



CUT-OFF MACHINE

QCUT 400 A

The compact large cut-off machine Qcut 400 A offers high cutting capacity in a minimal footprint. Its automatic travel and cross-cut functions ensure precise, low-contact cuts.

- | Compact design: Enables large and powerful cuts in a small space
- | Best price-performance ratio: Strong cutting performance at a fair price
- | Multi-Position Process (MPP): Simultaneous positioning and automatic cutting of different components on the machine table.



[Click to view video](#)

CUT-OFF MACHINE QCUT 400 A  
**SUPERIORITY IN DETAIL**

**1. Ergonomic control panel**

- | Large 10.1" industrial touchscreen with intuitive QATM software
- | Quick setup, control of all automatic axes with joystick

**2. Robust machine body**

- | Sturdy powder-coated aluminum construction
- | Integrable recirculating cooling unit
- | Automatic central lubrication of the axes

**3. Compact machine table**

- | Made of stainless steel with integrated longitudinal and cross T-slots
- | Secure clamping of complex workpiece shapes using the T-slot table or Easy

**4. Large cutting chamber**

- | Large sliding door provides easy access and visibility
- | Side swing door for convenient access to cutting chamber
- | Side opening on the right for long samples
- | Break-resistant LED interior lighting

**5. Optimized swivel arm**

- | Highly efficient cooling system
- | Increased cutting capacity thanks to parallel guided cut-off wheel guard
- | Laser alignment aid for easy workpiece positioning
- | Innovative quick-change system for easy maintenance and cut-off wheel replacement



## CUT-OFF MACHINE QCUT 400 A

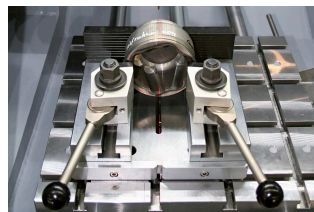
### FEATURES



#### STAINLESS STEEL MACHINE TABLE

Spacious machine table enables precise work even under heavy loads.

- | Integrated T-slots for the Easy clamping system for quick mounting of clamping tools
- | Efficient and reliable fixation of complex geometries using clamping devices
- | Load capacity up to 120 kg (including clamping devices)



#### LASER ALIGNMENT

Optional laser alignment projects the cutting line directly onto the workpiece, enabling precise positioning and exact cut placement.

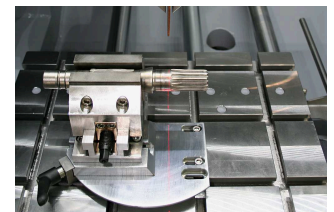
- | Easy positioning of workpieces
- | Precise clamping without much effort



#### ROBUST MACHINE WITH LARGE CUTTING CHAMBER

Robust, powder-coated aluminum machine body features a large sliding door with scratch-resistant laminated safety glass and convenient side access door.

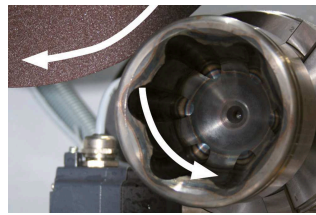
- | Machine body with integrable recirculating cooling unit and automatic central lubrication
- | Large cutting chamber access with safety interlock —



#### PRECISION CROSS FEED

The table-integrated Z-axis maintains consistent cutting height while the automatic cross feed with serial cutting function delivers precise parallel cuts.

- | Simple and intuitive serial cutting
- | The multi-position process (MPP) allows more complex serial cutting to be carried out



### ROTATION TOOL

The optional rotation tool features a vertical rotary feed parallel to the wheel with software-controlled angle input.

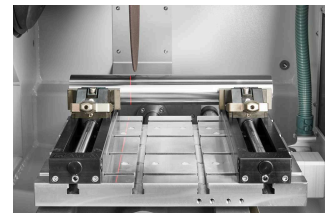
- | More uniform cutting surfaces and cutting quality
- | Cutting time is halved for rotationally symmetrical parts
- | Protects against cut-off wheel run-out



### INTUITIVE AND EASY OPERATION

Large 10.1" industrial touchscreen with intuitive QATM user software and joystick.

