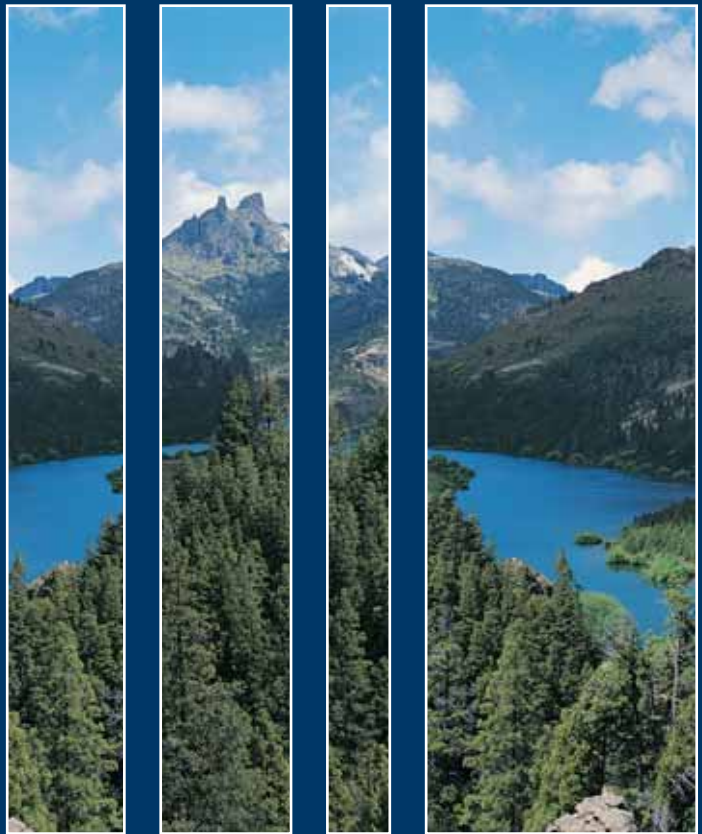


Precision Machining

M S A P R O D U C T S



S O L U T I O N S Y O U C A N B U I L D O N



MAGNET-SCHULTZ OF AMERICA
SPECIALISTS IN ELECTROMAGNETIC DEVICES

SCALING THE HEIGHTS OF QUALITY AND PERFORMANCE

Magnet-Schultz of America is a leading innovator and manufacturer of precision machined components, electro-mechanical devices and value added assemblies. We are committed to providing our customers with:

- Innovative ideas and designs, which reduce time to market and save you money
- Superior, consistent quality
- Assurance that your order will be completed to specification and on time
- Globally competitive value

Our **CNC machining capabilities** are well suited to meet our customers' most demanding requirements. The equipment we have, coupled with the years of experience of our operators, allows us to provide products to a broad spectrum

of precision sensitive, high-tech industries (such as hydraulic valves, medical equipment, instrumentation, beverage dispensing, sensors, engine controls, security systems, motors and more).

The **advanced engineering and design capabilities**, which allow our electro-mechanical products to participate in highly custom, very sophisticated applications, also enable us to better understand the broader challenges of our customers' machining applications. This insight into the "big picture" provides us with unique ability to either build to print, or to help further refine dimensions and tolerances in an effort to improve performance and reduce cost.

Our **experienced engineering review team and support services**, together with our lean manufacturing and vertical

integration, provide the flexibility needed to meet your ever-changing requirements, on-time delivery and total customer service. Our ability to fully understand, and our willingness to successfully take on difficult machining challenges, are the reasons why customers come back to Magnet-Schultz of America, project after project.

To achieve maximum performance, safety and overall mutual success in challenging applications, we ask our customers to participate in defining application-specific performance and testing criteria. Ultimately, we rely on the customer's qualification process to ensure that our products meet all requirements of their application.

MSA has been ISO9001 certified since 2000, and achieved ISO9001:2000 in 2003.

