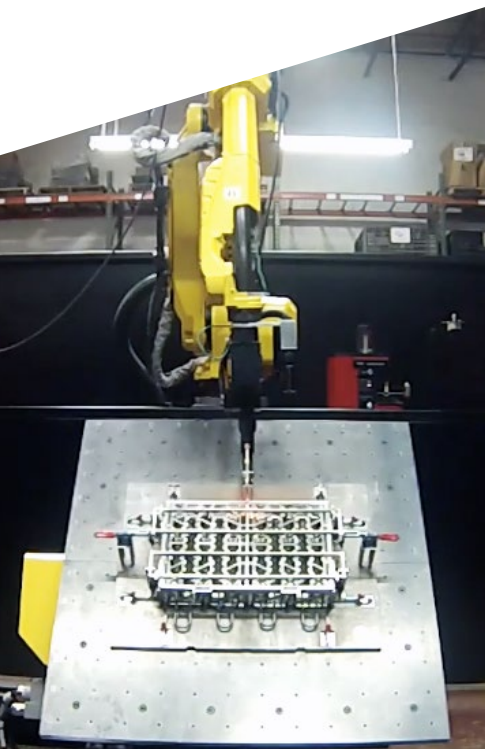


Fact Sheet

Quality Engineered Quick®

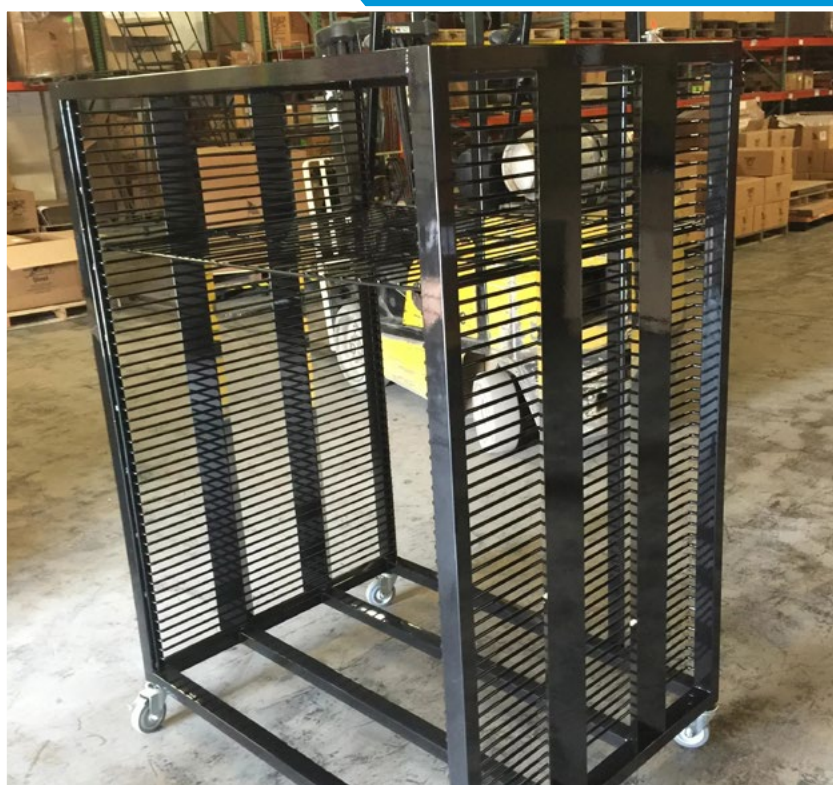
# Marlin Steel Wire Products





# Summary

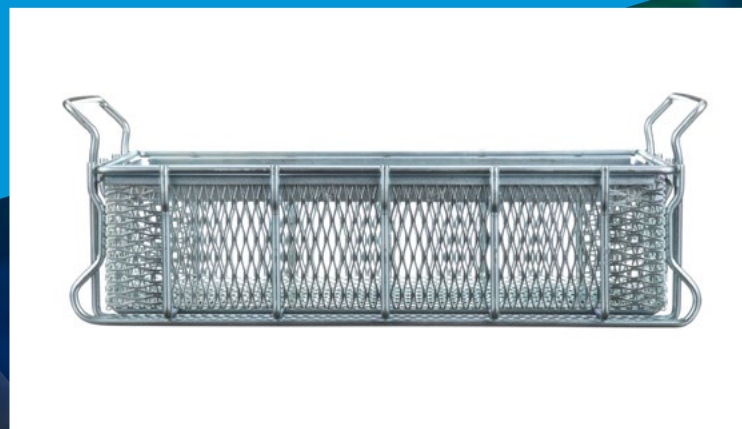
Marlin Steel is the leading manufacturer of custom-engineered products of steel wire and sheet metal. Marlin's industrial material handling containers serve many industries, including aerospace, defense, medical and automotive.



