

# PTFE Faced Hydrodynamic Bearings

**As the inventor of the hydrodynamic bearing over 100 years ago, we have continued to innovate and develop our products to meet the changing needs of the industry.**

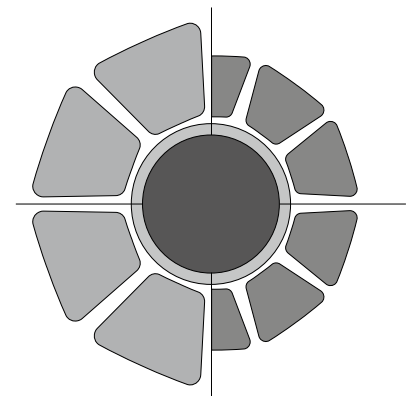
Michell Bearings' development of the PTFE bearing began in the mid 1990s when investigative test work established that the material could operate at specific loads, significantly higher than that of white metal (or babbitt) bearings, without high pressure oil injection.



**Our in-house design engineers work alongside our specialist manufacturing teams in the UK and India to provide you with high quality, innovative hydrodynamic white metal, PTFE and PEEK lined bearings serving a range of industrial, commercial marine and naval markets.**

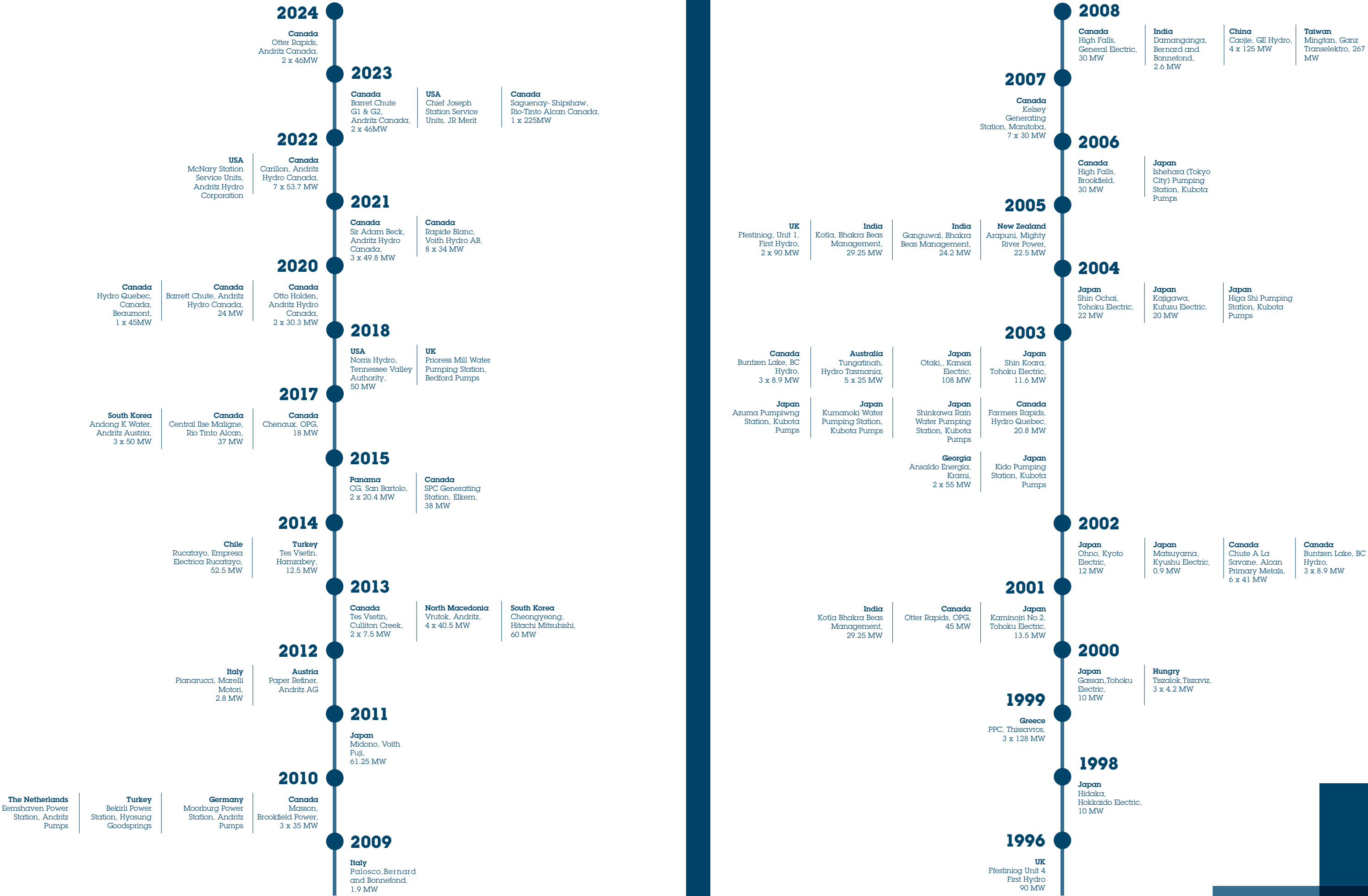
Our PTFE thrust pads provide both technical and operational advantages for a range of applications when compared to white metal:

- Increased load carrying capacity
- Smaller and lighter bearings
- Reduced power losses
- Superior friction and wear characteristics
- Complete elimination of high pressure (HP) oil injection
- Highly "forgiving" material
- Ideal material for problematic white metal applications
- No catastrophic failure mechanism
- Sacrificial material



Same scale plan drawings of identically loaded white metal and PTFE bearings

# Applications



# Our Total Customer Support Model

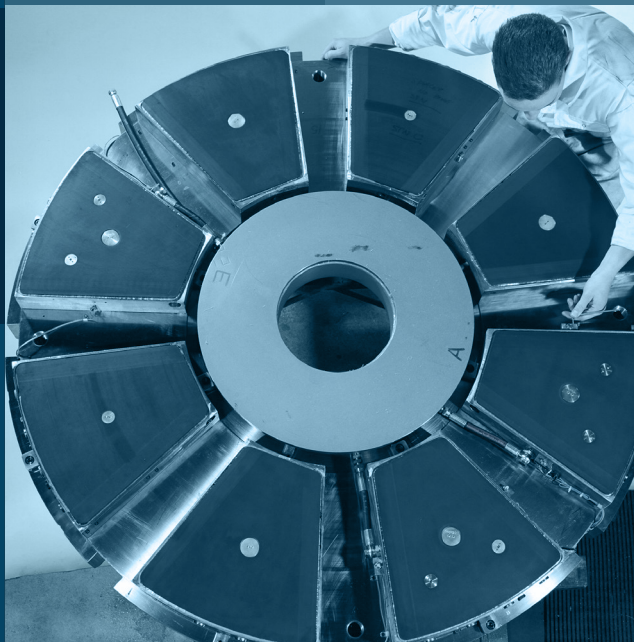
Our Michell Bearings customer support model ensures that you will have peace of mind throughout the lifetime of the bearing solutions that we engineer.

We know that bearing failure is serious; that downtime is expensive and with this in mind, exacting maintenance and servicing is key. If the worst happens speed of response is critical to ensure repair of existing parts or availability of replacement and spare parts.

Our global network and 24 hour manufacturing capability ensures Michell Bearings can react quickly and efficiently to the requirements of our customers. We have the in-house technical expertise to undertake virtually any white metal bearing repair, whether on an original Michell Bearings product or any other manufacturer's product.

However, service is the key to preventing bearing failure. Our dedicated service team, all highly trained engineers, travel all over the world to carry out both installation and routine service work in both the marine and industrial sectors.

Michell Bearings offers tailored, structured maintenance programmes to ensure bearing reliability. Whether scheduled or unplanned our diagnostic and corrective maintenance is vital to the continued smooth running of your operations and the satisfaction of your customers.



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