

MICRO SPACE PRODUCTS

2024 Equipment List

MOST RECENT ADDITIONS

- 2023 Doosan Lynx 2100A (October 2022)
- Keyence Optical Comparator (December 2022)
- EMCO (December 2022)
- 2023 Sodick Hole Popper EDM Machine (January 2023)
- COBOT (Robot Arm) (December 2023)

MANUFACTURING EQUIPMENT

Doosan Lynx 2100 L (2022)

- Max turning Diameter 13.8 inches
- Max turning Length 21.7 inches
- 2.6 thru Spindle Feed
- 6000 RPM 15hp 8 in Main Spindle
- 12 Station Tool Turret
- Bar Feed Ready

Doosan Lynx 2100 L (2019)

- Max turning Diameter 13.8 inches
- Max turning Length 21.7 inches
- 2.6 thru Spindle Feed
- 6000 RPM 15hp 8 in Main Spindle
- 12 Station Tool Turret
- Bar Feed Ready

Doosan Puma GT2100 CNC Lathe (2018)

- Max turning Diameter 13.8 inches
- Max turning Length 21.7 inches
- 2.6 thru Spindle Feed
- 6000 RPM 15hp 8 in Main Spindle
- 12 Station Tool Turret
- Bar feed ready
- Hard turning capable Inconel/Monel type materials

Doosan Lynx (2018)

- Max turning Diameter 13.8 inches
- Max turning Length 21.7 inches
- 2.6 thru Spindle Feed
- 6000 RPM 15hp 8 in Main Spindle
- 12 Station Tool Turret
- Bar feed ready

Doosan Lynx 2100 LMS (2017) Twin-Spindle Lathe

- Max turning Diameter 13.8 inches
- Max turning Length 21.7 inches
- 2.6 thru Spindle Feed
- 6000 RPM 15hp 8-inch Main Spindle
- 6000 RPM 5 HP 5-inch Live Sub Spindle
- Live tooling for milling operations
- Live sub spindle
- 12 Station Tool Turret
- Bar Feed Ready

Doosan Lynx 2100 L (2024)

- Max turning Diameter 13.8 inches
- Max turning Length 21.7 inches
- 2.6 thru Spindle Feed
- 6000 RPM 15hp 8 in Main Spindle
- 12 Station Tool Turret
- Bar Feed Ready

Doosan Lynx 2100 L (2023)

- Max turning Diameter 13.8 inches
- Max turning Length 21.7 inches
- 2.6 thru Spindle Feed
- 6000 RPM 15hp 8 in Main Spindle
- 12 Station Tool Turret
- Bar Feed Ready

Doosan Lynx 2100 L (2022)

- Max turning Diameter 13.8 inches
- Max turning Length 21.7 inches
- 2.6 thru Spindle Feed
- 6000 RPM 15hp 8 in Main Spindle
- 12 Station Tool Turret
- Bar Feed Ready

Hurco VM20I (2021)

- 3-axis & 4-axis simultaneous milling, high speed machining
- Complex machining
- Thru spindle coolant
- Hurco 4th axis, Haas 4th axis indexer
- Conversational/NC programming
- 40" by 20" by 20" work area

Hurco VM20I (2018)

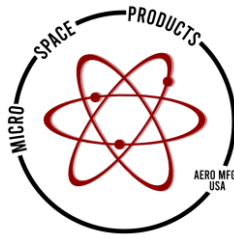
- 3-axis & 4-axis simultaneous milling, high speed machining
- Complex machining
- Thru spindle coolant
- Hurco 4th axis, Haas 4th axis indexer
- Conversational/NC programming
- 40" by 20" by 20" work area

Hurco VM10I (2024)

- 3-axis & 4-axis simultaneous milling, high speed machining
- Complex machining
- Thru spindle coolant
- Hurco 4th axis, Haas 4th axis indexer
- Conversational/NC programming
- 40" by 20" by 20" work area

Hurco VM10I (2019)

- 3-axis & 4-axis simultaneous milling, high speed machining
- Complex machining
- Thru spindle coolant
- Hurco 4th axis, Haas 4 axis indexer
- Conversational/NC programming



