



PRECISIE DOORSLIJPMACHINE

## QCUT 150 A

**De Qcut 150 A is een flexibele doorslijpmachine die gebruikt wordt met slijpschijven tot diameter 203 mm/8".**

The compact benchtop model performs automatic as well as manual cuts with the ergonomic lever. The optional sample holder arm with built-in force sensor ensures low-deformation cuts due to a precise force-controlled feed rate.

## PRODUCTVOORDELEN

- | Tot 5 verschillende modi: manueel, automatische aanvoer, kracht-gecontroleerde aanvoer, slijpmodus, snijden met tafel bevestiging (afhankelijk van machine-configuratie)
- | Manuele dwarsaanvoer
- | Functie "zone-slijpen"
- | 4 verschillende koelsystemen beschikbaar
- | Slijpsteen-aftrekker
- | Intuïtieve QATM software met geïntegreerde databank

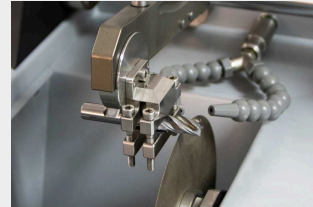


[Klik om video te bekijken](#)

DIT INSTRUMENT IS IDEEAAL  
VOOR GEOLOGISCHE EN  
MINERALOGISCHE  
TOEPASSINGEN

PRECISIE DOORSLIJPMACHINE QCUT 150 A

**KENMERKEN**



**KRACHT-GESTUURD  
DOORSLIJPEN**

- | Integrated force sensor in the sample holder arm precisely regulates the feed rate via the set cutting force
- | Constant cutting force throughout the process for clean cutting even of edge-hardened components and composite materials

**TAFEL BEVESTIGING**

- | Table attachment can be mounted without tools
- | Quick and manual sectioning of large samples, PCBs, or plate material

**NIEUW: ZONE-SLIJPEN**

- | Individual adjustment of feed rate or cutting force for single sections of the sample
- | Reduced material deformation and heating
- | Accelerated cutting process

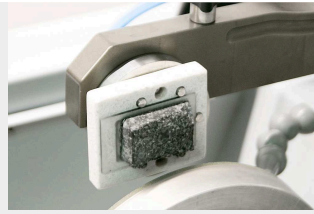
**ALL PARAMETERS AT  
A GLANCE**

- | Robust 4.3" industrial touchscreen
- | Intuitive software with modern interface displaying all important cutting parameters
- | Extensive program storage and user account control



### **SLIJP-MODUS**

- | Target preparation: In grinding mode, samples can be ground manually or semi-automatically using a cup wheel
- | Ideal for thin sections and microelectronics

