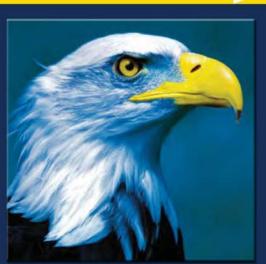
# Gantry Eagle 1400



**Axis-Travel: X / Y / Z** 49.2 / 90.1 / 27.5"

Work-Tank: W / D / H 59.4 / 101.2 / 31.1"



- 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 1400 also features EAGLE POWER *JUMP* which now provides jump speeds up to 18 m/min.(708"/min) which can improve processing time by 50%.

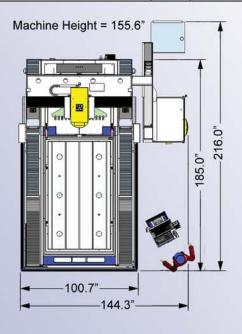






## **GANTRY 1400** Technical Specifications

Axis Travels (X x Y x Z)       in       49.2 x 90.1 x 27.5         Worktank Internal Dimensions (W x D x H)       in       59.4 x 101.2 x 31.1         Max Dielectric Fluid Level       In       29.5         Table Dimensions (W x D)       in       52.7 x 94.9         Max Workpiece Weight       Ib       22,046         Max Electrode Weight       Ib       660         Table to Ram Platen Distance min/max       in       7.8 / 35.4         Rapid Travel Speed (in/min)       in       196.8         Machine Install Dim (W x D x H)       in       158 x 185 x 155.6         Machine System Weight (wet)       Ib       41,890
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Machine System Weight (wet) Ib 41,890
Fluid System Capacity gal 1,585
Filtering Method/ Size Sq/ft 4 Paper Cartridge 344
ATC Standard (Linear) pos 13
ATC Optional (Rotary) pos 30, 48, 18/+2 Pallet
C-Axis RPM (Adjustable) RPM 1 ~ 20
Max Single Electrode Weight ATC Ib 55
Max Total Load 13 Pos ATC Ib 330
Min Indexing Angle Deg 0.001
Power Supply Peak Current STD (optional) AMPs PT60 = 83 (PT100=110
Required 3-Phase V 400 Fused to 50 AMP
Current Draw Continual Load kVA 23.0
Automatic Lubrication System Standard





The Gantry EAGLE 1400 provides a flexible and future-orientated solution for the EDM tasks of the tool and mold industry.

#### **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.

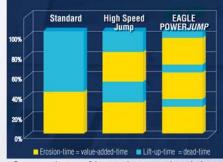


### **EAGLE POWER JUMP**

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 inturn provides higher process-stability in difficult burning conditions.



Comparison of burn-time vs dead-time

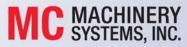
#### **Drives**

**Highest Precision** 

The High-Performance Servo-System accelerates the Z-axis with 1.4 G to an interval-speed up to as much as 18m/min. A specialy 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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