

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.**
- **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 materialographic 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. 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. An optional adjustable stop can be used to set the length of cut-off samples when making repetitive cuts.

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.
*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

Environment

Safety standards: IEC 204-1/EN 60204-1(VDE 0113), 89/392/EEC. Protection guard complies with EN 954-1, Cat. 1.
Noise level: Approx. 64 dB(A) at a distance of 1.0 m (39.4") from the machine, running idle

Dimensions and weight:

Labotom-3
Width: 651 mm (25.6")
Depth: 645 mm (25.4")
Height: 410 mm (16.1")
Weight: 80 kg (180 lbs.)

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



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Specifications

Code

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 (TREC) and clamping tools are ordered separately

LATTE

Accessories

Recirculation Cooling Unit

For water cooling. Capacity 30 l

TRECI

Clamping Tools

Please see separate brochure for details

Adjustable Stop

For setting the length of cut-off samples when making repetitive cuts, up to 75 mm LASTO

Fume Extractor Kit

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

LATKI

Table Unit

With 1 drawer, 10 metal shelves and compartment including a rolling pallet for recirculation cooling unit (TREC). Width: 900 mm, depth: 750 mm, height: 900 mm

LABDI

Table Unit

With compartment for recirculation cooling unit. Width: 700 mm, depth: 750 mm, height 800 mm

LABUN

Rolling Pallet

For (TREC) recirculation cooling unit

TREJU

Replacement Stainless Steel Bands

For cutting table. Set of 1 pc. 40 mm and 1 pc. 20 mm steel bands

TRETT

Replacement Stainless Steel Bands

Set of 4 pcs. 40 mm steel bands

TREUT

Quick
Clamping
device for
Labotom-3



Vertical
clamping
system with
riser block
and exten-
sion arm

