

Unitom-2



Manual cutting machine for large and irregular workpieces



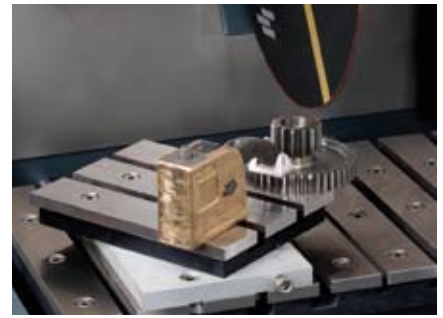
The Unitom-2 is a powerful cutting machine, designed for 350 mm cut-off wheels. Unitom-2 is based on proven, superior cutting technology. The concept of high quality and high capacity combined with ease-of-use has been extremely successful.

Features

- Strong motor for high cutting capacity
- Handles large and irregular workpieces
- Easy operation and maximum safety
- The cutting chamber has a built-in, adjustable flush hose making daily cleaning easy and efficient

A sturdy workhorse

The cutting table is provided with 10 mm T-slots. This allows difficult workpieces to be cut using various clamping tools, here 10 mm turntable



The Unitom-2 is a powerful manual cutting machine for a wide range of applications.

Unitom-2 will enable the user to cut a large number of samples, hour after hour. All parts of the machine subject to stress have been put through a careful life-time test. The rotating parts of the machine have been dynamically balanced to ensure stability, and to maximize the working life of your Unitom-2.

All metal parts in the cutting chamber are made of either stainless steel or surface protected materials, practically eliminating corrosion. Along the travel of the cut-off wheel the cutting table is equipped with exchangeable stainless steel bars.

Specifications

- Cutting capacity: Up to 120 mm (4.7") diameter
- Cutting power: 4.7 kW (6.4 HP)
- Cut-off wheel: Max 350 mm diameter (13.7")

User-friendly design

Unitom-2 is very easy to operate making it suitable for laboratory as well as production use.

Easy access

Extra large windows and fully, indirect lightning, give an excellent, non-glare view of the cutting chamber. A balanced mechanism ensures effortless opening and closing of the protection guard.

Easy cleaning

A powerful lamp lights up the cutting chamber, and a flush hose with adjustable



Built-in convenience: Flush hose for cleaning of the cutting chamber

flow takes care of fast and efficient daily cleaning.

Simple installation

Installation and levelling of the machine are made simple, by virtue of four height adjustable vibration dampers.

Cutting of large workpieces

If the user wants to cut large or protruding workpieces, it is possible to replace one or both of the side walls on the machine with optional rubber curtains.

Safety features

Unitom-2 complies with international safety standards, and safety features include emergency stop and cut-off switch for cutting motor and all machine functions. The protection guard cannot be opened before the cut-off wheel has

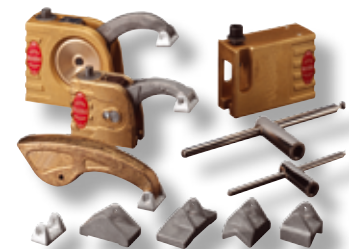


Built-in safety: Cut-off switch for cutting motor etc.

stopped. The windows of the protection guard are made of impact resistant material. Unitom-2 is prepared for connection to an exhaust system, as some cutting materials may emit harmful gases or irritating fumes.

Accessories

An extensive range of optional accessories is available for Unitom-2. A combined table and cabinet is available for bringing the cutting machine into an ideal working height. Quick-clamping tools and vertical clamping tools ensure full flexibility in securing workpieces. Please see the back of the brochure for more information about accessories.



Vertical clamping tools



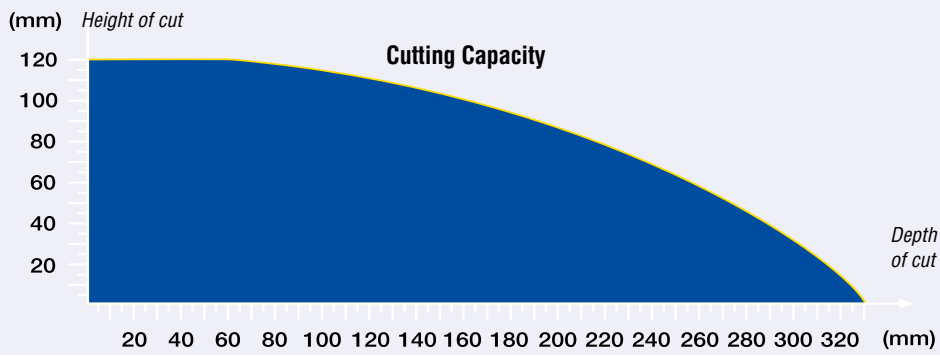
A third additional cutting table can be added



