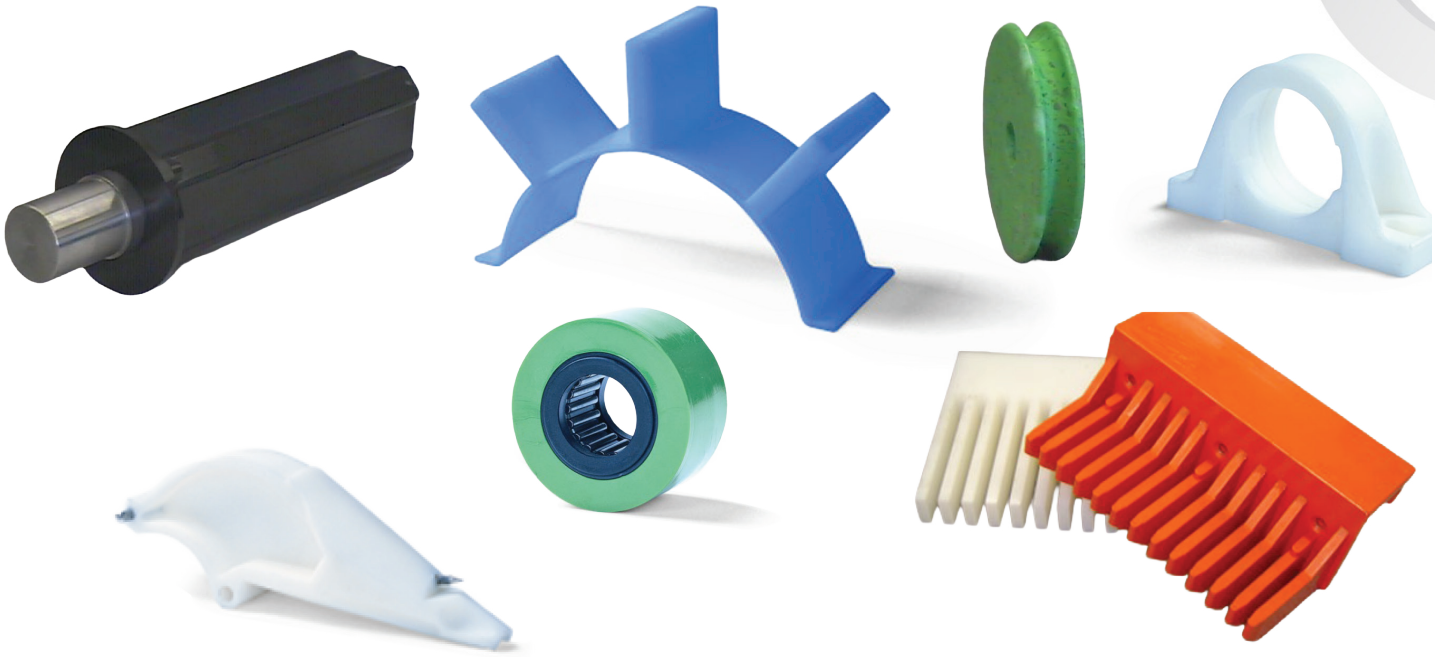
Fluidseal



RUBBER & PLASTIC

MANUFACTURING CAPABILITIES

Custom solutions • Engineered products • Multi-process manufacturing

www.sealsonline.com

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

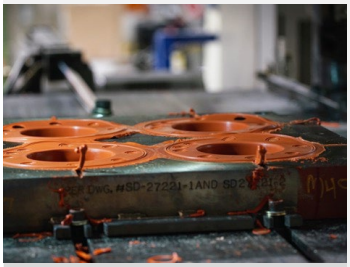
SPECIALTY CUSTOM PRODUCTS

- 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!

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Rubber molding technologies



Compression Molding



Transfer Molding



Injection Molding



Overmolding

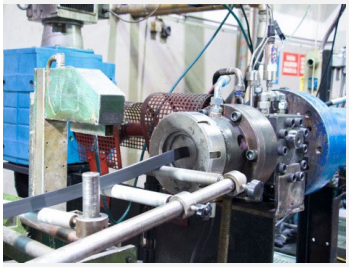
CORE MOLDING PROCESSES

- 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

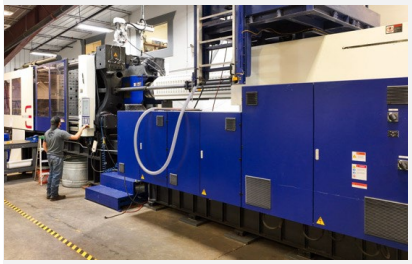
- Extrusion
- Mold making
- Metal stamping
- Die & waterjet cutting

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.

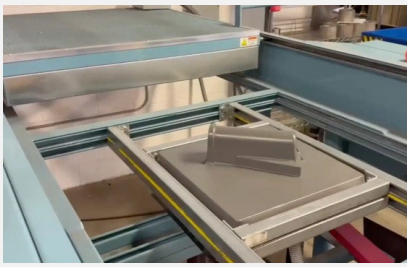
Precision plastic & urethane manufacturing



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.

