



# HUNPRENCO

Leading precision engineering for  
the glass container industry



## Our Pedigree

Established in 1969, Hunpreco began life as a small engineering workshop in a disused stable. Fast Forward to today and the company has grown to consist of two manufacturing facilities employing more than 109 personnel. Recognised as the largest plunger and cooler manufacturer to the glass and container industry throughout the world, Hunpreco is a major force within the industry with quality and reliability second to none.



## Welcome to Hunpreco, leaders in precision engineering for the glass container industry.

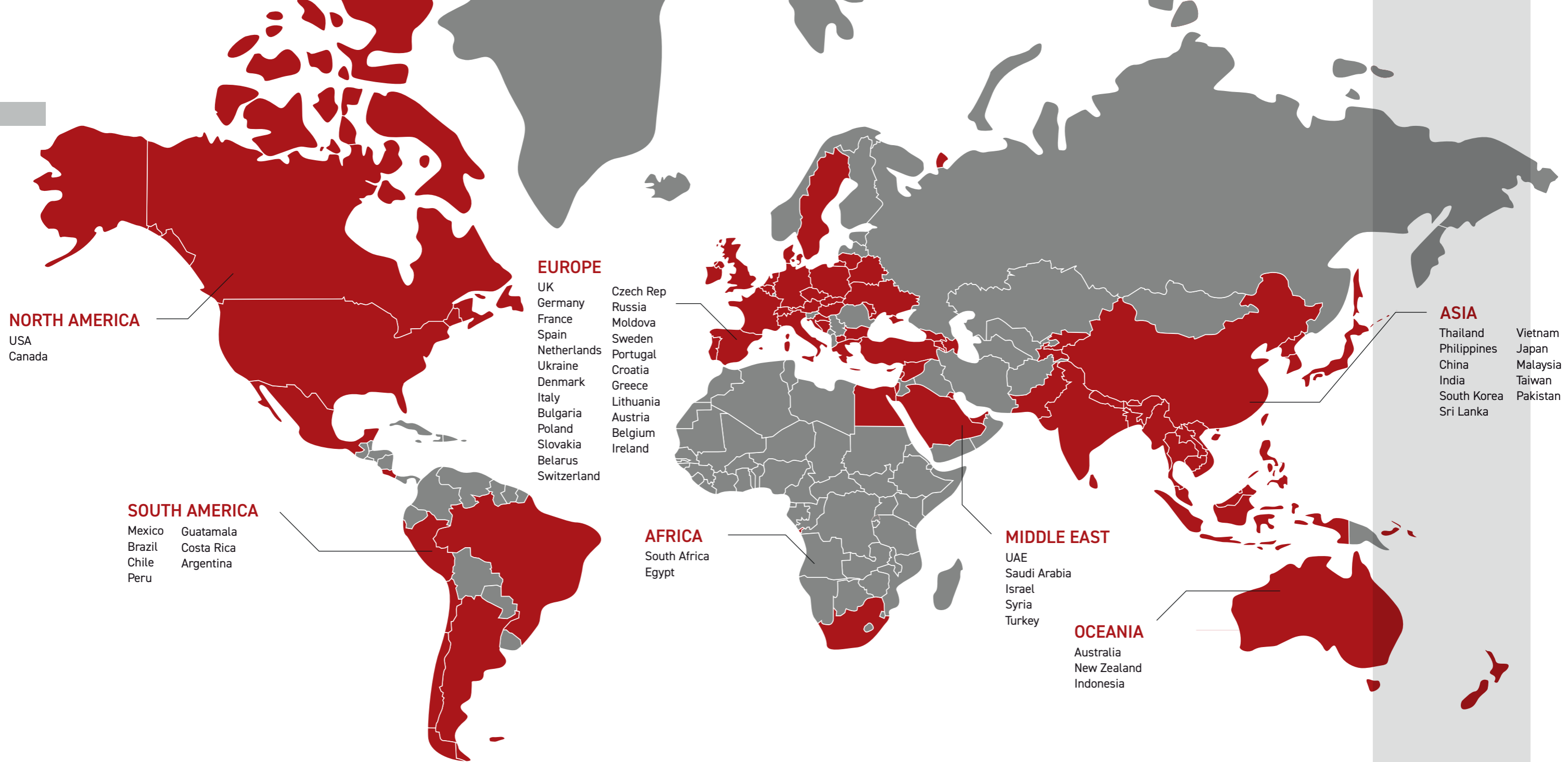
With a history that is deeply rooted in the manufacturing of plungers and coolers for the glass container industry to support NNPB and Standard Press/Blow operations throughout the world, Hunpreco is recognised as the leader in precision glass engineering.

