



切断機

QCUT 500 A

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

- | 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



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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 axes with joystick

2. Robust machine body

- | Sturdy powder-coated aluminum 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

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



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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 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.

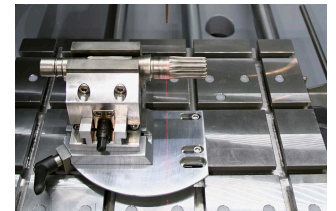
- | Easy positioning of workpieces
- | Precise clamping without much effort



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.

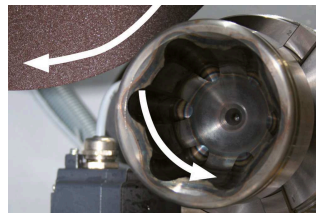
- | Machine body with integrable recirculating cooling unit and automatic central lubrication
- | Large cutting chamber access with safety interlock — doors open only



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.

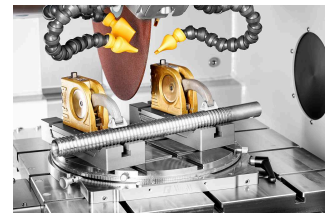
- | More uniform cutting surfaces and cutting quality
- | Cutting time is halved for rotationally symmetrical parts
- | Protects against cut-off wheel run-out



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

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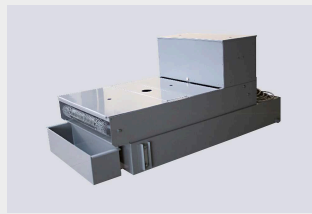
アクセサリー



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

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



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製品仕様



特長

切断ホイール径	最大 ϕ 508mm/20"
最大切断容量	ϕ 190mm
送り速度	0.001 - 50 mm/sec
切断砥石のフランジ	ϕ 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 (S1節電設定で運転時)

WxHxD	1300x1820x1250mm
重量	~1000kg (装置による)

www.qatm.com/qcut-500-a

注文データ

ベース機械

機械 (すべて必要なアイテム)

M1832000  Qカット 500 A (ブリラント 275) ベース機械

電源 (1アイテム選択)

A1832000 Qカット 500 A 電源 400V/50Hz (3Ph/N/PE)

A1832002 Qカット 500 A 電源 480V/60Hz (3Ph/PE)

ホイール?ガード (1アイテム選択)

A1832001 Qカット 500 A ホイール?ガード 432mm 17"

A1832010 Qカット 500 A ホイール?ガード 508mm 20"

クロス?フィード (1アイテム選択)

A1832008 Qカット 500 A X-軸テーブル


A1832011 Qカット 500 A X/Z-軸テーブル

循環冷却システム (1アイテム選択)

A1832005  Qカット 500 A 循環冷却システム 400V/50Hz (3Ph/PE)

A1832006  Qカット 500 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)

Z6501000 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)

A1832004 Qカット 500 A レーザー指標

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

A1832009  Qcut 500 A centrifugal separator 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?バース 80-100, Clamping_devices, Clamping_accessories_specials



Z1340001 クロス?バース 80-150, Clamping_devices, Clamping_accessories_specials

角度?回転バース, CLAMPING_DEVICES, CLAMPING_ACCESSORIES_SPECIALS

Z1304001 アンクル?バース 60, Clamping_devices, Clamping_accessories_specials

01304008 プリズム?ジョー アンクル?バース 60, Clamping_devices,
Clamping_accessories_specials

Z1302000 アンクル?バース 80, Clamping_devices, Clamping_accessories_specials

01302016 プリズム?ジョー アンクル?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	標準クランピング?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