

**Gaskets
Spiral Wound Gaskets
Mechanical Seals
Gland Packings
Metallic Gaskets**



East Anglian Sealing Co Ltd

www.easeals.co.uk



East Anglian Sealing - Providing Gasket Solutions throughout the UK, Europe, Africa and the Middle East

Established in 2002, but with highly experienced staff, East Anglian Sealing manufactures and supplies many different types of gasket and sealing parts to all sorts of industry in countries across the World.

With a comprehensive customer base, we supply a huge selection of cut gasket parts—from simple washers in flexible and rigid materials to high-pressure chemically inert gaskets used in Nuclear applications.

As an ISO9001 approved company we offer a highly competitive service with the fastest turnaround possible. With a highly experienced team we can often produce parts using one of our tool-less production machines or for higher-volume work, by using tooling designed here with automatic presses to ensure the 'best value' product and service.

Stocks of materials at our sites in the UK are maintained at levels to ensure the soonest delivery on parts and our commitment to our customers includes part stocking for call-off without the need for long-term contracts.

Please contact our sales office with your enquiries, for a fast, professional service

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Gaskets

Introduction

Cut gaskets are produced in all sorts of materials, including Non Asbestos Fibre, Composites, Graphite, Plastics, Rubbers, Cork, Textiles, Leather, Papers, Metals etc—in fact any material suitable for sealing in the required application.

Processes

Press Cutting – sheet or roll material is fed manually or automatically into pneumatic or hydraulic presses that use either ribbon steel, or machined steel tools to press cut parts. Typically our automatic travelling head machines, are CNC operated and use nesting software to ensure maximum utilisation of material when cutting. With minimal waste, and options to use internal waste for other parts while cutting, our prices are maintained at the lowest possible cost to our customers.

Pierce and Blank – multiple part tools are used to produce gaskets such as cylinder head gaskets—normally in rigid or semi-rigid materials. These tools, although relatively expensive to produce, normally out-perform the simple die-cutting tools while also maintaining the highest tolerances possible.

Tool-less Production – we have several automatic knife and oscillating knife machines now in the group. These machines are CAD/CAM operated, requiring no tooling and capable of cutting a variety of semi-rigid and flexible materials from 0.15mm to 20mm. Drawings can be made from samples or taken direct from customers files in any format—again the systems use highly evolved nesting programs to minimise waste when cutting.

Water-jet Cutting - by using either plain water or abrasive cutting, we are able to cut almost any material up to 250mm thick. This includes all types of metals, glass, plastics, rubbers, foams, stone, fibres and composites.

Laser and Plasma Cutting - these options are used for cutting the various blanks used in the production of our high pressure metal gaskets.

Tooling

Ribbon Steel tools are the most common type of tooling used in the gasket industry. Steel blade and punches are inserted into pre-cut wood bases and suitable ejection is then inserted to ensure parts are cut properly.

Steel tools can also be produced on machining centres and multi-axis spark erosion machines.





Flexible gaskets are manufactured at our sites in Bulmer, Manchester and Cardiff and are supplied to diverse industries including:

- Aerospace - includes parts for ground support, engines, instrumentation
- Automotive - cork, non-asbestos, paper, rubber and graphite gaskets
- Chemical - resistant gaskets for the most hazardous environments
- Construction - expansion gaskets, acoustic gaskets
- Defense - cut pads, equipment gaskets, hi-performance gaskets
- Domestic Appliance - drip-shields, insulation gaskets, motor gaskets
- Electrical and Electronic - IP rated seals, transformer gaskets
- Engineering - gaskets in all types of materials
- Farming - gaskets for machinery including Tractors and Combines
- Food and Drink - FDA gaskets for processing, packing and bottling equipment
- Marine - engine gaskets, deck-plate gaskets
- Oil & Gas Industry - flange gaskets in non-asbestos, graphite, rubbers etc
- Pharmaceuticals - gaskets for mixers, glass lined vessels, filler gaskets
- Transport and Logistics - railway gaskets, tanker gaskets, man-way gaskets
- Utilities - WRAS EPDM gaskets, gas-tight gaskets, switchboard gaskets

Using the most modern equipment while maintaining our low overhead policy, highly competitive prices are offered in all types of materials. With different manufacturing sites delivery is never a problem and parts can often be cut and dispatched on a same day basis anywhere in the UK.



