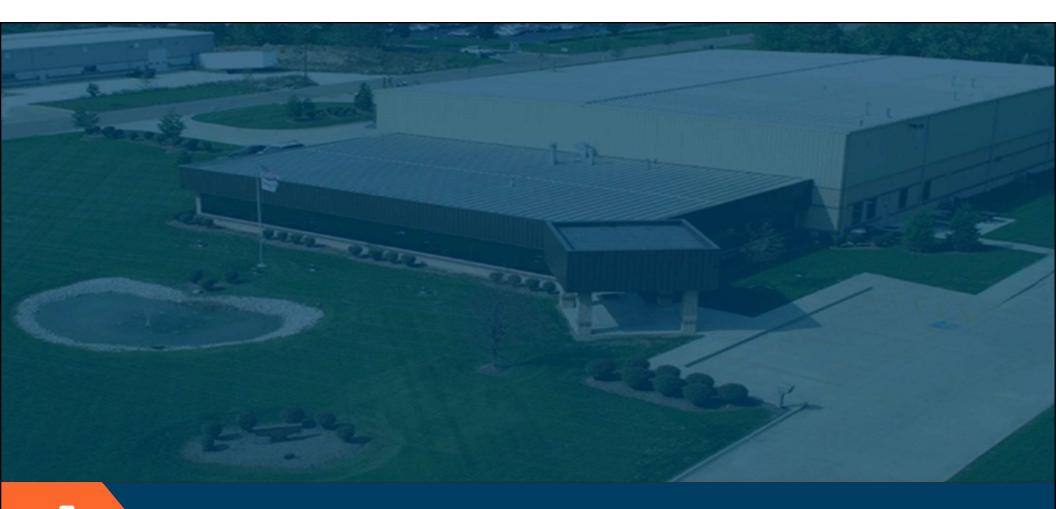


Linden Polyurethane Company Overview

Critical Applications. Components. Repairs.





COMPANY PROFILE



Leader in Engineered Solutions

Founded in 1985, Linden is innovators in custom engineered and standard machinery systems for RIM, RRIM and ancillary polyurethane processing equipment.

The Company

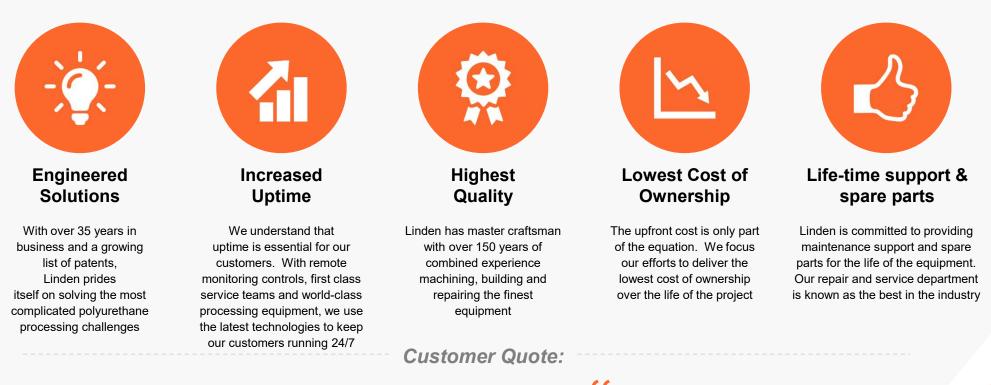
Linden Industries is an independent company producing world-class automation equipment and engineered solutions that allows its customers to continue to drive higher productivity and increased quality. We pride ourselves on customization, design, and adapting our products to custom-fit your processing requirements.

Leadership

Jon Cocco is the owner & CEO of Linden Industries, LLC with a deep history in serving industrial OEMs around the globe. Experience has taught him that the secret to a successful business is to assemble and motivate a talented team while delivering value to customers every day.

WHAT WE DELIVER





We like the Linden (Metering) Machine so much we plan to upgrade all of our other machines ~ Manitowoc Food Service

"

Thank you very much for your support to my impossible requests ~ Heartland Automotive

4

GLOBAL EXPERTISE WITH LOCAL EXPERTS



Global Service & Support With Local Feel

Linden Polyurethane machines are used around the world and in numerous applications — from aerospace to sporting goods and everything between. Wherever you are, whatever the need, we'll help you create the ideal solution and keep it operating at peak performance.



