering workpieces

04276912



Specimen Holder CATAN, for small workpieces
Max. opening: 10 mm

04276915



Specimen Holder CATSI, for general use
Max. opening: 60 mm

04946903



Specimen Holder CATFF, teardrop type with opening
For workpieces 15 - 40 mm dia.

04946904



Specimen Holder CATTY, with 7 screws for irregular workpieces
Max. 40 mm width

04946905



Specimen Holder CATRE, for cylindrical workpieces
Max opening 40 mm dia.

04946907



Specimen Holder CATAL, for long workpieces
With double parallel vice

04946909



Three-jaw Chuck
For centering and clamping cylindrical workpieces up to 65 mm dia.

05036919



Tilting Joint CATJO, to be mounted between the dovetail and the specimen holder
The specimen holder can then be angled $\pm 10^\circ$

04946906



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

04946908