

QCUT 150 M

The Qcut 150 M is a manual precision cut-off machine with manual cross feed and cutting discs up to a size of 203 mm / 8 ".

Both the cutting force and the speed of the cutting disc are infinitely adjustable. With different operating modes and cooling systems, a very wide range of applications and materials can be covered.

The user-friendly fastening system for the clamp arm, specimen holder and table top is designed in such a way that they can be changed toolfree.

A wide range of different clamping devices enables versatile use.

**FUNCTIONAL DESIGN**

The powder-coated stainless steel housing is the stable basis of the compact precision cut-off machine. The robust machine design integrates many clearly and ergonomically positioned functions. The cutting chamber, which is equipped with LED lighting, is covered with a transparent protective hood with a soft-close function.

**VARIABLE CUTTING FORCE**

The cutting force can be set manually depending on the sample geometry and sample material, which ensures precise and deformation-free cutting of particularly sensitive materials and samples.



EXTENSIVE ACCESSORIES

With the help of a suitable clamping device from the extensive range of accessories, embedded or non-embedded samples up to a size of \varnothing 40 mm can be clamped in the cut-off machine comfortably. Larger samples such as PCBs and plate material can be quickly and manually cut with the table top that can be mounted toolfree.

ADJUSTABLE PARAMETERS FOR VERSATILE APPLICATION

The rotations speed of the precision cutting wheel is infinitely variable adjustable in the range of 150 - 3000 rpm using the rotary knob. Therefore diamond cutting wheels, diamond cup wheels and corundum cutting wheels can be used for a wide variety of applications. The cutting process is started and ended with the QATM start-stop button.

MANUAL Z-AXIS

The Qcut 150 M is equipped with a manual Z-axis. For parallel cuts or defined grinding with a diamond cup wheel, the specimen can be fed up to 25 mm across.



BASIC MODULE

Qcut 150 M

- | Solid stainless steel housing, powder coated
- | Manual Y-axis
- | Swivel arm with variable load
- | Manual Z-axis with scale
- | Variable speed
- | Table attachment (accessory)
- | Dressing device (option)
- | Rotation device (option)
- | LED illumination of cutting chamber
- | Soft-closing hood
- | Connection to external exhausting system on request

3 different operation modes (depending on equipment)

- | Feed-controlled cutting
- | Cutting on table attachment
- | Cutting with lever

200-240V 50/60Hz (1Ph/N/PE)

Order No.: M1870022

100-120V 50/60Hz (1Ph/N/PE)

Order No.: M1870023

EQUIPMENT
COOLING SYSTEMS (no voltage selection required)

Equipment 1

Cut-off wheel immersion cooling (integrated)



- | Equipment to seal and fill cutting chamber with coolant
- | Incl. drain hose and shut-off valve for easy emptying
- | Sample collector

Order No.: A1870022
Equipment 2

Recirculation cooling system 15 L incl. filter



- | External two-chamber PVC tank
- | Portable, incl. filter insert and lid
- | Rinsing hose

Flow rate (pump)	12 ltr./min.
Filling capacity	15 liters
WxHxD	330 x 398 x 449 mm

Order No.: A1870023
Equipment 3

Recirculation cooling system 45 L



- | PVC tank with removable separating slide
- | Inlet sieve with filter bag and overflow
- | Mobile, without folding wheels
- | Rinsing hose included

Flow rate (pump)	15 ltr./min.
Filling capacity	45 liters
WxHxD	366 x 550 x 600 mm

Order No.: A1870024
Equipment 4

Recirculation cooling system 45 L Systemlab



- | PVC tank with removable separating slide
- | Inlet sieve with filter bag and overflow
- | Mobile, with insertion mechanism for System Lab cabinets
- | Rinsing hose included

Flow rate (pump)	15 ltr./min.
Filling capacity	45 liters
WxHxD	366 x 540(640) x 610 mm

Order No.: A1870025
Equipment 5

Fresh water cooling system

- | Automatic water valve
- | Waterflow manually adjustable
- | Rinsing hose included

Order No.: A1870026

OPTION

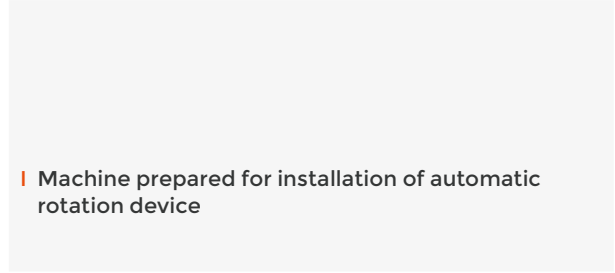
QCUT 150 M DRESSING DEVICE



- | For dressing of diamond cut-off wheels or cup wheels
- | Operation by manual lever

