



CUT-OFF MACHINE

## BRILLANT 230

**The BRILLANT 230 is a wet abrasive cut-off machine with fine dynamic, manual wheel movement into samples up to Ø 110 mm. The spacious cutting chamber allows various clamping variations. The solid aluminium design of the cutting machine comes with openings on the right and left hand side for cutting continuous long parts.**

## PRODUCT ADVANTAGES

- | Precise manual vertical movement
- | Large cutting chamber
- | Opening on left- and righthand side for continuous long materials
- | Large table, individually adjustable in x-direction
- | Sliding door and side door for superior accessibility
- | User friendly
- | Safety standard with door interlocking system
- | Flange with ceramic protector
- | Easy nut
- | Cutting chamber illumination with LED flex light
- | Large range of different clamping tools and systems available
- | Solid aluminium case construction, powder coated

## 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.

### INNOVATIVE DETAILS

The sliding front door and the side door with safety interlock allow easy and optimal access to the cutter chamber. Further, the LED cutting chamber illumination is energy-saving. The arbour is protected against wearing by an interchangeable ring.

### MANUAL HORIZONTAL MOVEMENT

The manual horizontal movement allows cutting long parts longitudinally and easy positioning of the sample below the cut-off wheel.

### Z-AXIS

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

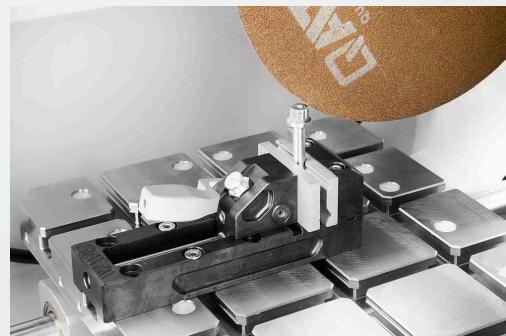
## **PERFECT CUTTING - CUT-OFF WHEELS FROM QATM**

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.



WET ABRASIVE CUT-OFF MACHINE BRILLANT 230

## TECHNICAL DATA


<b>Cutting wheel</b>	up to $\varnothing$ 300 mm/12"
<b>Max. cutting capacity</b>	$\varnothing$ 110 mm
<b>Wheel flange size</b>	$\varnothing$ 32 mm
<b>Y-axis (vertical movement)</b>	125 mm
<b>Table WxD</b>	380 x 250 mm, stainless
<b>T-slot</b>	12 mm
<b>Connection power</b>	6 kVA
<b>Drive power (main drive)</b>	4 kW S1
<b>Speed</b>	2750 rpm
<b>W x H x D</b>	830 x 640 x 670 mm
<b>Weight</b>	ca. 130 kg

[www.qatm.com/brillant-230](http://www.qatm.com/brillant-230)

## ORDER DATA

### BASIC EQUIPMENT

#### MACHINE (ALL ITEMS REQUIRED)

M1820000		Brillant 230 Base machine
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#### POWER SUPPLY (1 ITEM REQUIRED)

A1820015	Brillant 230 power supply 400V/50Hz (3Ph/PE)
A1820016	Brillant 230 power supply 480V/60Hz (3Ph/PE)
A1820017	Brillant 230 power supply 220V/60Hz (3Ph/PE)





#### WHEEL GUARD (1 ITEM REQUIRED)






A1820013	Brillant 230/250 wheel guard 250mm (10")
A1820014	Brillant 230/250 wheel guard 300mm (12")

#### TABLE DRIVE BRILLANT (1 ITEM REQUIRED)




A1820028	Brillant 230 without X-axis, without Z-axis
A1820029	Brillant 230 manual X-axis, without Z-axis
A1820030	Brillant 230 without X-axis, manual Z-axis
A1820031	Brillant 230 manual X-axis, manual Z-axis

#### 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)

A1820027		Brillant 230 laser alignment aid
Z1820009		Centrifugal separator (machine mounted) 400V/50Hz/3 Ph
Z1820012		Centrifugal separator (machine mounted) 480V/60Hz/3 Ph
Z1820011		Centrifugal separator (machine mounted) 220V/60Hz/3 Ph

