

MECHANICAL EQUIPMENT

Plate Processing Station

 **K. LIAROMATIS**
STRUCTURAL STEELWORK



Double Miter Bandsaw



Beam Drilling Line



Closed Shot Blasting Tunnel



Beam Welding Line



Welding Line for Box Girders & Beams



Plate Processing Station



Plate Processing System



Thermal Cutting / Coping



Milling



Pipe Cutting



Angle Punching & Cutting Line



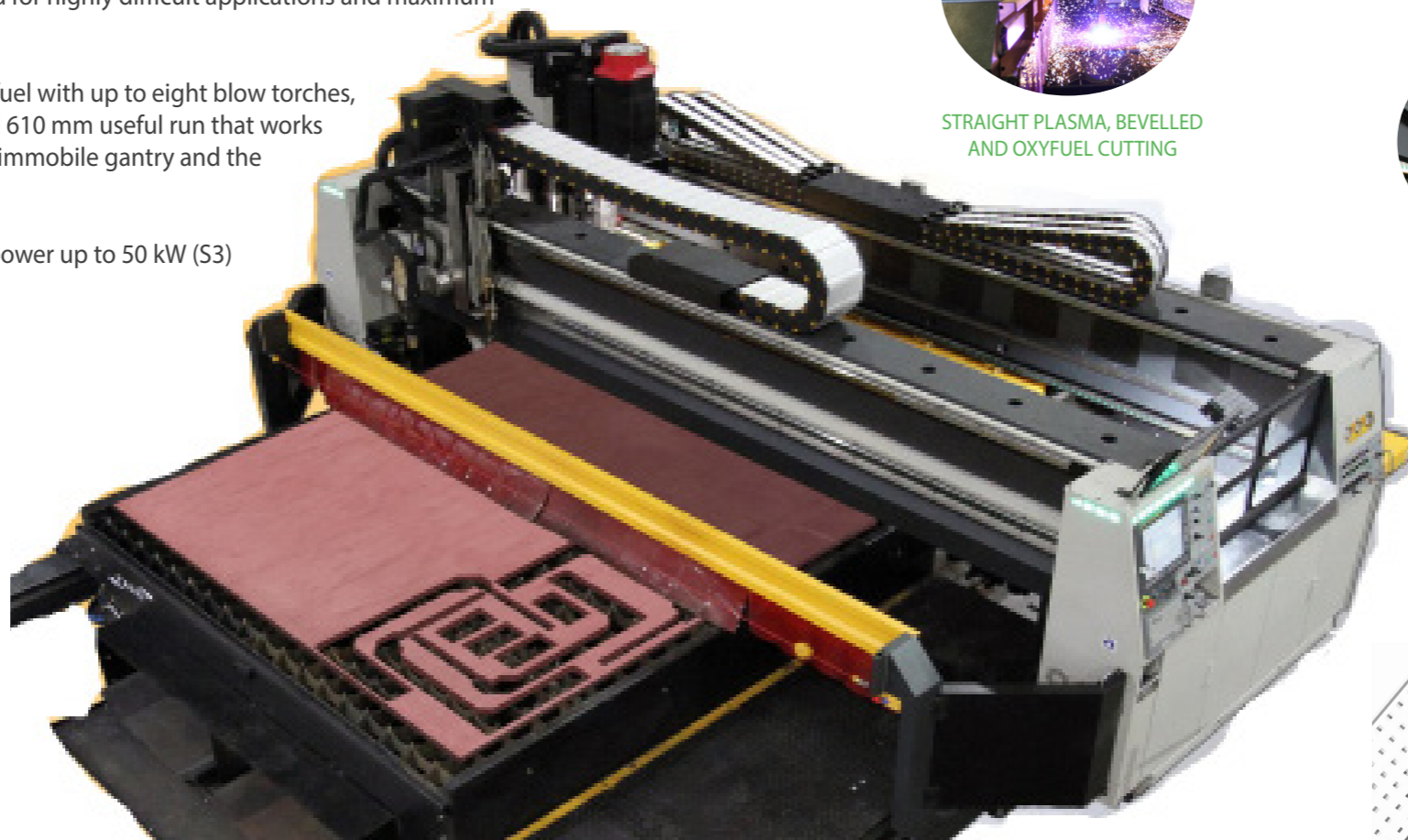
Plate Drilling & Punching Line

PLATE PROCESSING STATION

This CNC machine is the most versatile plate processing station on the market, combining high-performance thermal cutting and machining. It can manufacture parts with multiple operations such as milling, drilling, tapping, counter sinking, marking, etc. and finish edges with machining or thermal cutting. The extremely robust design and ultra-reinforced guide have been developed for highly difficult applications and maximum productivity.