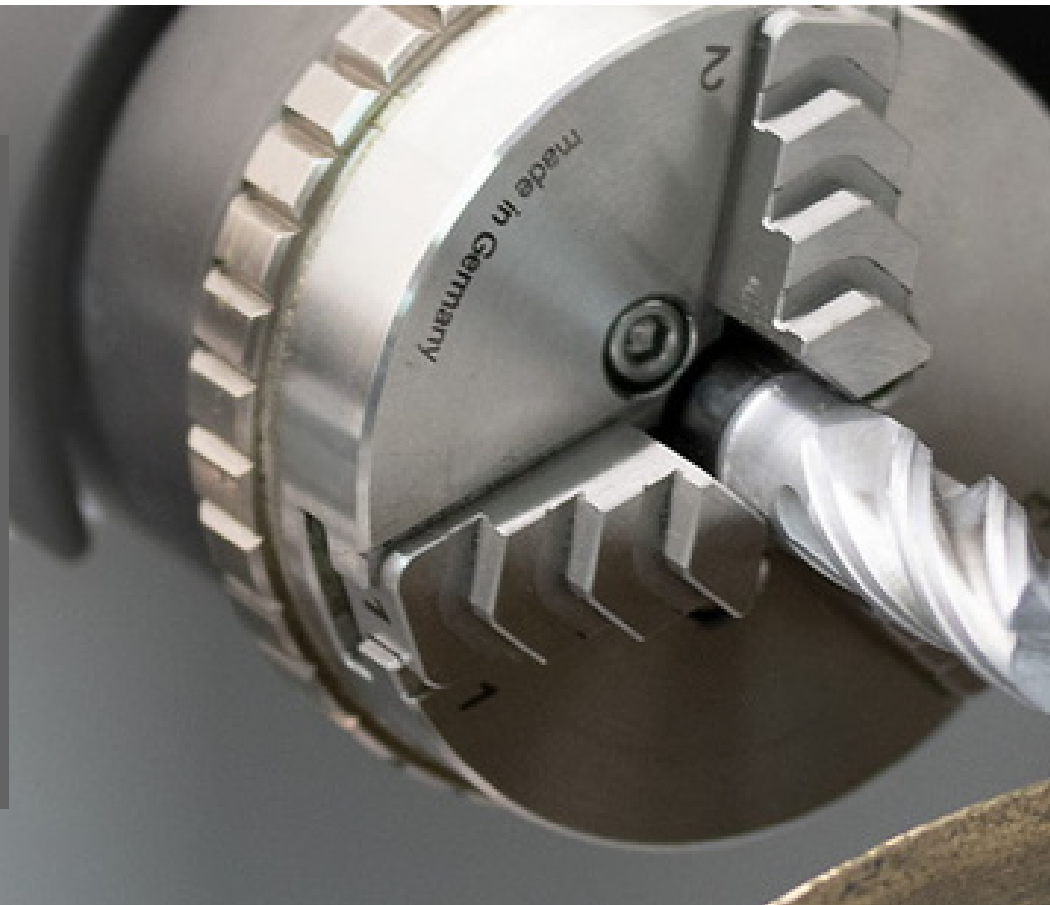


### **VACUUM CLAMPING UNIT**

- | Glass slides for thin sections can be fixed easily and without slipping

## REDUCES SUBSEQUENT GRINDING PROCESSES

The use of the adaptive rotation axis leads to an even more uniform cutting pattern and reduces the risk of the cut-off wheel runout. This reduces the effort required for later plane-parallel grinding of the sample.



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## SUPERIORITY IN DETAIL

### 1. Sample holder arm

- | Tool-free quick-clamping system for mounting :
- | Precision clamping devices
- | Rotation device
- | Vacuum clamping unit
- | Max. sample size:  $\emptyset$

### 5. Transparent hood

- | Swivel hood with free access to the cutting chamber
- | Integrated safety switch

### 6. Z-axis

- | Manual cross feed

40 mm

## 2. Y-axis

- | Manual or automatic feed
- | Travel: 120 mm
- | Feed rate: 0.01–20 mm/s (automatic)
- | Cutting force variably adjustable: 0–10 N (optional)

## 3. Dressing device

- | For sharpening diamond cutting and grinding wheels
- | Can be operated manually from the outside

## 4. Robust machine body

- | Sturdy and corrosion-resistant stainless steel housing
- | Powder-coated, for easier cleaning

- | Travel: 25 mm
- | Position shown on the display
- | Positioning accuracy: 0.005 mm

## 7. Cut-off Wheel drive

- | Cut-off wheel size: Ø 75–203 mm / 8"
- | Drive power: 0.37 kW (SI)

## 8. Ergonomic Control panel

- | 4.3" industrial touchscreen
- | Intuitive interface displaying process data
- | Storage of up to 200 user-defined cutting methods
- | User account management





**UITGEBREIDE REEKS  
KLEMHULPSTUKKEN**

With the help of a suitable clamping tool from the extensive range of accessories, mounted or non-mounted samples up to a size of  $\varnothing$  40 mm can be clamped in the cut-off machine comfortably

OPTIMAL ACCESSORIES FOR QCUT 150 A AND 200 A

## COOLING SYSTEMS

Optimal cooling is essential during sectioning. Excessive heat generation during the sectioning process damages the specimen and increases the wear of the cut-off wheel. The cooling and corrosion protection agent dissipates the heat and simultaneously removes the chips from the cut-off chamber.



### 15L RECIRCULATION COOLING SYSTEM

- | Portable system with filter cartridge and lid
- | Small footprint required
- | Easy to integrate into existing laboratory furniture
- | Two-chamber system for filtration



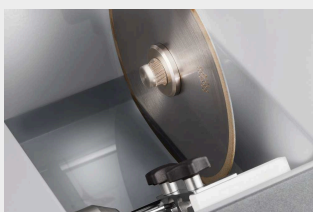
### 45L RECIRCULATION COOLING SYSTEM (MOBILE)

- | Mobile unit with inlet strainer, filter bag and overflow
- | Can be placed under a lab bench or floor-to-ceiling cabinet
- | Expandable with optional pump module for cut-off chamber flushing
- | Two-chamber system for filtration with removable separating slide