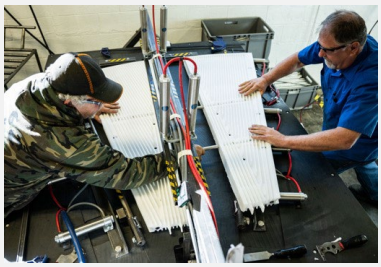
Fabrication, tooling and hybrid design



Urethane Casting



Overmolding & Insert Molding



MultiFab Hybrid Design



In-House Tooling & Design Engineering

SECONDARY CAPABILITIES

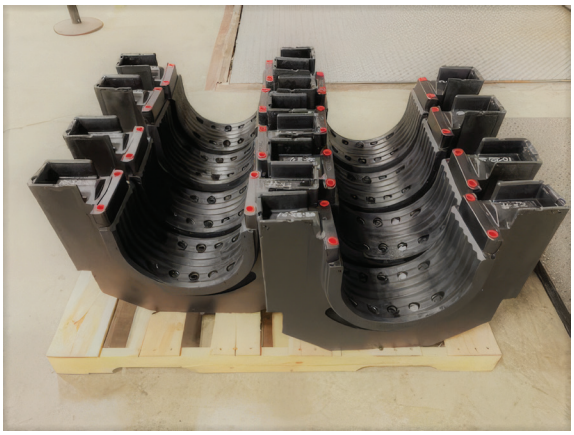
- Urethane casting
- Overmolding & insert molding
- MultiFab hybrid design
- In-house tooling & design engineering

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.

