

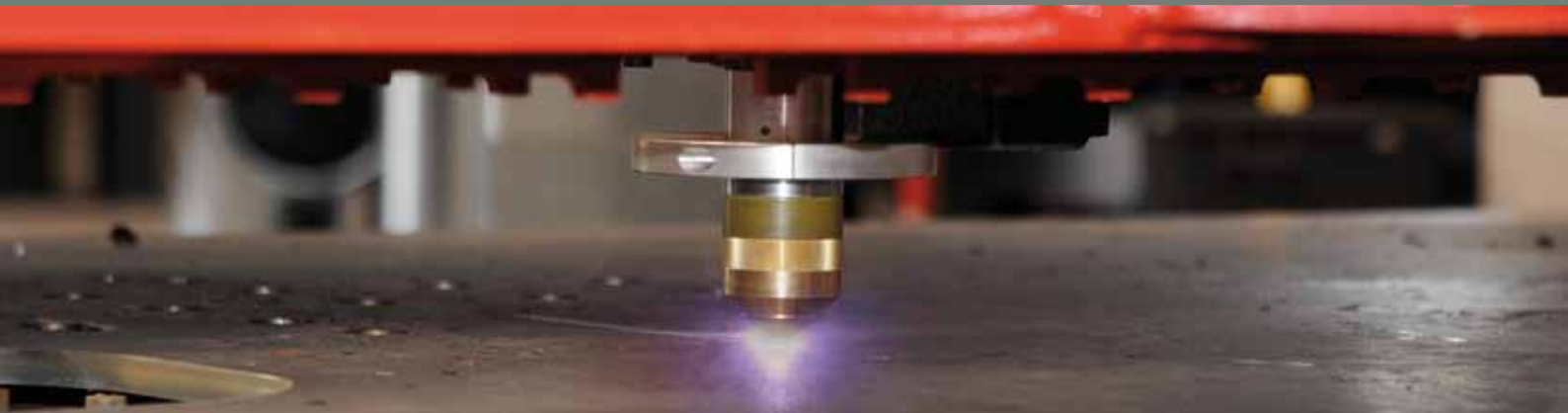
80 YEARS
1930 - 2010



GEMINI 254 PG

Gantry automatic CNC drilling,
milling & thermal cutting system
for large plates



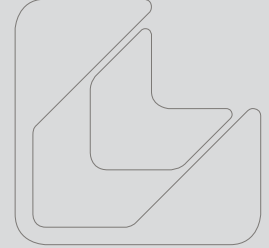
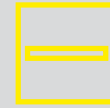


Standard Features

- Twin beam construction for minimum deflection when machining
- Fanuc controls for precision operation, reliability and widespread support
- Low backlash hardened and ground helical rack on X&Y& U axes
- Simple on floor installation without need for deep foundations
- Minimal floorspace (up to 30% less than other solutions)
- Lower cost than moving plate systems
- High speed milling and drilling with ISO taper tooling and automatic changers
- Locked adaptive plate clamping for minimal vibration and controlled breakthrough for long drill life at high production rates
- Precision laser plate sensing
- U axis to allow milling while plate is clamped
- Tool changing while plate clamped for precision tapping, countersinking boring and milling
- Helical milling for larger holes with low cost tooling
- Face milling for bearing surfaces in construction and machine applications
- 200-260 amp plasma systems
- Simple plate location and orientation systems
- Cutting lengths from 5-30m/ 20-100 ft.

Optional Features

- Optional tool monitoring and sister tooling systems
- Air/mist or liquid drill coolant
- Dry or water cutting tables
- Plate marking systems with "scribing"
- Line marking with plasma
- Optional auto plate find/ orientation
- Different cutting widths
- Vacuum chip evacuation systems



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The Gemini is a compact, economical but versatile machine for fabrication details and plate components of machinery of all types particularly for mining, packaging, earthmoving and agricultural equipment. It is optimized for holes up to 26 mm / 1 inch. but can drill larger holes at reduced speeds or make much larger holes by helical milling.

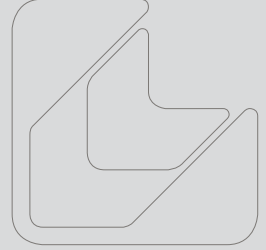
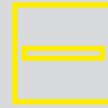




Ficep's innovative gantry is designed to process diverse sizes of plate. This line has been designed for bridges and viaduct fabrication, shipyards, manufacturers of agricultural and earth moving machinery and structural steel fabricators.