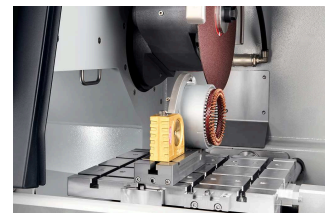
- | Easily manage process parameters and create customer-specific maintenance tasks (200 user programs can be saved)
- | Parameters such as feed rate, travel distance, and cutting force can be changed during automatic operation



### PULSED CUTTING

For thick and difficult-to-cut materials, the adjustable automatic pulsed cutting provides gentle sectioning with optimal cooling of the cut interface.

- | Enhanced cutting results for larger components
- | Superior cooling of contact surfaces



### CUTTING FORCE DEPENDENT FEED CONTROL (X- AND Y-AXIS)

The feed rate automatically decreases when cutting force reaches a preset limit, protecting the machine, sample, and clamping tools from overloading while ensuring time savings through variable feed

CUT-OFF MACHINE QCUT 400 A

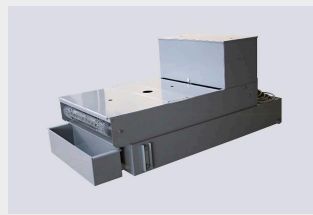
**ACCESSORIES**



**RECIRCULATION COOLING UNIT**

Compact, integrable cooling system for standard applications.

- | Can be integrated into the housing and extended
- | Multi-chamber filtration
- | Inlet sieve with filter bag (see consumables)



**BELT FILTER SYSTEM**

Large cooling and filter system for continuous operation, e.g. in serial applications.

- | Tank size: 285 l
- | Filtering capacity: 100 l/min (referring emulsion)
- | Pump capacity: 100 l/min



**CENTRIFUGAL SEPARATOR**

Work safety: Working environment with improved air quality.

- | Removes coolant mist
- | Purifies the air and increases visibility
- | Exhaust power 452 m<sup>3</sup>/h

## 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.

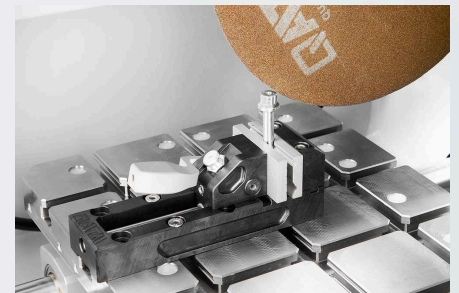
- | Low thermal influence on the specimen during the cutting process
- | Wet abrasive cutting achieves very fine surface finishes after cutting
- | Optimal cutting shortens the further preparation process



## 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



CUT-OFF MACHINE QCUT 400 A

**TECHNICAL DATA**



**FEATURES**

<b>Cutting wheel</b>	up to $\varnothing$ 406 mm/16"
<b>Max. cutting capacity</b>	$\varnothing$ 150 mm
<b>X-axis automatic</b>	345 mm
<b>Y-axis automatic</b>	200 mm
<b>Z-axis manual or automatic (option)</b>	150 mm
<b>Precision Z-axis</b>	0.1 mm
<b>T-slot</b>	12 mm
<b>Speed</b>	variable
<b>Connection power</b>	17 kVA
<b>Drive power (main drive)</b>	7 kW, SI
<b>W x H x D</b>	1100 x 1610 x 930 mm
<b>Weight (depends on equipment)</b>	~ 480 kg

[www.qatm.com/qcut-400-a](http://www.qatm.com/qcut-400-a)

## ORDER DATA

### BASIC EQUIPMENT

#### MACHINE (ALL ITEMS REQUIRED)

M1842000  Qcut 400 A Base machine

#### POWER SUPPLY (1 ITEM REQUIRED)

A1842000 Qcut 400 A power supply 400V/50Hz (3Ph/PE)

A1842001 Qcut 400 A power supply 480V/60Hz (3Ph/PE)

A1842002 Qcut 400 A power supply 220V/60Hz (3Ph/PE)

#### CROSS FEED (1 ITEM REQUIRED)

A1842003 Qcut 400 A X-axis autom. / without Z-axis

A1842004 Qcut 400 A X-axis autom. / Z-axis manual

A1842005 Qcut 400 A X-axis autom. / Z-axis autom.

