



DRIVELINEMARINE





FAMILY-OWNED COMMITMENT FROM NZ TO THE WORLD.

Family-owned businesses have something special. A core value that larger corporations cannot duplicate. When you have three generations of a family involved in a business, there's a genuine desire to look out for those people who work in, for and with the business. And there's a will for the business and our customers to collectively succeed. Since 1963 three generations of our family have given their best to ensure that Beattys Group's reputation as a quality manufacturer, supplier and employer is entrenched with those we value most - our people, our customers and our suppliers.









MANUFACTURED IN NZ



LEADING-EDGE DESIGN INNOVATION

The intelligent design of a driveline is very critical to ensure ongoing reliability. It is important that the power source, speed and universal joint angle are ascertained prior to specifying a shaft to suit any situation. We offer a full consultation and design service so your custom requirements can be met with products that deliver optimal performance.

STATE-OF-THE-ART **MANUFACTURING**



Turret Driveline is our legacy. With over sixty years of experience, we are New Zealand's most trusted supplier for all driveline needs. Turret drivelines and componentry are designed, and hand built to extremely high standards here in our state-of-the-art Beattys Group Auckland facility, and backed by our dedicated and accessible team.



Global supply capabilities

PROJECT CAPACITY

Whether your project is a 65hp pleasure project vessel, quad engine 300 passenger electric ferry or 2500hp military patrol vessel, Beattys Group has the in-house capabilities to design and manufacture marine drivelines to suit all duty applications from pleasure to heavy commercial.

RAW MATERIAL

More than 30,000 driveshaft components stocked locally in New Zealand make Beattys Group one of Australasia's leading driveline specialists.

EXPORT

Supporting our valued global client base, Beattys Group despatches componentry and complete drivelines worldwide via our international freight partners.

DRIVELINE RATINGS

200Nm - 750,000Nm torque capacity ratings, and connection flanges from DIN 58mm to DIN 480mm.

Marine Driveshafts

Powering the marine industry with optimal performance.

KEY STRENGTHS & BENEFITS:

The marine environment and demands of this industry provide the ultimate challenge for product quality and durability along with the need for proven design expertise. Beattys has risen to this challenge and for many years has enjoyed working alongside Australasia's leading naval architects; assisting them with marine driveline design and is now the preferred supplier for renowned boat builders throughout the region.

Beattys Group has made significant investment into specialised equipment and also technical know-how training to ensure our team is at the forefront of the marine industry's requirements, delivering excellence and premium driveline solutions.

All componentry, processes and workmanship are of the highest industry standards and trusted globally by mariners operating both commercial and pleasure vessels.



CV Shafts



OVERVIEW

Turret CV joints and shafts make it possible to have unequal angles on the two ends. This, coupled with a maintenance-free and a low axial force ball design results in long lasting, high performing solutions.

SPECIFICATIONS

- Short coupled options for minimal length requirements as well as tube options to allow for increased operating lengths
- Low axial force ball design resulting in longer lasting high speed
- Complete range available from 180 3500Nm



Thrust Bearings

Uniquely designed and manufactured by Beattys' in-house team.

KEY STRENGTHS & BENEFITS:

In all marine applications with conventional shaft drives, the thrust along with vibration from the propeller is transmitted axially through the shaft to the coupling, through the transmission, and on to the engine.

Turret thrust bearings designed and manufactured by Beattys provide the perfect solution in absorbing the thrust and vibrations, while also simplifying engine installation and shaft alignment.

Range

- Thrust capacity from 3 kN to 60 kN
- Standard flange designs to suit split couplings
- Internal taperloc designs to suit up to 4.0" shaft diameter

Specifications:

- Reduces drivetrain noise by up to 50% compared to any direct drive coupling
- All thrust force is absorbed through rubber pads parallel to the propeller shaft
- Allows for softer engine mounts which further reduces vibrations and noise
- Removes prop thrust off the gearbox increasing service intervals and overall lifetime
- Prevents high frequency vibrations from causing wear and damage to the prop shaft drivetrain
- Saves time and reduces costs with less requirements on propeller shaft alignment



CASE STUDIES





HART MARINE 17M PILOT VESSEL

VESSEL NAME: TROY EVANS DESIGNER: PANTOCARENE BUILDER: HART MARINE ENGINES: 2 X VOLVO D16 MH

GEARBOXES: 2 X TWIN DISC MGX 5114SC PROPULSION: 2 X DOEN DJ170HP WATERJETS

PROJECT SUMMARY: Beattys Group worked with Pantocarene naval architects to design and manufacture a 2-piece Turret 25 series, marine cardan shaft with centre support bearing, and dynamically balanced to Grade 6.3 for the operating rpm.





VESSEL NAME: THE ROCK

DESIGNER: ROGER HILL **BUILDER: HERLEY BOATS**

ENGINES: 2 X 100KW PEAK, 60KW CONTINUOUS

BATTERY BANK: 60KWH LITHIUM-ION PROPULSION: 2 X PROPELLERS

PROJECT SUMMARY: Beattys Group was contacted by Herley Boats requiring a low noise compact driveline. Beattys' marine consultants designed and manufactured 2 x Turret TM115 thrust bearing assemblies rated for 8.5kN, including close coupled CV shafts.



NORMAN WRIGHT & SONS 17M PATROL VESSEL

VESSEL NAME: TAMOYA

DESIGNER: INCAT CROWTHER

BUILDER: NORMAN R WRIGHT AND SONS ENGINES: 2 X MAN 16-850 EPA TIER III

GEARBOXES: 2 X ZF 510V

PROPULSION: 2 X PROPELLERS

PROJECT SUMMARY: Beattys Group was approached by Incat Crowther naval architects to design and manufacture a driveline to suit this commercial application vessel. Beattys' technical team designed and manufactured 2 x sealed for life Turret 17 marine cardan shafts.





Q-WEST 30M MUSSEL HARVESTER

VESSEL NAME: VANGUARD

DESIGNER: OCEANTECH NZ LIMITED BUILDER: Q-WEST BOAT BUILDERS ENGINES: 2 X SCANIA DI13 073M MARINE

GEARBOXES: 2 X ZF360A

PROPULSION: 2 X FIXED PITCH PROPELLERS

PROJECT SUMMARY: Beattys' design team worked with OceanTech marine consultants to design and manufacture 2 x heavy duty Turret 35 marine cardan shafts and 2 x Turret TM150-6 new generation thrust bearing assemblies rated for 38kN.





0800 800 852 / enquiries@beattys.com / beattys.com

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