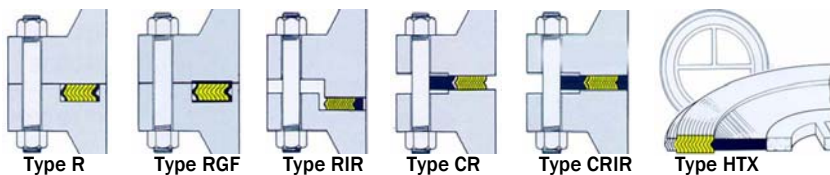
As the UK agency company for KLINGER, we offer a full range of High Pressure gaskets, typically used in the processing industries.



Various styles of Metallic High Pressure gaskets are supplied:

Spiral Wound Gaskets - we supply Klinger Maxiflex Spiral Wound Gaskets using Graphite, PTFE, Mica and Mica/Graphite fillers and various metal windings and inner / outer rings. The following types are available:

- Type R - sealing element only
- Type R graflex faced - sealing element with 0.5mm Graflex facings
- Type RIR - sealing element with solid metal inner ring
- Type CR - sealing element with solid metal outer ring
- Type CRIR - sealing element with inner and outer ring
- Type HTX - special spiral for Heat Exchanger Applications



Metallic Ring Joints - these are heavy duty, high pressure gaskets normally used in offshore petrochemical applications. All these joints are manufactured to the ASME B16.2-0 standard and available in different metals and hardness according to the chemicals and flange types involved.

KamProfiles - Klinger Maxiprofile composite gaskets incorporate a serrated metal core with a compressible filler facing material (graphite, PTFE, Mica or C4430). Available in different profiles and metals, these gaskets offer a wide range of seating stresses in low bolt loading applications in many different operating conditions.



Flexible and Semi-Flexible Washers

Simple round washers are often critical parts in many sealing applications, and are therefore over-looked.

Washers can be produced using different methods - from punching with 'bolt-punches', trepanning with rotary cutters, machining on lathes and grinders, water-jet cutting—or moulding.

Materials

All the materials we offer in our gasket production are available for conversion into washers - these include rubbers, corks, papers, fibres, plastics, metals, felts, textiles, ceramics, graphites and composite materials such as carbon fibre.



Kiss-Cutting

Many materials required with self-adhesive backing can be converted with kiss-cutting equipment. This can cut and retain parts on the backing paper, while also removing the external skeleton and cut-outs - this ensures that when applying parts on production lines, that minimum time is wasted in removing the parts from the backing.



Other Metal Gaskets

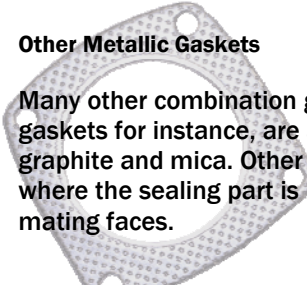


Cylinder Head Gaskets

Multi-laminate cylinder head gaskets are normally made with pierce and blank tools using a combination of materials to suit each application.

Typically steel facings on both sides are compressed around a heat-resistant fibrous laminate and eyelets (fire rings) are inserted to hold the laminates together and provide extra protection to bores.

Various rubber coatings or beads can also be applied to the outside to give



Other Metallic Gaskets

Many other combination gaskets are made for different applications. Exhaust gaskets for instance, are available in perforated steel faced materials such as graphite and mica. Other combinations include steel reinforced materials, where the sealing part is bonded to the metal and so in direct contact to the mating faces.



Clad Exchanger Gaskets

Specially fabricated gaskets used for applications such as heat exchangers are produced by wrapping metal outers around compressible resilient materials. These jacketed style gaskets include various different profiles from single jacketed to corrugated sections.

Maxigraph Gaskets

Originally known as 'Taylor Rings' this type of gasket handles both high and low compression stress in some of the most extreme conditions. The graphite or PTFE faced corrugated steel metal core acts as a spring - the more sealing pressure that is applied, the greater the resistance becomes.

