AUTOMATIC PRECISION CUT-OFF MACHINE QCUT 150 A



The Qcut 150 A is a compact automatic precision cut-off machine with manual cross feed. With its different operation modes and cooling systems it covers a wide range of applications and materials. The user-friendly system of clamping arm, sample holder and table attachment is designed to change it tool-free. The proven QATM-software on the 4.3" touchscreen contains a consumable and program database which allows also to create individually set user profiles.



TABLE ATTACHMENT

With the tool-free mountable table attachment PCBs, plate material or large samples can be quickly sectioned manually.

ZONE-CUTTING

The feed rate or cutting force can be adjusted individually to different areas of the samples. It reduces deformation and warming of the material thus shortens the preparation process.

FORCE-CONTROLLED CUTTING

The cutting force gets precisely controlled by an integrated force-sensor. It keeps the cutting force constant by adjusting the feed rate automatically throughout the cutting process.



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GRINDING MODE

In grinding mode, samples can be grinded down with a cup wheel manually or semi-automatically (Target preparation).

CROSS FEED

With a precision of 5 μ m the manual Z-axis can be monitored via display for parallel cuts or defined grinding of samples.



BASIC MODULE

Qcut 150 A

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- | Automatic Y-axis
- l Manual Z-axis
- I Automatic travel measurement (Y-/Z-axis)
- I Variable speed
- I Table attachment (accessory)
- I Dressing device (option)

Up to 5 different operation modes (depending on equipment)

- I Feed-controlled cutting
- I Force-controlled cutting (option)
- I Cutting on table attachment
- I Cutting with lever
- I Grinding mode (defined material removal with grinding cup)
- I 4.3" Touch-Screen with intuitive QATM user software
- I Zone-cutting feature
- I LED illumination of cutting chamber
- I Solid stainless steel housing, powder coated.
- I Soft-closing hood
- I Connection to external exhausting system on
- request 200 customized cutting programs storable
- I Consumables data base
- I Individual setting of user access rights
- I Setting of care and maintenance tasks incl. automatic reminder
- I USB plug for data exchange and software updates
- Ethernet plug for online-diagnostics and user support

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

Order No.: M1870020

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

Order No.: M1870021



EQUIPMENT

COOLING SYSTEMS (no voltage selection required) Equipment 1

Cut-off wheel immersion cooling (integrated)



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

Order No.: A1870022



Recirculation cooling system 15 L incl. filter

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

Equipment 2

Flow rate (pump) Filling capacity WxHxD

12 ltr./min. 15 liters 330 x 398 x 449 mm

Order No.: A1870023

Equipment 3

Recirculation cooling system 45 L



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

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

Order No.: A1870024

Equipment 5

WxHxD

Fresh water cooling system

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

Order No.: A1870026

Equipment 4 Recirculation cooling system 45 L Systemlab



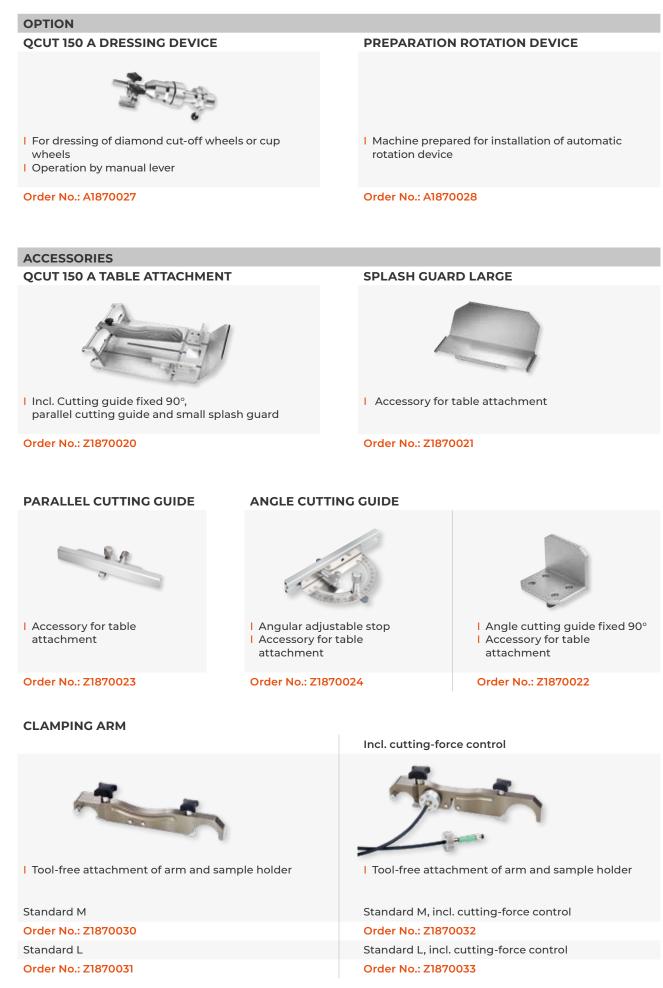


I PVC tank with removable separating slide

- I Inlet sieve with filter bag and overflow
- I Mobile, with insertion mechanism for System Lab cabinets
- I Rinsing hose included

