

Hydraulic, Pneumatic & Rotary Sealing Components

- Products that set new standards for reliability
- Complete portfolio of sizes, designs and materials
- Application Engineering with extensive and proven track record of success
- Fully integrated production facilities ensure the highest quality standards
- Innovative manufacturing methods that improve value and speed delivery
- Extensive global distribution and logistics network



*Keeping the power in production
with high reliability sealing*

Hydraulic, Pneumatic & Rotary Sealing Components

Keeping the power in production with high reliability sealing

CHESTERTON Sealing Components are chosen to replace leaky, low performing, easily worn out seals that plague production. Our Seals and Components offer superior reliability and innovative designs. As a result, production does not have to stop as frequently for repair or replacement.

Innovative manufacturing excellence

Our manufacturing methods are fast, flexible and adaptive, for high price/performance value. This is particularly influential when in need of either small lots or large diameters, which Chesterton can provide without having to charge a premium.

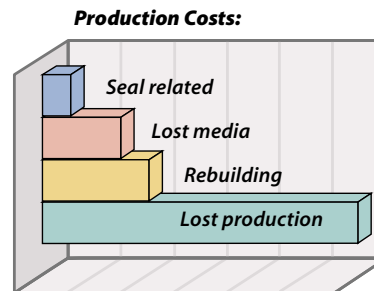
Global Distribution and logistics support

Our renowned Global Distribution network stocks, sells and services Chesterton products in 100 countries worldwide. Local Chesterton Field Specialists are linked and supported by a state-of-the-art logistics network, to provide customers with the best applications assistance and service available in the industry.

Full range of sizes, designs and materials

CHESTERTON manufactures seals with diameters from just a few millimeters up to more than a meter.

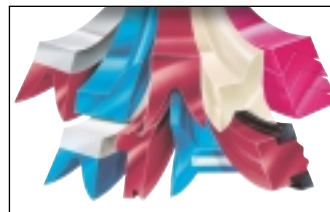
- Wipers
- Rod Seals
- Piston Seals
- Bearing Bands
- Rotary Seals
- Custom Kits



Reliability = Savings
Greater reliability translates into significant savings by keeping equipment up and running longer, without need of maintenance or repair.



Global Presence
With product, applications, engineering and IT support worldwide.



Generating savings by reducing lost production and maintenance costs

All savings figures in \$USD.

Automotive

- Service life increased 8X over OEM seals on two hydraulic stamping presses, resulting in a plant conversion on all 60 presses.
- Saving over \$1.2 million per year on counterbalance cylinders for 23 presses, through elimination of air leakage and longer seal life.
- Improved service life 10X on seals with over 80,000 km seal travel using cylinder upgrade program on hydraulic transfer presses.

Mining

- Saved over \$600,000 by utilizing our cylinder upgrade program, improving service life 6X in longwall ram cylinders.
- Increased service life by 10X in underground loading and transport equipment used in salt mining, accumulating savings in excess of \$400,000.
- Increased service life from 400 hours to 2,800 hours on hydraulic shovel.

Plastics/Injection Molding

- Replaced leaky main ram seals on 700 Ton machine and achieved leak-free sealing, at lower friction, generating less heat and using less energy, thus reducing clamp closing force.
- Improved service life on 1800 Ton main ram from three months to ten years and counting, resulting in plant conversion.
- Quadrupled seal life along with eliminating oil leakage and disposal cost, saving over \$200,000 from just two machines.

Presses

- Doubled service life of seals used on main press cylinders for a chipboard press, saved over \$505,000 in lost production in 25 months.
- Improved seal service life in counterbalance cylinders by 12X and saved in excess of \$140,000 over two years on 80 vertical presses in the furniture industry.
- Saved \$320,000 in lost production by increasing seal life 6X on 10 loader cylinders used for mechanical stamping presses.
- Increased seal life by 10X over OEM seals on main ram for 3500 Ton aluminum extrusion press.

Tire

- Increased service life 11X on center post mechanism application. Now used on all 20 presses used to manufacture automobile tires.
- Saved in excess of \$137,000 and doubled service life on rubber batch mixing equipment.
- Saved \$48,000 in one year per press and increased service life 4X on center post mechanism cylinder used on the vulcanization press.

