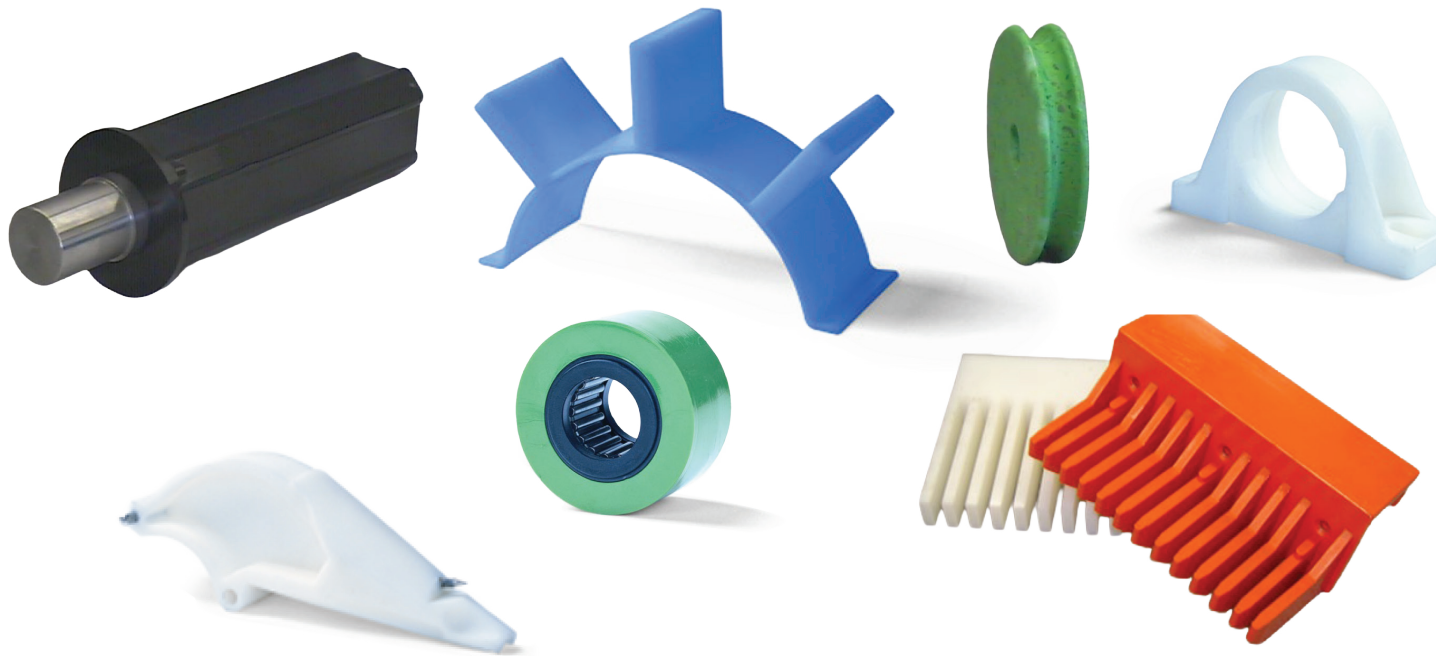




RUBBER & PLASTIC

MANUFACTURING CAPABILITIES

Custom solutions • Engineered products • Multi-process manufacturing

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From the problem to the finished solution.

A broad range of rubber and plastic manufacturing technologies allows custom components to be designed around application requirements, volumes and specifications.



CUSTOM MOLDED & EXTRUDED PRODUCTS

- Injection & compression molding
- Over molding and rubber bonding on all materials
- Transfer molding
- Waste-less and flash-less options
- Reverse engineering
- Improved tooling concepts

SPECIALTY CUSTOM PRODUCTS

- Bearing seals and diaphragms
- Extruded / bonded products
- Gaskets including EMI/RFI shielding
- Aerospace & Military MRO parts
- Class VI for medical and other sensitive applications
- Conductive and resistive products

PRESENT A PROBLEM AND WE WILL DELIVER A SOLUTION!