Quick clamping tool for T-slots 10 mm



Quick clamping tool with optional jaw blocks

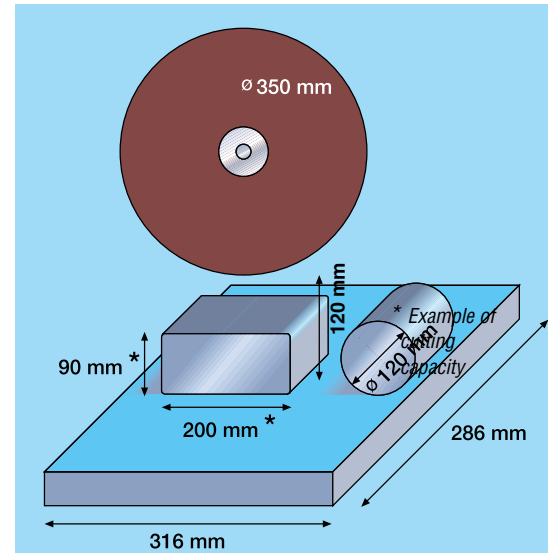


Technical Data

Subject	Specification	Metric/ International	US
CUTTING SPECIFICATIONS			
Workpiece Dimensions (Max)	<i>Workpiece inside cutting chamber:</i>		
	Height	120 mm	5.9"
	Width	415 mm	16.3"
	Depth	630 mm	24.8"
	<i>Workpiece protruding cutting chamber:</i>		
	Height	120 mm	5.9"
Cutting Capacity*	Max. cutting diameter	120 mm	4.7"
	<i>Rectangular sample**:</i>		
	Height	90 mm	3.5"
	Depth	200 mm	7.9"
PHYSICAL SPECIFICATIONS			
Cutting Motor	Cutting power	4.7 kW	6.4 HP
	Max power (depending on voltage)	5.7 - 6.7 kW	7.6 - 9.0 HP
Cut-off Wheel	Diameter x Thickness x Centre-hole	350 x 2.5 x 32 mm	13.7 x 0.09 x 1.25"
	Rotational speed (running idle)	2775 rpm	2775 rpm
Cutting table	Width	286 mm	11.26"
	Depth	316 mm	12.44"
	T-slots	10 mm	0.39"
Dimensions and Weight	Height	660 mm	26"
	Width	700 mm	27.5"
	Depth	750 mm	29.5"
	Weight	162 kg	353 lbs
	<i>Optional Table Unit (LABUN):</i>		
	Height	795 mm	31.3"
	Width	700 mm	27.5"
Depth	750 mm	29.5"	
Recirculation Cooling Unit	Tank volume	65 l	17 gallons
	Approx. flow	12 l/min	3.2 gallons/min
ENVIRONMENTS			
	Noise level	Approx. 73 dB(A) measured at idle running, at a distance of 1.0 m/39.4" from the machine.	

* Projected cutting capacity with new cut-off wheel. Actual cutting capacity depends on sample material, cut-off wheel and clamping technique

** Example of cutting capacity. Please refer to Cutting Diagram above



Struers cut-off wheels are especially designed for Struers machines, taking into consideration the most recent developments in wet cutting techniques.

Cut-off wheels

Unitom-2 is designed for cut-off wheels of 300 and 350 mm diameter. For normal use, the 300 mm wheels (with a thickness of 2 mm) are recommended. For large workpieces, the 350 mm wheels (with a thickness of 2.5 mm) are used, allowing Unitom-2 to cut samples up to 120 mm diameter. A wide range of Struers cut-off wheels is available for cutting any material.

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

Specifications

Unitom-2

Manual cutting machine.
4.7 kW (6.4 HP) motor. For 350/300 mm (14/12") cut-off wheels. Including two cutting tables with 10 mm T-slots (05336904). Recirculation cooling unit (05766xxx), table unit (05116916), quick clamping tools (05876909+0576910) and vertical clamping tool (05116905) has to be ordered separately.

3 x 200 V / 50 Hz	05376729
3 x 200-210 V / 60 Hz	05376730
3 x 220-230 V / 50 Hz	05376735
3 x 220-240 V / 60 Hz	05376736
3 x 380-415 V / 50 Hz	05376746
3 x 460-480 V / 60 Hz	05376754

Cat. no.

Accessories

Table Unit

For support of Unitom-2. With compartment for recirculation cooling unit.
Width: 900 mm, depth: 750 mm, height: 800 mm.

05116916

Cooling System 3

With 50 l tank, small pump, Cooli-1, 50 l static filter with filter paper.

05766xxx

Cutting table for 10 mm T-slots

Additional table for support of large workpieces. With exchangeable stainless steel bands. 140 x 315 mm (5.5" x 12.4")

05336904

Replacement Stainless Steel Bands

For Cutting Table with 10 mm T-slots (05336904). Set of three.

05336905

Flange Set, 119 mm dia.

Alternative to 100 mm standard flange. For use with 350 mm cut-off wheels on Unitom-2.

04986901

Clamping tools

Vertical clamping tool for 10 mm T-slots

For clamping irregular shaped workpieces. Complete with operating key and one exchangeable flat swivel shoe. Max clamping height: 58 mm.

05116905

Quick-clamping tool for 10 mm T-slots, left

For securing the workpiece. Complete with back stop. To be mounted on a cutting table placed at the left hand side of the cut-off wheel.

05876909

Quick-clamping tool for 10 mm T-slots, right

For securing the workpiece. Complete with back stop. To be mounted on a cutting table placed at the right hand side of the cut-off wheel.

05876910

Riser Block for 10 mm T-slots

Increases the clamping height of the 10 mm Vertical clamping tool (05116905) by 60 mm.

05116910

Swivel Shoes for Vertical clamping tool

Set of 4 multi-shaped swivel shoes for use with 10 mm Vertical clamping tool (05116905).

05116911

Rubber-coated jaw blocks for 10 mm T-slots

Set of 2 rubber-coated jaw blocks for optimum clamping of e.g. thin-walled tubes. For use with Quick Clamping tool for 10 mm T-slots, left (05876909) and right (05876910).

05876915

Grooved jaw blocks for 10 mm T-slots

Set of 2 jaw blocks for optimum clamping of regular workpieces. For use with Quick clamping tool for 10 mm T-slots, left (05876909) and right (05876910).

05876917

Prism type jaw blocks for 10 mm T-slots

Set of 2 jaw blocks for optimum clamping of round and oval workpieces. For use with Quick Clamping tool for 10 mm T-slots, left (05876909) and right (05876910).

05876913

T-slot turntable for 10 mm T-slots

0-90 degree turntable for angular cutting. For use with various 10 mm T-slot clamping tools. Table height 42 mm.

05876905



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