Plasma cutting with one or two heads and a bevel system, oxyfuel with up to eight blow torches, an auxiliary pipe and profile lathe, all with a central XX-axis and 610 mm useful run that works on a robust double-beam design for machining tasks using an immobile gantry and the possibility of two machining heads.

- Exclusive DRILTEC system for high-capacity machining with power up to 50 kW (S3) and automatic tool change up to 80 mm in diameter.
- Include vertical plate rammer around the tool, sensor to detect the top side of a plate, tool measurement and dual lubrication, internal and external, with oil micro-fog.
- 30% savings in cutting movements with IMZ technology.
- Independent cutting tables with innovative supporting system which adapt to thermal cutting and machining, avoiding tool breakage.
- Equipped with FANUC™ control and motorisation systems which include a touchscreen, absolute encoders and fibre optic communications.
- Includes SPC systems for complete piercing control and SAC to minimise the effect of collisions.



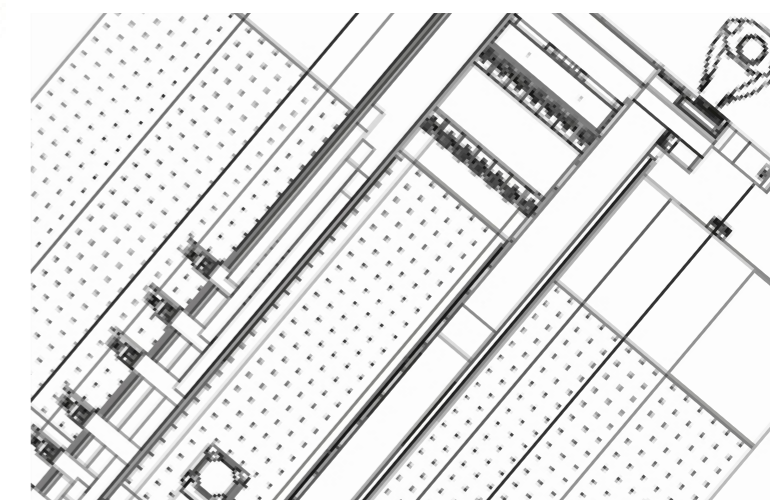
STRAIGHT PLASMA, BEVELLED AND OXYFUEL CUTTING



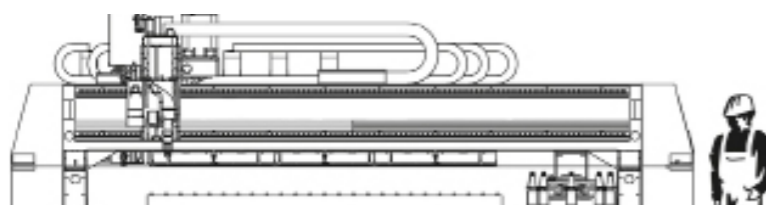
MULTIPLE MACHINING WITH CENTRAL XX AXIS



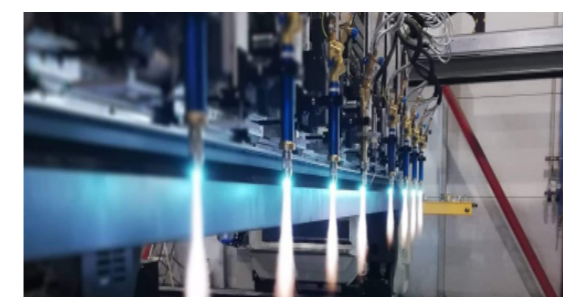
PIPE AND PROFILE PROCESSING



MAIN COMPONENTS



PLASMA & BEVEL ARC
Plasma cutting with one or two heads and a bevel system for plate, pipe and profile bevelling.



OXYFUEL
A built-in auxiliary oxyfuel head to cut plate thicknesses up to 200 mm.