Rubber molding technologies



**Compression
Molding**



**Transfer
Molding**



**Injection
Molding**



Overmolding

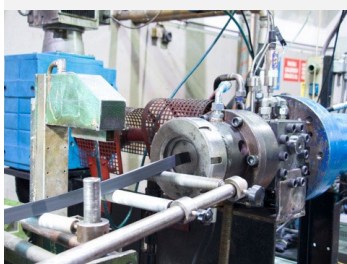
CORE MOLDING PROCESSES

- Compression molding
- Transfer molding
- Injection molding
- Overmolding

APPLICATION FOCUS

- Custom molded components
- Rubber bonding on all materials
- Complex assemblies and inserts
- Flash-less and waste-less options
- Reverse engineering and tooling improvement

Beyond molding: secondary processes



Extrusion



**Mold
Making**



**Metal
Stamping**



**Die & Waterjet
Cutting**

FABRICATION & SECONDARY PROCESSES

- Extrusion
- Mold making
- Metal stamping
- Die & waterjet cutting

ADDITIONAL CAPABILITIES

- Sourcing of custom components and inserts
- Overmolding and rubber bonding
- Reverse engineering
- Improved tooling concepts
- Extruded / bonded products

Custom solutions can combine multiple processes to meet performance and cost objectives.

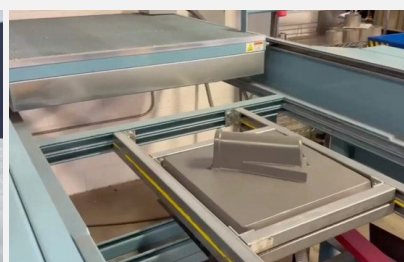
Precision plastic & urethane manufacturing



**Injection
Molding**



**CNC Machining of
Engineered Plastics**



Thermoforming

PRIMARY PROCESSES

- Injection molding
- CNC machining of engineered plastics
- Thermoforming

ENGINEERED MATERIALS

- UHMW-PE
- Nylon
- Urethane
- Polypropylene
- Acetal and more

Raw materials for injection molding are supplied in pellet form as engineered thermoplastic resins.

PLASTIC MANUFACTURING CAPABILITIES

Fabrication & Secondary Processes

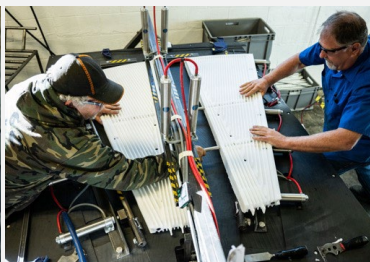
Fabrication, tooling and hybrid design



**Urethane
Casting**



**Overmolding &
Insert Molding**



**MultiFab
Hybrid Design**



**In-House Tooling &
Design Engineering**

SECONDARY CAPABILITIES

- Urethane casting
- Overmolding & insert molding
- MultiFab hybrid design
- In-house tooling & design engineering

MULTIFAB TECHNOLOGY

- Combine technologies
- Blend plastics and merge processes
- Form single products or multi-stage components
- Use injection molding instead of fabrication where more cost-effective

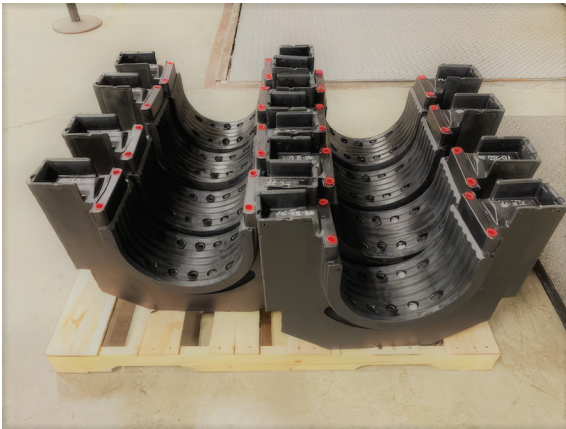
RESULT: meet or exceed budget expectations and desired specifications.

