



РЕЖУЩИЙ РОБОТ

QCUT 600 BOT

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

QCUT 600 BOT

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Cutting in 5 dimensions – the Qcut 600 BOT is a fully automatic cut-off robot. Equipped with patented cutting-edge technology, it opens up new possibilities in the cutting process for materialographic sample preparation.

ПРЕИМУЩЕСТВА ОБОРУДОВАНИЯ

- | **Patented technology:** Complex cutting sequences can be performed using 5-axis technology (X, Y, Z, B, C axes) without time-consuming re-clamping of the workpiece.
- | **Highest degree of automation:** Dynamic cut-off wheel measurement and automatic adjustment of cutting parameters. Multiple cuts on different workpieces can be made in one process.
- | **High reproducibility:** Repeatable cutting operations are easy to program and perform.
- | **Multi-Position Process (MPP):** Simultaneous positioning and automatic cutting of different components on the machine table.



THE ADVANTAGE OF AUTOMATION

All necessary cut-offs can be performed sequentially and automatically – even with large workpieces.

QCUT 600 BOT

SUPERIORITY IN DETAIL

1 | ERGONOMIC CONTROL PANEL

- | Large 12.1" industrial touchscreen with intuitive QATM software
- | Quick setup, control of all axes with two joysticks
- | 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 ROUND MACHINE TABLE

- | Stainless steel with integrated longitudinal and cross T-slots
- | Secure clamping using the T-slot table or Easy clamping system
- | Ø 600 mm; load capacity: up to 150 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
- | Large side door for easy wheel replacement
- | Break-resistant LED interior lighting

5 | OPTIMIZED SWIVEL ARM

- | Highly efficient cooling system
- | Increased capacity thanks to parallel guided cut-off wheel guard
- | Laser alignment aid for positioning (option)

6 | ROTATION AXIS, B-AXIS

- | Rotation range 360°, with combined C-axis 200°
- | Positioning accuracy: $\pm 0.1^\circ$

7 | OPTIONAL ROTATION AXIS, C-AXIS

- | Rotation range: max. 360°
- | Removable modular rotation axis
- | Expandable clamping with a lathe chuck or other devices



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IN 5 DIMENSIONS, SECTIONING THE SMALL FROM THE LARGE

With the patented 5-axis technology, workpieces can be cut at any angle precisely, repeatably, quickly, and easily. All axes are finely adjustable and remain vibration-free during the cut-off process – precise work is easier than ever. The positioning capabilities of the various axes in combination with the clamping systems enable precise cutting without time-consuming re-clamping. All necessary cut-offs can be performed sequentially and automatically – even with large workpieces.

1 | Y-AXIS (CHOP CUT)

Cutting range: 360 mm, automatic
Rapid traverse up to 80 mm/s.

2 | Z-AXIS (CROSS FEED)

Travel: 550 mm, automatic
Cross feed for precise parallel cuts in series

3 | B-AXIS (ROTATION)

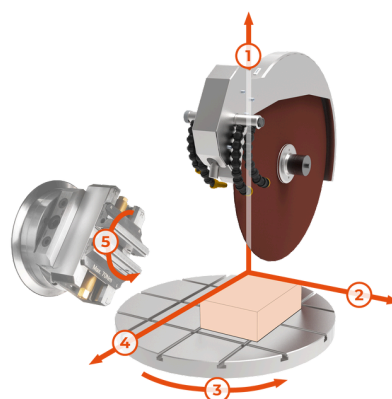
Max. 360°; with C-axis 200°, automatic
Positioning accuracy: $\pm 0.1^\circ$

4 | X-AXIS (TRAVEL CUT)

Cutting range: 550 mm, automatic
Rapid traverse up to 80 mm/s.

5 | C-AXIS (ROTATION)

Rotation range: max. 360°, automatic
Removable modular rotation axis



СВОБОДНАЯ ДОСТУПНОСТЬ

ДЛЯ БОЛЬШИХ ЗАГОТОВОК

Крупные компоненты можно размещать непосредственно с помощью вилочного погрузчика или крана через широкую раздвижную дверь.



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ОСОБЕННОСТИ

**STAINLESS STEEL ROTARY TABLE**

Spacious rotary table (Ø 600 mm) enables precise work even under heavy loads.

- | Rotation (max. 360°) eliminates time-consuming re-clamping
- | Expandable with a modular rotation axis (C-axis)
- | Integrated T-slots for the Easy clamping system

**AUTOMATIC CUT-OFF WHEEL MEASUREMENT**

Dynamic measurement leads to reproducible results with consistent quality.