Gasket Materials

Available Materials

- RUBBERS - Nitrile, EPDM, Natural Rubber, Neoprene, Fluoroelastomer, Silicone, Fluorosilicone, Polyurethane, Hypalon, Butyl etc
- CORKS - Plain, Rubber bonded, Anti-Vibration
- NON-ASBESTOS - Branded or non-branded materials
- GRAPHITES - plain, foil and perforated steel reinforced
- MICA, CERAMICS and GLASS - high temperature materials
- METALS - Steels, Alloys, Copper etc
- PAPERS - various gasket papers such as Flexoid, Statite
- PLASTICS - ABS, Acrylics, Polyethylene, PTFE etc
- FOAMS - in Neoprene, Nitrile, Fluoroelastomers, Silicone and Polyurethane including Acoustic and Class O fire retardant foams
- FABRIC and TEXTILES - Felts, woven ceramic, Nomex filter cloth etc
- ELECTRICAL INSULATION - Melinex, Nomex, SRBP, SRBF, Fishpaper etc
- Other materials such as Leather, Monel and Silver loaded Silicones, Lead, Diaphragm materials, Adhesive tapes are also used in the production of gaskets, in fact - anything that we can cut or machine that suits the application, can be supplied.

Quality

We are an ISO9001:2008 approved company working with many prestigious companies throughout the UK - including aerospace and defense companies where the highest standard levels are required.

We use various test facilities in the UK and overseas to qualify materials where required. Certain mechanical tests are carried out in-house, with further testing facilities available at our R & D centre in Bradford.



Mechanical Seals

Introduction

A full range of Mechanical Seals is available, along with technical staff with over 40 years experience in these products. A refurbishment service is also provided which includes wear component replacement.

These seals are used extensively wherever rotary shafts require sealing and can replace many older gland packing style seals –

- Mining
- Paper Milling
- Food Processing
- Chemical Processing
- Power Generation
- Oil and Gas Refining
- Refrigeration
- Pharmaceutical Production
- Waste Processing
- Water Distribution etc



Styles

We supply many different types of mechanical seals - including single and double Cartridge Seals, Bellow Seals, Component Seals, Gas Seals, Mixer and Agitator Seals, Auto-Cooling Pump Seals, Split Seals etc.

Replacement seals for makes such as John Crane and Burgmann are available, often from stock or within very short lead times.

These seals are now standard on many centrifugal pumps, compressors and most rotary shaft applications where they are the most versatile seal that can be used.

We can offer advice on the type of seal used, installation and any modifications required.



Gland Packings

Compression or Gland Packings are still used extensively in a variety of applications throughout industry. Typically retained within a recess or stuffing box, these seals are simple to replace and with correct material selection, will perform in some of the most rigorous applications.

Types of Packings

Based on application, we offer a variety of different styles of packing:

Valve Packings - these are dense, flexible temperature resistant packings that remain stable in use, with minimal extrusion under pressure providing low friction sealing in often corrosive applications.

Rotary Pump Packings - this type offers a long lasting, flexible, elastic seal that is highly resistant and lubricated to ensure rotary shafts are not damaged.

Reciprocating Pump Packings - these are abrasion and wear resistant packings that are extrusion proof, volumetrically stable while still offering low friction values.

Various materials are used in the production of our packings - these include;

- PTFE - for strong acids, alkalis, food etc in static and rotary work
- GRAPHITE and CARBON Fibre - high temperature, chemical, steam and low shaft wear in rotary applications.
- ACRYLIC - valve and pump packings for wide range of chemicals
- ARAMID - good for extreme pumping applications
- GLASS Fibre - water, gas, steam and oil applications
- NOVOLOID - suitable for acid applications
- POLYIMIDE - water, steam, oil, hydrocarbons and weak acids
- HYBRID PACKINGS - mixed fibres are used to meet the requirements of certain applications, often combining the properties of materials

Individual specification sheets for each style of packing we offer are available. Based on simple information - application, media, concentration, temp range, pressure, shaft speed, special conditions and dimensions, we are able to advise on selection and offer the most suitable materials.



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