#### RECIRCULATION SYSTEM (1 ITEM REQUIRED)


A1842008  Brillant 265 recirculation cooling system

A1842011  Brillant 265 Belt filter 285

Z6501003 Connection set belt filter 285

### OPTIONS (TO BE ORDERED WITH MACHINE)

A1842009 Qcut 400 A laser alignment aid

A1842010  Qcut 400 A centrifugal separator

### PRECISION CLAMPING DEVICES, CLAMPING\_DEVICES, PRECISION\_CLAMPING\_DEVICES

Z1870063	Reduction ring Ø 30 mm, Clamping_devices, Precision_clamping_devices
Z1870069	Manual chuck Ø 44 mm, Clamping_devices, Precision_clamping_devices

## QUICK CLAMPING TOOLS, CLAMPING\_DEVICES

### QTOOL 80, CLAMPING\_DEVICES, QTOOL\_SERIES

Z2231203	Qtool 80 - 100mm, Clamping_devices, Qtool_series
Z2231204	Qtool 80 - 150mm, Clamping_devices, Qtool_series
02231243	Clamping jaw 40 mm, Clamping_devices, Qtool_series
Z2231215	Clamping jaws 70 mm, Clamping_devices, Qtool_series
02231245	Clamping jaw 40 mm bevelled, Clamping_devices, Qtool_series
02231246	Clamping jaw 40 mm cross prism, Clamping_devices, Qtool_series
Z2231216	Clamping jaws 70 mm slotted, Clamping_devices, Qtool_series
Z2231217	Clamping jaws 70 mm slotted prism, Clamping_devices, Qtool_series

### QTOOL 80 VARIO, CLAMPING\_DEVICES, QTOOL\_SERIES

Z2231200	Qtool 80 Vario - 100 mm, Clamping_devices, Qtool_series
Z2231201	Qtool 80 Vario - 150 mm, Clamping_devices, Qtool_series
Z2231202	Qtool 80 Vario - 250 mm, Clamping_devices, Qtool_series
Z2231210	Workpiece stop, Clamping_devices, Qtool_series
02231200	Clamping jaw, 40 mm - for Qtool 80 Vario, Clamping_devices, Qtool_series
Z2231211	Clamping jaws, 70 mm, Clamping_devices, Qtool_series
02231213	Prism jaw, 40 mm, Clamping_devices, Qtool_series
02231229	Bevelled jaw, 40 mm, Clamping_devices, Qtool_series
02231230	Cross prism jaw, 40 mm, Clamping_devices, Qtool_series
Z2231212	Round bar jaws, 70 mm slotted, Clamping_devices, Qtool_series
Z2231213	Prism jaws, 70 mm slotted, Clamping_devices, Qtool_series
Z2231214	Clamping jaws, 70 mm slotted, Clamping_devices, Qtool_series

## POWER CLAMPING SYSTEMS, CLAMPING\_DEVICES, POWER\_CLAMPING\_SYSTEMS

### POWER CLAMPING SYSTEM 100-540, CLAMPING\_DEVICES, POWER\_CLAMPING\_SYSTEMS

Z2234016	Power clamping system 100-540, Clamping_devices, Power_clamping_systems
Z2234018	Prism clamping jaw, Clamping_devices, Power_clamping_systems
Z2234017	Clamping jaw flat, Clamping_devices, Power_clamping_systems
Z2234019	Angular drive, Clamping_devices, Power_clamping_systems

#### POWER CLAMPING SYSTEM LC 90, CLAMPING\_DEVICES, POWER\_CLAMPING\_SYSTEMS

Z2234001	Power clamping system LC 90, Clamping_devices, Power_clamping_systems
Z2234003	Carrier jaws LC 90, Clamping_devices, Power_clamping_systems
Z2234004	V-groove jaw 100, Clamping_devices, Power_clamping_systems
Z2234005	Clamping jaw flat, Clamping_devices, Power_clamping_systems
Z2234009	Quick-change adapter, Clamping_devices, Power_clamping_systems
Z2234008	Step jaw 100, Clamping_devices, Power_clamping_systems
Z2234002	Clamping system X-Clamp 100, Clamping_devices, Power_clamping_systems
Z2234006	Socket 90°, Clamping_devices, Power_clamping_systems