- | Automatic monitoring of current wheel diameter
- | Adjustment of cutting parameters after each cut
- | Consistent cutting speed and cutting depth

**ROBUST MACHINE WITH LARGE CUTTING CHAMBER**

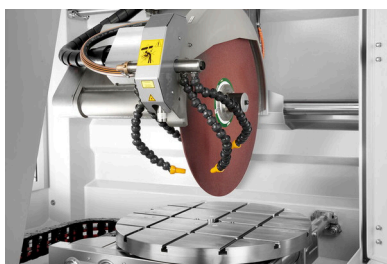
- | Powder-coated steel body, large sliding door of scratch-resistant laminated safety glass and large side door
- | Integrable cooling unit and automatic central lubrication
- | Safety interlock prevents door opening during operation
- | Large side door for easy wheel replacement

**CUTTING OPTIMIZATION**

- | Automatic detection of local material characteristics, such as hardened areas
- | Cutting force-dependent feed control
- | Cut detection: automatic approach at reduced speed
- | Parallel-guided wheel guard increases capacity in chop cuts

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ОСОБЕННОСТИ И УПРАВЛЕНИЕ



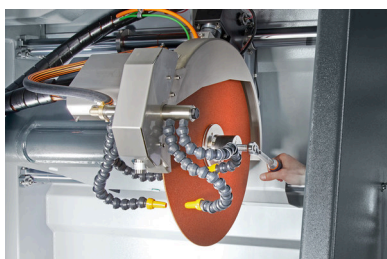
POWERFUL CUT-OFF WHEEL DRIVE

- | Precise swivel arm guidance and wheel cooling
- | Water-cooled main drive with 15 kW drive power
- | Flexibly adjustable cooling hoses
- | Parallel-guided guard increases capacity for cross cuts



INTUITIVE AND EASY OPERATION

- | 12.1" touchscreen with QATM software, joysticks and emergency stop switch
- | Teach function for programming cutting positions by manually positioning the machine
- | Multi-Position Process (MPP) for different workpieces without re-clamping



CLEVER DESIGN

- | Easy wheel replacement and simple clamping
- | Laser alignment for workpiece positioning (option)
- | Power clamping nut for easy clamping and loosening of the wheel



MAXIMUM EASE OF USE

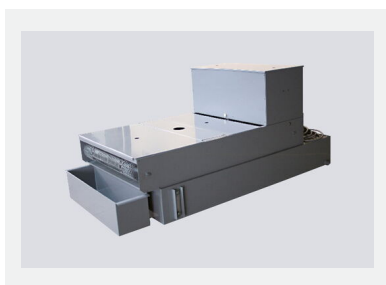
- | Movable panel for ergonomic operation during setup and use
- | Programming in close proximity to the workpiece
- | Control panel moves aside during series operation

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АКСЕССУАРЫ

**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 environment with improved air quality
- | Removes coolant mist; purifies air and increases visibility
- | Exhaust power 452 or 500 m³/h depending on voltage

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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.

QTOOL SERIES → qatm.com/ru/products/cutting/clamping-tools/qtool-series/

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РАСХОДНЫЕ МАТЕРИАЛЫ ДЛЯ РЕЗКИ

PERFECT CUTTING – CUT-OFF WHEELS FROM QATM

Резка более надежна, безопасна и эффективна, если для ее обработки используются правильные ингредиенты: знания, забота и правильный выбор расходных материалов и инструментов.

К КАТАЛОГУ → qatm.com/ru/products/consumables/cutting/



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ПОЗИЦИОНИРОВАНИЕ ЗАГОТОВОК

The rotation axes, stainless-steel machine table and clamping devices offer flexibility when positioning workpieces for successive automatic cuts.

- | Clamping tools for special applications
- | Expandable clamping with a lathe chuck or other devices
- | Positioning with optional laser alignment aid

CLAMPING TOOLS → qatm.com/ru/products/cutting/clamping-tools/clamping-tools-for-special-applications/



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ХАРАКТЕРИСТИКИ

Рабочий диск	до Ø 610 мм / 24"
Максимальная глубина среза отрезного диска	244 мм (режущий круг Ø 610 мм)
Размер фланца крепления диска	Ø 32 / 40 мм
Перемещение по оси X автоматическое	550 мм
Перемещение по оси Y автоматическое	360 мм
Движение по Z-оси автоматическое	550 мм
Точность	± 0,1 мм / ± 0,1°
В-ось	4 оси: 360° 5 осей: 200°
С-ось	4 оси: – 5 осей: 360°
Стол	Ø 600 мм, нержавеющая
Т-образный паз	12 мм
Скорость	переменная 1000 - 2400 об/мин
Мощность привода (основной привод)	15 кВт, S1
Потребляемая мощность	30 кВА
Габариты ШхВхГл	1640 x 2200 x 1480 мм
Вес	~ 1600 кг в зависимости от комплектации прибора