- Privately owned
- Non-union
- Established in 1968 in Brooklyn, N.Y. Moved to Baltimore in 1999
- Enterprise Zone and Small Business
- 100% USA Made

## *Clients Include*

AAI, Alcoa, Amgen, AstraZeneca, BAE Systems, Bell Helicopter, Beretta, Boeing, BorgWarner, Caterpillar, Cessna Aircraft, Cummins, Delta Airlines, DRS Technologies, Dow Chemical, General Dynamics, General Electric, GKN, GM, Ford, Hitachi, Honda, J & J, Lockheed Martin, Los Alamos National Laboratory, Marathon, Merck, NASA, Pfizer, Pratt Whitney, Roche, Sikorsky Aircraft, Timken, Toyota, United Airlines, UTC





# Overview



## Quality

- Registered ISO 9001: 2015.
- World-class standard for quality control systems.

## Safety

Milestone record of 2688 days without a lost time accident. Marlin Steel is SHARP accredited, a level of safety achieved by only five companies in Maryland.



US Secretary of Labor Acosta with the Marlin Team

## US Patents

- Cable Access Trays - Utility
- Medical Baskets - Utility
- Material Handling Baskets - Patent Pending - Utility & 2 Design
- Expanded Metal Baskets - Design

## Engineering - 20% of Marlin's Team

Marlin Steel's team of engineers have the training, experience, and tools to design and build the perfect custom steel basket for almost any application. Fully five percent of Marlin's labor budget is dedicated to training, nearly five times what other precision metal-forming companies invest on training.

This helps to ensure that Marlin's engineers are up-to-date with the latest developments in materials science and manufacturing techniques. This knowledge is applied to every job at Marlin, fueling efficiency and innovation every single day.

These innovations aren't made blindly, either. On every design, the Marlin Steel engineering team uses Autodesk Stress Analysis Software to ensure that customer products will perform as intended in a defined load environment.

This stress analysis software can anticipate possible failure modes so the engineering team can design against them—all without spending one red cent on a tooling and production for a physical prototype.

Benefits of using physics simulation software include:

- Reduced costs
- Improved product performance
- Accelerated time-to-market for basket designs





# Overview

(Cont.)



Senator Cardin, Mayor Rawlings Blake, President Drew Greenblatt, Congressman Dutch Rupersberger, Congressman Sarbanes

## Awards

- 2018 Forbes Small Giants Award
- 2018 Outstanding Exporter Award
- Named to the Inner City 100 two years in a row (2012-2013) by ICC. One of the 100 fastest-growing companies based in a U.S. city.
- Marlin Steel was ranked as the 162nd fastest growing private manufacturer in U.S. by Inc. magazine on its "5000" list of fast-growing U.S. companies.
- Won the Precision Metalforming Pioneer award in 2013, one of three U.S. companies chosen by Precision Metalforming Association and The Hitachi Foundation.



US Secretary of Treasury Timothy Geithner with Dr. Marshal Greenblatt reviewing Marlin Steel's USA made technology forming wire that will be exported to China and Mexico



