



## MECAJET II

# Very high pressure water jet equipment



### Other products of the WATER JET PRODUCT RANGE



**Quickjet II**  
Closed water jet cutting equipment  
dimension 1000x1200 mm



**LABJET**  
Compact water jet cutting equipment

## STRENGTHS

- Designed and manufactured for intensive and professional use.
- Cutting of soft materials with pure water (rubber, plastics, foam, leather...) and hard materials (metal, ceramic, glass, stone, composites...) with addition of abrasive.
- Fixed table equipment with working size from 1000x2000 mm up to 2000x6000 mm in standard.
- Wide possibilities of customization.
- Driving system on numerical control CN9000 ISO and CAM software dedicated for water jet cutting applications.
- High pressure pumps at 4136 bar or 6200 bar.
- Patented cutting heads and systems of metering and feeding abrasive.
- 3 axis or continuous 5 axis cutting heads.
- Quality kinematics which integrates industrial components delivered by worldwide leaders in their sector and assembled on high inertia steel welded frame, stainless steel tank with adjustable water level.



Listening



Custom-made



Multi-purpose



100% integrated



## MECAJET II very high pressure water jet equipment

### TECHNOLOGIES

#### Structure:

- high inertia steel welded structure cast in one piece,
- welded steel mobile gantry, stainless steel tank,
- table with zinc coated for abrasive cutting, or plastic honeycomb coating for cutting with pure water.

#### Kinematics:

- guidance by grinded steel rails and preloaded ball bearings,
- transmission by ballscrews on XYZ axes,
- motorisation: « AC Brushless » servomotors.

FEATURES	MECAJET II 1021		MECAJET II 1531		MECAJET II 2041	
	3 axes	5 axes	3 axes	5 axes	3 axes	5 axes
X-axis travel in mm	2500	2100	3500	3100	4500	4100
Y-axis travel in mm	1320	1100	1820	1600	2220	1760
Z-axis travel in mm	300	300	300	300	300	300
Maximum sheets dimensions in the tank in mm	1340 x 2600		1840 x 3600		4520 x 2240	
Distance gantry / table in mm	450		450		450	
Max. speed in m/min : pure water / abrasive	25		25		25	
Overall lenght in mm	2800		3300		3500	
Overall width in mm	3800		4800		5750	
Height in mm (workshop / transport)	4000/2800		4000/2800		5400/2800	
Weight in kg (empty tank)	4000		5500		7000	
CUTTING HEAD						
	Pure water cutting head KMT AQUALINE					
	Abrasive cutting head KMT AUTOLINE or IDE					
	Abrasive tank under pressure, capacity of 200 or 1000 liters, KMT ABRALINE					
OPTIONS AND ACCESSOIRES						
	5 AXES continuous head for mounting on Z axis monohead machines					
	3 AXES second head for mounting on Z axis multihead machines					
	Divider, horizontal numerical fourth axis for tube processing					
	Manual orientation system of the head angle +/- 45°					
	Follow-up flatness electronic system for monohead ZI 3 axes only					
	Secondary pneumatic head for drilling - Electrospindle 2,2 kW 15000 rpm maxi					
	Secondary head for pneumatic drilling					
	Water softener					
	Ballast system for quick immersion					
	Sludge suction system					
	Visible laser					
	Water non-return valve on abrasive supply					
ENERGY						
Air supply	6 bars – 3 at 8 m³/h					
Power supply	400 V 3-phase 50 Hz + earth 50 to 150 A per phase according pump					

THP PUMPS						
KMT						
Type	SL-V 15S	SL-VI 30S	SL-VI 50S	SL-VI 100S	PRO-I 60SS	PRO-I 125D
Power	15 HP	30 HP	50 HP	100 HP	60 HP	125 HP
Maximum pressure	3800	4136	4136	4136	6200	6200
BHT						
Type	ECOTRON 40.22	ECOTRON 40.37	ECOTRON 40.45	SERVOTRON 40.45	HYPERTRON 60.45	
Power	30 HP	50 HP	60 HP	60 HP	60 HP	
Maximum pressure	4000	4000	4000	4000	6000	