



## Industrial Couplings

Membrane and elastomeric couplings for process industries

**METASTREAM™**

**POWERSTREAM™**

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# The complete coupling supplier

*John Crane has been successfully supplying couplings to a vast range of industries for over 40 years.*

*Metastream membrane & Powerstream elastomeric couplings ensure that the changing requirements of our customers are met, with constant innovation and development.*

## Global supplier

As the only truly global coupling supplier, John Crane is able to offer unparalleled customer service & technical support from the design stage to commissioning & inventory management over the lifetime of the plant. Operating from over 200 facilities worldwide in 47 countries, John Crane can offer specialised local support for installation, shaft alignment & 'trouble shooting'.

## Chemical & Pharmaceutical Industries

Despite the wide variety of processes, equipment, operational & safety requirements, the John Crane range of couplings is designed to meet all your needs from a single supplier.

## Pulp & Paper Plants

The John Crane coupling range is suitable for a wide spectrum of applications from the precise requirements of zero backlash for paper making machines to the rugged nature of rotating equipment in pulp mills.

## Power Generation

Suitable for wind turbines, fossil fuel power stations, hydro and nuclear plants. John Crane couplings ensure reliable uninterrupted performance on all rotating equipment.

## Food & Beverage

John Crane couplings are ideal for food processing, packaging, bottling & brewing industries. They can be supplied in special materials or coatings to suit particular requirements.

## Mining & Mineral Extraction

Our family of couplings is designed to provide maximum reliability even in the harshest & most abrasive environments.

## Original Equipment Manufacturers

As a leading supplier to manufacturers of rotating equipment, Metastream membrane & Powerstream elastomeric couplings are designed to meet specific requirements & give a long life, thus exceeding your customer expectations.

## Marine

John Crane has the knowledge and expertise to supply couplings, for use in the harshest environments, on the extensive range of applications found in the marine industry.

## Training

Training programmes combining theoretical aspects of coupling technology with hands on installation & alignment maintenance are available either on your site or at our own training facilities.

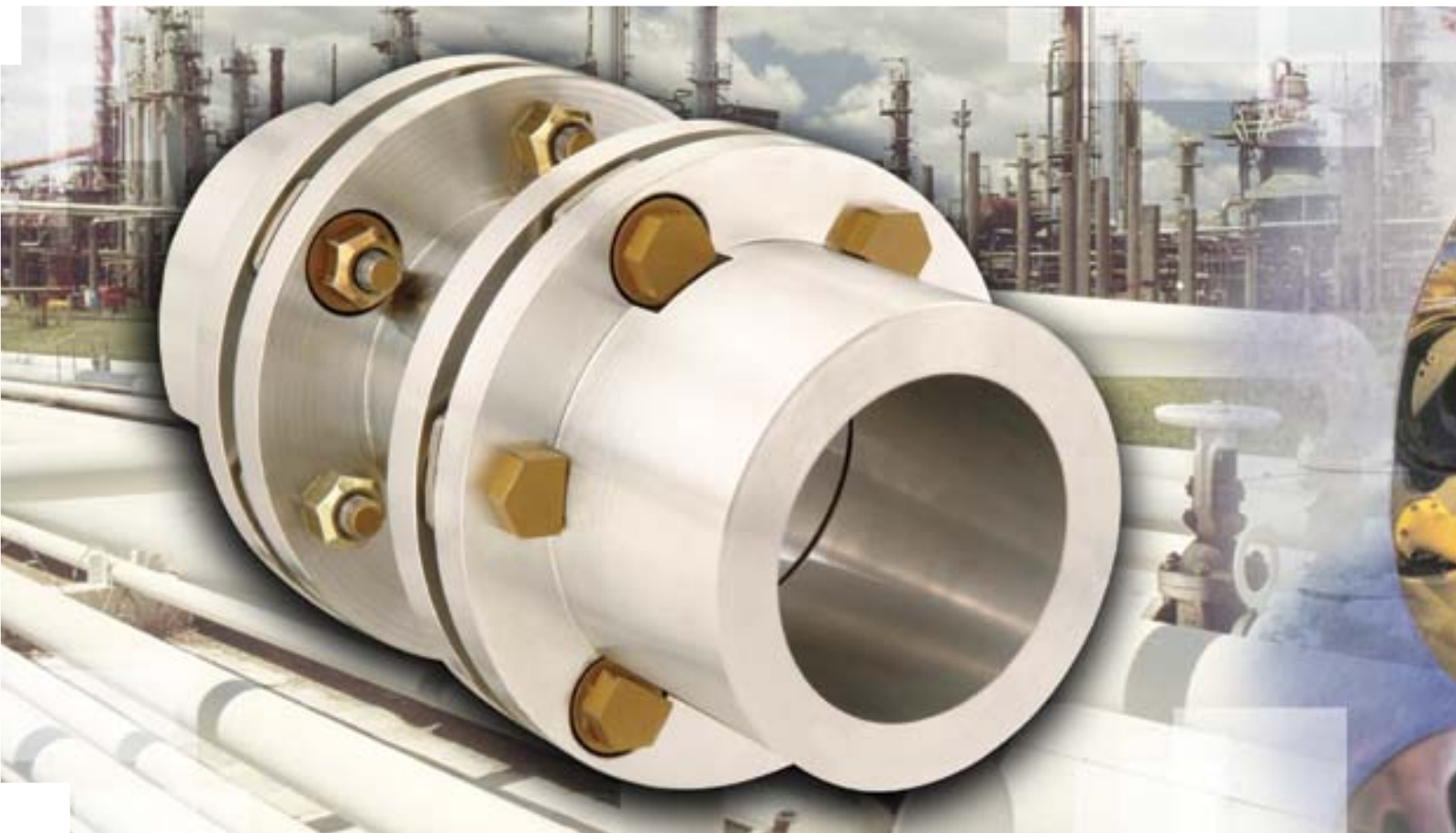
Wherever a shaft rotates and a coupling is required, John Crane has the solution for you.

