

Discotom-6



**Versatile automatic
and manual
cut-off machine in one**



- Automatic and manual cut-off machine in one
- Very high cutting capacity
- Constant feed speed principle ensures minimum deformation
- Automatic feed speed reduction for fast cutting of hard materials
- Quick positioning and freely selectable stop position functions
- Effective cooling system reduces the risk of burns
- Corrosion resistant cutting chamber
- Electric motor brake and safety lock ensure operator safety

Discotom-6 is a high performance table-top cut-off machine with a strong 3.7 kW (5.0 HP) motor. It is designed for cut-off wheels with a diameter of 250 mm (10").

Discotom-6 can be operated both automatically and manually, making it suitable for a wide range of applications.

Automatic Cutting made Easy

Automatic cutting mode is engaged by a simple press key. The cutting table with the clamped workpiece will move forward towards the cut-off wheel at the set feed speed. Before cutting, you can of course position the cut-off wheel to compensate for the wear of the cut-off wheel.

High Cutting Capacity



Manual mode for Fast and Uncomplicated Cutting

When operating the cut-off machine manually, the cutting table with the clamped workpiece is easily positioned under the cut-off wheel, and you pull the cutting handle to begin cutting.

Very High Cutting Capacity

You can cut workpieces with a diameter of up to 80 mm (3.1") on the Discotom-6. In automatic mode though, the cutting table is movable up to 200 mm (7.9") enabling cutting of very long samples. You can for instance cut a length of 140 mm (5.5") at a workpiece thickness of 65 mm (2.6").

The graph shows the cutting capacity in automatic cutting mode with a new cut-off wheel and flexible clamping tools. The real cutting capacity depends on the sample material

Quick positioning and Auto Stop

The cutting table can be moved with increased speed allowing quick positioning and set-up.

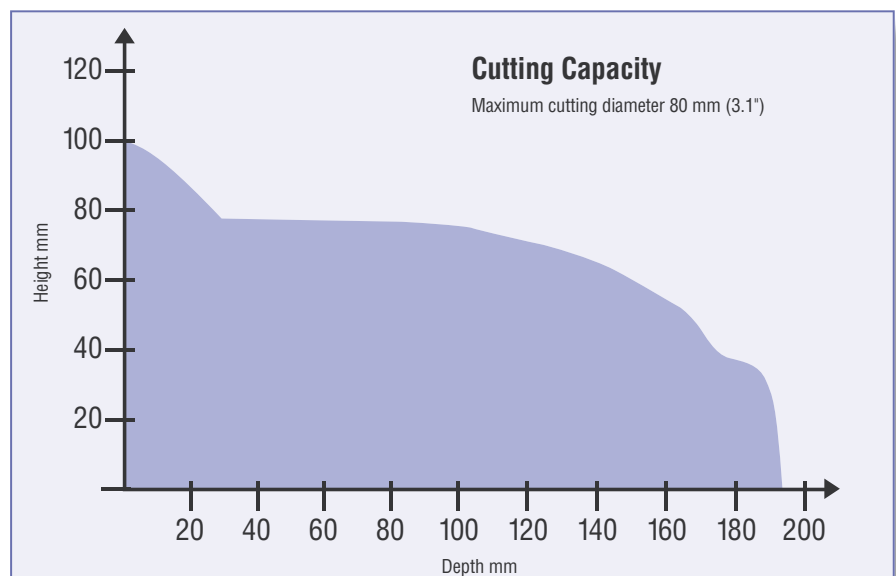
Additionally, a freely selectable stop position can be set where the cutting process will be stopped and the cutting table returns to its start position.

Automatic Feed Speed Reduction

When cutting automatically, you choose a feed speed from 0.1 to 2.5 mm/sec. If the feed speed is set too high and the machine cannot cut through the workpiece, Discotom-6 will automatically reduce the feed speed and continue cutting. This may repeat itself up to 5 times and prevents damage or burns on the sample surface.

Effective Cooling of the Cutting Area

A very important design detail is that the water cooling tubes are integrated into the cut-off wheel guard. The cooling water is applied to the cut-off wheel under high pressure and at a right angle. The cooling water thereby "breaks" the thin layer of air surrounding the spinning cut-off wheel, and the result is excellent cooling of the cutting area. Discotom-6 is available with a large 65 l recirculating cooling unit, ensuring that the cooling water does not overheat.





The adjustable cutting table enables parallel sectioning

Monitoring the Load on the Cutting Motor

The front panel includes a three-coloured LED-bar, indicating the load on the cutting motor.

In automatic cutting mode the LED-bar will show the load on the cutting motor and if the red area is reached the feed speed will be reduced. When cutting manually the LED-bar gives a good indication of how much force to put on the workpiece.

