

Labotom-3



**Powerful manual
cut-off machine with high
cutting capacity**



- **Labotom-3 has a powerful 3.0 kW / 3.2 kW cutting motor and a cutting capacity of up to 90 mm (3.5") diameter.**
- **Cutting table with top surface of stainless steel and integrated T-slots.**
- **Bright LED light in the cutting chamber.**
- **Adjustable cutting handle to suit the height of the operator and the table unit.**
- **Flush hose for cleaning the cutting chamber.**

Labotom-3 is a desirable option for metallographic laboratories preparing a moderate number of specimens or for sampling stations situated in production units. It is simple to operate and practically no training is needed.

Easy and comfortable Operation

Labotom-3 is a compact table-top model for abrasive wet cutting.

When opening the large protection guard, there is free access for clamping the workpiece and exchange of the cut-off wheel. The closing of the protection guard activates a hydraulic brake action.

A powerful LED lamp lights up the cutting chamber and facilitates clamping and monitoring the cutting operation through the large window in the protection guard.

Cooling water is applied directly onto the 250 mm (10") dia. cut-off wheel resulting in an excellent cooling of the cutting area. The spring balanced cutting unit gives a relaxed advance at the start of cutting and a relaxed return when cutting is finished. After cutting, the cutting chamber can be cleaned with the built-in flush hose.

The smooth surface of the base and a large drain (50 mm dia.) make it easy to flush away the swarf produced during cutting.

The position of the cutting handle can be adjusted to suit the height of the operator and laboratory table. The simple design of Labotom-3 makes it a very reliable machine with low maintenance.

Cutting Capacity

The projected cutting capacity for a new cut-off wheel is up to 90 mm dia. As workpieces can be placed in various positions on the cutting table, the best utilisation of the cut-off wheel can be achieved, resulting in optimum cutting capacity. Please see graph.

Cutting Capability

Struers' entire range of 250 mm dia. cut-off wheels, including diamond and CBN cut-off wheels, can be used, therefore practically all types of materials can be cut.

The ample motor power and efficient cooling system enable fast cutting and perfect, clean cuts.

Flexible clamping of the Workpiece

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

Safety Features

The cutting motor will not start with the protection guard open. Any attempt to open the guard during cutting results in a safety switch stopping the cutting motor.

A thermal fuse stops the cutting motor in the event of overload. The cut-off machine can be connected to a fume extraction system to vent any harmful fumes produced during cutting.

Technical Data

Cutting Motor:	Three-phased motor:	3.2 kW (4.3 HP) at 50 Hz 3.0 kW (4.1 HP) at 60 Hz
Cut-off Wheels:	Rotational speed (running idle):	2845 rpm (50 Hz) 3450 rpm (60 Hz)
Cut-off Wheel size:	250 mm x 1-1.5 mm x 32 mm (9.8" x 0.04" - 0.06" x 1.26")	
Cutting Chamber:	Maximum workpiece dimensions: To the left of the cut-off wheel: Width: 145 mm (5.7"), depth: up to 500 mm (19.7"), height up to 250 mm (9.8") To the right of the cut-off wheel: Width: 75 mm (3.0"), depth: up to 210 mm (8.3") Side opening for protruding workpieces: Left hand side: 103 x 95 mm (4.1" x 3.7") Right hand side: 25 x 25 mm (1.0" x 1.0")	
Cutting Table:	Table size: 200 x 215 mm (7.9" x 8.5") with three 10 mm T-slots	
Cutting Capacity*	Max. cutting diameter: 90 mm (3.5"). Other dimensions: Please see graph. <i>*The cutting capacity stated is the projected cutting capacity with a new cut-off wheel. Actual cutting capacity depends on the sample material, cut-off wheel and clamping technique.</i>	
Environment:	Noise level: Approx. 64 dB(A) at a distance of 1.0 m (39.4") from the machine, running idle.	
Dimensions and weight:	Width: 651 mm (25.6") Depth: 645 mm (25.4")	Height: 410 mm (16.1") Weight: 80 kg (180 lbs.)

Specifications

Labotom-3

Manual cut-off machine. Complete with cutting table with 10 mm T-slots. Motor power 3.0 kW / 3.2 kW. Recirculation cooling unit (05766xxx) and clamping tools are ordered separately.

Cat. no:

053261xx

Accessories

Recirculation Cooling Unit

With 50 l tank, small pump, Cooli-1 control unit and 50 l static filter with filter paper

05766xxx

Quick-clamping Device, left

For securing the workpiece. Complete with backstop. Max clamping width: 50 mm.

05876909

Spring Clamp, right

For retaining the cut-off specimen. Complete with backstop.

05116904

Vertical Clamping System

For clamping irregularly shaped workpieces on the cutting table. Clamping height adjustable up to 58 mm.

05116905

Fume Extractor Kit

For connection of Labotom-3 to an external fume extraction system. (connecting tube 50 mm dia.)

05326902

Table Unit

With Compartment for recirculation cooling unit. Width: 900 mm, depth: 750 mm, height 800 mm.

