

## DATA SHEET // COMMERCIAL STERNGEAR

Our complete propulsion packages feature components that are hydrodynamically designed and totally integrated to promote clean and undisturbed water flow into the propeller area. The MMPI propulsion system is a 'mix and match' concept that allows customers to select all or just part of the complete arrangements we design and build.

# MMPI

MICHIGAN MARINE PROPULSION  
INTERNATIONAL

## MICHIGAN THE ULTIMATE IN STERNGEAR SYSTEMS

At Michigan we prepare and submit plans, manufacture and arrange survey of equipment all to the approval of major classification societies.

For the ease of shaft alignment and bearing service we can design arrangements utilizing the chockfast method.

Propellers and couplings can be machined for hydraulic fitting to the propeller shaft assembly.

With an extensive portfolio of world class products our goal is not only to supply the definitive in propeller and sterngear design but also to assist customers in reducing sterngear system installation costs and ultimately vessel build time.

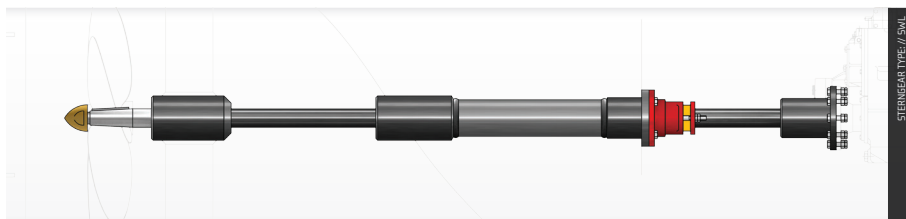
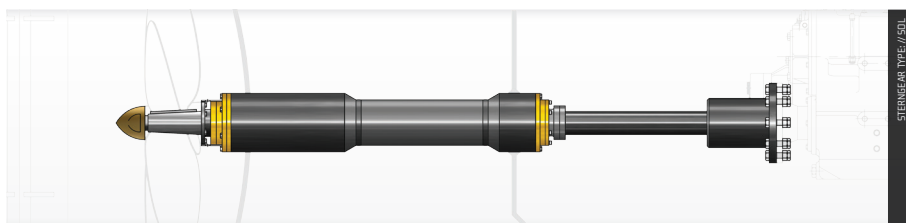
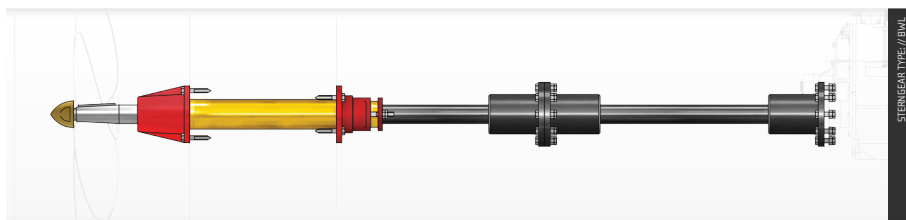
Complete custom built schemes include;

- Shaft brakes
- Muff couplings
- Bobbin shafts and flanges
- Hydraulic mounting kits
- Bulkhead seals
- Sacrificial Anode schemes
- Nozzle rings
- Rudder stocks and flap rudders
- Hydraulic steering



## THE COMPONENTS

MICHIGAN propeller shafts are produced in Duplex Stainless Steel material that delivers enhanced corrosion resistance, increased mechanical properties and greater strength when compared to traditional stainless steel shafts. These features combine to allow the design of smaller diameters and the added benefit of cost and weight reduction, the later being particularly significant for high performance craft.



## WHY FIT OR INSTALL MICHIGAN COMMERCIAL STERNGEAR?

- ▷ More than 100 years of marine propulsion manufacturing.
- ▷ A diverse range of propulsion components and solutions.
- ▷ World class support from our in-house Naval Architect team.
- ▷ Advanced evaluation and analysis software.
- ▷ Global locations throughout the Americas, Europe and the Middle East.
- ▷ Standard off the shelf accessories or tailored bespoke systems.
- ▷ On-site installation and shaft alignment by our own engineers.
- ▷ In house plans preparation and submission to Classification society.
- ▷ Built to the rules of all major Naval registers.
- ▷ The very latest technology and materials.
- ▷ All components 100% checked and assembled prior to shipment.

MICHIGAN WHEEL WAS ESTABLISHED OVER 100 YEARS AGO – THE BUSINESS WAS BUILT ON A FUNDAMENTAL PRINCIPLE OF ENGINEERING EXCELLENCE AND EXPERTISE.

TODAY WE CONTINUE TO FOCUS ON THESE VALUES AND SUPPORTED BY OUTSTANDING DESIGN TECHNIQUES AND A DIVERSE PRODUCT RANGE, WE OFFER A PROPELLER AND PROPULSION SERVICE THAT IS GLOBALLY UNRIVALLED.

**MMP**  
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