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

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
Z1870070	Manual chuck Ø 56 mm, Clamping_devices, Precision_clamping_devices

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

Z1870028	Vacuum sample holder, Clamping_devices, Precision_clamping_devices
O1870288	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

## QUICK CLAMPING TOOLS, CLAMPING\_DEVICES

QTOOL 60, CLAMPING\_DEVICES, QTOOL\_SERIES

Z2235200	Qtool 60, Clamping_devices, Qtool_series
O2235202	Clamping jaw 32 mm - for Qtool 60, Clamping_devices, Qtool_series
Z2235201	Clamping jaws 60 mm - for Qtool 60, Clamping_devices, Qtool_series
O2235212	Clamping jaw 32 mm bevelled - for Qtool 60, Clamping_devices, Qtool_series

02235213	Clamping jaw 32 mm cross prism - for Qtool 60, Clamping_devices, Qtool_series
Z2235202	Clamping jaws 60 mm slotted - for Qtool 60, Clamping_devices, Qtool_series
Z2235203	Clamping jaws 60 mm slotted prism - for Qtool 60, Clamping_devices, Qtool_series
QTOOL 80, CLAMPING_DEVICES, QTOOL_SERIES	
Z2231203	Qtool 80 - 100mm, 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
Z2231210	Workpiece stop, 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	Prism jaw, 40 mm, Clamping_devices, Qtool_series
02231229	Bevelled jaw, 40 mm, Clamping_devices, Qtool_series
02231230	Cross prism jaw, 40 mm, 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

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

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


## ACCESSORIES FOR EASY-CLAMPING PLATES

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

## CLAMPING ACCESSORIES FOR ROTATING, SWIVELING AND SPECIAL APPLICATIONS, CLAMPING\_DEVICES, CLAMPING\_ACCESSORIES\_SPECIALS

Z2236041	Swivel unit Qtool 60 - 80, Clamping_devices, Clamping_accessories_specials
Z1304643	Screw clammer with Easy-clamping plate M, Clamping_devices, Clamping_accessories_specials
Z1304636	Expansion clamping device, Clamping_devices, Clamping_accessories_specials
Z2236009	Vertical clamp single, Clamping_devices, Clamping_accessories_specials
Z2236010	Vertical clamp double, Clamping_devices, Clamping_accessories_specials
Z2234010	Clamping system X-Clamp 3858, Clamping_devices, Clamping_accessories_specials

### CROSS VICES, CLAMPING\_DEVICES, CLAMPING\_ACCESSORIES\_SPECIALS

Z1340010	 Cross vice 50 - 100, Clamping_devices, Clamping_accessories_specials
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### ANGLE AND ROTATING VICES, CLAMPING\_DEVICES, CLAMPING\_ACCESSORIES\_SPECIALS

Z1304001	Angle vice 60, Clamping_devices, Clamping_accessories_specials
01304008	Prism jaw angle vice 60, Clamping_devices, Clamping_accessories_specials

## ROTATING DEVICES, CLAMPING\_DEVICES, ROTATION\_DEVICES

Z1870059	Rotation device type RD1, Clamping_devices, Rotation_devices
Z1891001	Rotation device type RD2.1, Clamping_devices, Rotation_devices

## UNIVERSAL VICES AND ACCESSORIES, 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
Z1350008		Universal vice Piccolo 54, Clamping_devices, Universal_vices_and_accessories
Z1350010		Suitcase set universal vice Piccolo 54, Clamping_devices, Universal_vices_and_accessories
Z1350012		Universal vice Piccolo 100, Clamping_devices, Universal_vices_and_accessories
Z1350002		Universal vice Mono 61, Clamping_devices, Universal_vices_and_accessories
Z1350004		Suitcase set universal vice Mono 61, Clamping_devices, Universal_vices_and_accessories
Z1350011		Universal vice Mono 132, Clamping_devices, Universal_vices_and_accessories
Z1350005		Universal vice Duo, Clamping_devices, Universal_vices_and_accessories
Z1350006		Chain vice set, 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