05116916

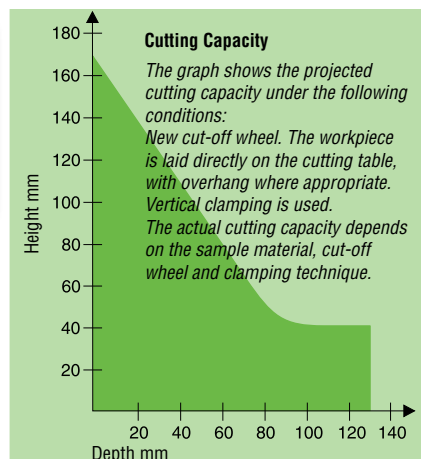
Struers' equipment is in conformity with the provisions of the applicable International Directives and their appurtenant Standards. (Please contact you local supplier for details)

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

Quick Clamping device for Labotom-3



Vertical clamping system with riser block and extension arm



Struers A/S
Pederstrupvej 84
DK-2750 Ballerup, Denmark
Phone +45 44 600 800
Fax +45 44 600 801
struers@struers.dk

AUSTRALIA & NEW ZEALAND

Struers Australia
18 Mayneview Street
Milton QLD 4064
Australia
Phone: +61 7 3512 9600
Fax: +61 7 3369 8200
info.au@struers.dk

BELGIQUE (Wallonie) Struers S.A.S.

370, rue du Marché Rollay
F- 94507 Champigny
sur Marne Cedex
Téléphone +33 1 5509 1430
Télécopie +33 1 5509 1449
struers@struers.fr

CANADA

Struers Ltd.
7275 West Credit Avenue
Mississauga, Ontario L5N 5M9
Phone +1 905-814-8855
Fax +1 905-814-1440
info@struers.com

CHINA

Struers Ltd.
Rm. 702 Hi-Shanghai
No. 970 Dalian Road
Shanghai 200092, P.R. China
Phone +86 (21) 5228 8811
Fax +86 (21) 5228 8821
struers.cn@struers.dk

CZECH REPUBLIC

Struers GmbH
Organizační složka
Havličkova 361
CZ-252 63 Roztoky u Prahy
Phone +420 233 312 625
Fax: +420 233 312 640
czechrepublic@struers.de

DEUTSCHLAND

Struers GmbH
Carl-Friedrich-Benz-Strasse 5
D-47877 Willich
Telefon +49 (0) 2154 486-0
Fax +49 (0) 2154 486-222
verkauf.struers@struers.de

FRANCE

Struers S.A.S.
370, rue du Marché Rollay
F- 94507 Champigny
sur Marne Cedex
Téléphone +33 1 5509 1430
Télécopie +33 1 5509 1449
struers@struers.fr

IRELAND

Struers Ltd.
Unit 25a
Monkspath Business Park
Solihull B90 4NZ
Phone +44 (0)121 745 8200
Fax +44 (0)121 733 6450
info@struers.co.uk

JAPAN

Marumoto Struers K.K.
Takara 3rd Building
18-6, Higashi Ueno 1-chome
Taito-ku, Tokyo 110-0015
Phone +81 3 5688 2914
Fax +81 3 5688 2927
struers@struers.co.jp

NETHERLANDS/BELGIUM

Struers GmbH Nederland
Electraweg 5
NL-3144 CB Maassluis
Tel. +31 (0) 10 599 72 09
Fax +31 (0) 10 599 72 01
netherlands@struers.de

POLAND

Struers Sp. z o.o.
Oddział w Polsce
ul. Lirowa 27
PL-02-387 Warszawa
Phone +48 22 824 52 80
Fax +48 22 882 06 43
poland@struers.de

ROMANIA

Struers GmbH
Sucursala Sibiu
Str.Scoala de Inot, nr. 18
RO-550005 Sibiu
Phone +40 269 244 558
Fax +40 269 244 559
romania@struers.de

SCHWEIZ

Struers GmbH
Zweigniederlassung Schweiz
Weissenbrunnstrasse 41
CH-8903 Birmensdorf
Telefon +41 44 777 63 07
Fax +41 44 777 63 09
switzerland@struers.de

SINGAPORE

Struers Singapore
627A Aljunied Road,
#07-08 BizTech Centre
Singapore 389842
Phone +65 6299 2268
Fax +65 6299 2661
struers.sg@struers.dk

SWEDEN

Struers A/S
Ekbacksvägen 22, 3 tr
SE-168 69 Bromma
Telefon +46 (0)8 447 53 90
Telefax +46 (0)8 447 53 99
struers@struers.dk

UNITED KINGDOM

Struers Ltd.
Unit 25a
Monkspath Business Park
Solihull B90 4NZ
Phone +44 0121 745 8200
Fax +44 0121 733 6450
info@struers.co.uk

USA

Struers Inc.
24766 Detroit Road
Westlake, OH 44145-1598
Phone +1 440 871 0071
Fax +1 440 871 8188
info@struers.com

ÖSTERREICH

Struers GmbH
Zweigniederlassung Österreich
Ginzkeyplatz 10
A-5020 Salzburg
Telefon +43 662 625 711
Fax +43 662 625 711 78
austria@struers.de