Emco Maier E45 Multi-Axis Mill-Turn CNC Lathe (2008)

- 6,000 RPM spindle
- 1.5" DIA thru spindle
- 6,000 RPM live tool turret
- 12 station high pressure thru turret coolant
- High-speed and nano-smoothing machining
- Fine surface technology combined with shortest cycle times
- Benchmark in terms of productivity / availability
- Quick change tooling/setup
- Short bar loader Emco SL 1200

Emco Maier 345 II Multi-Axis Mill-Turn CNC Lathe (2002)

- 6,000 RPM spindle
- 1.5" DIA thru spindle
- 6,000 RPM live tool turret
- 12 station high pressure thru turret coolant
- High-speed and nano-smoothing machining
- Fine surface technology combined with shortest cycle times
- Benchmark in terms of productivity / availability
- Quick change tooling/setup
- Short bar loader Emco SL 1200

Emco Maier 345 Multi-Axis Mill-Turn CNC Lathe (2002)

- 1.5" DIA thru spindle
- 6,000 RPM live tool turret
- 12 station high pressure thru turret coolant
- High-speed and nano-smoothing machining
- Fine surface technology combined with shortest cycle times
- Benchmark in terms of productivity / availability
- Quick change tooling/setup

3x Hardinge Tool Room Lathes Model HLV-H

- 3000 Max RPM
- 5C Collet Spindle Head
- 8-inch Max Turning Diameter
- 1.5 hp

COSEN C-260NC Bandsaw

- Max cutting capacity: 10" round
- Auto feed system
- Stores up to 100 jobs

Bridgeport Mill

- 1 hp
- 9" x 42" table size
- Power Feed
- 4,200 Max RPM
- With Proto Trax 3-axis controls
- Fully programmable

Desktop Fiber 30W Laser Engraver

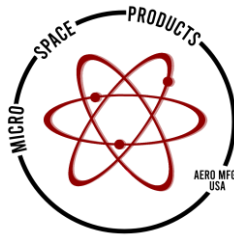
- 1.5X Reversible Beam Expander
- Focusing Lens
- Leopardmark Laser Marking Software
- Foot switch for hands free laser operation

2023 Sodick Hole Popper EDM Machine

- Hole popper EDM machine from .010 dual hole thru .118 DIA Focusing Lens
- Perfect for wire holes/safety lock wire

Cobot (Robot Arm)

- Lights out machining
- Lower cost per part than traditional machining
- Precise work
- Quick turn around / Shorter lead times



INSPECTION EQUIPMENT

Mitutoyo BH706 CMM

- Measuring Range:28"x24"x18"
- Software: Nikon CMM Manager
- Probing System: Renishaw MH8

Scherr-Tumico Video Inspection System

- 10" x 14" Work Table
- 30-180X Parfocal Zoom
- .0001 accuracy
- Programmable QC300 Readout

Scherr-Tumico Optical Comparator PS-1500

- 14" Readout Display
- .0005 Accuracy

Mitutoyo B120 Coordinate Measuring Machine

- Measuring range 20" by 20" by 12"
- .0001 accuracy
- IK 5000 Computer Software (Quadrachek)

Keyence Optical Comparator

- Automated measurement tool
- At the push of a button, it can check all outside dimensions of a part including threads data
- Checks in 10 seconds or less

Mitutoyo Ph-A14 Optical Comparator

- .0001 accuracy
- Quick check system

Miscellaneous Inspection Tools

- 0-1 Etalon Indicating Micrometers
- 1-2 Etalon Indicating Micrometer
- 2-3 Mitutoyo Indicating Micrometer
- 0-6 Marh Federal Digital Caliper
- 0-6 Mitutoyo Digital Micrometer
- 0-12 Caliper
- Mitutoyo Micrometer from 0 thru 6 inches
- Mitutoyo 18" Height Gage
- Mitutoyo 24" Height Gage
- Mitutoyo Height Master .0001 accuracy 0-31"
- Mitutoyo SJ-210 Profilometer
- 3x Sunnen ID Bore Gages .00005 Accuracy

FUTURE INVESTMENTS

- 2021 Hurco VM10U (5 axis)
- 2023 Cylindrical Grinder
- 2023 Plunge Grinder