



STEEL
CONSTRUCTION

ANGLES & FLATS
BEAMS & PIPES
PLATES
SURFACE TREATMENT
ROBOTIC WELDING
SOFTWARE & AUTOMATION



KRONOS

Automatic gantry CNC high
definition plasma & oxy
cutting system for plates



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The Kronos models HP, SP & PC are heavy duty gantry style thermal cutting systems and are ideally suited for steel fabricators who manufacture connection plates, gussets,

stiffeners, etc. from stock material. The Kronos integrates all the cutting and marking processes into one single operation to reduce material handling cost.



Oxy-fuel torches



Straight plasma torch



Drilling unit with a 6-position automatic tool changer

KRONOS HP & SP - MAIN FEATURES

The Kronos models HP & SP can be equipped with up to four oxy-fuel cutting torches, and with one or two high-definition plasma torches for straight or bevel cutting. The Kronos systems are engineered to address a wide variety of thermal cutting applications.

The Hypertherm plasma generators range from the XPR170 up to the latest XPR300. These new Hypertherm power sources incorporate several additional unique features and benefits in terms of cut quality, bevel capabilities, performance, optimized productivity and reduced operating costs and nozzle life. All models can also be equipped with Hypertherm HPR400XD.

The cutting table consists of a sturdy grid suitable to guarantee the stability of the plate during the processing. The down draft table is also pre-arranged to receive the fume exhaust and filtering system.

The Kronos systems can also be configured with an optional 20 HP Direct Drive drilling spindle with a 6-position automatic tool changer for the production of holes up to 1-9/16" and scribing operations.



Bevel plasma torch



Processes



Other section shapes



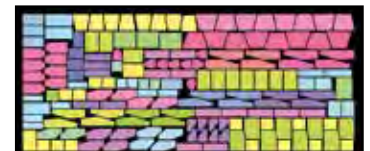
KRONOS PC Series

Designed for high-definition Hypertherm plasma cutting as the main frame is constructed of aluminum so the torch positioning can accelerate and decelerate in milliseconds to achieve the highest cut quality. The cutting table is a

welded design so the electrical cabinet can be integrated to reduce floor space and installation time. The PC Series is equipped with automatic torch height control to increase consumable life and deliver optimum cut quality.



Pegaso is the latest generation CNC for FICEP lines where the PC, CNC and PLC are all integrated into a single circuit board for maximum reliability. Pegaso is based upon a field bus technology using CanBus and EtherCAT for controlling up to 32 separate CNC axes.



Automatic plate nesting with comprehensive software



Hypertherm True Hole Technology

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DOUBLE GANTRY SYSTEM

Kronos HP & SP Series can be combined in tandem with another Kronos or with our Gemini CNC plate processor to optimize the productivity with lower costs and minimal floor space.

- Reduced manpower (one operator for two machines)
- Minimize total investment
- Same Fanuc CNC control system and drives
- Common gantry rails & cutting table
- Less material handling & improved safety
- Reduced system footprint
- Expanded capabilities and throughput
- Increased throughput capability
- Enhanced technology achieves less downtime and maintenance
- Ability to install one system now and add the second as production demands increase



ROBOTIC UNLOADING OF SMALL TO HEAVY FINISHED PARTS!

FICEP has enhanced the productivity and automation of the Gemini plate processors with the integration of an independent robotic part unloading system:

- A 4-axis robot with dual magnetic systems addresses the diversity of part sizes.
- Exceptional efficiency is achieved with the ability to robotically unload and stack finished parts while the Gemini plate processor is performing other diverse fabrication operations.
- Even the skeleton can be automatically removed to a designated area.
- Steel Projects comprehensive nesting and production software optimizes the multiple unloading and fabrication operations of the Gemini plate processor.



KRONOS Automatic gantry CNC high definition plasma & oxy cutting system for plates	KR25SP	KR32SP	KR36SP	KR25HP	KR32HP	KR36HP
Plate size [max. inch]	100" x 236"	122" x 236"	141" x 236"	100" x 236"	122" x 236"	141" x 236"
Plate thickness with plasma [max. inch]	2"	2"	2"	3"	3"	3"
Plasma straight torches [max. no.]	1	1	1	2	2	2
Plasma bevel torches [max. no.]	1	1	1	2	2	2
Plate thickness with oxy [max. inch]	6"	6"	6"	6"	6"	6"
Oxy-fuel torches [max. no.]	4	4	4	4	4	4
Drilling heads [max. no.]	1	1	1	1	1	1
Drilling tools per head [max.no]	6	6	6	6	6	6
Drilling diameter [max. inch]	1-9/16"	1-9/16"	1-9/16"	1-9/16"	1-9/16"	1-9/16"
Spindle power [HP]	20	20	20	20	20	20
Spindle speed [max. RPM]	6000	6000	6000	6000	6000	6000
Machine weight [lbs.]	5,500	6,200	6,600	5,500	6,200	6,600

KRONOS Automatic gantry CNC high definition plasma cutting system for plates	KR153PC	KR204PC	KR206PC	KR208PC
Plate size [max. inch]	59" x 118"	78-3/4" x 157"	78-3/4" x 236"	78-3/4" x 315"
Plate thickness with plasma [max. inch]	2"	2"	2"	2"
Plasma straight torches [max. no.]	1	1	1	1
Machine weight [lbs.]	8,800	11,000	16,500	22,000

TECH SPECS