



We're here
for the
long haul.

Beattys

DRIVELINE

OUR STORY

**100% Family owned.
Family proud.**

FROM HUMBLE BEGINNINGS TO A GLOBAL FOOTPRINT

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 Driveline reputation as a quality manufacturer, supplier and employer is entrenched with those we value most - our people, our customers and our suppliers.

OUR GLOBAL FOOTPRINT



100% FAMILY OWNED

Despite growth and expansion Beattys Driveline still retains that genuine character.



VIP CUSTOMER SUPPORT

To us here at Beattys every customer is a VIP.



24 HOUR HOTLINE

Any query is just a phone call away.



QUALITY MANUFACTURING

Quality componentry, attention to detail and extremely high manufacturing standards - this is our badge of pride.



QUALITY COMPONENTRY

This goes hand-in-hand with our manufacturing. We use quality componentry, sourced from the best available suppliers.



GET IN TOUCH

1800 463 693
enquiries@beattys.com.au
beattys.com.au

Our state-of-the-art facility features the latest in development, manufacturing, engineering and assembly software and hardware. It's also the workplace for some fine people - motivated, hard working and ready with a welcoming smile.



OUR BRAND

**Handbuilt for
the hard yards.**



“WE HAVE A 10-YEAR
RELATIONSHIP WITH
BEATTYS WHICH CONTINUES
TO THRIVE DUE TO THEIR
COMMITMENT, SUPPORT
AND ADVANCES IN THEIR
PRODUCT.”

SCOTT BRADY
McCARTHY TRANSPORT CONTRACTORS LTD

Turret drivelines and componentry are designed and handbuilt to extremely high standards here in our state-of-the-art facility, and backed by our dedicated and accessible team. Turret drivelines are made to order with pride by Beattys - from a single specialised vehicle to a nationwide fleet - to drive your business further.

- World-leading componentry
- Handcrafted by Beattys
- Backed by Beattys customer support
- Inhouse technical and design team

Generations of expertise.

Since 1963 we've lived and breathed drivelines. Over that period we have partnered with thousands of businesses across Australasia and abroad to supply the answers to their driveline needs.

Our complete range of driveline solutions is backed by generations of expertise, knowledge and support. Our accessible team will go the extra mile to ensure your fleet performs to its maximum potential. From our state-of-the-art factory we handle it all, from customised design and manufacturing with our Turret brand, to driveline restoration and balancing.

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Design

OVERVIEW

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. Whether your requirement is for a precision coupling with less than 7 Nm of torque, or a large industrial shaft with an excess of 650,000 Nm, we offer a full consultation and design service so your custom requirements can be met with products that deliver optimal performance.

SERVICES

- Specifying driveshafts
- Angle and speed calculations
- Driveline layout design and configuration
- Problem solving – vibration, torsional and reliability issues

Dynamic Balancing

OVERVIEW

Driveline dynamic balancing is a crucial part of the process to create a lasting solution. We use four driveshaft balancers and four industrial balancing machines to cover the needs of a diverse range of applications. With drivelines spinning at higher rpm's than ever before, it is important that they are balanced to the finest of tolerances. Our equipment provides the best balance precision by carrying out a simultaneous 4-plane balance at speeds of up to 5000 rpm. All balancing weights are spot-welded to ensure an accurate, lasting balance.

SERVICES

- Spot-welded weights to minimise fracturing of driveshaft tube
- Driveline dynamic balance correction
- Driveshaft straightening
- Balancing reports

Manufacturing

OVERVIEW

We have the internal resources, skills and expertise to produce all types of drivelines from small automotive through to large industrial driveshafts. Throughout our driveshaft manufacturing process, you can be guaranteed of the highest level of engineering excellence and commitment to quality. All driveshafts we manufacture are then dynamically balanced to ISO 1940 standards to ensure the durability and performance.

SERVICES

- Sealed for life driveshafts
- Short coupled driveshafts
- Two piece driveshafts
- Multi-piece driveshafts
- Centre bearing shafts
- Custom design components
- Custom driveshafts
- Larger OEM production runs
- Multi-piece drivelines
- Industry-specific drivelines

“PACIFIC STEEL HAS BEEN USING THE SERVICES OF BEATTYS’ DRIVELINE DIVISION FOR OVER 25 YEARS, AND THEIR SERVICE HAS BEEN COMMENDABLE. THEIR MAINTENANCE WORK ON OUR MAIN MILL STAND DRIVESHAFTS HAS ALWAYS BEEN TO A VERY HIGH STANDARD WITH QUALITY PARTS; AND ALWAYS EFFICIENT AND ON TIME.”