## Vision

A Hunpreco, our vision is simple. We have an enduring commitment to delivering the highest standards in quality in the glass container industry.

We ensure our continually high standards are maintained by adhering to methodical procedures, gaining ISO accreditations and offering excellent service and reliability to our customers at all times. Each component is checked at every stage, both dimensionally and visually, for any defects by the quality department.





## A Global Supplier of Bespoke Design and Manufacture






While our roots are firmly rooted in North Yorkshire, our reputation as global leaders in precision engineering for the glass container industry continues to grow.

Our global customer base includes companies within the glass container industry in many countries around the world including Eastern Europe, America, China, Europe, Japan, Australia and New Zealand.

Our reputation in the Precision Engineering sub-contract market is built upon our customer service.

We are known for the quality and consistency of our machining and our rapid turnaround of components. All this is supported by our audited quality system, certified to ISO9001.

### The Numbers That Count

-  **50** plus countries supplied
-  **250,000** items manufactured
-  **£9.0 million** turnover
-  **25%** exports to European markets
-  **109** Employees
-  **20%** of our skilled workforce supplied by our apprenticeship scheme
-  Holder of **ISO9001** Since 2010
-  **85%** Exports as percentage of total sales
-  Over **50** years supplying quality products to the glass container industry



# Plungers



## Continuous Investment and Expansion

Made up of three divisions, the Hunpreco group of companies have grown from strength to strength owing to various expansion programmes and continuous investment over the years.

Today, Hunpreco's capabilities allow them to manufacture large quantities of plungers and coolers to enable them to maintain its status as an industry leader.

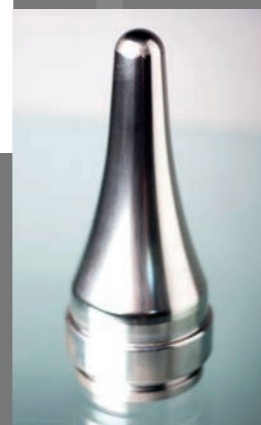


## Precision Parts

**Working closely with glass container companies, we have developed material and production methods to assist the glass container industry in its efforts for increased efficiency, reduction in downtime and improved environmentally friendly quality containers.**

Our expertise in NNPB production helps customers increase production speeds and save energy, while also improving ROI through the production of lighter containers. With a perfect combination of steel-based plungers coated with tungsten carbide and nickel-based powders, we deliver excellent hot hardness figures, lubricity and working life.

Our plungers are manufactured with various coatings, applied by state-of-the-art technology ensuring a uniform dense coating.



## HVOF Coatings

High Velocity Oxygen Fuel (HVOF) technology is used for coating plungers, robotically applying the coatings at speeds in excess of Mach 2, then using a complex fusion process to metallurgically bond the coating to the base material.

The fusion process allows for a high bond strength to ensure a uniform, dense and porous free coating with the options of a surface hardness of 45HRc to 65HRc to meet different customer requirements.

# Coolers



## Manufactured to Specific Requirements

Developed in 1999, our cooler division enables us to provide cooling tubes for both NNPB and Standard Press/Blow production.

Tube coolers are swaged to meet customer requirements for profile and accuracy, using swaging dies manufactured in-house to cover a wide range of tube sizes in both mild steel and stainless steel.



## Enhanced Cooler Performance

Our swaging technique ensures a uniform wall thickness and maintains concentricity to give excellent base fit and assembly, also allowing the internal tip profile to smoothly follow the external tip profile to improve cooling air flow within the plunger.

In addition, an anti-rotation mechanism has been implemented to eliminate movement and enhance cooler performance.

All cooling tubes undergo inline inspection, as well as final inspection, which includes a water and airflow test for vent hole clearance. A certificate of conformity is issued with all goods dispatched.