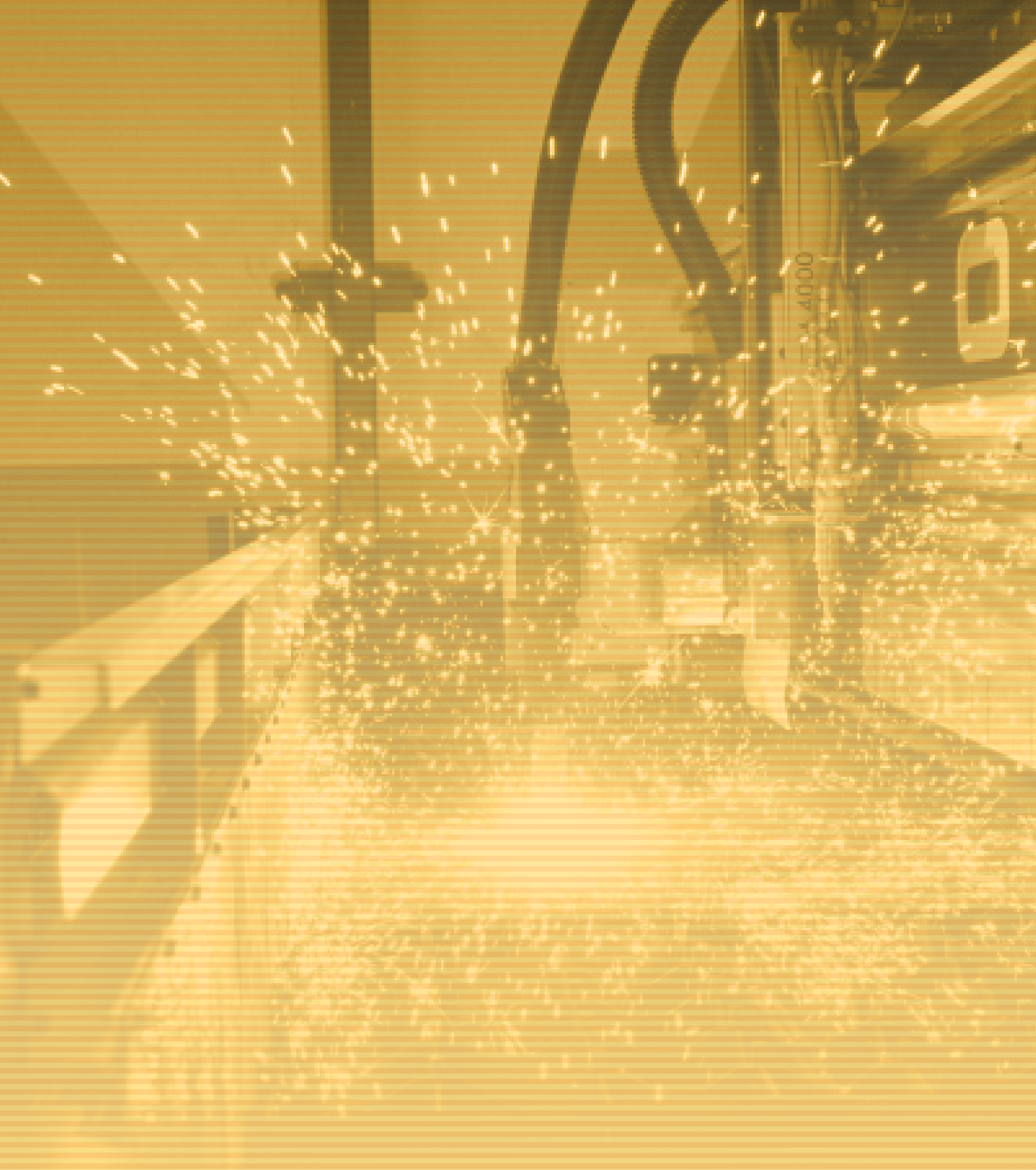
MARKTEC SCRIBING
Specific heads for laser and micro-machining marking for part referencing and bending lines on materials.



DRILTEC
Drilling and tapping system with the option to automatically change tools.

TECHNICAL CHARACTERISTICS	
Useful Cutting Width	3.700 mm
Useful Cutting Length	39.200 mm
Z-axis clearance height	200 mm
XX axis path	610 mm
Guide	Roller line
Cone	ISO 50
Control	Fanuc series 31 i
Spindle Motor Power	Up to 50 kW (S3)
Automatic tool change	5 <20 positions ISO 50
Plasma / Bevel cutting heads	1 - 2
Oxyfuel heads	1 - 8
Fume extraction system	1 ECOTEC 32

FEATURES	
Maximum speed	32 m/min
Positioning precision	±0,1 mm
X-axis guidance	Linear guidance
Tilting capacity bevel head	±50°
Drilling capacity	Minimum Ø5mm - maximum 80 mm
Tapping capacity	M4 hasta M39
Tool lenght	Minimum 200mm. - maximum 350 mm from the support - structure
Oxyfuel cutting capacity	- Master oxyfuel cutting head: cutting thickness up to 300 mm and piercing up to 200 mm. - Auxiliary oxyfuel cutting head: cutting thickness up to 150 mm and piercing up to 100 mm).



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