JOHN ALLEN
PACIFIC STEEL

Complete Driveshafts

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Automotive Driveshafts

Premium driveshaft solutions - The drive behind performance.

KEY STRENGTHS & BENEFITS:

Beattys' coverage and expertise within the automotive sector sets us apart as a clear market leader. Due to the long association and rapport established with vehicle manufacturers and their dealerships, Beattys automotive specialists have been called on by many respected car manufacturers to problem solve and develop specific driveline solutions for their market requirements. Beattys provides the automotive industry a complete package with the Beattys technology team taking care of your automotive driveshaft repairs and servicing for all makes and models. Beattys componentry maintains a comprehensive inventory of replacement automotive driveshaft parts to suit all makes and models, both past and present.

Savings: Instead of being faced with the outlay of full OEM replacement, the Beattys technology team has the specialised equipment and technical know-how to upgrade the worn components, delivering substantial savings and benefits.

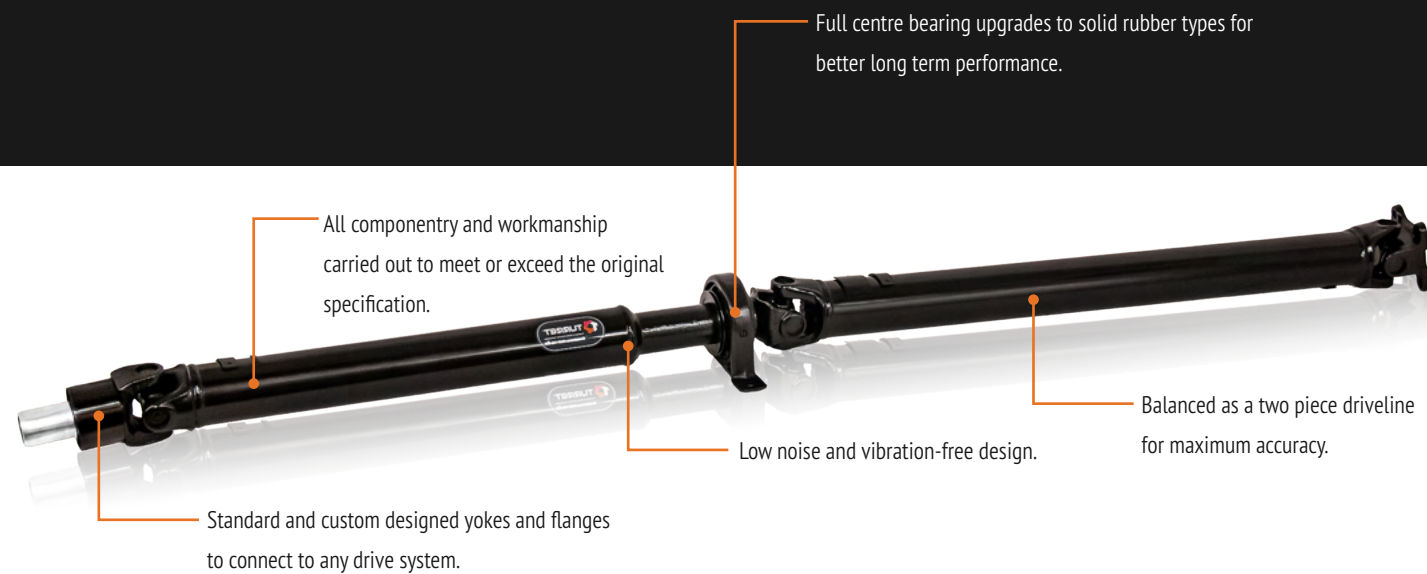
Reliability: All componentry, processes and workmanship are of the highest industry standards to ensure that Beattys-supplied drivelines meet or exceed OEM specifications and tolerances.



