



CUT-OFF MACHINE QCUT 500 A





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OPERATION

Touch-Screen display for the QATM-Software control is easy to read thanks to smart phone technology and even easier to operate. Compact program sequences are easy to compile and therefore enable automated, password-secured program sequences. Update and back-up possible via USB.

CUT OPTIMIZATION

In addition to the type of cut, variable pulse-cut feed can also be selected. Rhythmic pulsed feed ensures regular cooling and removal of cutting debris from the sample.

REMOTE MAINTENANCE

Using your existing broadband Internet connection, QATM provides an online fault diagnosis and operator support.

The universal wet cut-off machine Qcut 500 A meets the highest of demands on space available and possibilities for cutting with its innovative concept for design, construction and operation. The automatic horizontal table (X-axis) and cutting wheel movement (Y-axis) can reach up to 80 mm/sec. through highly dynamic axis drives in rapidrun.

Parallel setting of the wheel guard during vertical cutting sequences increases the cutting capacity considerably. The large front and hinged door with safety lock enable access to the machine table with longitudinal and cross T-slots. Recirculating cooling and automatic central lubrication systems are integrated into the robust aluminum construction body of the machine.

CONTROL

A wide range of cutting procedures is at your disposal for the very best cutting results. Through the combination of this unlimited range of positions, series cuts or differing cut sequences can be made into reality - all made possible by such a large variety of positions. The cutting process is rightly supported by controlled cut-off wheel revolutions. Control of the cutting speed and a soft start control serve additionally for an economical cutting feed. Manual control commands in the X-/Z-/Y-axes are also possible using an industrial joystick.

LASER ALIGNMENT AID

With line laser you can display the scheduled cut on the sample. This helps to define the exact cutting position.

TYPES OF CUT

Travel and cutting wheel offer a wide-ranging repertoire of types of cut through different combinations.

In addition to the linear diagonal cut, the layer and segment-cuts are recommended for gentle cuts. The layer-cut is well-suited for cutting taller and longer objects as well as solid material.

The segment-cut is especially suitable for large objects and hard materials.

MULTI-POSITION-PROCESS MPP

With the "Multi-Position-Process" (MPP) you can place multiple specimens on the table and cut them in one sequence. The teach-in function enables a simple and user-friendly setting of various cutting positions.

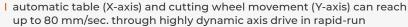




BASIC MODULE

Qcut 500 A





- equipment: automatic cross feed (Z-axis)
- automatic touch detection
- spacious cutting chamber with large T-slot table
- I machine table made of stainless steel with longitudinal and cross
- I parallel setting of wheel guard during vertical cutting sequences increases cutting capacity
- Multi-position process MPP allows positioning of different components on the table simultaneously and adding into an automatic cutting
- I economical cutting feed by control of the cutting speed and soft start control
- I variable speed
- I manual control of X-/Y-/Z-axis via an industrial joystick
- I Touch-Screen display and QATM-Software control
- I smart phone optics for easy compilation of compact program sequences with position steps and cutting modes (travel-, cut-off-, diagonal-, step- and segment cut)
- I an unlimited number of password-secured program sequences can be stored and updated; file exchange and backup via USB
- I QATM online-diagnostics and user support available
- I easy access to cutting chamber by large sliding and side door (with safety lock during wheel movement)
- I sliding door with large window made of scratchproof safety glass
- I opening on both sides for long parts
- I options: laser alignment aid, centrifugal separator
- I incl. cutting wheel arbour with wear ring and optimum cutting chamber illumination
- I automatic central lubrication (6 bar compressed air required)
- I robust powder-coated aluminum construction body of machine
- I Easy-nut for easy change of cutting wheel
- l e-Lab-ready

Order No.: M1832000

EOUIPMENT

POWER SUPPLY

Equipment 1	Equipment 2
400 V/50 Hz (3Ph/N/PE)	480 V/60 Hz (3Ph/PE)
Order No.: A1832000	Order No.: A1832002



