

PRECISION CUT-OFF MACHINE

QCUT 200 A



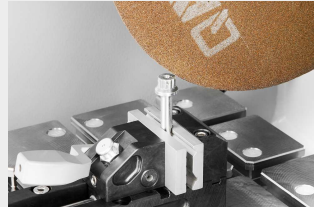
PRECISION CUT-OFF MACHINE QCUT 200 A

FEATURES



HIGHEST DEMANDS OF SAFETY

- | Due to the enabling switch, the machine can only be positioned via the two-hand control when the door is open.
- | The risk of crushing for the machine operator is virtually eliminated



INTELLIGENT COMPONENT DETECTION

- | Proven automatic component detection and a new type of exit detection (auto-stop function)
- | Start and end points of the cutting process are automatically detected and process times are shortened



HIGHEST PRECISION THANKS TO ROBUST DESIGN

- | Durable and low vibration thanks to stable construction
- | Cutting or grinding (using a cup wheel) of delicate samples with maximum precision
- | Excellent access to the cutting chamber thanks to large sliding door
- | Quick and secure attachment of versatile clamping devices on the large machine table



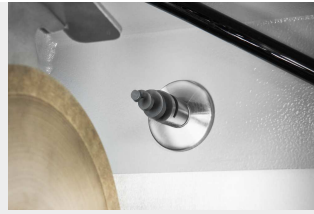
INTUITIVE AND SIMPLE OPERATION

- | Large 7" industrial touchscreen with ergonomic user guidance
- | Easy operation of the user-friendly software
- | Comfortable movement of automatic axes using the Joystick



FLOW MONITORING

- | Optional flow monitoring ensures constant cooling of sensitive samples even during long cutting processes
- | The cutting process is automatically interrupted as soon as a critical threshold value is reached



AUTOMATIC CLEANING FUNCTION

- | Fully automatic machine cleaning thanks to spiral nozzles in the cutting chamber
- | Cleaning can be switched on individually and starts automatically after each cut if required
- | Clear view during the cutting process: cleaning can be activated during the running process



EXTENSIVE CUTTING PROGRAMS

- | Depending on the geometry of the component, the travel or chop cut is used to minimize the contact area to the cut-off wheel
- | Cut the workpiece layer by layer and optimize the angle of action using the step cut functions – particularly suitable for solid material

THIS INSTRUMENT IS IDEALLY
SUITED FOR GEOLOGY AND
MINERALOGY APPLICATIONS

PRECISION CUT-OFF MACHINE QCUT 200 A

CUTTING WITHOUT RESTRICTIONS

1. Cutting chamber flushing

- | Automatic cleaning of the cutting chamber

2. Large machine table

- | Axes can be positioned backlash-free
- | Easy grooves for simple mounting of QATM clamping devices
- | T-slots 8 mm for individual clamping devices
- | Max. W x H: 300 mm x 210 mm

3. Ergonomic control panel

- | Large 7" TFT touch display
- | Joystick for manual operation

4. Laser alignment

- | For exact component part positioning before cutting
- | Included as standard

5. Accessories

- | Clamping possibility individually expandable with turning device or further clamping devices

6. Cut-off wheel lock

- | Simplified cut-off wheel change via locking function
- | With integrated lubrication option

7. Dressing device

- | For sharpening diamond cutting and grinding wheels
- | Can be operated manually from the outside

8. Centrifugal separator

- | Effective removal of coolant mist from the sectioning process



OPTIMAL ACCESSORIES FOR QCUT 150 A AND 200 A

RECIRCULATION COOLING SYSTEMS

Optimal cooling is essential during sectioning. Excessive heat generation during the sectioning process damages the specimen and increases the wear of the cut-off wheel. The cooling and corrosion protection agent dissipates the heat and simultaneously removes the chips from the cut-off chamber.



