



CUT-OFF MACHINE

QCUT 350 A

The Qcut 350 A is an automatic wet abrasive cut-off machine for samples up to max. Ø 135 mm. Due to its low contact cutting (lcc) function, it gently cuts different types of samples with various geometries, sizes and materials.

The cut-off machine is commonly used in metallography, materialography, mineralogy, as well as for the cutting of composite materials (CFC/PMC/MMC) or electronic devices such as PCB's.

The large cutting chamber and stainless steel table of the machine allow comfortable and flexible operation. A wealth of software based features, such as automatic touch detection, multi-position process and parallel setting of the wheel guard during vertical cutting further enhance the reproducibility of cutting processes.



[Click to view video](#)

PRODUCT ADVANTAGES

- | Automatic horizontal movement
- | Automatic vertical movement
- | Electronic control of cutting force
- | Electronic control of distance
- | Electronic cutting force limiter
- | Memory for saving programs
- | Large range of different clamping tools and systems available
- | Opening on the right for long parts

FEATURES

ELECTRONIC PERFORMANCE CONTROL

The feed rate is reduced upon reaching the preset maximum power. This protects the machine and its cutting components from overloading.

PRECISION CROSS FEED

The optional, automatic cross-feed with series cut function is suitable for exact parallel cuts. Operational handling takes place via electronic control. The electronic cross-feed can also be applied as feeder axis when working with pot wheel.

PULSED CUTTING

In cases where there are heavy sections and materials which are difficult to cut, the variable pulsed cutting system gives decisive advantages.

MULTI-POSITION-PROCESS MPP

With the "Multi-Position-Process" (MPP) you can place multiple specimens on the table and cut them in one sequence. The teach-in function enables a simple and user-friendly setting of various cutting positions.

AUTOMATIC TOUCH DETECTION

After automatic start of the cutting process the sample is approached in rapid run. By touching the cut-off wheel the sample is cut efficiently and safely with preset cutting parameters.

NEW DIMENSIONS

The enlarged cutting chamber and worktable combined with parallel setting of wheel guard increases cutting capacity and travel for all axes. The side door ensures optimum access to the cutting chamber and the additional opening for supplying long sample parts opens up much possibilities.

ELECTRONIC CONTROL

Cutting parameters for the automatic traverse cuts can be saved in the electronic control, and then loaded later. The position of the manual traverse cut is also shown on the display. All parameters such as feed rate, travel and cutting force can be altered during automatic cycles.

CUT-OFF MACHINE QCUT 350 A

SUPERIORITY IN DETAIL

1. Large machine table

- | Axes can be positioned backlash-free
- | Easy grooves for simple mounting of QATM clamping devices
- | T-slots 12 mm for individual clamping devices
- | Max. W x H: 500 mm x 300 mm (without Z-axis), otherwise 400 mm x 300 max.

2. Ergonomic control panel

- | 10,1" color touch display
- | Joystick for manual operation

3. Laser alignment

- | For exact component part positioning before cutting

4. Cut-off wheel lock

- | Simplified cutting disc replacement via locking mechanism and easy nut system

5. Side opening

- | Side opening on the right for long samples

6. Robust housing

- | Sturdy powder-coated aluminum construction

7. Parallel-guided cutting disc cover

- | Increased cutting capacity in cross-cutting



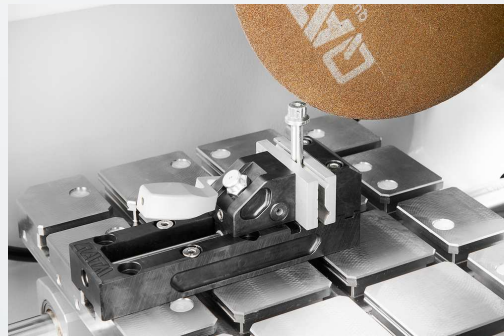
PERFECT CUTTING - CUT-OFF WHEELS FROM QATM

Cutting is more reliable, safe and efficient when processed with the right ingredients: knowledge, care and the right choice of consumables and instruments.



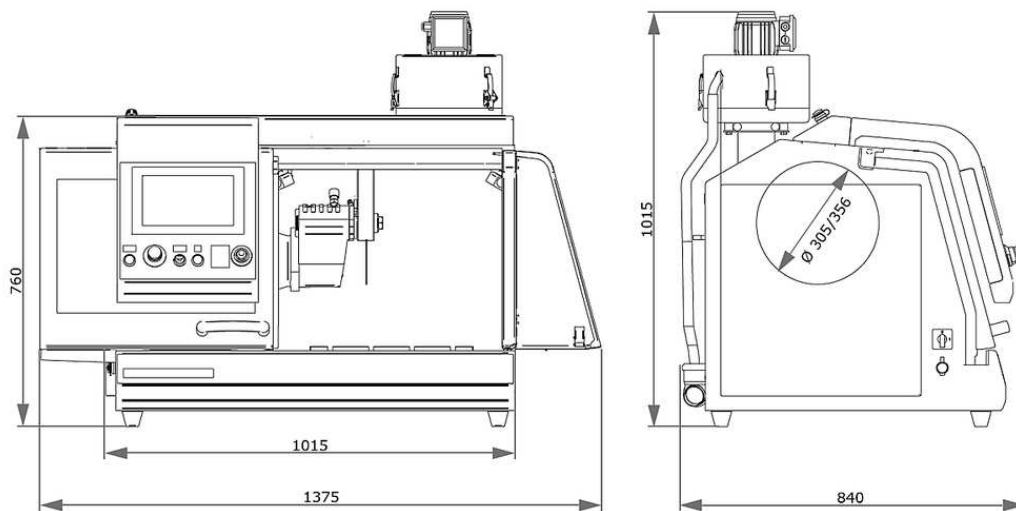
FAST, POWERFUL, FLEXIBLE - QTOOL CLAMPING DEVICES

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.