Order No.: A1870027

PREPARATION ROTATION DEVICE



- | Machine prepared for installation of automatic rotation device

Order No.: A1870029

ACCESSORIES

QCUT 150 M TABLE ATTACHMENT



- | Incl. Cutting guide fixed 90°, parallel cutting guide and small splash guard

Order No.: Z1870020

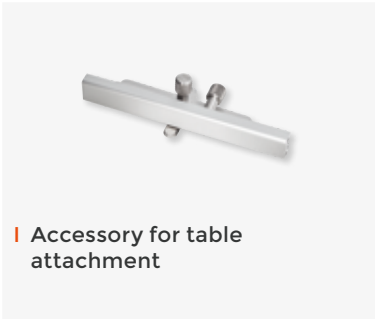
SPLASH GUARD LARGE



- | Accessory for table attachment

Order No.: Z1870027

PARALLEL CUTTING GUIDE



- | Accessory for table attachment

Order No.: Z1870023

ANGLE CUTTING GUIDE



- | Angular adjustable stop
- | Accessory for table attachment

Order No.: Z1870024



- | Angle cutting guide fixed 90°
- | Accessory for table attachment

Order No.: Z1870022

CLAMPING ARM



- | Tool-free attachment of arm and sample holder

Standard M

Order No.: Z1870030

Standard L

Order No.: Z1870031

ACCESSORIES
SAMPLE HOLDER STANDARD

- | For round or irregular shaped samples
- | 3-point clamping
- | Up to 6 fixing screws

Standard M (open)


- | For clamping arm M
- | Diameter \varnothing 30 mm

Order No.: Z1870034
Standard L (open)


- | For clamping arm L
- | Diameter \varnothing 40 mm

Order No.: Z1870035
Standard M (closed)


- | For clamping arm M
- | Diameter \varnothing 30 mm, depth 15 mm

Order No.: Z1870036
Standard L (closed)


- | For clamping arm L
- | Diameter \varnothing 40 mm, depth 15 mm

Order No.: Z1870037
SAMPLE HOLDER FLEX

- | To insert in grinding and polishing machines
- | For round or irregular shaped samples
- | 3-point clamping
- | Up to 6 fixing screws

FLEX M (closed)


- | For clamping arm M
- | Diameter \varnothing 30 mm, depth 21 mm

Order No.: Z1870038
FLEX L (closed)


- | For clamping arm L
- | Diameter \varnothing 40 mm, depth 21 mm

Order No.: Z1870039
SAMPLE HOLDER PARALLEL CLAMPING VICE

- | Parallel clamping jaws
- | Clamping range variable, dependent on screws

Sample holder parallel clamping vice M (open)


- | For clamping arm M
- | Diameter \varnothing 30 mm

Order No.: Z1870042
Sample holder parallel clamping vice L (open)


- | For clamping arm L
- | Diameter \varnothing 40 mm

Order No.: Z1870043
Sample holder parallel clamping vice M (closed)


- | For clamping arm M
- | Diameter \varnothing 30 mm, depth 27 mm

Order No.: Z1870040
Sample holder parallel clamping vice L (closed)


- | For clamping arm L
- | Diameter \varnothing 40 mm, depth 27 mm

Order No.: Z1870041

ACCESSORIES
DROP SHAPE SAMPLE HOLDER M Ø 40 MM


- | For round or irregular shaped samples (Ø13 - Ø40 mm)
- | 12 mm clamping depth
- | 3-point clamping

Usable with clamping arm M

Order No.: Z1870044

Usable with clamping arm L

Order No.: Z1870045
UNIVERSAL CLAMPING VICE


- | For samples of any sample geometry
- | Max. sample cross-section: 40 mm x 40 mm
- | 3-point clamping

Usable with clamping arm M

Order No.: Z1870046

Usable with clamping arm L

Order No.: Z1870047
MATRIX CLAMPING VICE


- | For irregularly shaped samples
- | Max. clamping range: 0 - 40 mm

Usable with clamping arm M

Order No.: Z1870048

Usable with clamping arm L

Order No.: Z1870049
MINI VICE


- | Max. Clamping range: 0 - 40 mm
- | Clamping range with prismatic jaw: 0 - 35mm
- | Incl. prismatic jaw

Usable with clamping arm M

Order No.: Z1870053

Usable with clamping arm L

Order No.: Z1870054

ACCESSORIES**DOUBLE PARALLEL VICE**

- | Parallel clamping jaws
- | Fixing a specimen at two clamping points
- | Max. clamping range: 0 - 40 mm

Usable with
clamping arm M

Order No.: Z1870055

Usable with
clamping arm L

Order No.: Z1870056

ADAPTOR WITH BALL JOINT

- | Swivel device for alignment
the sample to the cutting disc
- | Can be combined with all clamping devices
- | Swivel range +/- 18°

Usable with
clamping arm M

Order No.: Z1870057

Usable with
clamping arm L

Order No.: Z1870058



ACCESSORIES
EXTRA FLANGES


! Counteracts offset of the cut-off wheel during cutting

Flange Set \varnothing 59 mm

Order No.: Z1870050

Flange Set \varnothing 99 mm

Order No.: Z1870051

Flange Set \varnothing 139 mm

Order No.: Z1870052

TECHNISCHE DATEN

Cut-off wheel	\varnothing 75 - 203 mm/8"
Variable speed	150 - 3000 U/min
Max. cutting capacity	\varnothing 40 mm
Arbour size	\varnothing 12.7 mm
Variable adjustable cutting force:	0 - 10 N
Manual vertical movement Y-axis	120 mm
Z-axis (parallell cut) manual	25 mm
Precision Z-axis*	0.01 mm
Motor power	0.37 kW (S1)
Connection power	0.75 kVA
W x H x D	591 x 391 x 590 mm
Weight	45 kg (dep. on equipment)

* the results may differ dependent on material, cut-off wheel or clamping