15L RECIRCULATION COOLING SYSTEM

- Portable system with filter cartridge and lid
- Small footprint required
- Easy to integrate into existing laboratory furniture
- Two-chamber system for filtration



45L RECIRCULATION COOLING SYSTEM (MOBILE)

- Mobile unit with inlet strainer, filter bag and overflow
- Can be placed under a lab bench or floor-to-ceiling cabinet
- Expandable with optional pump module for cut-off chamber flushing
- Two-chamber system for filtration with removable separating slide



45L RECIRCULATION COOLING SYSTEM (SYSTEM LAB)

- Mobile unit with retractable mechanism
- Can be conveniently integrated into QATM system laboratory cabinets and cabinets with undershelves
- Expandable with optional pump module for cut-off chamber flushing
- Inlet strainer, filter bag and overflow
- Two-chamber system for filtration with removable separating slide

ACCESSORIES

CLAMPING TOOLS

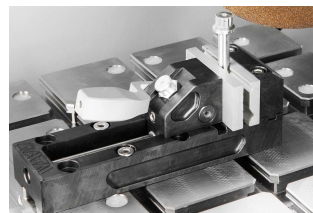
A wide range of clamping tools is available for the Qcut 200 A. Using the Easy clamping system, they can be simple and securely fastened to the table with just one screw. This makes the tedious fixing of the clamping tools in the T-slots of the table unnecessary. The Easy clamping system is an innovative addition with a great impact on everyday work.



Easy-clamping base S
with rotary function +
easy adaption (vertical)



Easy-clamping base S
with Qtool 40 S



Qtool 40



[Click to view video](#)

Clamping and cutting
of challenging samples
(Video)

PERFECT CUTTING - CUT-OFF WHEELS FROM QATM

Cutting is more reliable, safe and efficient when processed with the right ingredients: knowledge, care and the right choice of consumables and instruments. The Qprep range includes specially developed cut-off wheels for a wide variety of materials and requirements.

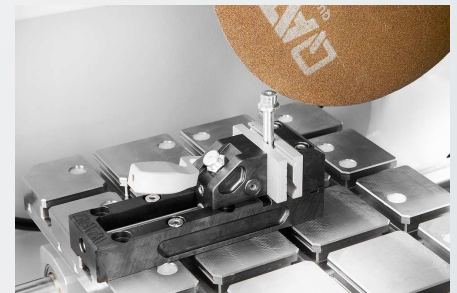
- | Low thermal influence on the specimen during the cutting process
- | Wet abrasive cutting achieves very fine surface finishes after cutting
- | Optimal cutting shortens the further preparation process



FAST, POWERFUL, FLEXIBLE - QTOOL CLAMPING DEVICES

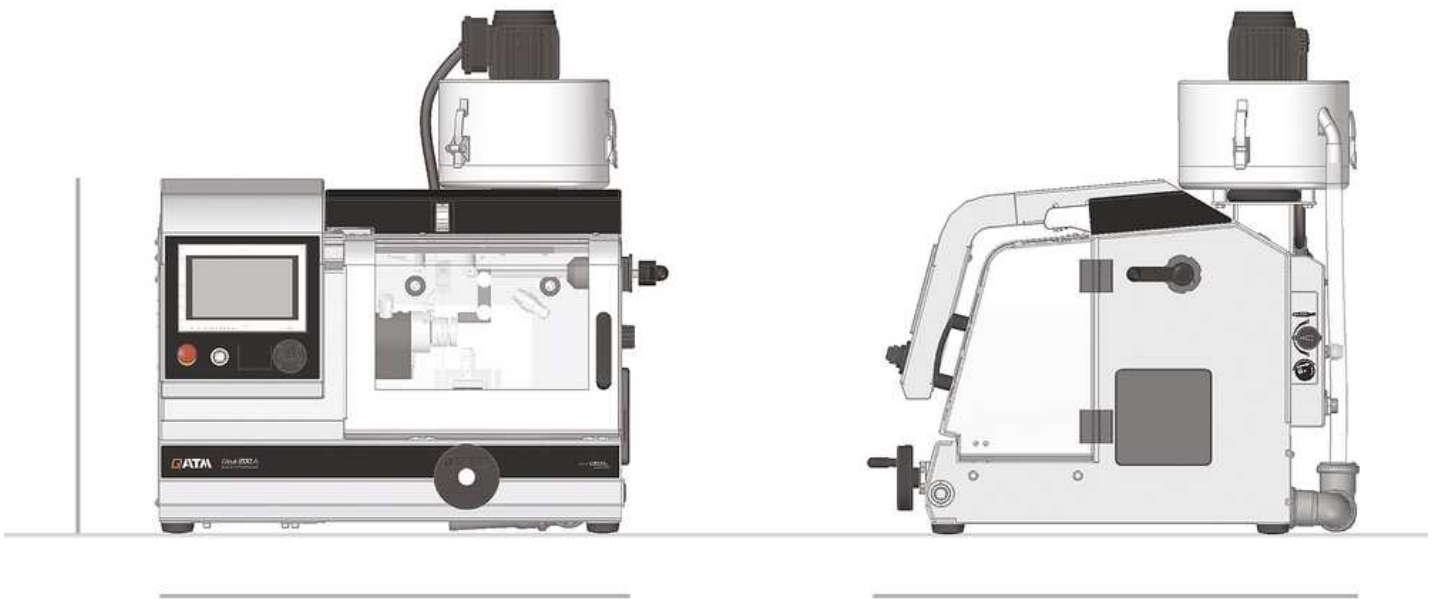
Our innovative clamping devices are used to clamp workpieces securely and precisely to ensure exact cutting and grinding processes. There is a wide range of different clamping devices that have been developed for specific applications and workpiece sizes.

