



切断機

QCUT 500 A

www.qatm.com/jp/products/cutting/large-cut-off-machines/qcut-500-a/

QCUT 500 A

切断機

The Qcut 500 A is the powerhouse of the large cut-off machine family. Equipped with a highly dynamic axis drive and automatic traverse cut/chop cut functions, the system cuts large components with exceptional precision, minimal contact, and outstanding speed.

長所

- | **Fast, powerful cuts:** The highly dynamic axis drive allows rapid traverses of up to 80 mm/s and greatly reduces cutting time
- | **Versatile applications:** Cutting of particularly long samples is easily possible thanks to side openings on both sides
- | **Multi-Position Process (MPP):** Simultaneous positioning and automatic cutting of different components on the machine table



長所

- | | |
|---|--------------------------------|
| Highly dynamic axis drive | Side openings for long samples |
| Automatic traverse cut/chop cut functions | Multi-Position Process (MPP) |

QCUT 500 A

SUPERIORITY IN DETAIL

1 | ERGONOMIC CONTROL PANEL

- | Large 12.1" industrial touchscreen with intuitive QATM software
- | Quick setup, control of all axes with joystick

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: 550 x 500 mm (with Z-axis W x D), 700 x 500 mm (without Z-axis W x D)
- | Load capacity: up to 400 kg
- | Travel X: 345 mm, Y: 200 mm, Z: 150 mm

2 | ROBUST MACHINE BODY

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

4 | LARGE CUTTING CHAMBER

- | Large sliding door provides easy access and visibility
- | Side swing door for convenient access to cutting chamber
- | Side openings on the right and left 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 (option)



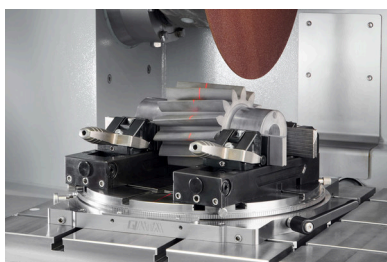
QCUT 500 A

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 120 kg (including clamping devices)



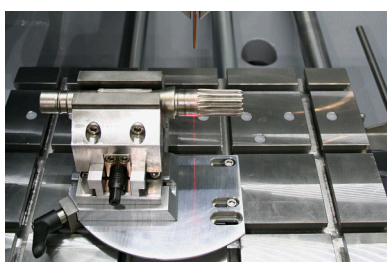
LASER ALIGNMENT

- | 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 — doors open only when cut-off wheel is stationary
- | Side openings on the right and left for long samples

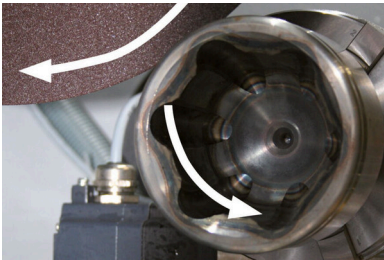


PRECISION CROSS FEED

- | 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

QCUT 500 A

特長 / 続き

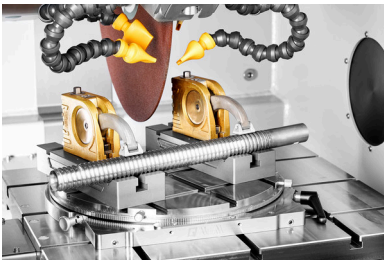
**ROTATION TOOL**

- | 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

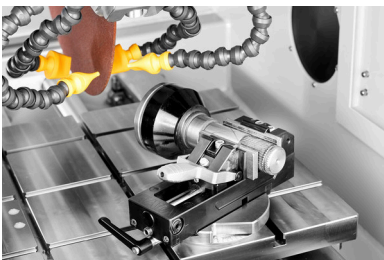
**INTUITIVE AND EASY OPERATION**

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

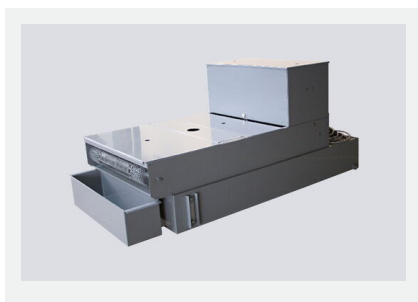
QCUT 500 A

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 m³/h depending on voltage

QCUT 500 A

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。

QTOOLシリーズ→

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

クランプアクセサリ→

qatm.com/jp/products/cutting/clamping-tools/clamping-tools-for-special-applications/



QCUT 500 A

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。

製品ラインナップ→

qatm.com/jp/products/consumables/cutting/



QCUT 500 A

製品仕様

切断ホイール径	Ø 508 mm/20インチまで
最大切断容量	Ø 190mm
切断砥石のフランジ	Ø 32/40mm
自動X-軸	420mm
自動Y-軸	280mm
自動Z-軸 (オプション)	200mm
Z- 軸移動	0.1mm
テーブル Z-軸 WxD付	550x500mm、ステンレス
テーブル Z-軸 WxDなし	700x500mm、ステンレス
T-スロット	12 mm
回転速度	1000~2800 / 1000~2400rpm 可変
接続ロード	30 KVA
駆動電力 (メイン駆動)	15 kW (SI節電設定で運転時)
WxHxD	1300x1820x1250mm
重量	~1000kg (装置による)



QCUT 500 A

注文データ

BASIC EQUIPMENT

MACHINE (ALL ITEMS REQUIRED)

M1832000	Qcut 500 A (Brillant 275) Base machine
----------	--

POWER SUPPLY (1 ITEM REQUIRED)

A1832000	Qcut 500 A power supply 400V/50Hz (3Ph/N/PE)
----------	--

A1832002	Qcut 500 A power supply 480V/60Hz (3Ph/PE)
----------	--

WHEEL GUARD (1 ITEM REQUIRED)

A1832001	Qcut 500 A wheel guard 432mm 17"
----------	----------------------------------

A1832010	Qcut 500 A wheel guard 508mm 20"
----------	----------------------------------

CROSS FEED (1 ITEM REQUIRED)

A1832008	Qcut 500 A table with X-axis
----------	------------------------------

A1832011	Qcut 500 A table with X/Z-axis
----------	--------------------------------

RECIRCULATION SYSTEM (1 ITEM REQUIRED)

A1832005	Qcut 500 A recirculation system 400V/50Hz (3Ph/PE)
----------	--

A1832006	Qcut 500 A recirculation system 480V/60Hz (3Ph/PE)
----------	--

A6501000	Belt filter 285 400V/50Hz (3Ph/PE)
----------	------------------------------------

A6501002	Belt filter 285 480V/60Hz (3Ph/PE)
----------	------------------------------------

Z6501000	Connection set belt filter 285
----------	--------------------------------

OPTIONS (TO BE ORDERED WITH MACHINE)

A1832004	Qcut 500 A laser alignment aid
----------	--------------------------------

A1832007	Qcut 500 A centrifugal separator 400V 50Hz (3Ph/PE)
----------	---

A1832009	Qcut 500 A 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
----------	-----------------------------------

QCUT 500 A

注文データ / 続き

PRECISION CLAMPING DEVICES

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
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	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

QCUT 500 A

注文データ / 続き

ROTATIG 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
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

QCUT 500 A

お問い合わせ →

qatm.com/jp/contact/contact-form/?prefilltext=contact_form.request&product=A01A09A

見積依頼 →

qatm.com/jp/products/cutting/large-cut-off-machines/qcut-500-a/order-data/



QATM
a **VERDER** company

www.qatm.com/jp/products/cutting/large-cut-off-machines/qcut-500-a/

© QATM – www.qatm.com / Content may be subject to modifications or corrections