Thanks to the gantry solution, it is not necessary to handle heavy and encumbering material as the gantry frame moves over the pieces being processed. The uniquely engineered frame of the Gemini allows both rapid acceleration and deceleration of the gantry into the required position.

Inside the frame, the drill head and cutting head feature a sub x-axis to produce drilling, milling and cutting operations in an envelope area of 2.500x240 mm (8 ft. x 10") without the need to reposition the gantry. The drill head is furnished with an 8-position automatic tool changer to accomplish various operations.

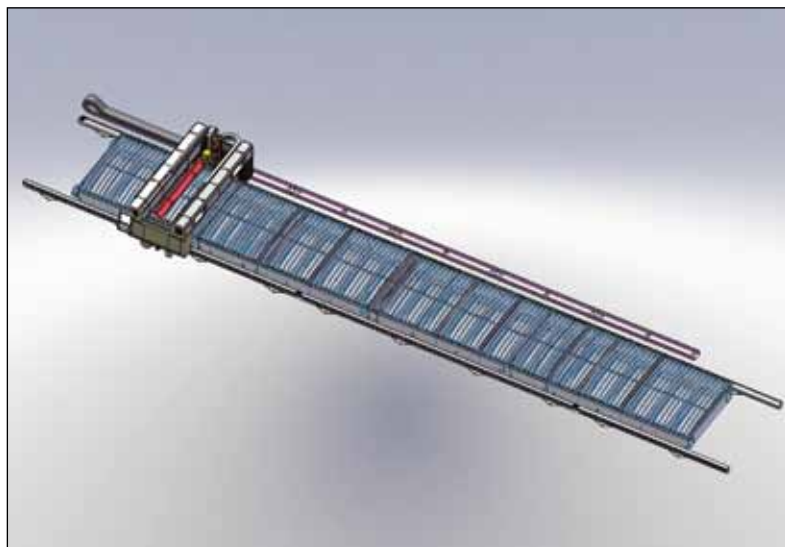


Both the HT2000 and HPR260 Hypertherm plasma torches are available.
The Gemini is equipped with the WinNEST software package to maximize material utilization through nesting.
Fanuc hardware is provided with a human interface using Ficep Minosse software.

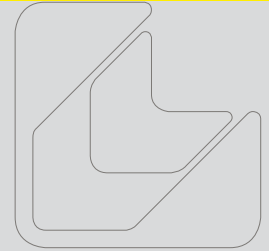
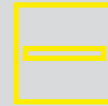




Exhaust system for Ficep plasma and/or oxycutting bench



The gantry is provided with a travel length of 6 mt (20 ft.) as standard, and longer lengths are available as an option.



CAPACITIES AND SPECIFICATIONS GEMINI 254 PG

Specifications of the large plate to be processed (entry side):		
Length	min. mm/inch	1250 / 48"
	max. mm/inch	6100 / 240"
Width	min. mm/inch	800 / 32"
	max. mm/inch	2540 / 100"
Specifications of the processed piece (exit side):		
Length	min. mm/inch	100 / 4"
Width	min. mm/inch	100 / 4"
Drilling capacities:		
Vertical drill heads	no.	1
Spindle per vertical drill head	no.	1
Maximum hole diameter that can be drilled (milled)	mm/inch	26 (240) / 1" (9 1/2")
Minimum plate thickness	mm/inch	5 / 3 1/16"
Maximum thickness that can be drilled	mm/inch	80 / 3"
Other Specifications:		
Spindle rotation motor (a.c.)	kW	7,5
Spindle rotation speed with continuous adjustment from program	RPM	from 250 to 6000
Maximum longitudinal traverse speed	m/min	32 / 1,260 ipm
Cross positioning speed	m/min	42 / 1,650 ipm
Working level height	mm/inch	650 / 25 5/8"
Features of thermal cutting options		
Max thickness of the plate for HT2000 thermal cutting operation Production cutting max thickness (max thickness with edge start)	mm/inch	25 (50) / 1" (2")
Thickness of the plate for HPR260 thermal cutting operation Production cutting max thickness (max thickness with edge start)	mm/inch	32 (64) / 1 1/4" (2 1/2")
NOTE: All dimensional tolerances of the raw sections mentioned in this quotation are in accordance to UNI 5783-5784/73 standards.		



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