## EASY-CLAMPING PLATES, CLAMPING\_DEVICES, EASY\_CLAMPING\_PLATES

## CLAMPING ACCESSORIES FOR ROTATING, SWIVELING AND SPECIAL APPLICATIONS, CLAMPING\_DEVICES, CLAMPING\_ACCESSORIES\_SPECIALS

Z1304636	Expansion clamping device, Clamping_devices, Clamping_accessories_specials
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#### CROSS VICES, CLAMPING\_DEVICES, CLAMPING\_ACCESSORIES\_SPECIALS

Z1340010	 Cross vice 50 - 100, Clamping_devices, Clamping_accessories_specials
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Z1340000	 Cross vice 80 - 100, Clamping_devices, Clamping_accessories_specials
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#### ANGLE AND ROTATING VICES, CLAMPING\_DEVICES, CLAMPING\_ACCESSORIES\_SPECIALS




Z1304001	Angle vice 60, Clamping_devices, Clamping_accessories_specials
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01304008	Prism jaw angle vice 60, Clamping_devices, Clamping_accessories_specials
Z1302000	Angle vice 80, Clamping_devices, Clamping_accessories_specials
01302016	Prism jaw angle vice 80, Clamping_devices, Clamping_accessories_specials

## ROTATIG DEVICES, CLAMPING\_DEVICES, ROTATION\_DEVICES

Z1870059	Rotation device type RD1, Clamping_devices, Rotation_devices
Z1891001	Rotation device type RD2.1, Clamping_devices, Rotation_devices

## UNIVERSAL VICES AND ACCESSORIES, CLAMPING\_DEVICES, UNIVERSAL\_VICES\_AND\_ACCESSORIES

Z1350025	Clamping rail, Clamping_devices, Universal_vices_and_accessories
01350022	Prism 120°, Clamping_devices, Universal_vices_and_accessories
01350023	Prism slim, Clamping_devices, Universal_vices_and_accessories
01350024	Prism 90°, Clamping_devices, Universal_vices_and_accessories
01350025	Prism 90° high, Clamping_devices, Universal_vices_and_accessories
Z1350002	 Universal vice Mono 61, Clamping_devices, Universal_vices_and_accessories
Z1350004	 Suitcase set universal vice Mono 61, Clamping_devices, Universal_vices_and_accessories
Z1350011	 Universal vice Mono 132, Clamping_devices, Universal_vices_and_accessories
Z1350005	Universal vice Duo, Clamping_devices, Universal_vices_and_accessories
Z1350006	Chain vice set, Clamping_devices, Universal_vices_and_accessories
92005796	Longitudinal v-shoe, Clamping_devices, Universal_vices_and_accessories
92005797	Traverse v-shoe, Clamping_devices, Universal_vices_and_accessories
92005799	Longitudinal bridge, Clamping_devices, Universal_vices_and_accessories
92005800	Traverse bridge, Clamping_devices, Universal_vices_and_accessories
92005798	Standard clamping shoe, Clamping_devices, Universal_vices_and_accessories
Z1350007	Height adapter 60mm Piccolo, Clamping_devices, Universal_vices_and_accessories
Z1350003	Height adapter 74mm Mono, Clamping_devices, Universal_vices_and_accessories
95003172	Clamping arm extension Piccolo 54 and Mono 61, Clamping_devices,

Universal\_vices\_and\_accessories

Z1304591	Fixing screw M6 x 25, Clamping_devices, Universal_vices_and_accessories
95003169	Fixing screw Piccolo M8 x 25, Clamping_devices, Universal_vices_and_accessories
95003170	Fixing screw Piccolo M10 x 25, Clamping_devices, Universal_vices_and_accessories
95003168	Fixing screw Mono M10 x 32, Clamping_devices, Universal_vices_and_accessories
91001157	T-slot nut - stainless M6 x 8, Clamping_devices, Universal_vices_and_accessories
91001161	T-slot nut - stainless M8 x 10, Clamping_devices, Universal_vices_and_accessories
91001159	T-slot nut - stainless M8 x 12, Clamping_devices, Universal_vices_and_accessories
91001158	T-slot nut - stainless M10 x 12, Clamping_devices, Universal_vices_and_accessories