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

A few of the industries we serve



AGRICULTURE



CAR WASH



CONVEYING/
PACKAGING



EGG
PROCESSING



FOOD
PROCESSING



FOREST &
LUMBER



MINING



POLTRY



SOLAR POWER

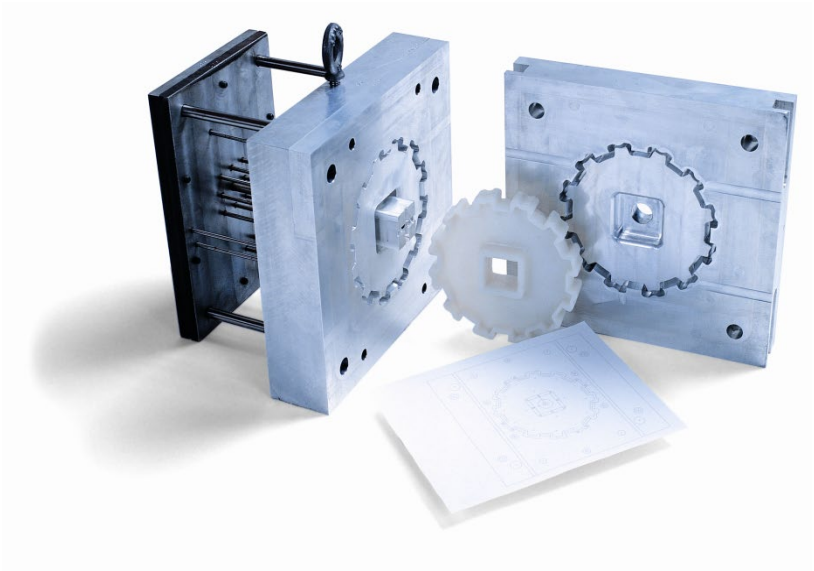


WATER TREATMENT
SOLUTIONS

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

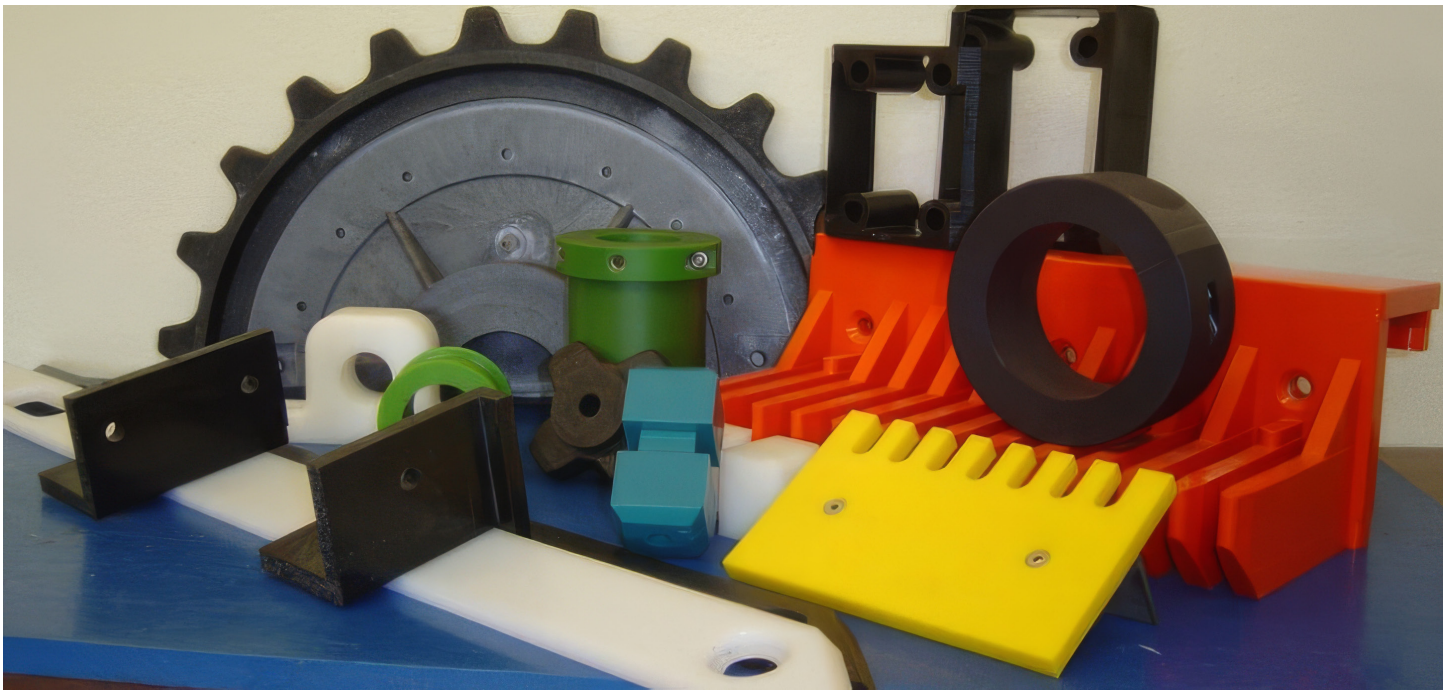
- Thermoset polymer formulated in a variety of durometers
- Can be poured into sheets or cast into shapes
- Can be bonded to metal rolls and plates
- Well suited for low to medium volume runs

FABRICATION

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

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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.





MACHINED & MOLDED BUSHINGS

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

FOOD GRADE & INDUSTRIAL BEARINGS

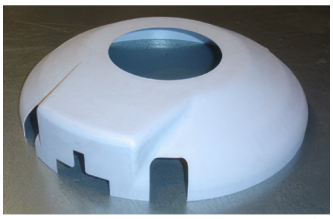
- Engineered bearing components
- Custom molded and machined solutions
- Designed for demanding industrial applications

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

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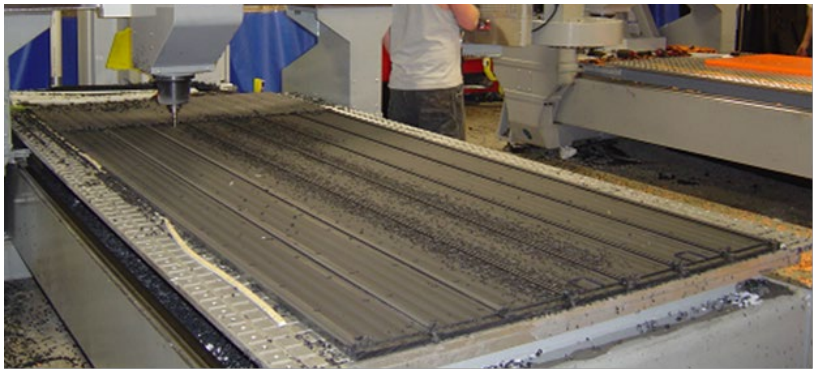


SOLAR PANEL ROCKER BEARINGS

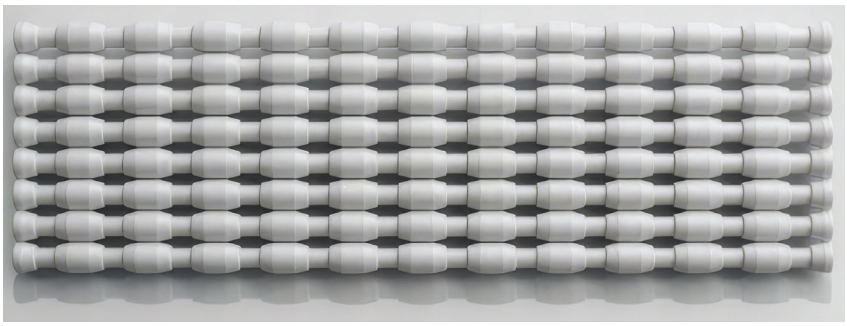
- Used in the solar industry
- Mounting bearings follow the sun's movement
- Molded from UHMW for wear, low friction and high impact qualities

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





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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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

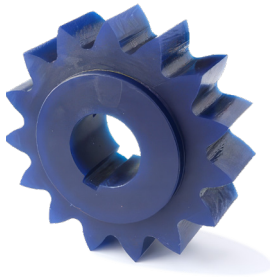
03 | COMBINE

- Overmolding
- Insert molding
- MultiFab hybrid design

04 | DELIVER

- Volume
- Repeat business
- Long-term relationships







DESIGNING SOLUTIONS, DELIVERING RESULTS

Fluidseal


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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