



STM WATERJET CUTTING SYSTEMS

STM PREMIUM

STM ECOCUT



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MACHINE FRAME	rustproof machine frame as welded structure „ALU Frame“	rustproof machine frame as welded structure „ALU Frame“
DRIVE X-AXLE	rack and pinion on both sides, with torsion bar	rack and pinion on both sides, with torsion bar
DRIVE Y-AXLE	rack and pinion, low-backlash planetary gear, 2 angular minutes	rack and pinion, low-backlash planetary gear, 6 angular minutes
TOLERANCES	Positioning accuracy $\pm 0,1$ mm repeat accuracy $\pm 0,1$ mm	positioning accuracy $\pm 0,2$ mm repeat accuracy $\pm 0,2$ mm
CONTROL	NUM CNC-CONTROL AXIUM POWER P1 <ul style="list-style-type: none"> • low vibration positioning of axles • high contour accuracy without pitch • Anti-pitch adjustment for fast shifts in direction • jerk-limited speed monitoring • Smooth Interpolation for highly accurate interpolation • Look ahead, contour forecast • ARS (Advanced Resonance Suppression) • feed rate up to 40 m/min 	PC-CONTROL PA 8000E <ul style="list-style-type: none"> • CANopen-Bus • 1 CNC-port • DeviceNet-Master • PA-Superbus • Windows 2000 and PA Realtime Kernel • Soft-SPS according to IEC61131-3 • CNC-operating interface (PA-HMI) • feed rate up to 10 m/min
AXLE CONTROLLER/MOTORS	NUM MDLU DIGITAL <ul style="list-style-type: none"> • all-digital, compact with integrated electric power supply • integrated position, speed and current control • brushless digital servo-motors • high-resolution measuring system over integrated sinus/cosinus-sensors • motor capacity 2 kW • nominal current 4,5 A (max. 9 A) 	PANASONIC MBDDT3520 <ul style="list-style-type: none"> • position, speed and current control 0-10 VDC • brushless servo-motors • nominal torque 2,4 Nm • maximum torque 7,1 Nm • nominal power output 750 W
CONTROL UNIT	RITTAL PREMIUM PC CABINET WITH WHEELS <ul style="list-style-type: none"> • air conditioning system 	RITTAL STANDARD CABINET -
CONTROL PC	DELL 2.8 GHZ, 512 MB RAM <ul style="list-style-type: none"> • Windows 2000, XP pro, Vista • Monitor 19" TFT low-radiation • 10/100/1000 Ethernet with RJ45 • 3 years direct warranty 	PC-CONTROL PA 8000E <ul style="list-style-type: none"> • Windows 2000 • Monitor 17" TFT low-radiation • 10/100 Ethernet with RJ45
SOFTWARE	EASycUT WATERJET SOFTWARE <ul style="list-style-type: none"> • EasyCut waterjet software • accessible from several workplaces without surcharge 	CNCCUT WATERJET SOFTWARE <ul style="list-style-type: none"> • CNCcut waterjet software
ABRASIVE CONTAINER	250 kg, anytime fillable	250 kg, anytime fillable
ABRASIVE DOSING HEAD	quantity CNC-controlled via cutting software	quantity manual adjustable
ABRASIVE TRANSFER SYSTEM	AUTOMATIC ABRASIVE SYSTEM <ul style="list-style-type: none"> • up to 20% higher cutting rate • vacuum monitoring • abrasive monitoring 	- -
ABRASIVE HEAD	autofocus with hard metal insert	autofocus with hard metal insert
CUTTING HEAD	fast opening 0-400 MPa	standard 200-400 MPa
HIGH PRESSURE PUMP	BÖHLER HYTRON 37 KW, 3,8 LITER/MINUTE, 400 MPA <ul style="list-style-type: none"> • bleed down valve • continuous adjustment of pressure software-controlled • LCD-operation panel with text indicator • sound damping casing 78 dB(A) • remote start/stop 	BÖHLER ECOTRON 37 KW, 3,8 LITER/MINUTE, 400 MPA <ul style="list-style-type: none"> • bleed down valve • two pressure ranges manual adjustable • error messages with LED-indicator