# In Stock Baskets

Ready-to-ship steel wire baskets



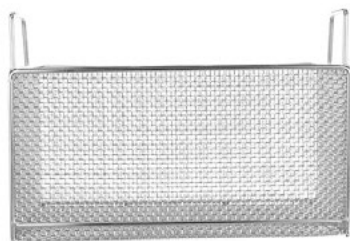
Round Mesh Basket with Lid



Round Mesh Basket with Handles



Wire Material Handling Baskets



Rectangular Mesh Baskets with Handles



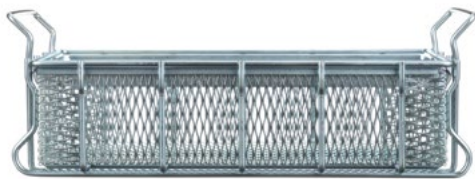
Mesh Baskets with Lids



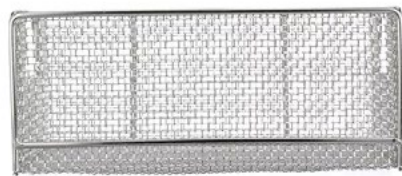
Mesh Basket with Compartments



Wire Baskets Nesting



Expanded Metal Baskets



Mesh Basket - Built in Handles





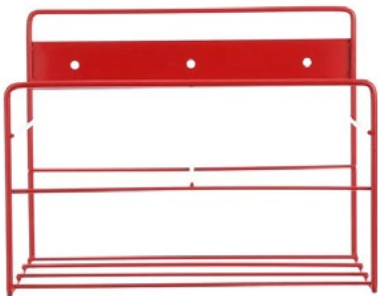
Peg Board Baskets with Nameplate



Peg Board Basket



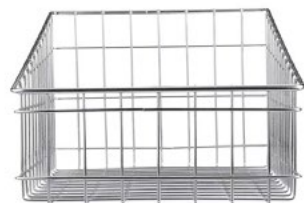
Wall Mounted Baskets



Wall Mounted Racks



Water Cooler Rack



tSlanted Wire Baskets



Display Basket Trays



Wire Basket Trays



Tray to hold Parts



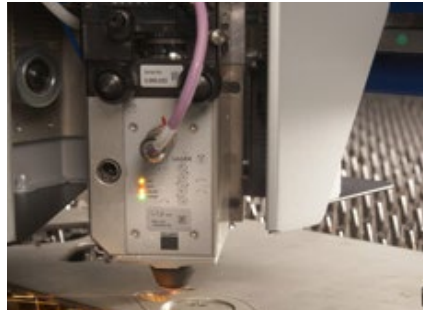
Sintering Baskets

View All  
In-Stock  
Baskets

All Baskets

# Equipment

## Sheet Metal Fabrication



### ***Trumpf 1030 Sheet Metal Laser Cutter***

- 61 feet a minute (18 m/m)
- Cuts 0.6" (15 mm) thick material
- Accommodates 5' (1524 mm) by 10' (3048 mm) sheet size. Less Scrap and Waste
- Automatic Pallet Changer for quicker production
- Stainless, aluminum, mild steel
- Made in Connecticut



### ***Trumpf 2020 CNC Punch***

- 900 strokes per minute with 0.004" (0.1 mm) tolerance
- Automatic Load/Unload – Runs Unattended
- 0.003" to 0.25" thickness (.08 mm to 6.35 mm) material
- Stainless, aluminum, mild steel
- Made in Connecticut



### ***Minster CX-1100 121 Ton Stamping Press***

- 60 strokes per minute
- 7.09" stroke length
- 45.3" x 26.8" bolster size
- 13.8" throat depth
- Stainless, aluminum, mild steel



### ***Trumpf Steel Press Brake***

- +/-10 micron RAM tolerance and 0.25 degrees on 122" (3099 mm) length
- 132 tons of force
- 122" (3099 mm) bending length



### ***HydMech Saw***

- +/-0.005" tolerance
- 20' tube
- Automatic Loading - Servo Feed
- 24" x 24" bundle size
- Made in Arkansas

# Equipment

## Wire Forming

Wire Diameters 0.003" (.076 mm) to 0.625" (15.88 mm)



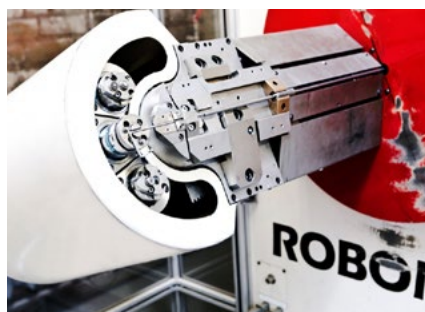
### ***Three Dimensional CNC Bender-AIM (Quantity 2)***

- 6,000 bends per hour
- Bend head turns 3,600 degrees/second
- .08" (2 mm) - .31" (8 mm)
- Automatic Load/Unload – Runs Unattended
- Intergrated Fanuc Robots
- Stainless Steel or Low Carbon Material
- Made in Illinois



