

# Vitex Extrusion Company Overview

June 2020

# Vitex Extrusion Overview

- Founded 1986
- 125 Employees
- Integrated Manufacturing
  - » Aluminum Extrusion
  - » Secondary Cutting
  - » Fabrication
  - » Machining
  - » Assembly
- Contract Manufacturing
  - » Anodizing
  - » Powder Coating
  - » Silk Screen Printing
- Campus
  - » 26 Acres
  - » 115,000 sq. ft. under roof

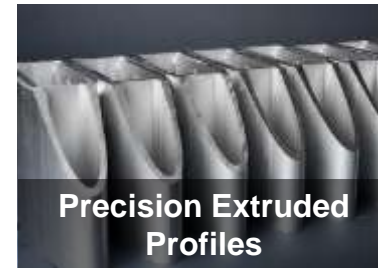


# Engineered Extrusions Expansion

- Acquired 13-acre, 50,000 sq. ft. modern manufacturing facility in spring of 2020.
- New facility adjoins current Vitex Extrusion operations campus.
- Devoted exclusively to value added downstream manufacturing of aluminum extrusions.
- Expanded array of manufacturing capabilities, including robotic-based cellular production units to achieve target supply chain price points for larger volume OEM production platforms.



# Core Competencies



# New England's Largest Metal Mfg. Company



Vitex Extrusion and its Engineered Extrusions division are now an operating company within the Momentum Manufacturing Group - New England's largest metalworking contract manufacturer.

Enhanced by the group's expansive scope of manufacturing capabilities, Vitex now offers its customers an unparalleled level of downstream manufacturing capabilities in the North American Extrusion Industry.

- Eight (8) New England manufacturing locations
- 500+ employees
- 550,000 sq. ft. manufacturing footprint

- Capabilities:

- » Engineering
- » Fabrication
- » Machining
- » Extrusions
- » Engineered Extrusions
- » Powder Coating
- » Silk- Screening
- » Assembly and Test
- » Contract Manufacturing
- » Product line adoption

# Products & Services

- Aluminum Rod, Bars, Pipes & Tubes
- Custom Aluminum Profiles
  - » Alloys: 1350, 6005, 6063, 6061
  - » Wt./Ft: .250- 8.00 lbs./ft
  - » Max Length: 40 ft
- Value Added Production
  - » Recut
  - » Machining
  - » Punching
  - » Bending
  - » Finishing
  - » Assembly
  - » Full Supply Chain Solutions



# Industry Expertise

Over 30 years' experience extruding and fabrication of aluminum components for:

- Automotive & Transportation Industry
- Building & Construction Industry
- Electronics Industry
- Solar Energy Industry
- LED Lighting Industry
- Consumer Product Industry

Helping manufacturers and product designers:

- Fine tune component designs to achieve optimal cost and performance requirements
- Determine most cost effective fabrication, finishing and assembly techniques
- Decrease costs by providing extrusion, manufacturing, assembly and supply chain support under one roof



# Industry: Automotive & Transportation

Engineers are increasingly turning to aluminum extrusions to improve fuel economy, enhance performance, and increase load carrying capacity within the automotive and transportation industry. Additionally, aluminum's natural weather- and corrosion-resistant properties make it an ideal material for exterior accessories, racks and trailers.

## Current Applications:

- Roof Rack Systems
  - » OEM & Aftermarket
  - » Bicycle, Luggage, Kayak
  - » Truck Racks
- Machined Components
- Utility Trailers
- Truck & Van Bodies
- Snowmobile Trailers
- Horse & Animal Trailers





# Industry: Building & Construction

Unlike steel, aluminum can be extruded into elaborate designs and manufactured to meet stringent building product specifications. Given the dimensional accuracy and excellent surface quality you will find with aluminum extrusions, it is not surprising they are incorporated into or the basis of many residential and commercial building products.

## Current Applications:

- Railings
- Doors & Windows
- Curtain Wall
- Atriums
- Greenhouses
- Ramps
- Skylights
- Balconies
- Roofing Systems



# Industry: Electronics

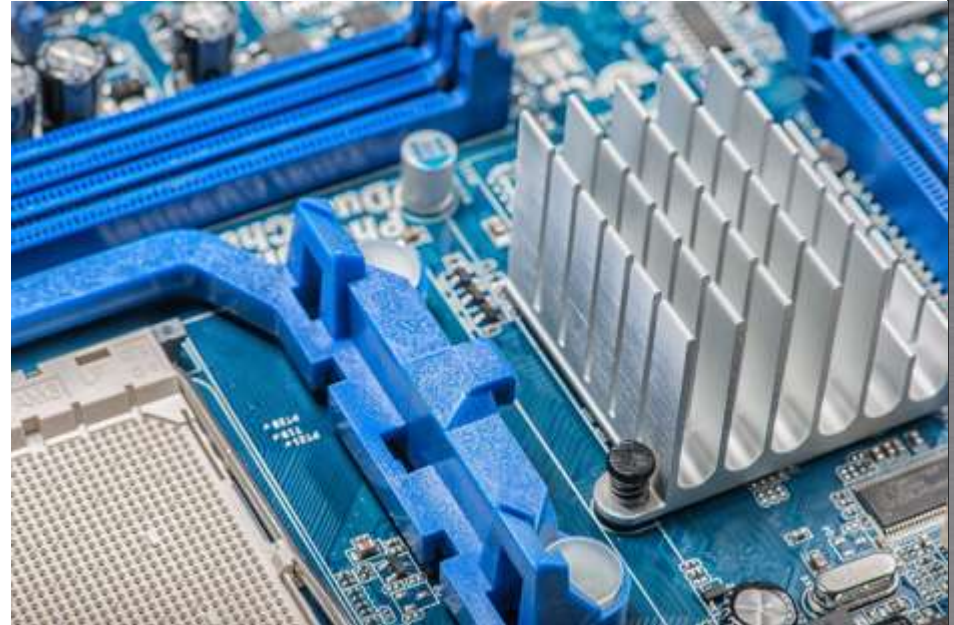
Given its unique electric and thermal conductivity properties, custom aluminum extrusions are often used for motor housings, high-dissipation heat sinks and interior frames. In some cases, the complete product casing is designed using aluminum, as can be found with many laptops, the Apple iPhone and iPad and HDTVs.

