Capability Summary Hegins Production Facility



Machining | Fabrication | Welding | Powder Coating

CNC Machining

- Integrated Turning & Milling
- CNC Vertical Milling with CNC Rotary Tables
 - VF2 32X16X20 Capacity
 - VF3 50x20x20 Capacity
 - VF4(4) w/ Pallet Changer 50x20x20 Capacity
 - VF5 50x26x25 Capacity
 - VF6 64x32x25 Capacity
- CNC Horizontal Milling
 - EC-400 w/ Pallet Changer 20x20x20 Capacity
- CNC Turning with Bar Feeders
 - ST10 w/ Live Tooling 7.5x16 Capacity
 - SL10 w/ Bar Feeder 7.5x16 Capacity
 - ST20 w/ Live Tooling, Spindle & Bar feeder
 - SL20(2) w/ Cobot & Bar Feeder 20x10 Capacity
- CNC Automated Precision Sawing
- Automated Robotic Loading/Unloading System
- Manual Turning up to 16" dia x 60"L
- Manual Milling 9" x 50" Table Size
- Additional Job Shop Machining Services
- Material Types: Stainless Steel, Carbon Steel, Aluminum, Brass, Bronze, Plastics, and some S pecialty Materials

Fabrication

- Laser Cutting: 4000-Watt Fiber Laser (5' x 10' table) w/ Fully Automated Load/Unload System
 - o Materials and Thickness Capabilities
 - o Mild Steel (Up to 1")
 - o Stainless Steel (Up to 1/2")
 - Aluminum (Up to 1/2")
- CNC Press Brakes: 3 precision breaks offering accuracy and repeatable forming for all production levels(Up to 250 ton x 12')
- **CNC Shearing:** (1/4" x 10')
- **PEM Insertion**: Automated PEM with feed system
- **Pipe Bending**: Rotary-draw bending up to 2"Sch-40 pipe, manual indexing for repeat precision on small to mid-size runs.
- Saw Cutting:
 - Automated for repeat cut accuracy & volume throughput
 - o Manual cutting up to 15" x 15" envelope







Welding

- 24 Welding Machines MIG, TIG, SMAW
- Certified Welding AWS D1.1 Comply with all applicable Domestic and International welding codes for structural fabrication.

Finishing

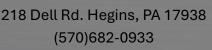
- Finish Prep: Timesaver with integrated edgerounding capability
- Powder Coating (24'L x 10'H x 10'W)
- Sandblasting (20'L x 10'H x 10'W)
- Wet Spray Systems (18'L x 10'H x 10'W)
- Heat Treating Grinding
- All Plating Types, Electro-pilish, & Anodizing

















Capability Summary Delano Assembly Facility



Machining | Fabrication | Welding | Powder Coating

3D Printing

Printer Properties

- Process Fused Filament Fabrication,
 Continuous Filament Fabrication
- Build Volume 330 x 270 x 200 mm (13 x 10.6 x 7.9 in)
- Print Bed Kinematic coupling flat to within 80 µm
- Laser In-process inspection, active print calibration, bed leveling
- Extrusion System Second-generation extruder, out-of-plastic and out-of-fiber detection

Materials

- Plastics Available Onyx, Onyx FR, Onyx ESD, Nylon White
- Fibers Available Carbon fiber, fiberglass, Kevlar®, HSHT fiberglass
- Tensile Strength 800 MPa (25.8x ABS, 2.6x 6061-T6 Aluminum
- Tensile Modulus 60 GPa (26.9x ABS, 0.87x 6061-T6 Aluminum)

Part Properties

- Layer Height 100 μm default, 50 μm minimum, 250 μm maximum
- Infill Closed cell infill: multiple geometries available

Engineering Collaboration

- Concept to full production in collaboration with our sister company, Skyline Attractions
- 2D/3D Modeling Design SolidWorks, SolidCAM, Autodesk
- Full Integration of Mechanical Components -Motors, Electronics, Circuit Boards, Controls
- Project Consultation & Management
- "Design-For-Manufacturing" Engineering Review
- 3D Scanning and Reverse Engineering Available

Assembly & Fulfillment

- 40,000sf Dedicated Assembly/Testing Facility
- Complete Fulfillment Logistics to End Users
 - Direct Drop Shipment
 - Warehousing & Inventory Management
 - Customer Supplied Instructions / Manuals
 - Arranging Transportation Services
- Scope of Assembly Services
 - Electrical Wiring
 - Circuit Board Integration
 - Motors and Drives Install and Testing
 - Software Integration and Testing UL Certification (3rd Party) Available
 - Hydraulic/Pneumatic Integration
 - Hardware Kits
 - o Graphics Dev/Printing/Application
 - Lighting installation and testing
- Custom Packaging Solutions
 - Standard Packaging & Crating
 - Custom Retail Style Packaging
 - Unique Custom Labeling
 - o UPC/Barcode labeling