- | Suitable for regular and irregularly shaped samples
- | Fast, repeat-accurate clamping of regularly shaped samples
- | Large range of different clamping tools and systems available



PRECISION CUT-OFF MACHINE QCUT 200 A

TECHNICAL DATA



Cut-off wheel	up to Ø 203 mm / 8"
Max. cutting capacity	75 mm (cut-off wheel Ø 200 mm)
Wheel flange size	Ø 12,7 mm
X-axis	210 mm (manual / automatic)
Y-axis	80 mm (automatic)
Z-axis (option)	80 mm (automatic)
Feedrate	0.01 - 20 mm/s
Precision Z-axis	0,005 mm
min. cross feed (Z-axis)	0,001 mm
Table without Z-axis (WxD)	300 x 210 mm
Table with Z-axis (WxD)	280 x 210 mm
T-slot	8 mm

Speed	300 - 5000 rpm
Drive power (main drive)	0,75 kW, S1
Connection power	2,2 kVA
W x H x D	725 x 535 x 675 mm
Weight	~ 82 kg

www.qatm.com/qcut-200-a

ORDER DATA

BASIC EQUIPMENT

MACHINE (1 ITEM REQUIRED)

M1891000  Qcut 200 A Base machine 200-240V, 50/60Hz

M1891001  Qcut 200 A Base machine 100-120V, 50/60Hz

CROSS FEED (1 ITEM REQUIRED)

A1891000 Qcut 200 A automatic X, Y axis

A1891001 Qcut 200 A automatic X, Y, Z axis

OPTIONS (TO BE ORDERED WITH MACHINE)

A1891003 Qcut 200 A cutting chamber cleaning

A1891004 Qcut 200 A flow monitoring

A1891005 Qcut 200 A preparation rotation device

Z1891000 Qcut 200 A dressing device

A1891008 Preparation centrifugal separator

Z1891006 Centrifugal separator

A1891002 Preparation fresh water cooling system

RECIRCULATION SYSTEM (1 ITEM REQUIRED)

Z5800011 Qcut 200 A recirculation cooling system 15 Ltr.

Z5800012 Qcut 200 A recirculation cooling system 45 Ltr., mobile

Z5800013 Qcut 200 A recirculation cooling system 45 Ltr., for system lab

Z5800014 Pump module recirculation cooling

Z5800015 Pump module chamber cleaning (not usable with cooling system 15 Ltr.)

