




**HALIFAX  
RACK &  
SCREW**

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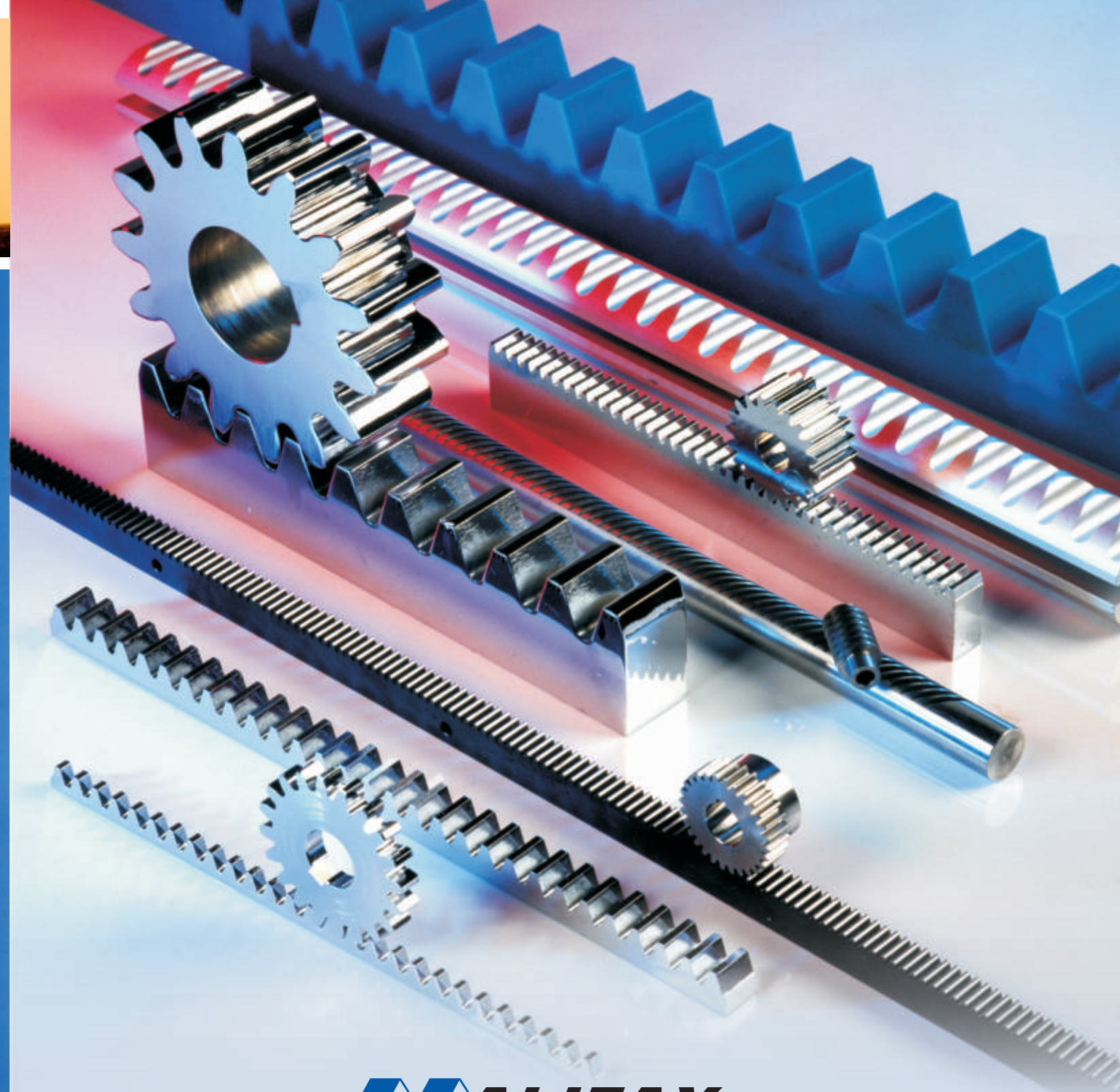
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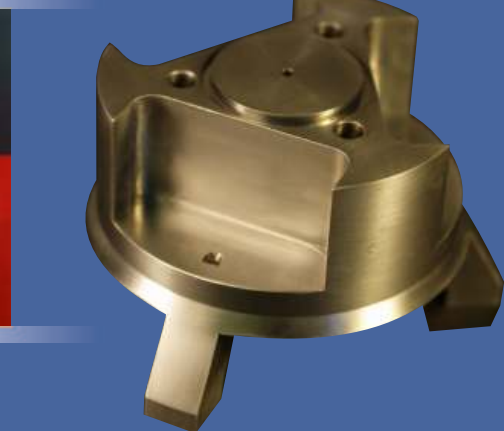
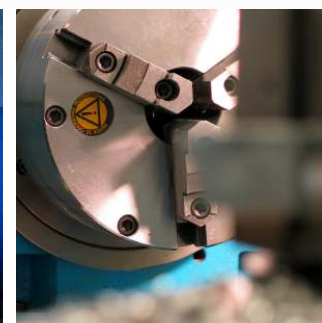
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**HALIFAX  
RACK &  
SCREW**

Specialists in rotary to linear motion





# HALIFAX RACK & SCREW

HRS is one of Europe's largest specialist manufacturers of precision gear racks, pinions, lead screws and nuts.

