



CUT-OFF MACHINE

QCUT 600 A

qatm.com/products/cutting/large-cut-off-machines/qcut-600-a/

QCUT 600 A**CUT-OFF MACHINE**

The Qcut 600 A represents the flagship of QATM's cut-off machine series, delivering maximum cutting capacity for large and heavy workpieces.

Its automatic travel and cross-feed functions enable precise, low-contact cutting while setting new standards in workspace efficiency, operational flexibility, and process automation.

Large workpieces can be placed on the heavy-duty machine table using a forklift or crane.

**QCUT 600 A****PRODUCT ADVANTAGES**

- | Maximum cutting capacity: Samples with a diameter of up to 244 mm can be easily cut
- | Industrial applications: Even the heaviest samples can be placed on the heavy-duty machine table using a forklift or crane
- | Multi-Position Process (MPP): Simultaneous positioning and automatic cutting of different components on the machine table

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SUPERIORITY IN DETAIL

1 | ERGONOMIC CONTROL PANEL

- | Large 12.1" industrial touchscreen with intuitive QATM software
- | Quick setup, control of all automatic axes with joystick
- | The sliding control panel enables unobstructed working conditions

2 | ROBUST MACHINE BODY

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

3 | LARGE 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 clamping system
- | Dimensions: 750 × 600 mm (W × D)
- | Load capacity: up to 400 kg
- | Travel X: 550 mm, Y: 360 mm, Z: 550 mm

4 | LARGE CUTTING CHAMBER

- | Large sliding door provides easy access and visibility
- | Side swing door for convenient access to cutting chamber
- | Large side door for easy cut-off wheel replacement
- | Break-resistant LED interior lighting

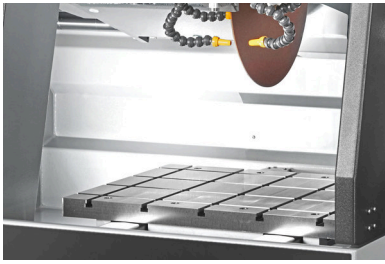
5 | OPTIMIZED SWIVEL ARM

- | Highly efficient cooling system
- | Increased cutting capacity thanks to parallel guided cut-off wheel guard
- | Laser alignment aid for easy workpiece positioning (option)
- | Water-cooled main drive with 15 kW drive power

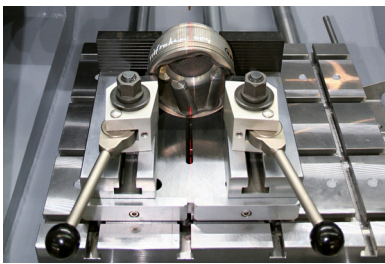


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FEATURES

**STAINLESS STEEL MACHINE TABLE**

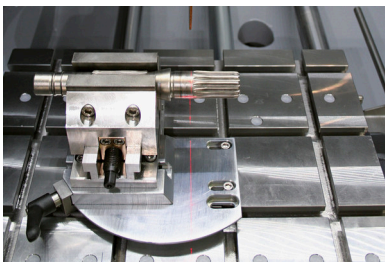
- | Spacious machine table enables precise work even under heavy loads.
- | Integrated T-slots for the Easy clamping system for quick mounting of clamping tools
- | Efficient and reliable fixation of complex geometries using clamping devices
- | Load capacity up to 120 kg (including clamping devices)

**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**

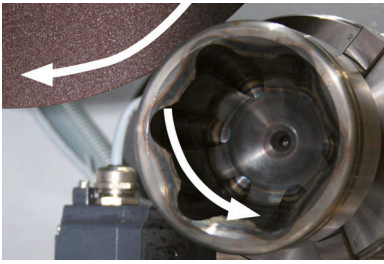
- | Robust, powder-coated steel machine body features a large sliding door with scratch-resistant laminated safety glass and convenient side access door.
- | Machine body with integrable recirculating cooling unit and automatic central lubrication
- | Large cutting chamber access with safety interlock — doors open only when cut-off wheel is stationary

**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

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FEATURES



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 12.1" 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.