Q CUT 600 BOT

ДАННЫЕ ЗАКАЗА

БАЗОВОЕ ОБОРУДОВАНИЕ

МАШИНА (ОБЯЗАТЕЛЬНЫЕ ЭЛЕМЕНТЫ)

M1831001	Qcut 600 BOT (4-axis) base machine 400V 50Hz (3Ph/N/PE)
M1831003	Qcut 600 BOT (5-axis) base machine 400V 50Hz (3Ph/N/PE)
M1831002	Qcut 600 BOT (4-axis) base machine 480V 60Hz (3Ph/PE)
M1831004	Qcut 600 BOT (5-axis) base machine 480V 60Hz (3Ph/PE)

ЗАЩИТНЫЙ КОЖУХ ДЛЯ ДИСКА (НЕОБХОДИМ - 1 ШТ.)

A1831001	Wheel guard 500mm
A1831010	Wheel guard 600mm

СИСТЕМА РЕЦИРКУЛЯЦИИ (НЕОБХОДИМА - 1 ШТ.)

A1831005	Recirculation cooling system 400V 50Hz (3Ph/PE)
A1831006	Recirculation cooling system 480V 60Hz (3Ph/PE)
A6501000	Belt filter 285 400V 50Hz (3Ph/PE)
A6501002	Belt filter 285 480V 60Hz (3Ph/PE)
Z6501007	Комплект подключения ленточной системы фильтрации 285

ОПЦИИ (ЗАКАЗЫВАЮТСЯ С МАШИНОЙ)

A1831004	Laser alignment aid
A1831007	Centrifugal separator 400V 50Hz (3Ph/PE)
A1831009	Centrifugal separator 480V 60Hz (3Ph/PE)

PRECISION CLAMPING DEVICES

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

QTOOL 80

Z2231203	Qtool 80 - 100mm
Z2231204	Qtool 80 - 150mm
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
Z2231201	Qtool 80 Vario - 150 mm
Z2231202	Qtool 80 Vario - 250 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

PRECISION CLAMPING DEVICES

ДАННЫЕ ЗАКАЗА

QTOOL 80 VARIO (CONTINUED)

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

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	Поперечные тиски 80/100
Z1340001	Поперечные тиски 80/150

УГЛОВЫЕ И ПОВОРОТНЫЕ ТИСКИ

Z1304001	Угловые тиски 60
01304008	Щека V-образная для угловых тисков 60
Z1302000	Угловые тиски 80
01302016	Щека V-образная для угловых тисков 80

ROTATING DEVICES

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

УНИВЕРСАЛЬНЫЕ ТИСКИ И АКСЕССУАРЫ

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

УНИВЕРСАЛЬНЫЕ ТИСКИ И АКСЕССУАРЫ

ДАННЫЕ ЗАКАЗА

Z1350002	Универсальный зажим Mono 61
Z1350004	Комплект Mono 61 в чемоданчике
Z1350011	Зажим универсальный Mono 132
Z1350005	Универсальные тиски Duo
Z1350006	Универсальный цепной зажим
92005796	Пятка V-образная продольная, для Mono/Piccolo
92005797	Пятка V-образная поперечная, для Mono/Piccolo
92005799	Пятка продольная, для Mono/Piccolo
92005800	Пятка поперечная, для Mono/Piccolo
92005798	Пятка стандартная, для Mono/Piccolo
Z1350007	Адаптер высоты Piccolo, 60мм
Z1350003	Адаптер высоты Mono, 74мм
95003172	Удлиннитель рычага для Piccolo 54 и Mono 61
Z1304591	Фиксирующий болт M6 x 25 мм для универсальных зажимов
95003169	Fixing screw Piccolo M8 x 25
95003170	Fixing screw Piccolo M10 x 25
95003168	Fixing screw Mono M10 x 32
91001157	Т-гайка, M6 x 8, нержавеющая сталь
91001161	Т-гайка, M8 x 10, нержавеющая сталь
91001159	Т-гайка, M8 x 12, нержавеющая сталь
91001158	Т-гайка, M10 x 12, нержавеющая сталь

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СВЯЖИТЕСЬ С НАМИ →

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ЗАПРОС ПРЕДЛОЖЕНИЯ →

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