CUT-OFF MACHINE QCUT 350 A

TECHNICAL DATA



Cutting wheel	up to Ø 356 mm/14"
Max. cutting capacity	Ø 135 mm
Wheel flange size	Ø 32 mm
X-axis automatic	260 mm
Y-axis automatic	175 mm
Z-axis automatic (option)	140 mm
Precision Z-axis	0.1 mm
Table without Z-axis WxD	500 x 300 mm, stainless
Table with Z-axis WxD	400 x 300 mm, stainless
T-slot	12 mm
Speed	variable 800-3400 rpm
Connection power	9.5 kVA
Drive power (main drive)	4 kW S1; 5.5 kW S3
W x H x D	1015 x 760 x 810 mm
Weight	~ 200 kg (depends on equipment)

www.qatm.com/qcut-350-a

ORDER DATA

BASIC EQUIPMENT

MACHINE (ALL ITEMS REQUIRED)

M1821001  Qcut 350 A (Brillant 250) Base machine

POWER SUPPLY (1 ITEM REQUIRED)

A1821015 Qcut 350 A power supply 400V (3Ph/PE)

A1821016 Qcut 350 A power supply 480V (3Ph/PE)

A1821017 Qcut 350 A power supply 220V (3Ph/PE)

WHEEL GUARD (1 ITEM REQUIRED)

A1821018 Qcut 350 A wheel guard 305mm 12"

A1821019 Qcut 350 A wheel guard 356mm 14"

CROSS FEED (1 ITEM REQUIRED)

A1821020 Qcut 350 A without Z-axis

A1821021 Qcut 350 A manual Z-axis

A1821022 Qcut 350 A automatic Z-axis

RECIRCULATION SYSTEM (1 ITEM REQUIRED)

A5800507  Recirculation cooling System 45L, mobile, with insertion mechanism

A5800508  Recirculation cooling System 45L, mobile, without folding wheels

A6501009  Belt filter 130 - 400V/50Hz (3Ph/PE)

A6501010  Belt filter 130 - 220V/60Hz (3Ph/PE)

Z6501004 Connection set belt filter 130

OPTIONS (TO BE ORDERED WITH MACHINE)

A1821023	Qcut 350 A laser alignment
A1821024	Qcut 350 A centrifugal separator



PRECISION CLAMPING DEVICES

SILICON CARBIDE PRECISION CUT-OFF WHEELS

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
Z1870049	Matrix 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 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

QTOOL 80

Z2231203	Qtool 80 - 100mm
02231243	Clamping jaw 40 mm
Z2231215	Clamping jaws 70 mm
02231245	Clamping jaw 40 mm bevelled
02231246	Clamping jaw 40 mm cross prism
Z2231216	Clamping jaws 70 mm slotted
Z2231217	Clamping jaws 70 mm slotted prism

QTOOL 80 VARIO

Z2231200	Qtool 80 Vario - 100 mm
Z2231210	Workpiece stop
02231200	Clamping jaw, 40 mm - for Qtool 80 Vario
Z2231211	Clamping jaws, 70 mm
02231213	Prism jaw, 40 mm

02231229	Bevelled jaw, 40 mm
02231230	Cross prism jaw, 40 mm
Z2231212	Round bar jaws, 70 mm slotted
Z2231213	Prism jaws, 70 mm slotted
Z2231214	Clamping jaws, 70 mm slotted

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

Z2236041	Swivel unit Qtool 60 - 80
Z1304643	Screw clamber with Easy-clamping plate M
Z1304636	Expansion clamping device
Z2236009	Vertical clamp single
Z2236010	Vertical clamp double
Z2234010	Clamping system X-Clamp 3858

CROSS VICES

Z1340010



Cross vice 50 - 100

ANGLE AND ROTATING VICES

Z1304001

Angle vice 60

01304008

Prism jaw angle vice 60

ROTATING DEVICES

Z1870059

Rotation device type RD1

Z1891001

Rotation device type RD2.1

UNIVERSAL VICES AND ACCESSORIES

Z1350025

Clamping rail

01350022

Prism 120°

01350023

Prism slim

01350024

Prism 90°

01350025

Prism 90° high

Z1350008



Universal vice Piccolo 54

Z1350010



Suitcase set universal vice Piccolo 54

Z1350012



Universal vice Piccolo 100

Z1350002



Universal vice Mono 61

Z1350004



Suitcase set universal vice Mono 61

Z1350011



Universal vice Mono 132

Z1350005

Universal vice Duo

Z1350006

Chain vice set

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