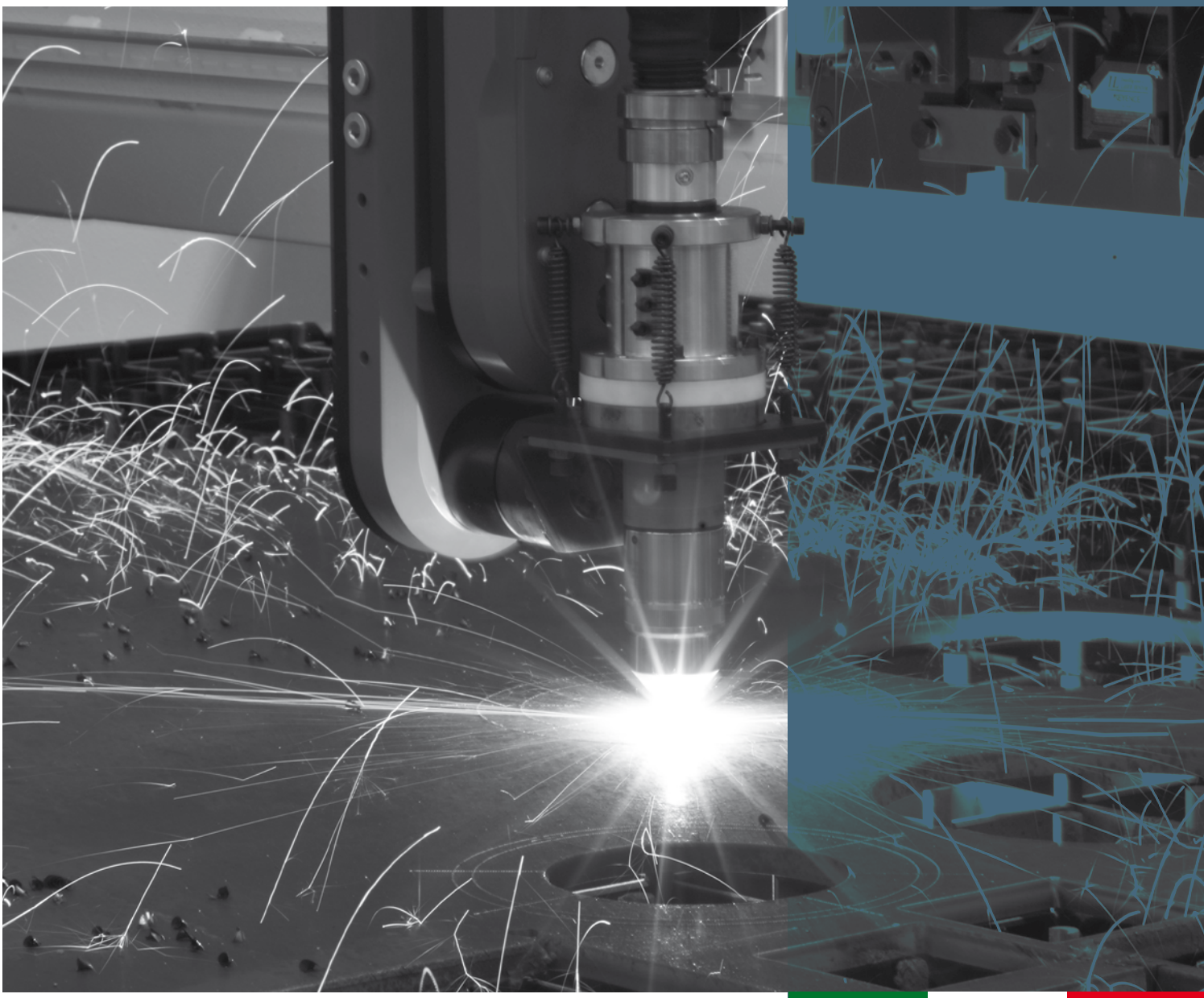


FICEP

GEMINI

Automatic Gantry CNC Drilling, Milling and Thermal Cutting Systems for large plates

GEMINI Automatic Gantry CNC Drilling, Milling and Thermal Cutting Systems for large plates

The GEMINI is the complete plate processor for fabricators and manufacturers of all sizes.

It handles from light to heavy plate for thermal cutting, marking, milling, drilling, tapping, beveling and more, with unprecedented productivity and accuracy.

This achieves the lowest part cost due to its minimal floor space, low capital investment and productivity.

