



切断機

QCUT 600 A

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.

- | 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

### 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

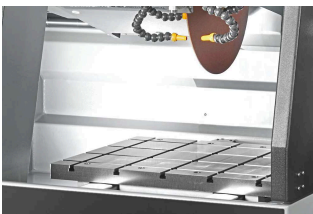
### 5. Optimized swivel arm

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



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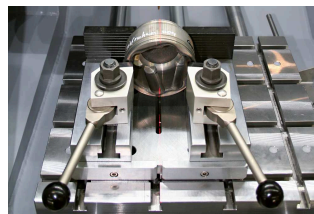
特長



**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 400 kg (including clamping devices)



**LASER ALIGNMENT**

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

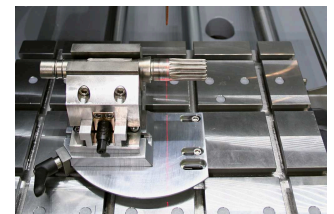
- | Easy positioning of workpieces
- | Precise clamping without much effort



**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.

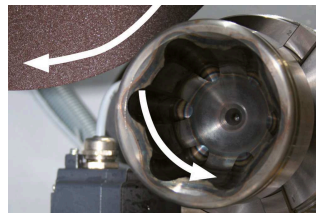
- | Machine body with integrable recirculating cooling unit and automatic central lubrication
- | Large cutting chamber access with safety interlock —



**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.

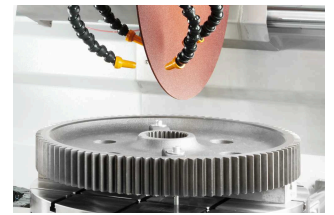
- | More uniform cutting surfaces and cutting quality
- | Cutting time is halved for rotationally symmetrical parts
- | Protects against cut-off wheel run-out



### INTUITIVE AND EASY OPERATION

Large 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

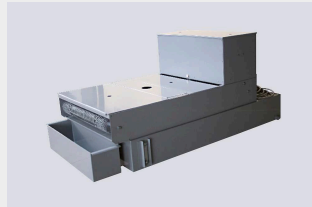
## 切断機 QCUT 600 A アクセサリー



循環冷却ユニット

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 m<sup>3</sup>/h depending on voltage

### パーフェクトカット - QPREPの消耗品

加工要件（知識、慎重な加工、消耗品と機器の正しい選択）を充足することで、信頼性、安全性、効率性の高い切断が実現します。The Qprep range includes specially developed cut-off wheels for a wide variety of materials and requirements.

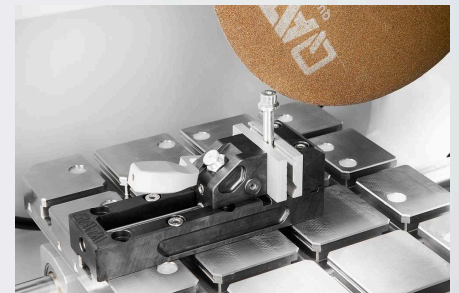
- | Low thermal influence on the specimen during the cutting process
- | Wet abrasive cutting achieves very fine surface finishes after cutting
- | Optimal cutting shortens the further preparation process



### 高速、パワフル、フレキシブル - QTOOLSのクランプ装置

当社の革新的なクランプ装置は、ワークを確実にかつ正確にクランプし、正確な切断・研磨加工を実現します。特定の用途やワークサイズに合わせて開発された様々なクランプ装置があります。

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



## 切断機 QCUT 600 A

### 製品仕様




切断ホイール径	最大 $\phi$ 600mm/24"
最大切断容量	$\phi$ 244mm
送り速度	0.001 - 50 mm/sec
切断ホイールの最大切断深さ	190mm ( $\phi$ 500mm切断ホイール使用時)
切断砥石のフランジ	$\phi$ 32/40mm
自動X-軸	550mm
自動Y-軸	360mm
自動Z-軸	550mm
Z- 軸移動	0.1mm
テーブル WxD	750x600mm?ステンレス
T-スロット	12 mm
回転速度	1000~2400rpm 可変
駆動電力 (メイン駆動)	15 kW S1
接続ロード	30 KVA
WxHxD	1488x1960x1477mm
重量	~1600kg (装置による)

[www.qatm.com/qcut-600-a](http://www.qatm.com/qcut-600-a)

## 注文データ

### ベース機械

#### 機械 (すべて必要なアイテム)

M1831000  Qカット 600 A (ブリラント 285) ベース機械

#### 電源 (1アイテム選択)

A1831000 Qカット 600 A 電源 400V/50Hz (3Ph/N/PE)