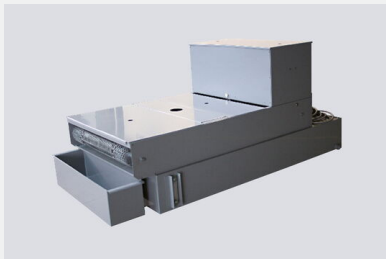
- | Time savings thanks to variable feed rate

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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 or 500 m³/h depending on voltage

QCUT 600 A

QTOOL CLAMPING DEVICES

Fast, powerful, flexible.

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.

QTOOL SERIES →

qatm.com/products/cutting/clamping-tools/qtool-series/

CLAMPING TOOLS FOR SPECIAL APPLICATIONS →

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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.

TO THE PRODUCT RANGE →

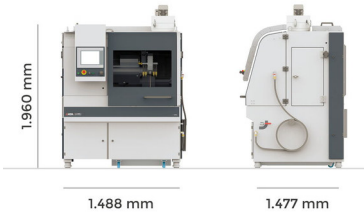
qatm.com/products/consumables/cutting/



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TECHNICAL DATA

Cutting wheel	up to Ø 600 mm/24"
Max. cutting capacity	Ø 244 mm
Max. way of cutting wheel into sample	190 mm (cutting wheel Ø 500 mm)
Wheel flange size	Ø 32/40 mm
X-axis automatic	550 mm
Y-axis automatic	360 mm
Z-axis automatic	550 mm
Precision Z-axis	0.1 mm
Table WxD	750 x 600 mm, stainless
T-slot	12 mm
Speed	variable 1000-2400 rpm
Drive power (main drive)	15 kW S1
Connection power	30 kVA
W x H x D	1488 x 1960 x 1477 mm
Weight	~ 1600 kg (depends on equipment)



QCUT 600 A

ORDERING INFORMATION

BASIC EQUIPMENT

MACHINE (ALL ITEMS REQUIRED)

M1831000	Qcut 600 A (Brillant 285) Base machine
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POWER SUPPLY (1 ITEM REQUIRED)

A1831000	Qcut 600 A power supply 400V/50Hz (3Ph/N/PE)
A1831002	Qcut 600 A power supply 480V/60Hz (3Ph/PE)

WHEEL GUARD (1 ITEM REQUIRED)

A1831001	Qcut 600 A wheel guard 500mm
A1831010	Qcut 600 A wheel guard 600mm

RECIRCULATION SYSTEM (1 ITEM REQUIRED)

A1831005	Qcut 600 A recirculation system 400V/50Hz (3Ph/PE)
A1831006	Qcut 600 A recirculation system 480V/60Hz (3Ph/PE)
A6501000	Belt filter 285 400V/50Hz (3Ph/PE)
A6501002	Belt filter 285 480V/60Hz (3Ph/PE)
Z6501007	Connection set belt filter 285

OPTIONS (TO BE ORDERED WITH MACHINE)

A1831003	Qcut 600 A automatic wheel measurement laser
A1831004	Qcut 600 A laser alignment aid
A1831007	Qcut 600 A centrifugal separator 400V/50Hz (3Ph/PE)
A1831009	Qcut 600 A centrifugal separator 480V/60Hz (3Ph/PE)

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ORDERING INFORMATION

PRECISION CLAMPING DEVICES

Z1870063	Reduction ring Ø 30 mm
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Z1870069	Manual chuck Ø 44 mm
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QTOOL 80

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

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

POWER CLAMPING SYSTEMS

POWER CLAMPING SYSTEM 100-540

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

POWER CLAMPING SYSTEM LC 90

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

CLAMPING ACCESSORIES FOR ROTATING, SWIVELING AND SPECIAL APPLICATIONS

Z1304636	Expansion clamping device
Z1340000	Cross vice 80 - 100
Z1340001	Cross vice 80 - 150

ANGLE AND ROTATING VICES

Z1304001	Angle vice 60
01304008	Prism jaw angle vice 60
Z1302000	Angle vice 80
01302016	Prism jaw angle vice 80

ROTATING DEVICES

Z1870059	Rotation device type RD1
Z1891001	Rotation device type RD2.1

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ORDERING INFORMATION

UNIVERSAL VICES AND ACCESSORIES

Z1350025	Clamping rail
01350022	Prism 120°
01350023	Prism slim
01350024	Prism 90°
01350025	Prism 90° high
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

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