



CUT-OFF MACHINE

QCUT 250 A

The Qcut 250 A is a compact and flexible semi-automatic abrasive cut-off machine with a 254 mm / 10" cut-off wheel for workpieces or samples up to Ø 95 mm. This machine combines the benefits and speed of a manual cut-off machine with the advantages of an automatic abrasive cutter.

The semi-automatic Qcut 250 A, equipped with a hand lever and automatic lever brake, can be operated with one hand and makes vertical cuts or the positioning of the cut-off wheel easier than before. The cutting table with T-slots is made of stainless steel and can be used either with a dynamic automatic drive (allows pulsed cut) or in manual mode, operated by a hand wheel (traverse cut). Together with the well-proven QATM technology of pulsed cutting, the Qcut 250 A provides excellent cutting results even with the most difficult materials. And having an automatic X-axis allows the Care-Cut (oscillation cut) during a chop cut for large pieces.

For more complex cutting tasks, the Qcut 250 A can be equipped with an optional automatic cross table to perform serial cuts. Axes are monitored by travel measuring during set up and operation.



[Click to view video](#)

PRODUCT ADVANTAGES

- | Manual Y-axis with electromechanical lever brake
- | Care-Cut: facilitates gentle cutting

- | 7" Touch-Screen user interface with intuitive QATM user software
- | Automatic travel X-axis - manual travel via hand wheel
- | Cutting-force dependent feed control (X-axis)
- | Superior LED illumination of cutting chamber
- | Parallel setting of wheel guard during cutting sequences increases cutting capacity
- | Opening on both sides for long parts



FEATURES

FINE DYNAMIC CUT-OFF

With the manual cutting movement, the cutting force is regulated through a set of gears. The cut is thereby jerk-free and more precise. The easy-to-use lever brake fixes the cutting disc in any position.

HORIZONTAL MOVEMENT

The manual horizontal or automatic movement allows cutting long parts longitudinally and easy positioning of the sample below the cut-off wheel. In pulsed cutting mode the sample material is cut particularly gently.

INTUITIVE CONTROL SOFTWARE

The new control software with integrated, extensive maintenance menu makes the operation simple and comfortable.

AUTOMATIC CROSS FEED

The automatic Z-axis can be adjusted with 0.1 mm precision for parallel cuts.

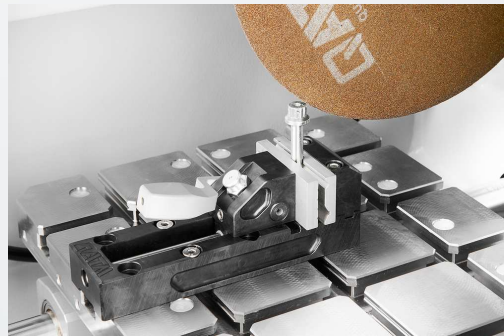
PERFECT CUTTING - CUT-OFF WHEELS FROM QATM

Cutting is more reliable, safe and efficient when processed with the right ingredients: knowledge, care and the right choice of consumables and instruments.



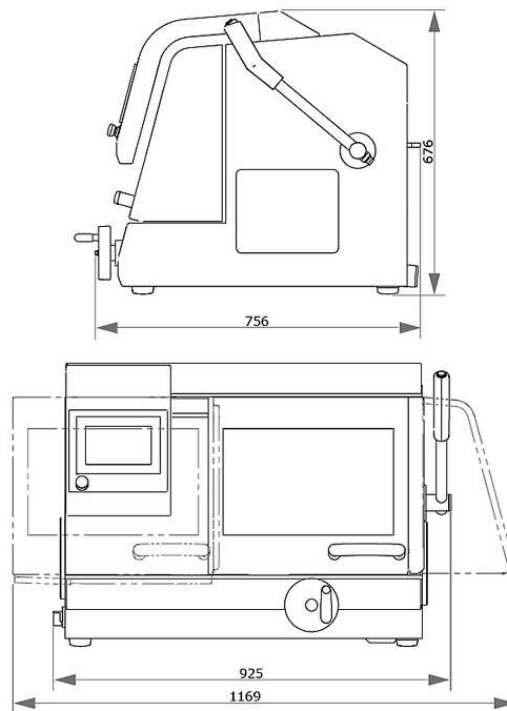
FAST, POWERFUL, FLEXIBLE - QTOOL CLAMPING DEVICES

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.



CUT-OFF MACHINE QCUT 250 A

TECHNICAL DATA



Cutting wheel	up to 254 mm / 10"
Max. cutting capacity	ø 95 mm
X-axis automatic & manual	225 mm
Y-axis manual	170 mm
Z-axis automatic (option)	120 mm
Precision Z-axis	0.1 mm
Table without Z-axis WxD	380 x 270 mm
Table with Z-axis WxD	300 x 270 mm
T-slot	12 mm
Connection power	5.5 kVA
Drive power (main drive)	3 kW, S1; 4 kW, S3/60%
Speed	3015 rpm at 50Hz and 3100 rpm at 60Hz
W x H x D	925 x 676 x 756 mm
Weight (depends on equipment)	~ 130 kg

www.qatm.com/qcut-250-a

ORDER DATA

BASIC EQUIPMENT

MACHINE (ALL ITEMS REQUIRED)

M1822000  Qcut 250 A (Brillant 240) Base machine

POWER SUPPLY (1 ITEM REQUIRED)

A1822001 Qcut 250 A power connection 400V/50Hz (3Ph/PE)

A1822002 Qcut 250 A power connection 480V/60Hz (3Ph/PE)

A1822003 Qcut 250 A power connection 220V/60Hz (3Ph/PE)

TABLE DRIVE BRILLANT (1 ITEM REQUIRED)

A1822004 Qcut 250 A X-Axis aut.&manual / without Z-Axis

A1822005 Qcut 250 A X-Axis aut.&manual / Z-Axis aut.