HRS products can be found in applications from the top of the world's tallest buildings to the bottom of the oceans, from power generation to water irrigation, from mechanical handling to lifts and elevators. In fact, our products can be found everywhere in everyday life.

## Products

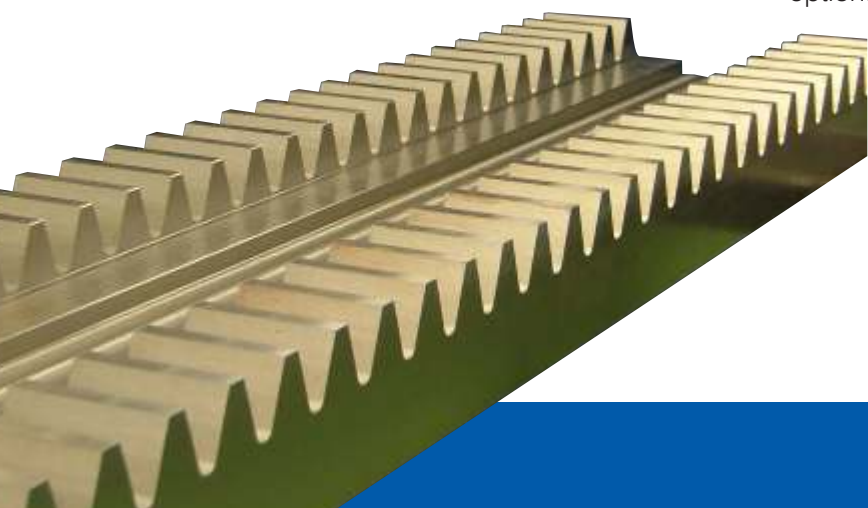
HRS products are primarily utilized in applications converting rotary motion to linear motion. A wide range of products are kept in stock, or can be manufactured to customer specifications:

- Gear racks in Spur and Helical tooth form in steel, stainless steel, plastic, bronze or brass manufactured in flat, round, "T" and "L" sections together with special profiles.
- Commercial and high precision grades of gear rack.
- Gear pinions
- CNC machining
- Machine cut Acme, trapezoidal, stub acme, modified square design screws and other thread form designs
- Machined parts

## Manufacturing Capabilities

The HRS niche production facility is one of the largest of its kind in the world today. The combination of dedicated gear rack and screw manufacturing equipment and a highly skilled and knowledgeable workforce provides HRS with the capability to manufacture both standard and customized products. In addition, HRS can also provide customers with an extensive range of sub-contract CNC machining facilities. A large stock of raw materials and warehousing in both the U.K. and the U.S. allows for flexible manufacturing and delivery options, including just-in-time supply programs.

The production facility is dedicated to precision manufacturing and has benefited from considerable ongoing investment. This includes an extensive range of modern CNC machines specifically designed for precision rack and screw manufacture. All parts are manufactured under a total quality system and subject to final inspection before dispatch working to ISO9001-2001 accreditation.



## Services

In order to provide the best service possible to customers and to reduce costs, HRS has put in place a number of procedures. These include:

- The negotiation of raw material prices on annual contracts, reducing costs and eliminating price volatility
- The holding of large stocks of raw materials, improving delivery times and allowing for the quick turn-around of prototypes
- The outsourcing of associated products to provide a one-stop-shop for customers
- Networked warehousing facilities in North America
- Stocks of standard size racks and screws held for immediate delivery
- Support for customers on Kanban systems
- Heat treating and finishing of all materials to customer specification
- Continuous product improvement programs
- Cost reduction programs

## Applications

HRS racks and screws are used in countless applications in a wide range of industries, including:

- Aerospace
- Automotive
- Defense
- General Engineering
- Lifts and Elevators
- Machine Tools
- Mechanical Handling
- Medical Equipment
- Mobility Aids
- Oil, Gas and Offshore
- Power Generation
- Power Transmission
- Ship and Boat Building
- Textile Machinery
- Transport
- Water Irrigation and Sewage