STANDARD TECHNICAL FEATURES

- Twin bridge beam box construction for minimum deflection when drilling and milling.
- High precision hardened and ground helical rack on the X & Y & U axes.
- Simple floor mounted installation without the need for special foundations.
- Minimal footprint.
- High speed milling and drilling with 7,000 RPM spindle speeds and automatic tool changer
- Multiple integrated plate clamps rapidly adjust to the plate thickness to reduce the clamping cycle. The clamps rigidly secure the plate to the material bed to eliminate vibration and extend tool life even during aggressive machining.
- Precision laser for plate referencing that automatically rotates the plate nesting program to eliminate the need to square plates prior to processing.
- Secondary X axis reduces the chip-to-chip time by eliminating the need to reposition the gantry and generate a clamp and unclamp cycle after each drilling or milling process.
- Tool changing occurs while the plate remains rigidly clamped to the material bed for precision tapping, countersinking, boring and milling
- Helical milling is used to generate larger holes at a fraction of the tooling cost associated with drilling of large holes.
- Face milling is achieved typically without having to unclamp the material or move the gantry when generating bearing surfaces in construction/machine applications and columns in structural steel fabrication.

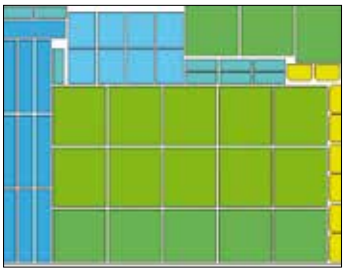
Bevel plasma torch

Automatic tool changer with up to 24 tools per drill head (depending upon the model)

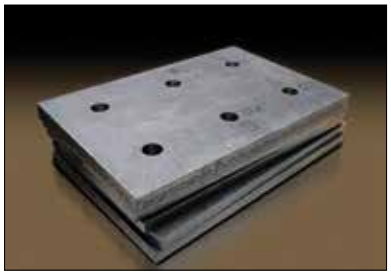
OPTIONAL FEATURES

- CNC bevel plasma head for weld preparations
- Multiple oxy-fuel torches
- Down draft or water tables
- Plate marking and layout “scribing” with patented technology
- Marking with plasma
- Chip vacuum evacuation systems

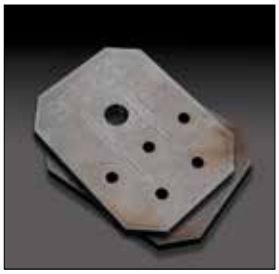
The Gemini can be equipped with different optional Hypertherm plasma torches and with plate nesting software to maximize material utilization.



Nesting



Thick parts drilled and cut



Parts drilled and marked

GEMINI G25 HPE

Play video

GEMINI Automatic Gantry CNC Drilling, Milling and Thermal Cutting Systems for large plates

CUTTING

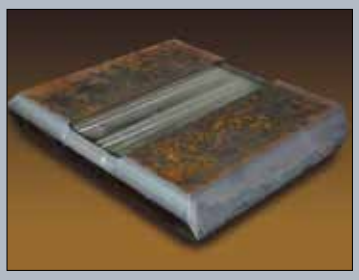
The Gemini's mobile gantry design allows for a greater range of plate sizes and thicknesses without concern for the plate weight. Material loading and unloading occurs in masked time as this transpires while the Gemini is 100% productive.

The Gemini can be supplied with plasma and optional oxy-fuel torches to process plates from 5 mm to 305 mm .

The plasma power supply is the new Hypertherm XPR300 as standard. This new technology incorporates several additional unique features and benefits in terms of cut quality on mild and stainless steel, bevel capabilities, performance, optimized productivity, reduced operating costs and nozzle life.

The Hypertherm HPR400XD is also available on all Gemini models as an option.

Hypertherm
Cut with confidence™
True Hole™



MARKING AND SCRIBING

Fabrication bending lines, identification lines and part numbers can be indicated with either a scribed line or with plasma marking.

When deeper marking is required for identification after painting or galvanizing, scribing is utilized in these applications.

