MINSTER

A NIDEC PRESS & AUTOMATION CO.

# CAPABILITIES & EQUIPMENT LIST

ITAR COMPLIANT | ISO 9001:2015 CERTIFIED | DDTC REGISTERED

MINSTER, OHIO USA

## MACHINING FACILITY

## 136,000 SQ. FT

**Material Types:** Steel/Cast Iron/Aluminum **Programming Languages:** SiemensNX & GibbsCam **Overhead Cranes:** 80 Ton - Max. Crane Capacity

| MACHINE TYPE | QTY. | DESCRIPTION | X | Y | Z/W | DIA. | ADDITIONAL DETAILS |
|---|---|---|---|---|---|---|---|
| Personnel Specialty Services | | | | | | | • Average Tenure: 10+ Years<br>• Manufacturing engineering for process design |
| **Bridge Mill** | 5 | CNC Bridge Mill | 263"<br>*6,680 mm* | 145"<br>*3,683 mm* | 39/51"<br>*1,295 mm* | | • Tool Changer = 180<br>• Spindle Units = 7 including Universal Head<br>• 3D Compensation Technology<br>• Quick Setup Schunk Air System |
| **Large Bridge Mill** | 2 | Pama CNC Bridge Mill | 610"<br>*5,494 mm* | 240"<br>*6,096 mm* | 59/83"<br>*2,108 mm* | | • Tool Changer = 200<br>• Spindle Units = 10 including Universal Head<br>• Pallet system with the ability to use both tables together |
| **Gear Cutting** | 3 | Gear Shaper | | | 18"<br>*457 mm* | 67.5"<br>*1,715 mm* | • Large gear teeth cutting capabilities for left hand helix, right hand helix and spur gears |
| **Grinder** | 1 | Surface Grinder | 96"<br>*2,438 mm* | 36"<br>*915 mm* | 36"<br>*915mm* | | • Grinding plates flat within .0002"/ft |
| **HMC** | 3 | CNC Horizontal Milling Center | 51"<br>*1,295 mm* | 43"<br>*1,092 mm* | 49"<br>*1,244 mm* | | • Tool Changer = 171<br>• 2 Pallet System |
| **HBM** | 1 | CNC Horizontal Boring Machine | 288"<br>*7,315 mm* | 119"<br>*3,022 mm* | 36/48"<br>*1,219 mm* | | • Right angle head<br>• 2 Tables<br>• 6" spindle extends out 35" for deep boring. Can be used in combination with the table for a bore length of 83" long |
| **Lathe** | 4 | CNC Horizontal Lathe | | | 59"<br>*1,498 mm* | 19.5"<br>*495 mm* | • 2 turrets<br>• 1 tail-stock |
| **Millturn** | 2 | CNC Mill Turn Center | 35"<br>*889 mm* | 25.6"<br>*650 mm* | 248"<br>*6,300 mm* | 38.5"<br>*978 mm* | • Tool Changer = 104<br>• 2 steady rests<br>• Max. turning diameter = 40"<br>• Max. Length = 250" |
| **VMC** | 4 | CNC Vertical Milling Center | 138"<br>*3,505 mm* | 42"<br>*1,066 mm* | 28"<br>*711 mm* | | • Equipped with Blum Laser |
| **VTL** | 3 | CNC Vertical Lathe | | 64.9"<br>*1,648 mm* | | 78.7"<br>*1,909 mm* | • Heavy turning parts. 2 heads, 90 degree fixed and 1 universal head for angles, 48 tool changer |

## WELD FACILITY

## 39,000 SQ. FT

| DESCRIPTION | ADDITIONAL DETAILS |
|---|---|
| Personnel Specialty Services | • All welders have 6 Certifications based on AWS standard<br>• 2 American Welding Society (AWS) Certified Welding Inspectors (CWIs)<br>• Metallurgical Engineer |
| Weld Positioners | • 10 weld positioners capacity range 4.5 ton - 350 ton *(4,082 kg - 317,515 kg)* - 360 degree travel |
| Flame Beveling | • 4.5 ton - 350 ton *(4,082 kg - 317,515 kg)* |
| Forming (750T press brake) | |
| Band Saw + Iron Worker Capabilities | |
| Heat Treating, Stress Relief Furnace | • Max. temperature = 1700°F *(927°C)*<br>• Work envelope = 12' x 27' x 12' *(3,658 mm x 8,230 mm x 3,658 mm)*<br>• Max. table load = 30 tons *(16,330 kg)* |
| Shot Blast | • Work envelope = 27' x 9.8' x 9.8' *(8,230 mm x 2,940 mm x 2,940 mm)*<br>• Max. table load = 18 ton *(16,330 kg)* |
| Small & Large Assembly Areas | |
| Prime/Paint & Fill Capabilities | |
| Plasma Plate Burning | • Up to 2" *(50.8 mm)* thick |
| Oxy-Fuel Plate Burning | • Up to 25" *(635 mm)* thick |
| Gas Metal Arc (Metal Core) Weld Processes - .045 FCAW | • .045"/.0625" *(1.143 mm/1.588 mm)* give superior deposition rate, penetration and low slag |

**ADDITIONAL VALUE ADDED SERVICES:** Shot Blast, Heat Treating, Forming, Prime/Paint

## QUALITY

| MACHINE TYPE | QTY. | DESCRIPTION | X | Y | Z/W | ADDITIONAL DETAILS |
|---|---|---|---|---|---|---|
| CMM | 1 | Coordinate Measuring Machine | 118"<br>*2,998 mm* | 236"<br>*5,995 mm* | 78.7"<br>*1,998 mm* | • Scanning Head<br>• Articulating Head |
| CMM | 1 | Coordinate Measuring Machine | 47.2"<br>*1,085 mm* | 94.5"<br>*2,400 mm* | 39.4"<br>*1,001 mm* | • Scanning Head<br>• Articulating Head |
| Surface Plates | 7 | Granite Rock Surface Plates | 132"<br>*3,353 mm* | 216"<br>*5,486 mm* | 31"<br>*787 mm* | • For parts checjed with guages<br>• Larges surface plate specifications shown |

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# CAPABILITIES & EQUIPMENT LIST

QUERÉTARO, MEXICO

## MACHINING FACILITY

## 100,000 SQ. FT

**Material Types:** Steel/Cast Iron/Aluminum

**Overhead Cranes:** 75 + 15 Ton Max. Crane Capacity

| MACHINE TYPE | QTY. | DESCRIPTION | X | Y | Z/W | DIA. | ADDITIONAL DETAILS |
|---|---|---|---|---|---|---|---|
| Crane Capacity | | | | | | | • (10) – 35+10T Machining Area<br>• (3) – 75+15T Assembly Bays |
| HMC | 1 | CNC Horizontal Milling Center | 55.12"<br>*1,400 mm* | 47.24"<br>*1,200 mm* | 53"<br>*1,350 mm* | | • Tool Changer = 171<br>• 2 Pallet System |
| Lathe | 1 | CNC Horizontal Lathe | | | 61.81"<br>*1,570 mm* | 21.65"<br>*550 mm* | • 2 turrets<br>• 1 tail-stock |
| CMM | 1 | Coordinate Measure Machine | 47.24"<br>*1.2 mm* | 94.9"<br>*2.4 m* | 37.37"<br>*1 m* | | • Scanning head<br>• Articulating head |

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