### 45L RECIRCULATION COOLING SYSTEM (SYSTEM LAB)

- | Mobile unit with retractable mechanism
- | Can be conveniently integrated into QATM system laboratory cabinets and cabinets with undershelves
- | Expandable with optional pump module for cut-off chamber flushing
- | Inlet strainer, filter bag and overflow
- | Two-chamber system for filtration with removable separating slide



### CUT-OFF WHEEL IMMERSION COOLING

- | Equipment to seal and fill cutting chamber with coolant

- | Incl. drain hose and shut-off valve for easy emptying
- | Sample collector

### 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. 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



### PRECISION CLAMPING DEVICES

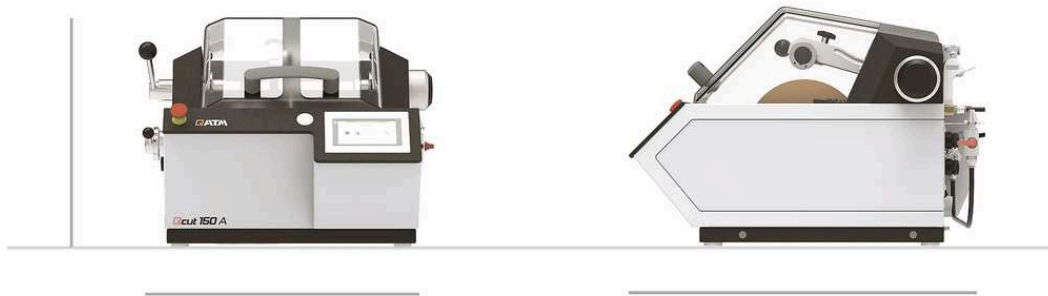
The Precision Series from QATM offers versatile clamping for both regular and irregularly shaped samples, designed for the most demanding and precise materialographic applications.

- | Handles Irregular and Complex Geometries
- | Varied and Versatile Product Range
- | Works with Rotating Device Integration (Qcut 150 A)
- | Horizontal and Vertical Adaptation Available



PRECISIE DOORSLIJPMACHINE QCUT 150 A

**TECHNISCHE GEGEVENS**




<b>Slijpschijf</b>	ø 75 - 203 mm/8"
<b>Variabel toerental</b>	150 - 3000 tpm
<b>Max. monstergrootte</b>	ø 40 mm
<b>Schijfruimte</b>	ø 12.7 mm
<b>Variabel aanpasbare snij-kracht</b>	0 - 10 N
<b>Aanvoer</b>	0,01 - 20 mm/s (automatisch)
<b>Y-as (verticale beweging)</b>	120 mm (manueel /automatisch)
<b>Precision Y-axis</b>	0.1 mm
<b>Z-as manueel (parallel snede)</b>	25 mm (manueel)
<b>Precisie Z-as</b>	0.005 mm
<b>Motor vermogen</b>	0.37 kW (S1)
<b>Aansluitvermogen</b>	0.75 kVA
<b>B x H x D</b>	545 x 391 x 566 mm
<b>Gewicht</b>	~ 45 kg (afhankelijk van uitvoering)


[www.qatm.com/qcut-150-a](http://www.qatm.com/qcut-150-a)

## BESTELGEGEVENS

### BASIS UITRUSTING

#### MACHINE (1 ITEM NOODZAKELIJK)

M1870020  Qcut 150 A (Brillant 210 A) Base machine 200-240V, 50/60Hz

M1870021  Qcut 150 A (Brillant 210 A) Base machine 100-120V, 50/60Hz

#### RECIRCULATION SYSTEM (1 ITEM REQUIRED)

A1870022 Qcut 150 A cutting wheel immersion cooling

A1870023 Qcut 150 A recirculation cooling system 15 Ltr.