RECIRCULATION SYSTEM (1 ITEM REQUIRED)

A5800484  Recirculation Cooling System 45L 400V/50Hz (3Ph/PE) mobile, with insertion mechanism

A5800485  Recirculation Cooling System 45L 480V/60Hz (3Ph/PE) mobile, with insertion mechanism

A5800486  Recirculation Cooling System 45L 220V/60Hz (3Ph/PE) mobile, with insertion mechanism

A5800487  Recirculation Cooling System 45L 400V/50Hz (3Ph/PE) mobile, without folding wheels

A5800488  Recirculation Cooling System 45L 480V/60Hz (3Ph/PE) mobile, without folding wheels

A5800489  Recirculation Cooling System 45L 220V/60Hz (3Ph/PE) mobile, without folding wheels

A6501009  Belt filter 130 - 400V/50Hz (3Ph/PE)

A6501011		Belt filter 130 - 480V/60Hz (3Ph/PE)
A6501010		Belt filter 130 - 220V/60Hz (3Ph/PE)
Z6501004		Connection set belt filter 130

OPTIONS (TO BE ORDERED WITH MACHINE)

A1822006		Qcut 250 A laser alignment aid
A1822007		Qcut 250 A centrifugal separator 400V 50Hz/480V 60Hz
A1822008		Qcut 250 A centrifugal separator 220V 60Hz

PRECISION CLAMPING DEVICES

Z1870035	Sample holder L standard Ø 40 mm open
Z1870037	Sample holder L standard Ø 40 mm closed
Z1870039	Sample holder L Flex Ø 40 mm
Z1870043	Sample holder L parallel clamping vice open
Z1870041	Sample holder L parallel clamping vice closed
Z1870045	Drop shape sample holder L Ø 40 mm
Z1870047	Universal clamping vice L
Z1870049	Matrix clamping vice L
Z1870054	Mini vice L
Z1870056	Double parallel vice L
Z1870058	Adaptor with ball joint L
Z1870064	Reduction ring Ø 25 mm
Z1870063	Reduction ring Ø 30 mm
Z1870071	Reduction ring Ø 40 mm
Z1870067	Reduction ring 1"

Z1870066	Reduction ring 1 1/4"
Z1870065	Reduction ring 1 1/2"
Z1870068	Manual chuck Ø 32 mm
Z1870069	Manual chuck Ø 44 mm
Z1870070	Manual chuck Ø 56 mm

VACUUM CLAMPING VICES

Z1870028	Vacuum sample holder
O1870288	Vacuum holder (sacrificial plate)
Z1304600	Vacuum pump 230V/50Hz for vacuum sample holder
Z1304634	Vacuum pump 110V/60Hz for vacuum sample holder

QUICK CLAMPING TOOLS

QTOOL 60

Z2235200	Qtool 60
O2235202	Clamping jaw 32 mm - for Qtool 60
Z2235201	Clamping jaws 60 mm - for Qtool 60
O2235212	Clamping jaw 32 mm bevelled - for Qtool 60
O2235213	Clamping jaw 32 mm cross prism - for Qtool 60
Z2235202	Clamping jaws 60 mm slotted - for Qtool 60
Z2235203	Clamping jaws 60 mm slotted prism - for Qtool 60

QTOOL 80

Z2231203	Qtool 80 - 100mm
O2231243	Clamping jaw 40 mm
Z2231215	Clamping jaws 70 mm
O2231245	Clamping jaw 40 mm bevelled
O2231246	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
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

EASY-CLAMPING PLATES

Z2236030	Easy-clamping plate S
Z2236031	Easy-clamping plate S with rotating unit
Z2236035	Easy-clamping plate M

ACCESSORIES FOR EASY-CLAMPING PLATES

Z2236032	Easy adaption horizontal
Z2236033	Easy adaption vertical
Z2236034	Easy adaption Qtool 40 - 60
Z2236038	Multitower rotating plate
Z2236039	Multitower
Z2236040	Swivel unit Qtool 40 - 60
Z2236036	Easy-multifunctional plate

CLAMPING ACCESSORIES FOR ROTATING, SWIVELING AND SPECIAL APPLICATIONS

Z2236041	Swivel unit Qtool 60 - 80
Z1304643	Screw clasper with Easy-clamping plate M

Z1304636	Expansion clamping device
Z2236009	Vertical clamp single
Z2236010	Vertical clamp double
Z2234010	Clamping system X-Clamp 3858

CROSS VICES

Z1340010	 Cross vice 50 - 100
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ANGLE AND ROTATING VICES

Z1304001	Angle vice 60
01304008	Prism jaw angle vice 60

ROTATING DEVICES

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

UNIVERSAL VICES AND ACCESSORIES

01350022	Prism 120°
01350023	Prism slim
01350024	Prism 90°
01350025	Prism 90° high
Z1350008	 Universal vice Piccolo 54
Z1350010	 Suitcase set universal vice Piccolo 54
Z1350012	 Universal vice Piccolo 100
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