Flow rate (pump)	15 ltr./min.
Filling capacity	45 liters
WxHxD	366 x 540(640) x 610 mm
Order No.: A1870025	







ACCESSORIES

SAMPLE HOLDER STANDARD

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

Standard M (open)



Order No.: Z1870034

Standard M (closed)

I For clamping arm M I Diameter Ø 30 mm

I For clamping arm M

I Diameter Ø 30 mm,

depth 15 mm

Standard L (open)



I For clamping arm L I Diameter Ø 40 mm

Order No.: Z1870035

Standard L (closed)

Order No.: Z1870037



I For clamping arm L I Diameter Ø 40 mm, depth 15 mm

Order No.: Z1870036

SAMPLE HOLDER FLEX

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

FLEX M (closed)



I For clamping arm M I Diameter Ø 30 mm, depth 21 mm

Order No.: Z1870038

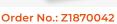
SAMPLE HOLDER PARALLEL CLAMPING VICE

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

Sample holder parallel clamping vice M (open)



I For clamping arm M I Diameter Ø 30 mm



Sample holder parallel clamping vice M (closed)



I For clamping arm M I Diameter Ø 30 mm, depth 27 mm





I For clamping arm L I Diameter Ø 40 mm, depth 21 mm

Order No.: Z1870039

Sample holder parallel clamping vice L (open)



I For clamping arm L I Diameter Ø 40 mm



Order No.: Z1870043

Sample holder parallel clamping vice L (closed)



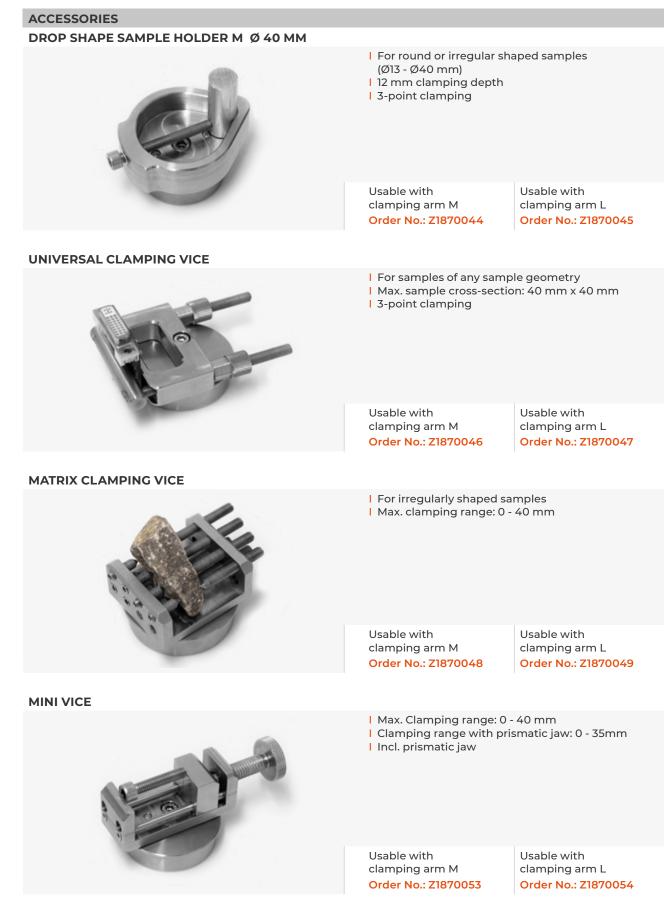
I For clamping arm L I Diameter Ø 40 mm, depth 27 mm

Order No.: Z1870041

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Order No.: Z1870040







ACCESSORIES

DOUBLE PARALLEL VICE



ADAPTOR WITH BALL JOINT



I Swivel device for alignment

- the sample to the cutting disc I 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

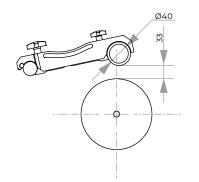


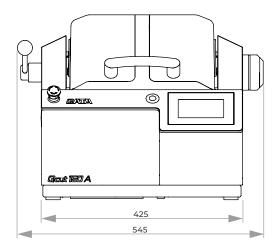
I Counteracts offset of the cut-off wheel during cutting

Flange Set Ø 59 mm Order No.: Z1870050

Flange Set Ø 99 mm Order No.: Z1870051

Flange Set Ø 139 mm Order No.: Z1870052





ACCESSORIES BASIC SET QCUT 150 A Order No.: Z1870025

SPECIFICATIONS		
Cut-off wheel		Ø 75-203 mm/8"
Max. sample size		Ø 40 mm
Arbour size		Ø 12.7 mm
Variable speed		300-3000 rpm
Y-axis (vertical) manual/automatic		120 mm
Feed Y-axis		0.01-20 mm/s
Precision Y-axis		0.1 mm
Z-axis manual (cross feed)		25 mm
Precision Z-axis		0.005 mm
Motor cut-off wheel		0.37 kW, S1-mode
Connected load		0.75 kVA
Power supply	1 2	230 V/50 Hz (1Ph/N/PE) 110 V/60 Hz (1Ph/N/PE)
WxHxD		545 x 391 x 566 mm
Weight		45 kg (dep. on equipment)

