

5-AXIS CUTTING ROBOT

QCUT 430 BOT (BRILLANT 3D)



Some separation processes require taking of several samples from a specimen and a corresponding number of cuts in different angular positions. This often means an additional expense for the re-clamping of the sample and possibly the use of additional clamping tools.

The new Qcut 430 BOT (Brillant 3D) is equipped with 5 axis (X-, Y-, Z-, D-, E-axis). This allows positioning and cutting of the sample in nearly all arbitrary positions to the cut-off wheel.

The device has all the characteristics of the Brillant 275 universal wet-cutting machine and meets high demands on space and cutting operations with its innovative concept. The **automatic horizontal table (X-axis) and cutting wheel movement (Y-axis)** can reach up to 80 mm/sec. through highly dynamic axis drive in rapid run.

Compact program sequences for automatic processes are easy to compile by **Touchscreen-control**. Parallel setting of wheel guard during vertical cutting sequences increases the cutting capacity. A large sliding and side door with safety lock during wheel movement provides best access to the large machine table with longitudinal and cross T-slots. Automatic central lubrication and recirculation cooling unit are integrated into the robust powder-coated aluminium body of the machine.

The Multi-Position process (MPP) allows cutting at different positions in just one sequence. Setting and approaching of cutting positions is made easy and comfortable with the Teach-In- Function.

Precisely positioned cuts without re-clamping the specimen eliminate complicated instructions to describe the sampling process, reduce the number of clamping tools and minimize cutting errors. Full automation makes the entire process effective and efficient.

PRODUCT ADVANTAGES

- | Cuts in different positions automatically without re-clamping
- | No expensive instructions needed for taking out samples
- | Precise positioning of cuts
- | Reduction of clamping tools
- | Minimization of cutting errors
- | Full automation
- | Time saving

FEATURES

Cutting wheel	up to Ø 432 mm/17"
Max. cutting capacity	Ø 190 mm
Wheel flange size	Ø 32/40 mm
X-axis automatic	420 mm
Y-axis automatic	280 mm
Z-axis automatic	200 mm
D-axis	+/- 90°
E-axis	+/- 100°
Precision Z-axis	0.1 mm
Table WxD	550 x 500 mm, stainless
T-slot	12 mm
Speed	variable 1000-2800 /1000-2400 rpm
Connection power	30 KVA
Drive power (main drive)	15 kW, S1 operation
W x H x D	1300 x 1820 x 1250 mm
Weight	~ 1000 kg (depends on equipment)

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