OUR CAPABILITIES

Magnet-Schultz of America offers experienced CNC, precision machining services for a wide range of ferrous and non-ferrous materials, including carbon steel, stainless steels, brass alloys, aluminum and plastics. We also offer complete turn key scenarios which include extensive finishing services, as well as assembly.

FINISHING AND OTHER SERVICES

Magnet-Schultz of America has developed strong partnerships with area finishing suppliers who are capable of providing plating, anodizing, phosphating, plastic coating, and many other processes to meet our customers' specific needs.

We offer heat treatment of many different metal and alloy components to meet each customer's specifications.

Also available are various grinding procedures such as centerless grinding, profile grinding and double-disc grinding.

Additional services include: complete CAD/CAM capabilities, mechanical assembly of components, welding, staking, riveting, and over-molding of machine components and assemblies.



MEDICAL



ELECTRICAL SWITCHGEAR



MOTORS

SWISS CNC TURNING



Magnet-Schultz of America has extensive Swiss CNC Turning capabilities, offering high speed, high quality processes for demanding component designs and applications.

Citizen L32 and L20

- 1 1/4" (32 mm) Max. Diameter Stock (L20)
- 25/32" (20 mm) Max. Diameter Stock (L32)
- Live Tooling Options (Cross Drill and Mill)
- Sub Spindle
- ID Thread Whirling
- ID Wobble Broaching
- IEMCA Bar Loading

Tsugami S20 6 Axis Lathe

- 1/4" (6.35 mm) Min. Diameter Stock
- 1 5/8" (41 mm) Max. Diameter Stock
- Live Tooling Options
- Sub Spindle
- Programmable C Axis
- 12 Station Main Turret
- 6 Station Sub Spindle Turret
- L&S Bar Loading

CNC LATHES



Magnet-Schultz of America has extensive CNC lathe capability, including Eurotec, Nakamura and Okuma machines, providing the tight tolerances needed for more complex designs.

Eurotech 420 SLLY Multi Axis Lathe

- Two Spindle/Two Turret
- Full 5 Axis Turning and Milling Capability
- Maximum thru-Spindle Stock Diameter: 1 49/64"
- Maximum Machining Length: 15"
- Polygonal Turning/Cutting
- Thread Rolling
- Tool Life Management

Nakamura SC300MB

- Two Spindle/Single Turret
- 3" Through Spindle Maximum Diameter Stock
- Polygon Cutting
- Thread Rolling
- Maximum Machining Length: 23"
- Live Tooling C-Axis Contouring
- Tool Life Management

QUALITY ASSURANCE



Magnet-Schultz of America employs a robust quality system, certified to ISO9001:2000. Utilizing SPC and other advanced statistical techniques, MSA is capable of meeting your highest quality expectations.

Brown and Sharp Profile 50 Vision System

- Part size capacity up to: 50 mm in diameter, 250 mm in length
- Measurement options include: static length, diameter, radii and thread forms
- Complete SPC capability

Seiko Instruments SF157

- To determine plating/coating thickness

Mahr Federal Perthometer

- For tight tolerance contour measurement

DEA Swift Coordinate Measurement Machine (CMM)

- Work envelope of 20" x 16" x 13"
- Measurement accuracy of +/- .0002"

Mahr Federal Formscan 6100

- For tight tolerance roundness measurements



HYDRAULIC VALVES



BEVERAGE DISPENSERS



COMMERCIAL CONTROLS

Founded in the western suburbs of Chicago in 1955 as Regdon Solenoid, the company was acquired in 1987 by Magnet-Schultz Memmingen (MSM) in Germany. With more than 1600 employees, MSM is the World's largest independent manufacturer of high quality solenoids and electromagnetic products. Since becoming part of Magnet-Schultz World-Wide, Magnet-Schultz of America (MSA) has significantly expanded its operations to over 150 employees, working out of a 42,000 square foot facility (located in Westmont, IL, 22 miles west of downtown Chicago, and 15 miles south of O'Hare International Airport).



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