## Current Applications:

- Heat Sinks
- Electronic Housings
- Data Room Thermal Management

## Additional Services

- Custom Assemblies
- Screen Printing



# Industry: Solar Energy

Aluminum extrusion are helping revolutionize the solar industry by providing strong and lightweight frames and structures for solar panels, along with components that allow for precision positioning and stability for improved productivity. Additionally, aluminum's natural weather- and corrosion-resistant properties make it an ideal material for solar components.

## Current Applications:

- Rooftop Mounting Systems
- Field Mounting Systems
- Solar Carports
- Lineal Racking
- PV Frames



# Industry: LED Lighting

The rapid evolution of LED lighting is due in part to the use of custom aluminum extrusions. Extruded aluminum fixture housings serve as both heat sinks and reflectors, provide a corrosion-free material ideal for challenging environments, and incorporate interfaces for lenses, circuit boards, and end-caps, while allowing the lighting designer to create the shape they desire and “put the metal where it is needed.”

## Current Applications:

- Heat Sinks
- Reflectors
- Custom Housings for Lenses, Circuit boards, and End-caps



# Industry: Consumer Products

The commercial and recreational goods market is a growing niche for aluminum manufacturers. As more consumers demand products that are durable yet lightweight, aluminum has become a component of an increasingly large and diverse group of products. Additionally, the ability to incorporate holes, slots, or screw bosses into the shape enables designers to reduce design complexity – a critical need for end-user assembled products.

## Current Applications

- Exercise Equipment
- Furniture
- Watercraft Components
- Rooftop Bicycle & Luggage Racks



# Strategic Manufacturing Equipment

With the best people, processes and machinery, we produce tighter dimensional tolerances, consistent quality and better finishes for even the most complex extruded aluminum shapes.

State-of-the-art aluminum extrusion press and quench systems enable us to meet the most demanding industry requirements, while meeting higher production volumes. With turnaround times as short as one week, Vitex Extrusion can deliver your custom aluminum extrusion profiles and manufactured products in a fraction of the time of most other aluminum extruders.

## Key Extrusion Assets

- Prezezzi 8" 2750 ton front loading press
- Fielding Platt 9" 2,700 ton press line
- Prezezzi HECS High Velocity Air & Water Quench System
- (2) Belco Flo-Thru Age Ovens
- Epics Production MIS System
- Optalex Extrusion Optimization System

30mm lb.'s current extrusion capacity

50mm lb.'s planned extrusion capacity (2020)



# Strategic Manufacturing Equipment

Although mistakes are a reality of human-led processes, the occurrence of human error is minimized with automated processes. From damaged products to wasted materials, mistakes common in manual handling are thwarted with the introduction of automated material handling equipment.

## Material Handling Key Assets

- 6 automated overhead rack movement crane systems – 100% plant coverage
- Presezzi integrated extrusion stacking and rack management system
- Presezzi integrated lineal rack de-stacking, pack and bundle stretch wrapping



# Strategic Manufacturing Equipment

With state-of-the-art technology and an experienced fabrication team, Vitex Extrusion offers a range of fabrication capabilities including precision cutting and mitering to size, milling, drilling, punching, engineering and CNC machining capabilities.

## Engineered Extrusions Assets:

- (8) Double Pallet VMC CNCs
- (5) Large Bed Gantry CNCs
- (1) 6 Pallet Horizontal CNC
- Automated lineal deburring system
- Vibratory Deburring systems
- (6) Hydraulic and Pneumatic punch presses
- (2) Metlsaw recut systems

## Momentum Manufacturing Group Assets:

- 100+ CNC machines
- Vertical, Horizontal and Turning capabilities.
- CNC Tube Bending
- Laser Tube/Profile Cutting
- Laser Part Marking
- Robotic Welding
- Powder Coating





# Quality Control Systems

Our long-term business relationships are built on our commitment to providing our customers with the highest standard of quality and reliability for aluminum extruded products, fabrication and machining services.

Our capabilities have been enhanced with the recent addition of two key quality system assets: Keyence IM-6225 Image Dimension Measurement System and a 118" Hexagon coordinate measuring system. Measurement results for both systems are automatically recorded and immediate feedback on production trends and variations are given to our engineers to prevent quality problems before they start.

## ONGOING QUALITY ASSURANCE EFFORTS:

- Relentless focus on understanding and fulfilling dynamic requirements
- QMS implemented and maintained per ISO 9001:2008 guidelines
- Data-driven management information systems
- Real-time plant floor reporting systems
- Continuous, specialized staff training
- Operational audit programs
- Automated quality check systems



Thank you for the opportunity to  
present our capabilities.

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