A1870024 Qcut 150 A recirculation cooling system 45 Ltr., mobile

A1870025 Qcut 150 A recirculation cooling system 45 Ltr., for system lab

A1870026 Fresh water cooling system

### OPTIONS (TO BE ORDERED WITH MACHINE)

A1870027 Dressing device

A1870028 Qcut 150 A preparation rotation device

### OPTIES (KUNNEN AFZONDERLIJK BESTELD WORDEN)

Z1870031 Sample holder arm L standard

Z1870033 Sample holder arm L incl. cutting-force control

Z1870059 Rotation device type RD1

Z1870020 Table attachment

Z1870021 Qcut 150 A splash guard large angled

Z1870023 Parallel cutting guide

Z1870024 Angle cutting guide

Z1870022 Cutting guide fixed 90°

Z1870050 Flange set Ø 59 mm

Z1870051 Flange set Ø 99 mm

Z1870052	Flange set Ø 139 mm
Z1870035	Sample holder L standard Ø 40 mm open, Clamping_devices, Precision_clamping_devices
Z1870037	Sample holder L standard Ø 40 mm closed, Clamping_devices, Precision_clamping_devices
Z1870039	Sample holder L Flex Ø 40 mm, Clamping_devices, Precision_clamping_devices
Z1870043	Sample holder L parallel clamping vice open, Clamping_devices, Precision_clamping_devices
Z1870041	Sample holder L parallel clamping vice closed, Clamping_devices, Precision_clamping_devices
Z1870045	Drop shape sample holder L Ø 40 mm, Clamping_devices, Precision_clamping_devices
Z1870047	Universal clamping vice L, Clamping_devices, Precision_clamping_devices
Z1870049	Matrix clamping vice L, Clamping_devices, Precision_clamping_devices
Z1870054	Mini vice L, Clamping_devices, Precision_clamping_devices
Z1870056	Double parallel vice L, Clamping_devices, Precision_clamping_devices
Z1870058	Adaptor with ball joint L, Clamping_devices, Precision_clamping_devices
Z1870064	Reduction ring Ø 25 mm, Clamping_devices, Precision_clamping_devices
Z1870063	Reduction ring Ø 30 mm, Clamping_devices, Precision_clamping_devices
Z1870071	Reduction ring Ø 40 mm, Clamping_devices, Precision_clamping_devices
Z1870067	Reduction ring 1", Clamping_devices, Precision_clamping_devices
Z1870066	Reduction ring 1 1/4", Clamping_devices, Precision_clamping_devices
Z1870065	Reduction ring 1 1/2", Clamping_devices, Precision_clamping_devices
Z1870068	Manual chuck Ø 32 mm, Clamping_devices, Precision_clamping_devices
Z1870069	Manual chuck Ø 44 mm, Clamping_devices, Precision_clamping_devices

#### VACUUM CLAMPING VICES, CLAMPING\_DEVICES, PRECISION\_CLAMPING\_DEVICES

Z1870028	Vacuum sample holder, Clamping_devices, Precision_clamping_devices
01870288	Vacuum holder (sacrificial plate), Clamping_devices, Precision_clamping_devices
Z1304600	Vacuum pump 230V/50Hz for vacuum sample holder, Clamping_devices, Precision_clamping_devices
Z1304634	Vacuum pump 110V/60Hz for vacuum sample holder, Clamping_devices, Precision_clamping_devices

## EASY-CLAMPING PLATES, CLAMPING\_DEVICES, EASY\_CLAMPING\_PLATES

## UNIVERSAL VICES AND ACCESSORIES, CLAMPING\_DEVICES, UNIVERSAL\_VICES\_AND\_ACCESSORIES

92005796	Longitudinal v-shoe, Clamping_devices, Universal_vices_and_accessories
92005797	Traverse v-shoe, Clamping_devices, Universal_vices_and_accessories
92005799	Longitudinal bridge, Clamping_devices, Universal_vices_and_accessories
92005800	Traverse bridge, Clamping_devices, Universal_vices_and_accessories
92005798	Standard clamping shoe, Clamping_devices, Universal_vices_and_accessories
Z1350007	Height adapter 60mm Piccolo, Clamping_devices, Universal_vices_and_accessories
Z1350003	Height adapter 74mm Mono, Clamping_devices, Universal_vices_and_accessories
95003172	Clamping arm extension Piccolo 54 and Mono 61, Clamping_devices, Universal_vices_and_accessories
Z1304591	Fixing screw M6 x 25, Clamping_devices, Universal_vices_and_accessories
95003169	Fixing screw Piccolo M8 x 25, Clamping_devices, Universal_vices_and_accessories
95003170	Fixing screw Piccolo M10 x 25, Clamping_devices, Universal_vices_and_accessories
95003168	Fixing screw Mono M10 x 32, Clamping_devices, Universal_vices_and_accessories
91001157	T-slot nut - stainless M6 x 8, Clamping_devices, Universal_vices_and_accessories
91001161	T-slot nut - stainless M8 x 10, Clamping_devices, Universal_vices_and_accessories
91001159	T-slot nut - stainless M8 x 12, Clamping_devices, Universal_vices_and_accessories
91001158	T-slot nut - stainless M10 x 12, Clamping_devices, Universal_vices_and_accessories