## Tube Stock & Material Specifications

### Stainless Steel Tube 304, 306

8.0mm O/D	0.5mm wall 1.0mm wall
9.5mm O/D	0.5mm wall 0.7mm wall
10.0mm O/D	0.5mm wall 1.0mm wall
11.0mm O/D	0.7mm wall
12.7mm O/D	0.5mm wall 0.7mm wall 0.9mm wall
13.0mm O/D	1.0mm wall
14.0mm O/D	1.0mm wall
15.88mm O/D	0.7mm wall
22.0mm O/D	0.9mm wall

### Alloys

9.5mm O/D	0.5mm wall
10.5mm O/D	0.5mm wall

### Mild Steel Tube 3602

8.0mm O/D	0.7mm wall
9.5mm O/D	0.7mm wall
10.0mm O/D	1.0mm wall
12.0mm O/D	0.9mm wall
12.7mm O/D	0.7mm wall
22.0mm O/D	0.9mm wall

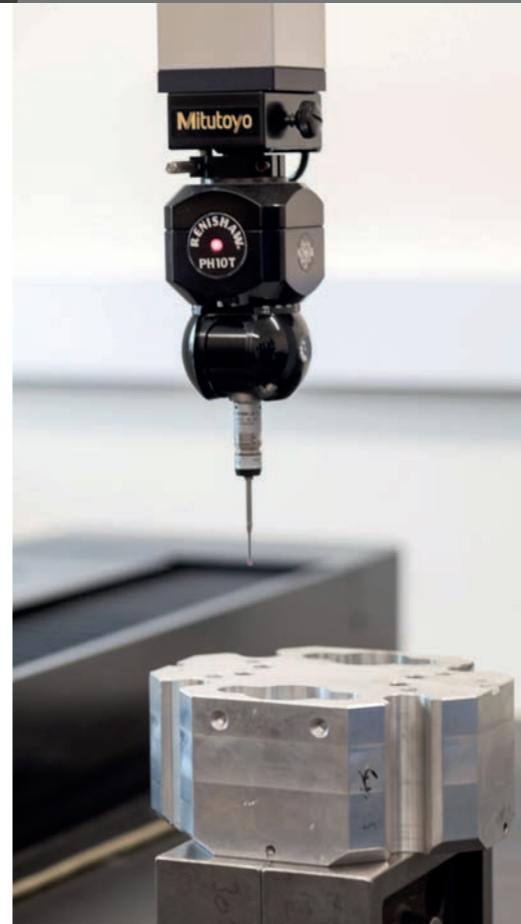


# Machine Parts

## A Complete Service For Your Business

Hunpreco also manufacture a wide range of machine parts including adapters, split collars, verti-flow plates, mould arm inserts, pistons, sleeves and coated rollers for printing and other industries to customer requirements.

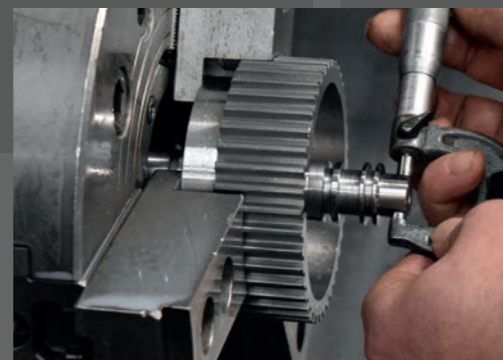
Our Precision Engineering division has the ability to manufacture, coat and grind components, as required. As single units to medium batch sizes, from simple seals to very complex manifolds, covering a wide range of sectors including roller manufacture, printing, glass, pumps, shafts, gearboxes and also more general engineering.



## ISO 9001 Certification

In May 2009 Hunpreco was accredited with the ISO9001:2008 standard (due to be revised to ISO9001:2015 in May 18). This high standard has been maintained by adhering to methodical procedures, high standards in supplying quality products, offering excellent service and reliability to all their customers.

Each component is checked at every stage, both dimensionally and visually, for any defects by the quality department. A final inspection is carried out using the latest computer-controlled coordinate measuring system, fibre optics to visually check internal profiles and also check on the surface finish.



## A Comprehensive Range of Machinery

With a comprehensive range of four and five axis CNC milling, drilling and turning machines, as well as a six axis cylindrical grinding machine, we are able to handle the majority of customer requirements. We offer:

- Modern workshops complete with CNC technology
- A dedicated and experienced team
- Batch work up to 10,000 Units
- Prototype work
- Competitive prices
- CAD/CAM programming
- A diverse range of industry sectors, components and materials
- Rapid turnaround with reactive service
- High quality and accurate machining



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