Clamping example

TABLE DRIVE

Equipment 1		Equipment 2	
Table with X-axis		Table with X/Z-axis	
I made of stainless	ssteel	I made of stainles	s steel
Travel X-axis	420 mm	Travel X-axis	420 mm
		Travel Z-axis	200 mm
Precision	0.1 mm	Precision	0.1 mm
Order No.: A18320	08	Order No.: A18320	11

WHEEL GUARD

Equipment 1		Equipment 2	
Cut-off wheel	Ø 432 mm/17"	Cut-off wheel	Ø 508 mm/20"
Order No.: A183	2001	Order No.: A183	32010



EQUIPMENT

COOLING AND FILTER SYSTEM

Equipment 1

Recirculation cooling unit



I integrated, mobile
I multi chamber filtration
(see consumables)

Equipment 2 Belt filter system 285



I incl. filter roll

Tank	~ 200 ltr.	Tank	285 ltr.
		Filter capacity	100 ltr./min (referring emulsion)
Pump	~ 100 ltr./min	Pump	100 ltr./min
		Filter area	0.85 m ²
		Filter fleece width	710 mm
WxHxD	810 x 608 x 1008 mm	WxHxD	929 x 790 x 1745 mm
		Weight	~ 120 kg
400 V/50 Hz (3Ph/PE)		400 V/50 Hz (3Ph/PE)	
Order No.: A1832005		Order No.: A6501000	
480 V/60 Hz (3Ph/PE)		480 V/60 Hz (3Ph/PE)	
Order No.: A1832006		Order No.: A6501002	

OPTION

CENTRIFUGAL SEPARATOR



- I to remove coolant mist
- I increases quality of illumination
- I suction output 425 or 500 m³/h depends on power supply

LASER ALIGNMENT AID



Connection set 275

Order No.: Z6501000

- I laser line to visualize the cutting line
- I laser class 1

I for belt filter system please orderconnection set

400 V/50 Hz (3Ph/PE) Order No.: A1832007 480 V/60 Hz (3Ph/PE) Order No.: A1832009

ACCESSORIES

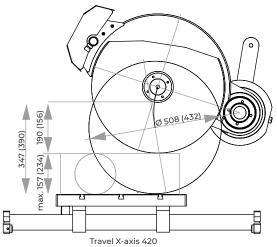
BASIC SET QCUT 500 A

Order No.: Z1832000

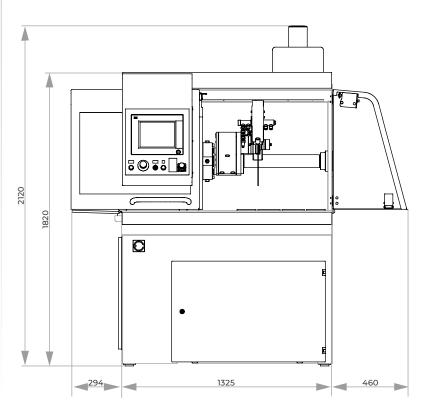
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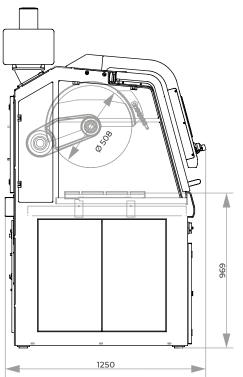






SPECIFICATIONS		
Cut-off wheel	1 2	Ø 432 mm/17" * Ø 508 mm/20" **
Max. sample size		Ø 156 mm* / Ø 190 mm**
Arbour size		Ø 32 + 40 mm
Vertical movement		280*/240** mm
Horizontal movement		420 mm
Feed rate		0.001 - 50 mm/sec
Z-axis automat.		200 mm (equipment)
Precision		0.1 mm
Table WxD		700 x 500 mm (without Z-xis) 550 x 500 mm (with Z-xis)
T-slot		12 mm
Motor cut-off wheel		15 kW, S1-mode
Connected load		30 kVA
Variable speed		1000-2800 rpm* 1000-2400 rpm**
Power supply	1 2	400 V 50 Hz (3/N/PE) 480 V 60 Hz (3/PE)
WxHxD		~ 1325 x 1820 x 1250 mm
Weight		~ 1000 kg (depends on equipment)
use with cut-off wheel *Ø 432 mm or **Ø 508 mm		







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