Power

- Increased service life to 5X on burner damper controls in fossil plant, all units have since been converted.
- Eliminated gear oil leakage of 1,000 liters per day and increased service life to 9 years and running for Kaplan turbine.

General Industry

- Increased equipment performance and saved \$488,000 in two years on paint pump application.
- Increased life of rotary oil seals 7X on motor of hydraulic impact wrench.

Pulp & Paper

- Increased seal life on gearbox 4X and eliminated oil leakage on brown stock rotary washers.
- Reduced water consumption from 22 GPM to 1.5 GPM and increased service life using split restrictor bushing.

Wastewater

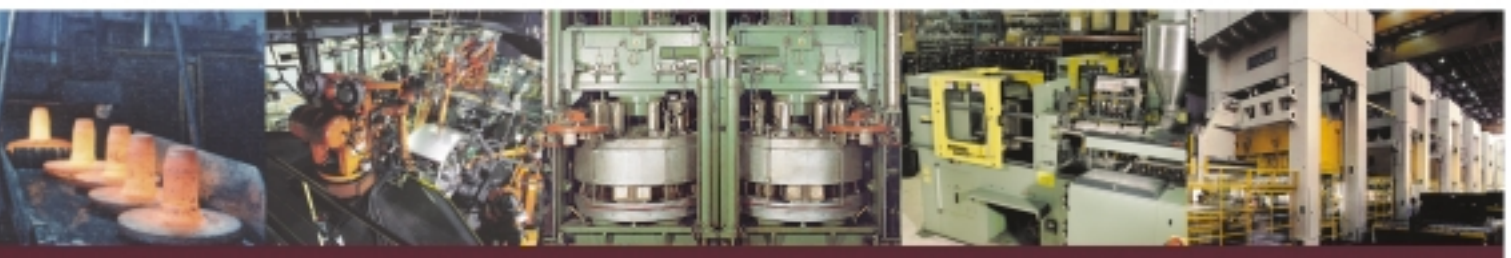
- Improved performance 3X and eliminated flush on sixteen triplex plunger pumps.
- Increased service life 6X in plunger pump application, saving 3 costly rebuilds per year, per pump.

Steel

- Reduced consumables and overall operating costs on 50-inch hydraulic pipe tester by improving MTBM from 70 tests to 2,900 tests.
- Saved over \$100,000 per year in water leakage using a restriction bushing on horizontal split case pump in compliance with API Plan 21.

Food & Beverage

- Increased service life from one month to two years under elevated temperatures in homogenizer.
- Saved \$262,000 in chocolate by replacing leaky seals on mixers and holding tanks.



Engineered Polymeric Solutions

A special service from CHESTERTON, providing custom solutions to meet performance targets

- For rotary & reciprocating applications
- Exploiting the full range of materials
- Providing engineer-to-engineer contact
- Product concept through development
- Solving the most difficult aftermarket problems
- Meeting OEM price/performance criteria

Knowledgeable and experienced application engineers

Our Engineering staff has spent years solving the most difficult sealing problems. They can shed light on problems that afflict production and maintenance, and bring solutions from comparable situations.

Extensive track record of success

Chesterton Engineered Polymeric Solutions are solving problems across a wide range of applications: Actuators, Valves, Pumps, Accumulators, Presses, Gear Boxes, Rotary Shaft Seals, Mixers, Rollers, Instrumentation, Compressors, Swivel Joints, Robotics, Machining Tools and more.

Exploiting the full range of available materials

We exploit the full range of state-of-the-art plastics and polymer materials, to provide the exact, custom parts needed.

No challenge too big or too small

We have provided seals with diameters measured in just millimeters, up to parts with diameters measured in meters. We can provide one part or tens of thousands.

For Aftermarket and OEM's

Solutions for the Aftermarket are designed to improve performance, reliability and economy. For the OEM, our engineers will work with your team to arrive at the ideal polymeric sealing solution to address costs and performance as well as fulfilling warranty needs.

Combination/hybrid solutions available

Engineered Polymeric Solutions can exploit Chesterton sister technologies in Mechanical Seals and Compression Packing, to provide innovative and cost-cutting hybrid solutions.

Engineer-to-engineer problem solving delivers performance and economy.