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Designing solutions around the application



EXAMPLES OF ENGINEERED SOLUTIONS

- Large primary suspension component with 5 metal-to-rubber bonds
- Serialized parts and 100% load testing before shipment
- Flash-less transfer molding and overmolding of differing materials
- Compound development challenges addressed to eliminate off-gassing
- Thin-walled rubber skirt overmolded onto PBT

INDUSTRIES SERVED

Markets

A few of the industries we serve



AGRICULTURE
FOREST &
LUMBER



CAR WASH
MINING



CONVEYING/
PACKAGING



EGG
PROCESSING



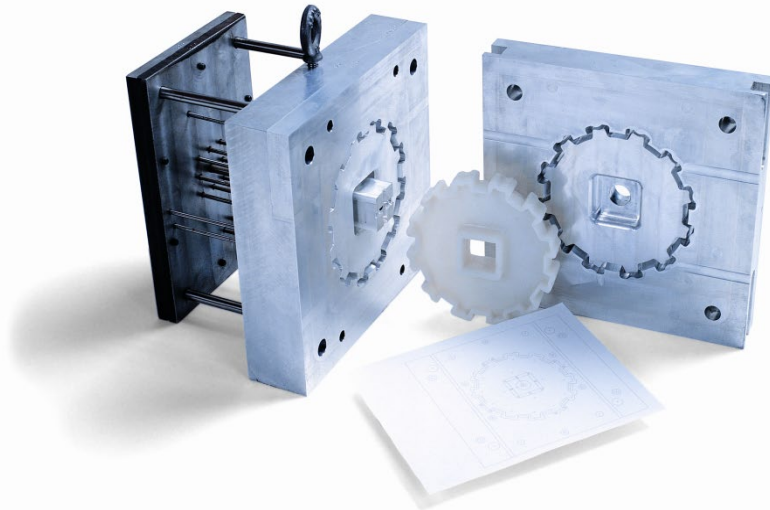
FOOD
PROCESSING
SOLUTIONS



- Lumber
- General OEM
- Wastewater
- Packaging
- Pulp & Paper
- Mining
- Gypsum
- Conveying
- Food Processing
- Agriculture
- Energy
- Glass

Applications range from industrial processing and conveying to OEM, mining, agriculture and energy equipment.

Injection molding built around repeatability



In-house mold design and manufacturing is positioned as a cost-effective advantage. Most molds are high-grade aluminum for low runs of industrial components from 1,000 to 200,000 cycles; steel is also available.

MACHINE RANGE

- 19 oz / 200 ton (2000 kN)
- 29 oz / 320 ton (3200 kN)
- 59 oz / 380 ton (3800 kN)
- 89 oz / 530 ton (5300 kN)
- 143 oz / 700 ton (7000 kN)
- 154-155 oz / 750 ton (7500 kN)
- 200 oz / 800 ton (8000 kN)
- 311 oz / 1100 ton (11000 kN)

STRENGTHS

- In-house tool manufacturing
- Volume and repeat business
- Long-term relationships
- OEM focused
- UHMW-PE capability