From

20+ Countries



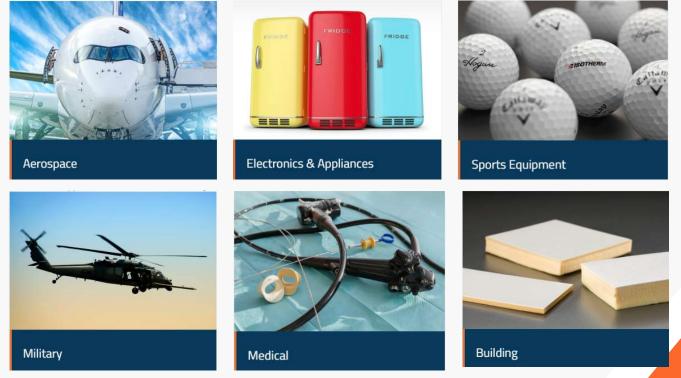
MARKETS SERVED





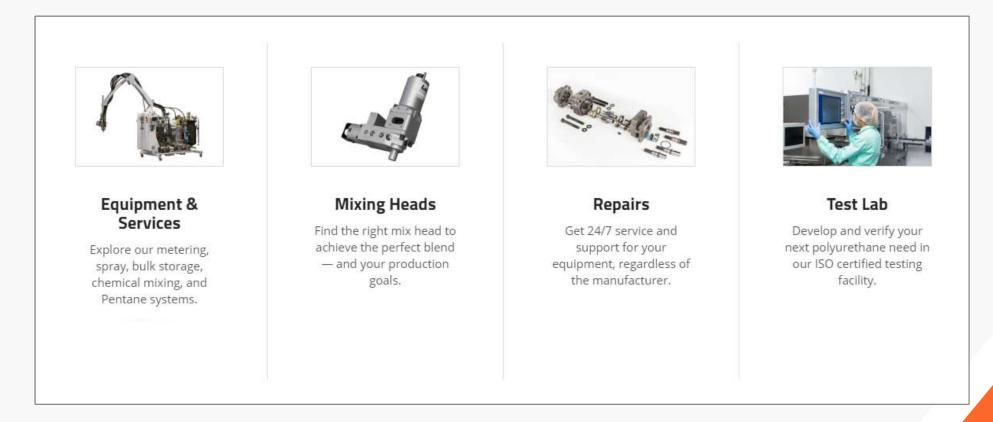
Automotive

For more than 30 years, Linden Polyurethane has partnered with organizations around the world for numerous advanced polyurethane foam applications and processing equipment. From aircraft and vehicles to football helmets and other consumer goods, so many of the things we all use on a daily basis rely on polyurethane for both protection and performance. The polyurethane (PU) market size is estimated at \$80 billion and is projected to grow at a CAGR of 7% from 2016 to 2025.



PRODUCT & SERVICE OFFERINGS TOP - PRODUCTS





MARKET LEADING OFFERINGS TOP - PRODUCTS





Metering Machines

- High Pressure Metering and Dispensing
- High Pressure Metering and
 Dispensing for Filled Systems
- Isotherm Small Shot Metering and Dispensing for Pour or Spray Operations
- Polytec Low Pressure, High Temperature, Multiple component Metering and Dispensing
- Turn key automation cells

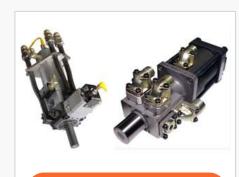


- Bulk Storage Systems:
 - Custom engineered Systems
 - Systems up to 30,000 Gal
- Blending Systems:
 - Custom Engineered to suit each application
 - In-line liquid blending
 - Cyclopentane Blending



The Pinnacle of Gas Infusion Technology

- N2
 - CO2



Parts, Services & Repairs

- New Mix Heads & spare parts
- Linden ProVue data acquisition and remote monitoring systems
- Rebuild / Repair Metering and Feed Pumps
- · Installation and service
- 24/7 customer service

HIGH PRESSURE METERING



High Pressure Metering and Dispensing

- Ratio Range: 1:3 and 3:1
- Temperature Range: 70° 120° F
- Viscosity Range: 50 1800 Cps
- Throughput Range:
- 2 lbs./min. to over 1500 lbs./min.
- Max. Operating Pressure: 2850 PSIG
- Well equipped base models.
- Wide array of options available
- LINDEN ProcessVu-LDA data collection system
- <u>LINDEN</u> HOTLINE [™] On-Line Service



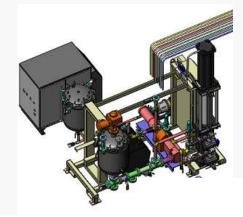
LINDEN INNOVATOR™ EP

HIGH PRESSURE METERING



High Pressure Metering and Dispensing for Filled Systems

- Ratio Range: 1:10 and 10:1
- Temperature Range: 70° 120° F
- Throughput Range: 30 lbs./sec.
- Wide array of options available





LINDEN LANCER High Pressure Cylinder Meter Machine

LINDEN LANCER HYBRID High Pressure Cylinder Meter Machine Axial Pump (Iso) Cylinder (Poly)