OPTIONS (CAN BE ORDERED SEPARATELY)

Z1800002



Sample collector

Z1891001

Rotation device type RD2.1

Z1870050

Flange set Ø 59 mm

Z1870051

Flange set Ø 99 mm

Z1870052

Flange set Ø 139 mm

PRECISION CLAMPING DEVICES

Z1870035

Sample holder L standard Ø 40 mm open

Z1870037

Sample holder L standard Ø 40 mm closed

Z1870039

Sample holder L Flex Ø 40 mm

Z1870043

Sample holder L parallel clamping vice open

Z1870041

Sample holder L parallel clamping vice closed

Z1870045

Drop shape sample holder L Ø 40 mm

Z1870047

Universal clamping vice L

Z1870054

Mini vice L

Z1870056

Double parallel vice L

Z1870058

Adaptor with ball joint L

Z1870064

Reduction ring Ø 25 mm

Z1870063

Reduction ring Ø 30 mm

Z1870071

Reduction ring Ø 40 mm

Z1870067

Reduction ring 1"

Z1870066

Reduction ring 1 1/4"

Z1870065

Reduction ring 1 1/2"

Z1870068

Manual chuck Ø 32 mm

Z1870069

Manual chuck Ø 44 mm

Z1870070

Manual chuck Ø 56 mm

VACUUM CLAMPING VICES

Z1870028	Vacuum sample holder
01870288	Vacuum holder (sacrificial plate)
Z1304600	Vacuum pump 230V/50Hz for vacuum sample holder
Z1304634	Vacuum pump 110V/60Hz for vacuum sample holder

QUICK CLAMPING TOOLS

QTOOL 40

Z2270201	Qtool 40 S
Z2270200	Qtool 40
02270202	Clamping jaw 25 mm - for Qtool 40
Z2270202	Clamping jaws 45 mm - for Qtool 40
02270212	Clamping jaw 25 mm bevelled - for Qtool 40
02270213	Clamping jaw 25 mm cross prism - for Qtool 40
Z2270203	Clamping jaws 45 mm slotted - for Qtool 40
Z2270204	Clamping jaws 45 mm slotted prism - for Qtool 40

QTOOL 60

Z2235200	Qtool 60
02235202	Clamping jaw 32 mm - for Qtool 60
Z2235201	Clamping jaws 60 mm - for Qtool 60
02235212	Clamping jaw 32 mm bevelled - for Qtool 60
02235213	Clamping jaw 32 mm cross prism - for Qtool 60
Z2235202	Clamping jaws 60 mm slotted - for Qtool 60
Z2235203	Clamping jaws 60 mm slotted prism - for Qtool 60

EASY-CLAMPING PLATES

Z2236030	Easy-clamping plate S
Z2236031	Easy-clamping plate S with rotating unit
Z2236035	Easy-clamping plate M

ACCESSORIES FOR EASY-CLAMPING PLATES

Z2236032	Easy adaption horizontal
Z2236033	Easy adaption vertical
Z2236034	Easy adaption Qtool 40 - 60
Z2236038	Multitower rotating plate
Z2236039	Multitower
Z2236040	Swivel unit Qtool 40 - 60
Z2236036	Easy-multifunctional plate

CLAMPING ACCESSORIES FOR ROTATING, SWIVELING AND SPECIAL APPLICATIONS

Z1304643	Screw clammer with Easy-clamping plate M
Z1304636	Expansion clamping device
Z2236009	Vertical clamp single
Z2236010	Vertical clamp double
Z2234010	Clamping system X-Clamp 3858

UNIVERSAL VICES AND ACCESSORIES

01350022	Prism 120°
01350023	Prism slim
01350024	Prism 90°
Z1350008	 Universal vice Piccolo 54
Z1350010	 Suitcase set universal vice Piccolo 54
Z1350012	 Universal vice Piccolo 100
92005796	Longitudinal v-shoe
92005797	Traverse v-shoe
92005799	Longitudinal bridge
92005800	Traverse bridge

92005798	Standard clamping shoe
Z1350007	Height adapter 60mm Piccolo
Z1350003	Height adapter 74mm Mono
95003172	Clamping arm extension Piccolo 54 and Mono 61
Z1304591	Fixing screw M6 x 25
95003169	Fixing screw Piccolo M8 x 25
95003170	Fixing screw Piccolo M10 x 25
95003168	Fixing screw Mono M10 x 32
91001157	T-slot nut - stainless M6 x 8
91001161	T-slot nut - stainless M8 x 10
91001159	T-slot nut - stainless M8 x 12
91001158	T-slot nut - stainless M10 x 12