### ***Ulitmat UMW-100 Two Dimensional Wire Forming with Integrated Medium Frequency Butt Welder***

- Wire Forming, Strip Forming and Welding Machine
- High wire forming speed
- Uses Medium Frequency welding which is ideal for welding stainless steel
- Weld cyle of 2 milliseconds eliminates burrs and sharp edges
- Straight from the 4,000 pound coil



### ***RoboMac 310 CNC***

- Wire-bending robots
- .08" (2 mm) - .39" (10 mm)
- Stainless Steel or Low Carbon Material



# Equipment (cont.)

## Machining and Fixturing



### *CNC Router for Fixtures*

- 5' (1524 mm) x 10' (3048 mm) Table
- 5" (127 mm) z axis



### *Haas Mill VF3*

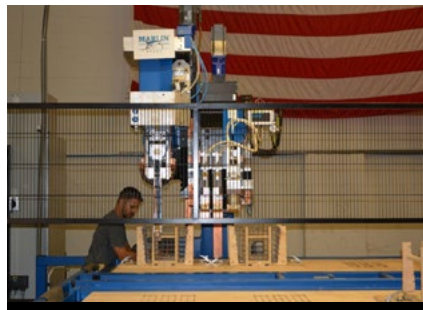
- 4 Axis
- Probe Option
- Made in California

## Welding



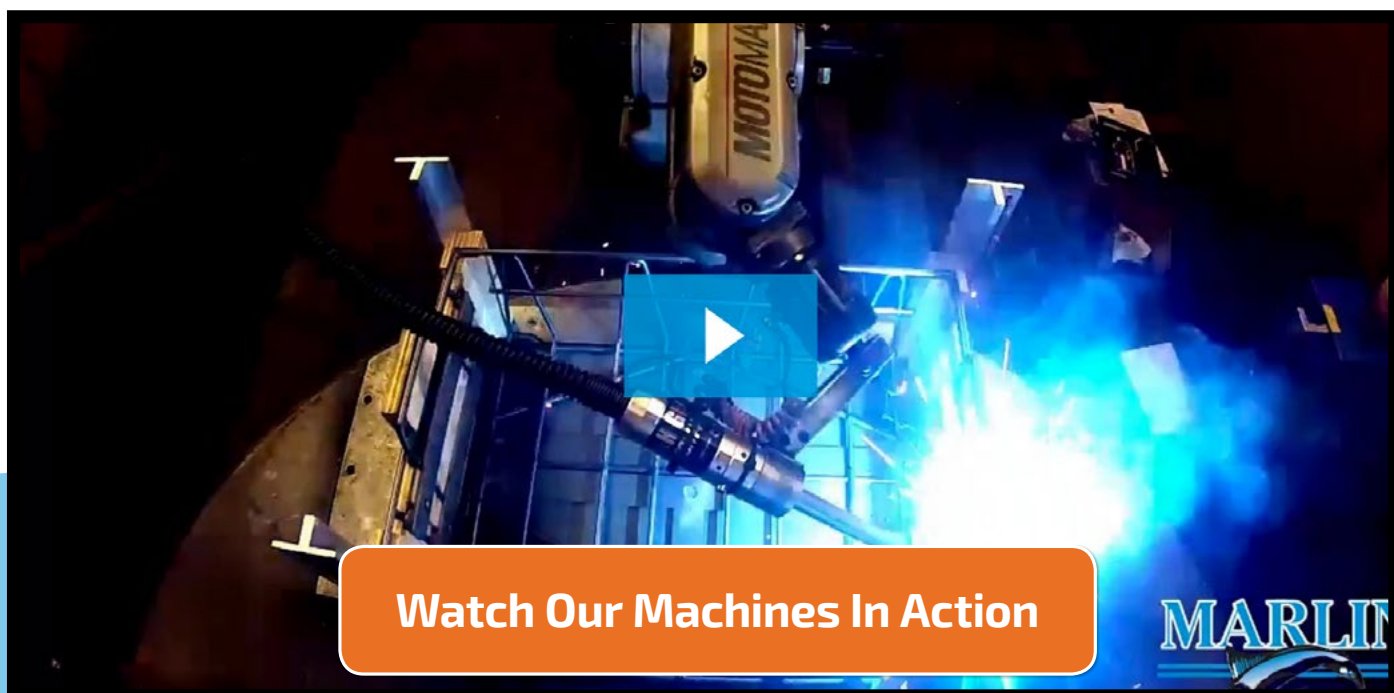
### *Lincoln MIG TIG Robotic Welder*

- Tilt rotate table - 1105 lb capacity
- 10 foot 360° table - 1105 lb capacity
- Made in Ohio