HIGH PRESSURE SMALL SHOT & SPRAY EQUIPMENT



High Pressure, High Temperature, Small Shot Metering and Dispensing for Pour or Spray Operations

- Swiss Precision
- Ratio Range: 1:4 and 4:1
- Temperature Range: 95° 200° F
- Viscosity Range: 5000 Cps
- Throughput Range: 3 g/sec to 160 g/sec
- Max. Operating Pressure: 2900 PSIG
- Manuel or Automated
- Wide array of options available
- Oil heat traced to Mix Head
- Lance style servo cylinders
- Data collection system
- On-Line Support Service



ISOTHERM PSM90 Small Shot

ISOTHERM



ISOTHERM PSM3000 Continuous Shot



ISOTHERM PSM700 Spray System

LOW PRESSURE METERING EQUIPMENT



Low Pressure, High Temperature, Multiple component Metering and Dispensing

- Built in Austria
- Temperature: up to 300° F
- Throughput: up to 1000 l/min
- Manuel or Automated
- Wide array of options available
- On-Line Support Service



POLYTEC DG200



POLYTEC DG130



12

LINDEN MIX HEADS EQUIPMENT





Double L Style Mix Heads



Straight Style Mix Heads

Available Long or Short nozzle configurations





Custom Mix Heads



L Style Mix Heads
 Available Long or Short nozzle configurations

GAS INFUSION TECHNOLOGY EQUIPMENT



The Pinnacle of Gas Infusion Technology

LINDEN offers the only system on the market that continuously monitors and regulates nucleation levels for unmatched accuracy " keeping the guess work out of the equation".

- Uses cutting edge gas sensor technology
- Self-contained system can be coupled to any new or existing metering system regardless of manufacturer.

Dry Air, N₂ and CO₂



CYCLOPENTANE BLENDING EQUIPMENT





Penta-Fusion Inject Pentane at Polyol Day Tank



Penta-Meter Inject Pentane at Mix Head

AIRCRAFT CARRIER FOAMING CRITICAL PROJECTS





HIGH VOLUME GOLF BALL PRODUCTION **LINDEN CRITICAL PROJECTS** POLYURETHANE



- High volume golf ball production
- Fifteen cells suppliedSmall shots
- Automated part handling system





17

TURN KEYSYSTEMS CRITICAL PROJECTS



Pit Mounted "flush style" turntable with robotic part and mix head handling producing IP components.

(39 ft. dia., 100,000 lb. capacity, six IP carriers and continuous motion)

Robotic pour and mold release application - Linden Mold Carriers



RING LINE PRODUCTION CELL CRITICAL PROJECTS



Remanufactured Complete Production Cell Including:

- Metering Machine
- Ring Line and Select Stations
- Mix Heads



BULK STORAGE SYSTEM CRITIAL PROJECTS





• Custom Engineered to suit each application

- Chemicals can be received from tank trucks or rail cars
- Systems up to 30,000 Gal
- Designed to ASME standards
- Chemical conditioning systems available

8,000 Gal system

WORLD CLASS REPAIRS & SERIVCE





INDUSTRY LEADING REPAIR SERVICES LINDEN **CRITICAL REPAIRS & SERVICES**



Rebuild / Repair Metering and Feed Pumps

- Rexroth •
- Hydromatic •
- **RHL Rotary Power**
- Sam (Cannon) •
- Viking •

Rebuild / Repair Mixing Heads

- Admiral •
- Cannon T •
- Graco
- •
- Hennecke QCM •
- Hi-Tech •

- Konel
 - Krauss-Maffei
- Linden Industries
 - MHR
- Gusmer OMS/Impianti

 - TOHO

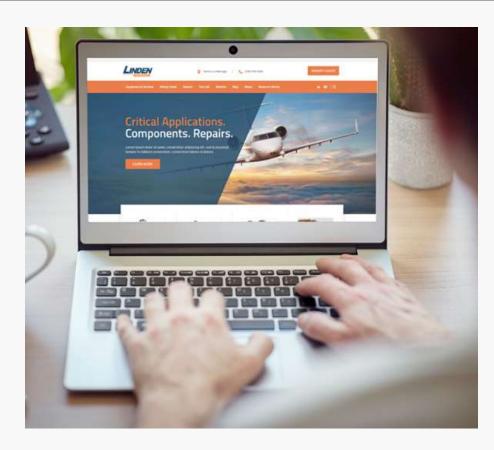


UNSURPASSED SUPPORT CRITICAL REPAIRS & SERVICES



- 24/7 Service Help Desk
- Expert Field Service Support
- Comprehensive Parts Inventory
- Pump and Mix Head Repair Capability
- Any manufacturer not just Linden
- *HOTLINE*[™] On Line Engineering Service Support





Visit our website for more information:

www.Lindenpolyurethane.com

Or Contact us directly at:

(330) 928-4064