Cast polyurethane and fabrication



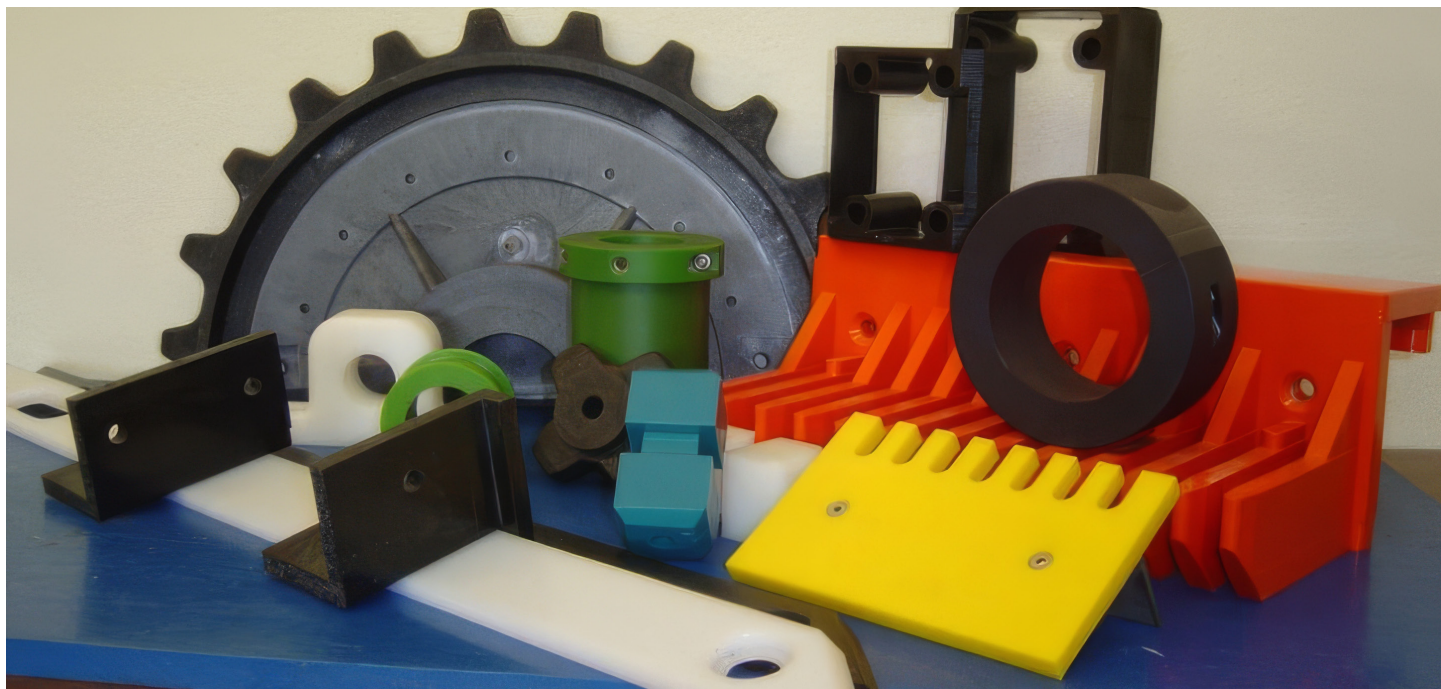
CAST POLYURETHANE

- Thermoset polymer formulated in a variety of durometers
- Can be poured into sheets or cast into shapes
- Can be bonded to metal rolls and plates
- Well suited for low to medium volume runs

FABRICATION

- Vacuum forming
- Metal welding
- Plastic welding
- Heat bending and forming
- Combine technologies to create multi-stage components

Engineered drive components



INDUSTRIAL SPROCKETS

- Lumber • Pulp & Paper • Food Processing
- OEM • Mining • Agriculture • Wastewater

GEARS & WHEELS

- Gears, sprockets, wheels and rollers
- Impact resistant
- High wear
- Cost effective
- Quiet and corrosion resistant

Various durometer urethane wheels and rolls are available new and as recoats.

BUSHINGS & BEARINGS

Engineered components



MACHINED & MOLDED BUSHINGS

- For OEMs and distributors
- Nylon
- Delrin (acetal)
- Phenolic
- UHMW-PE and other engineered polymers

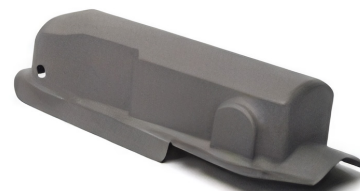
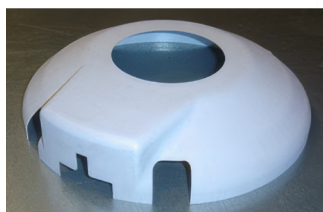
FOOD GRADE & INDUSTRIAL BEARINGS

- Engineered bearing components
- Custom molded and machined solutions
- Designed for demanding industrial applications

Product portfolio also includes wear tracks, channels, guides, scrapers, liners, weldments and covers.