### *IDEAL Medium Frequency Welder*

- Weld cycle of 2 milliseconds eliminates burrs and sharp edges
- Superior shape consistency
- 10' (3048 mm) x 4' (1219 mm) table
- Pincer head for three dimensional welding



**Watch Our Machines In Action**

**MARLIN**

# Coatings and Wire Forming

▼ Powder Coatings	▼ Spray Finishes	▼ Chemical Finishes
Nylon	Teflon®	Electropolishing
Polyolefin	Xylan®	Nitric Acid Passivation
Vinyl	Kynar (PVF2, PVDF)	Citric Acid Passivation
Polyethylene	PPS	Pickling
Epoxy	FEP	Chem Film (Iridite)
Polyester	Ryton	Zinc Phosphate
Hybrids	Plastite	Manganese Phosphate
Urethane	Emralon	Ultra-Tech 500 (Endrion)
PFA	Lube-Lok	Black Dye
HALAR	Everlube	Sandblasting
TEFZEL®	Esnalube	Salt Spray Testing
Excalibur®	Dow Coating	Hot-dip
Dykor®	Anodize	E-coat
Ultralon®	Chemlok	Chromate & Trivalent zinc
Silverstone Supra®	Milspec paint	Plastisol
Sandstrom Products	Heresite P413	PVC
Kynar®	Walkway Coating (MIL-W-5044)	Whitford Coatings
	Cytec BR6747 Bonding Adhesive	Dip spin coatings
	Dry Lube (MIL-PRF-46147, MIL-L-23398)	Alkaline etch for brazing
	Thermal spray	Hydromer 2234-63
	ETFE	Sermetal 249
	Screen printing	
	Metalizing	
	Mil-Spec Painting	

## Platings

Nickel Plating	Chrome Plating	Gold plating	Silver plating	Rhodium plating
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**International Quality Registrars (IQR) Corporation**  
here with certifies that

**Marlin Steel Wire Products LLC**

Headquarters: 2640 Merchant Drive Baltimore, MD 21230 USA

Additional Site Location(s): ☒ No, ☐ Yes, See Appendix A for additional information

has demonstrated a Quality Management System (QMS) which  
conforms with the requirements of the standard:

**ISO 9001:2015**

**Quality Management System - Requirements**

The organization's QMS has been evaluated  
according to the International Quality Registrars (IQR)  
Corporation QMS certification scheme for the following scope:

**"Design and Manufacture of Wire and Sheet Metal Products and Specialty Tooling"**

**Exclusion(s): None**

**This QMS certification is subject to periodic audits by  
International Quality Registrars (IQR) Corporation**

This QMS certificate remains the property of International Quality Registrars Corporation and shall be returned immediately upon request, and is subject to being suspended or withdrawn where the organization fails to comply with the terms and conditions of the signed Registration Assessment Proposal and Agreement. An electronic or printed certificate can be authenticated on-line in accordance with IQR's procedure documented at [www.IQRCORP.com](http://www.IQRCORP.com)

**Registration No.: 15-120505.5Q**

**Client ID: MSWP12**

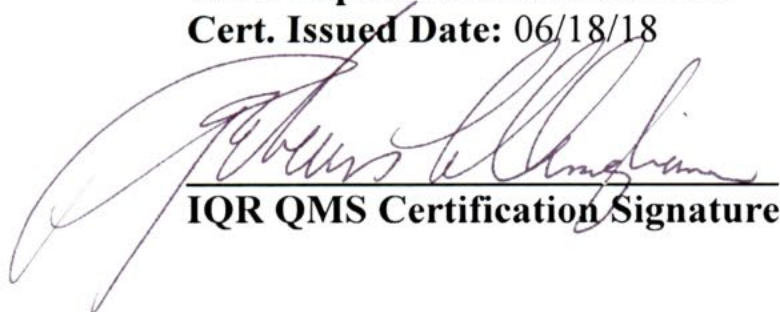
**Cert. Expiration Date: 06/18/21**

**Cert. Issued Date: 06/18/18**

**Last Cert. Revision Date: 06/18/18**

**Initial Cert. Issue Date: 05/15/12**

**Sheet No.: 1 of 1**

  
**IQR QMS Certification Signature**



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