

GANTRY EAGLE

800



Axis-Travel: X / Y / Z
21.6 / 33.4 / 17.7"

Work-Tank: W / D / H
31.5 / 43.3 / 18.9"

- Ingersoll introduces the new EAGLE POWERTEC Touch Screen Control using 2 x 32-bit PC/NC processors, a Sercos interface at .25ms cycle time and Windows XP OS.
- EAGLE POWERTEC - Generator PT 60 is the worlds first "**Adaptive Current-Shape**" power supply. Each discharge pulse calculates and creates the ideal current shape to match the exact discharge requirements of the moment.
- The Gantry Eagle 800 also features EAGLE POWER JUMP which now provides jump speeds up to 18 m/min.(708"/min) which can improve processing time by 50%.

OPS  INGERSOILL
Fly with the eagle!

MC MACHINERY
SYSTEMS, INC.
a subsidiary of  Mitsubishi Corporation

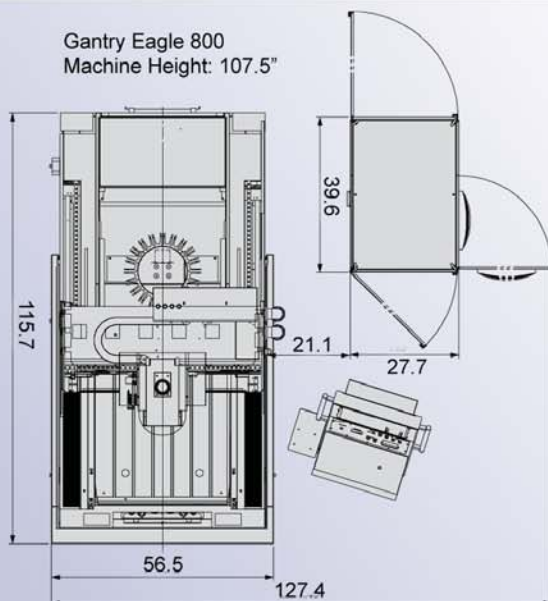


The Gantry EAGLE 800 provides a flexible and future-orientated solution for the EDM tasks of the tool and mold industry.

GANTRY 800 Technical Specifications

Axis Travels (X x Y x Z)	in	21.7 x 33.4 x 17.7
Worktank Internal Dimensions (W x D x H)	in	31.5 x 43.3 x 18.8
Max Dielectric Fluid Level	in	17.7
Table Dimensions (W x D)	in	29.9 x 39.4
Max Workpiece Weight	lb	4,409
Max Electrode Weight	lb	440
Table to Ram Platen Distance min/max	in	5.3 / 23.0
Rapid Travel Speed (in/min)	in	196.8
Machine Install Dim (W x D x H)	in	127.4 x 142.7 x 107.5
Machine System Weight (wet)	lb	14,130
Fluid System Capacity	gal	212
Filtering Method/ Size	Sq/ft	2 Paper Cartridge 215
ATC Standard (Rotary)	pos	20
ATC Optional (Rotary)	pos	30
C-Axis RPM (Adjustable)	RPM	1 ~ 20
Max Single Electrode Weight ATC	lb	33
Max Total Load 20 Pos ATC	lb	132
Min Indexing Angle	Deg	0.001
Power Supply Peak Current STD (optional)	AMPS	PT60 = 83 (PT100=110)
Required 3-Phase	V	400 fused to 32 AMP
Current Draw Continual Load	kVA	16.0
Automatic Lubrication System		Standard

Gantry Eagle 800
Machine Height: 107.5"



EAGLE POWERTEC

Generator-Technology

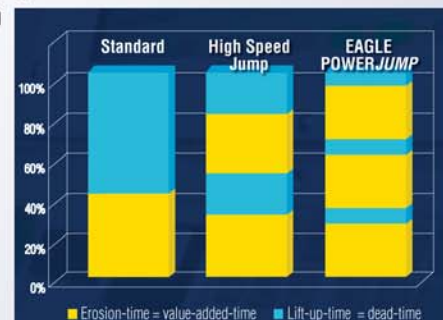
Introducing the worlds first EDM power supply with "Adaptive Current-Shape" By means of high-speed monitoring and process control, rough machining speed is doubled while the spark gap is reduced. At the same time electrode wear is dramatically reduced providing much improved accuracy and finish.



EAGLE POWER JUMP

Higher Jump-Speed: up to 18 m/min.

Processing time can be reduced by as much as 50% due to the effectiveness of the upgraded ratio between erosion time and lift-off-time. A shorter dead-time creates a shorter burn cycle which in-turn provides higher process-stability in difficult burning conditions.



Comparison of burn-time vs dead-time

Drives

Highest Precision

The High-Performance Servo-System accelerates the Z-axis with 1.4 G to an interval-speed of more than 18m/min. A specially designed ball screw along with an optimized lubrication and cooling system were developed to maintain reliability. An improved measuring system in the Z-axis was developed to ensure high precision and long life of the machine components providing premium results for all EDM applications.



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