# Membrane Couplings

- *Most cost effective all metal membrane coupling for demanding applications*
- *Unique concept allows coupling to be selected on rating with hubs supplied to suit shaft diameter*
- *Modular design ensures couplings are very easy to install on site*
- *Large range of standard couplings supplied from stock*
- *Complies with ATEX 100a for use in hazardous environments on Group II Category 2 Equipment*

## L Series

- Membrane packs supplied as a factory assembled units to ensure easy installation
- Excellent power to weight ratio ensures low forces imposed on bearings so increasing periods between shutdowns
- Zero backlash, so critical to applications such as paper making & packaging machines where speed fluctuations cannot be tolerated
- No lubrication required & totally maintenance free
- Overload collars protect the membranes if severe torsional overload occurs
- Stainless steel flexible membranes for maximum life
- Couplings supplied to AGMA class 8 balance as standard
- Standard range to 25,000 kW / 1000 rpm (235,000 Nm) & speeds in excess of 18,000 rpm



# Elastomeric Couplings

- *Designed to transmit torque & damp out vibrations even at high misalignments*
- *Directly interchangeable with industry standards*
- *Hubs can be supplied with bores, finished machined to suit your needs, normally from stock*
- *Supplied with high quality nitrile rubber flexing elements & cast iron hubs but other materials are available*

## P, K & N Series

The P Series is a very easy to install 3 component jaw coupling specially designed for Original Equipment Manufacturers. Users can upgrade to the K Series which allows the replacement of rubber elements without disturbing the equipment. Both couplings can be supplied as spacer versions - the N Series.

## Q Series

Torsionally soft tyre coupling designed to accommodate large

amounts of axial, radial & angular misalignment. Ideal for applications where excessive shock loads can occur.

## B Series

Small dimensions & low mass give an excellent power to weight ratio. Design ensures that should excessive torque fluctuations occur, the operation of the coupling is not affected. Can be supplied as a close coupled or spacer design.



# T & M Series Couplings



T & M Series couplings are the first choice of the majority of the world's energy suppliers. Constant innovations in the design & supply of Metastream couplings ensure that changing demands are met. Metastream couplings fully comply with API specifications, the industry standard.

## High performance couplings

John Crane is also a leader in the supply of high performance couplings typically for use on high speed land & marine based gas turbine drive systems.





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For your nearest John Crane facility, please contact one of the locations above.

If the products featured will be used in a potentially dangerous and/or hazardous process, your John Crane representative should be consulted prior to their selection and use. In the interest of continuous development, John Crane Companies reserve the right to alter designs and specifications without prior notice. It is dangerous to smoke while handling products made from PTFE. Old and new PTFE products must not be incinerated.