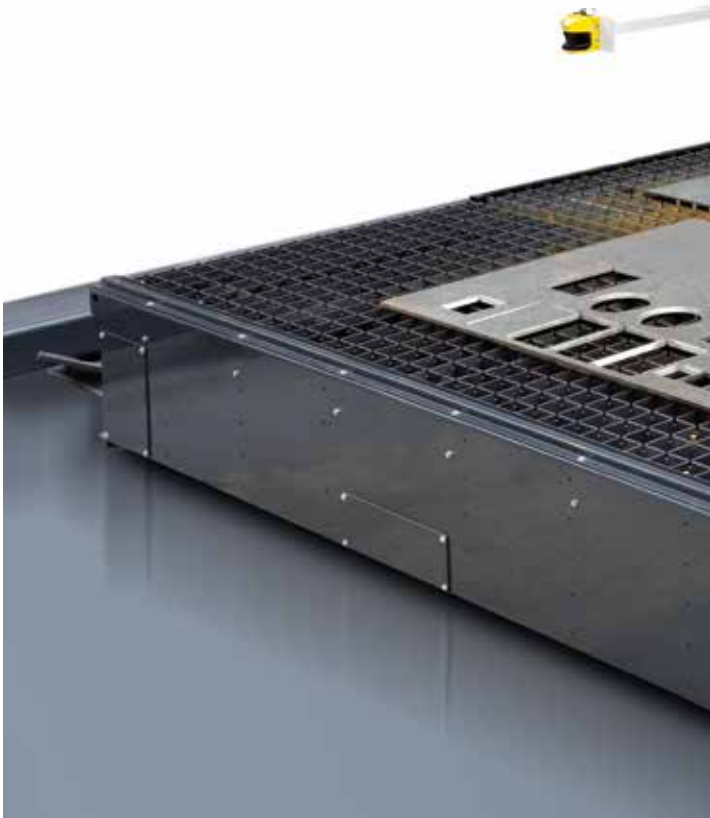
Layout locations for the positioning and welding of parts with reference points are produced with our patented scribing tool.

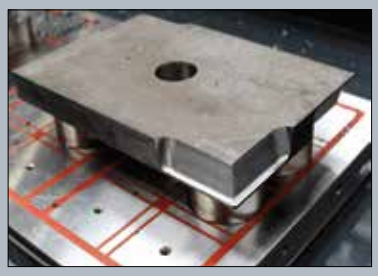
DRILLING AND TAPPING

The Gemini's high speed machining spindle allows extremely productive drilling of holes from 5 mm to 80 mm. For larger holes up to 400 mm, the Gemini can mill holes with exceptional accuracy. A tolerance of 0.1 mm on diameter and concentricity can be maintained.

The high speed spindle positioning (sub X and Y axis), combined with a wide processing window where the gantry movement and material clamping/unclamping is eliminated, provides for industry leading productivity.

For many applications, tapped holes in the components can reduce welding, fitting and assembly time. When tapping, the digital control system provides exceptionally high quality threads on tapped holes.





J groove edge beveled for deep penetration and no back welding

EDGE BEVELING

The Gemini can make weld preps (V, Y, X, K) with plasma beveling. For precision bevels, milling is more accurate and J groove bevels can also be achieved.

FACE AND SLOT MILLING

On machine parts and many structural detail items, slotted holes, milled bearing mating surfaces, etc. are required. Traditionally, these operations were performed on large machining centers or boring machines after fabrication. The accuracy of the Gemini in both cutting and machining enables many of these operations to be performed on the stock plate, thus eliminating expensive secondary operations.

GEMINI G36 HD

GEMINI G36 XD


GEMINI HD


FICEP
GEMINI HD

DOUBLE GANTRY SYSTEM: GEMINI + GEMINI OR GEMINI + KRONOS

- Reduced manpower (one operator for two machines)
- Lower total investment
- Same Fanuc controls and drives
- Common rails & table
- Less material handling & improved safety
- Reduced floor space
- Higher availability & greater flexibility
- Increased throughput capacity
- Less downtime and maintenance
- Installation of the overall system in one step, or the possibility to add the second system at a later stage

TECH SPECS

GANTRY AUTOMATIC CNC DRILLING AND THERMAL CUTTING SYSTEM FOR PLATES – GEMINI	G25SP	G32SP	G25HPE	G32HPE	G36HD	G36XD
Plate size [max. mm]	2540x6000	3100x6000	2540x6000	3100x6000	3600x6000	3600x6000
Plate thickness with plasma [max. mm]	80	80	80	80	80	80
Plasma straight torches [max. no.]	1	1	1	1	2	2
Plasma bevel torches [max. no.]	1	1	1	1	2	2
Plate thickness with oxy [max. mm]	100	100	100	100	127	150
Oxy-fuel torches [max. no.]	3	3	3	3	3	3
Drilling heads [no.]	1	1	1	1	2	2
Drilling tools per head [no.]	6	6	24	24	24	16
Drilling diameter [max. mm]	40	40	40 (250)	40 (250)	44/60 (400)	80 (400)
Drilling thickness [max. mm]	80	80	80	80	127	305
Spindle power [kW]	15	15	15	15	26	58
Spindle speed [max. RPM]	7000	7000	7000	7000	6000	4500
Machine weight [kg]	4500	4800	4500	4800	9500	15000

FICEP

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