Corrosion resistant Cutting Chamber

The cutting chamber, made of corrosion resistant materials, is provided with a 225 mm x 386 mm (8.6" x 15.2") cutting table, which is easily moved up to 200 mm (7.9") by control keys. The cutting table is made of corrosion resistant cast aluminium and is fitted with a top surface of

stainless steel bands. These steel bands are easily exchanged if damaged or worn.

A flush hose makes daily cleaning quick and efficient, and a powerful lamp lights up the cutting chamber allowing you to monitor the cutting process through the large window in the protection guard. An exhaust system may be connected.

Quick and Handy Clamping of the Workpiece

The integrated cutting table has six 10 mm T-slots, facilitating the use of universal clamping tools.

Adding an Adjustable Cutting Table for Parallel Sectioning

An adjustable cutting table is available for mounting on the Discotom-6. It positions the workpiece at a right angle to the cut-off wheel, allowing parallel sections to be cut. The table can move up to 60 mm (2.4").

High Safety Level

Discotom-6 cannot be started while the protection guard is open. During cutting the protection guard is locked, eliminating any risk of injury. A built-in electric, dynamic motor brake stops the cutting motor within a few seconds, ensuring quick access to the cutting chamber after cutting.



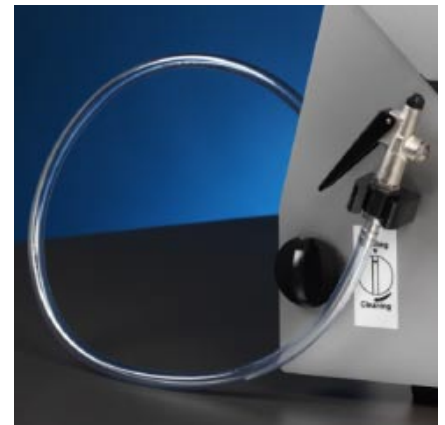
For irregularly shaped workpieces the vertical clamping tools are employed



Quick-clamping devices enable easy and fast securing of workpieces



The hour counter registers the hours the cutting motor has been in operation



The flush hose facilitates cleaning



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Technical Data	
Cutting Motor	Three-phased motor 3.7 kW (5.0 HP)
Cut-off Wheels	Cut-off wheel size: 250 mm x 1.5 mm x 32 mm (10" x 0.06" x 1.25") Rotational speed (running idle): 2850 rpm at 50 Hz, 3420 rpm at 60 Hz
Cutting Table	Cutting table dimensions Width: 386 mm Length: 225 mm
Safety Standards	EN292-1, EN292-2, EN1050, EN60204-1 (IEC204-1), EN418, EN954-1, EN50081-1, EN50082-1, UL 508, NFPA70: 2002, FCC 47 Part 15 Class A
Dimensions and Weight	Discotom-6 without recirculating cooling unit Width: 794 mm (31.3") Depth: 640 mm (25.2") Height: 458 mm (18.1") Weight: 123 kg (272 lbs)
Specifications	Code
Discotom-6 Automatic cut-off machine. Automatic feeding with electronic control of feed speed. Ability for manual operation. Cutting table with 10 mm T-slots. 3.7 kW (5.0 HP) motor. Recirculating cooling unit (TRECA) and quick-clamping devices (TRELQ) and (TRERQ) are ordered separately	TREXI
Accessories	
Recirculating Cooling Unit For water cooling. Contents 65 l. With a rolling pallet.	TRECA
Adjustable Cutting Table For cutting plane parallel sections. It positions the workpiece at a right angle to the cut-off wheel. Movable up to 60 mm. With 10 mm T-slots and exchangeable stainless steel bands	TRETA
Quick-clamping Device for 10 mm T-slots, Left Complete with back stop. To be mounted at the left hand side of the cut-off wheel	TRELQ
Quick-clamping Device for 10 mm T-slots, Right Complete with back stop. To be mounted on the right hand side of the cut-off wheel	TRERQ
Spring Clamp for 10 mm T-slots, Right For retaining the cut-off specimen. Complete with back stop. To be mounted at the right hand side of the cut-off wheel	TRERI
Vertical Clamping System for 10 mm T-slots For clamping irregularly shaped workpieces on the cutting table. Clamping height adjustable up to 58 mm. Complete with operating key and one flat clamping shoe	TREVS
Riser Block for 10 mm T-slots For elevating Vertical Clamping System (TREVS) when clamping high workpieces. To increase the clamping height by 60 mm	TREKS
Swivel Shoes for Vertical Clamping System Set of 4 multi-shaped swivel shoes for (TREVS)	TREVI
Replacement Stainless Steel Band For cutting table on Discotom-6. 1 pc. of 40 mm x 225 mm	TREXS
Replacement Stainless Steel Bands For adjustable cutting table (TRETA). Set of 1 pc. 40 mm and 1 pc. 20 mm steel bands	TRETT

A wide range of cut-off wheels is available for Discotom-6. Please refer to the separate brochure



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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