A1831002 Qカット 600 A 電源 480V/60Hz (3Ph/PE)

#### ホイール?ガード (1アイテム選択)


A1831001 Qカット 600 A ホイール?ガード 500mm


A1831010 Qカット 600 A ホイール?ガード 600mm

#### 循環冷却システム (1アイテム選択)

A1831005  Qカット 600 A 循環冷却システム 400V/50Hz (3Ph/PE)

A1831006 Qカット 600 A 循環冷却システム 480V/60Hz (3Ph/PE)


A6501000  ベルト?フィルター 285 400V/50Hz (3Ph/PE)

A6501002  ベルト?フィルター 285 480V/60Hz (3Ph/PE)

Z6501007 ベルト?フィルター 285 接続セット

### オプション (機械と共に選択)

A1831003 Qカット 600 A 自動ホイール測定レーザー

A1831004  Qカット 600 A レーザー指標

A1831007 Qカット 600 A 遠心分離器(除湿器) 400V/50Hz (3Ph/PE)

A1831009 Qカット 600 A 遠心分離器(除湿器) 480V/60Hz (3Ph/PE)

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

Z1870063	リダクション?リング Ø30mm, Clamping_devices, Precision_clamping_devices
Z1870069	マニュアル?チャック Ø44mm, 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	サンプル?ストップ, 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	プリズム?ジョー 40mm, Clamping_devices, Qtool_series
02231229	面取りジョー 40mm, Clamping_devices, Qtool_series
02231230	クロス?プリズム?ジョー 40mm, 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

## イージー?クランピング?プレート, 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
Z1340000	 クロス?バイス 80-100, Clamping_devices, Clamping_accessories_specials
Z1340001	クロス?バイス 80-150, Clamping_devices, Clamping_accessories_specials




### 角度?回転バイス, CLAMPING\_DEVICES, CLAMPING\_ACCESSORIES\_SPECIALS

Z1304001	アングル?バース 60, Clamping_devices, Clamping_accessories_specials
01304008	プリズム?ジョー アングル?バース 60, Clamping_devices, Clamping_accessories_specials
Z1302000	アングル?バース 80, Clamping_devices, Clamping_accessories_specials
01302016	プリズム?ジョー アングル?バース 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

## 汎用バースとアクセサリ, 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	 ユニバーサル?バース モノ 61, Clamping_devices, Universal_vices_and_accessories
Z1350004	 ユニバーサル?バース モノ 61 ツールケース?セット, Clamping_devices, Universal_vices_and_accessories
Z1350011	 ユニバーサル?バース モノ 132, Clamping_devices, Universal_vices_and_accessories
Z1350005	ユニバーサル?バース デュオ, Clamping_devices, Universal_vices_and_accessories
Z1350006	チェーン?バース?セット, Clamping_devices, Universal_vices_and_accessories
92005796	縦押さえVシュー, Clamping_devices, Universal_vices_and_accessories
92005797	横長Vシュー, Clamping_devices, Universal_vices_and_accessories
92005799	縦長ブリッジ, Clamping_devices, Universal_vices_and_accessories
92005800	横長ブリッジ, Clamping_devices, Universal_vices_and_accessories
92005798	標準クランプ?シュー, Clamping_devices, Universal_vices_and_accessories
Z1350007	ピッコロ高さアダプター 60mm, Clamping_devices, Universal_vices_and_accessories

Z1350003	モノ高さアダプター 74mm, Clamping_devices, Universal_vices_and_accessories
95003172	ピッコロ54/モノ61 延長クランピングアーム, Clamping_devices, Universal_vices_and_accessories
Z1304591	フィクシングスクリュー M6x25, Clamping_devices, Universal_vices_and_accessories
95003169	フィクシングスクリュー ピッコロ M8x25, Clamping_devices, Universal_vices_and_accessories
95003170	フィクシングスクリュー ピッコロ M10x25, Clamping_devices, Universal_vices_and_accessories
95003168	フィクシングスクリュー モノ M10x32, Clamping_devices, Universal_vices_and_accessories
91001157	Tスロットナット ステンレス M6x8, Clamping_devices, Universal_vices_and_accessories
91001161	Tスロットナット ステンレス M8x10, Clamping_devices, Universal_vices_and_accessories
91001159	Tスロットナット ステンレス M8x12, Clamping_devices, Universal_vices_and_accessories
91001158	Tスロットナット ステンレス M10x12, Clamping_devices, Universal_vices_and_accessories