SPECIALIZED COMPONENTS

Application examples

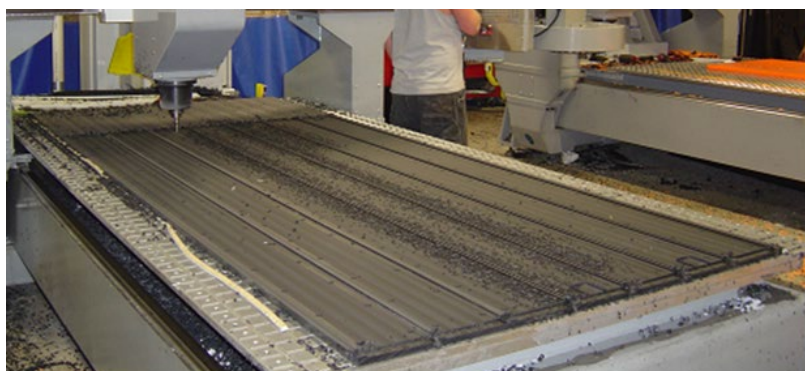


SOLAR PANEL ROCKER BEARINGS

- Used in the solar industry
- Mounting bearings follow the sun's movement
- Molded from UHMW for wear, low friction and high impact qualities

VACUUM FORMED COVERS

- Used in a variety of applications
- Dust covers for high-tech equipment
- Electrical splash guards for servo motors
- Vacuum formed / thermoformed



VACUUM SLIDES — pulp/paper and filtration equipment in wet abrasive applications

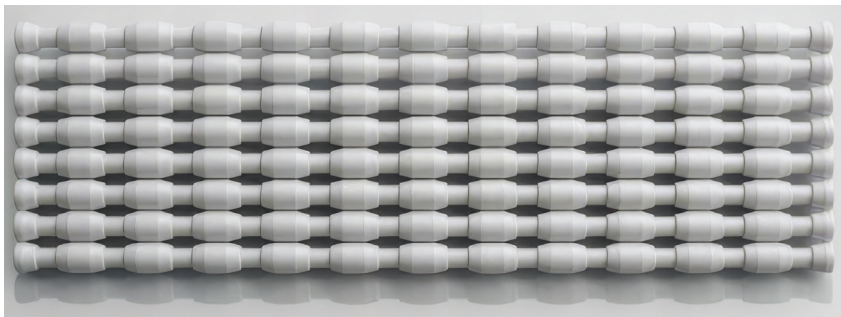
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CUSTOM MOLDED COMPONENTS

Additional products



SPOOL BARS

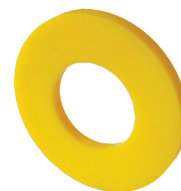
- Food processing industry
- Wash-down and grading of poultry eggs in automated equipment
- Available in a variety of materials and durometers

MOLDED INDUSTRIAL COMPONENTS

- Custom molded components
- Multiple engineered materials and geometries
- Products can be tailored to application requirements

Portfolio includes:

Gears • Sprockets • Wheels • Rollers • Custom Chains • Wear Tracks • Channels • Bushings • Bearings • Guides • Scrapers • Liners • Weldments • Covers



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WHY CUSTOM MANUFACTURING?

Value proposition

One partner. Multiple technologies.

Combining rubber, plastic, urethane, tooling and secondary processes can create more cost-effective solutions while meeting demanding specifications.

01 | DESIGN

- Reverse engineering
- Design engineering
- Improved tooling concepts

02 | MANUFACTURE

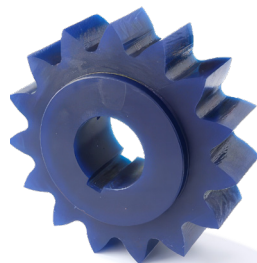
- Molding
- Machining
- Fabrication

03 | COMBINE

- Overmolding
- Insert molding
- MultiFab hybrid design

04 | DELIVER

- Volume
- Repeat business
- Long-term relationships



DESIGNING SOLUTIONS, DELIVERING RESULTS



Custom 720 Sprocket



Drive Sprockets



Shear Pin Sprocket



Replacement teeth



Split Static Sleeve Bushing



Jaw Clutch Shear Pin
Drive Sprocket Assembly



Wall Bearing



Hub Ball Insert



Wall Bearing



Carry and Return Wear Shoes



Flight Filler Blocks



Wear Strips



Wall Brackets



Take Up Arm

RUBBER & PLASTIC CUSTOM MANUFACTURING

Present a problem and we will deliver a solution.

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