100% QUALITY COMMITMENT



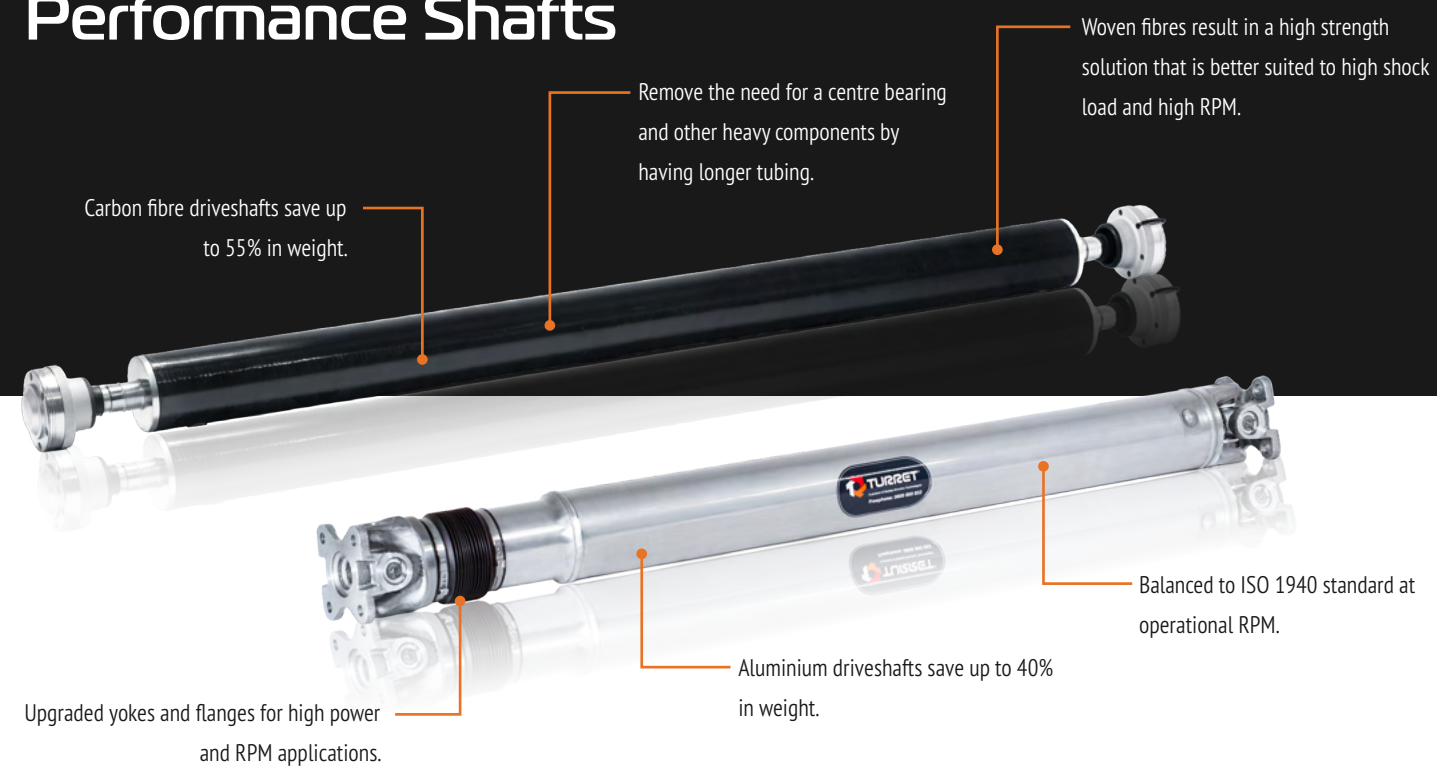
Two Piece Shafts



Steering Shafts



Performance Shafts



Double Cardan Shafts



Heavy Transport Driveshafts

Premium driveshaft solutions - Reliability for the long haul.

KEY STRENGTHS & BENEFITS:

The heavy transport and logistics industry is a key player in our economy, bringing the world's goods to our door and delivering both people and products to their destinations, locally and around the globe. Beattys Driveline knows how vital it is to keep these trucks, trailers and buses on the road and has been servicing this sector as a core market for many decades.

Instead of being faced with the outlay of full OEM replacement, Beattys Driveline has the specialised equipment and technical know-how to meet or exceed OEM specifications while delivering substantial savings and benefits.

All componentry, processes and workmanship are of the highest industry standards and trusted by commercial transport operators in Australasia to deliver reliable, consistent performance.

All driveshafts are balanced to ISO 1940 standard and balance weights are spot-welded to prevent fracturing and stress on the driveshaft tube.

Premium automated welds allow for deep penetration and precise control while keeping maximum consistency.

High grade tubing increasing the resistance to high shock loadings.

Upgraded and reinforced yoke designs to prevent catastrophic failure.

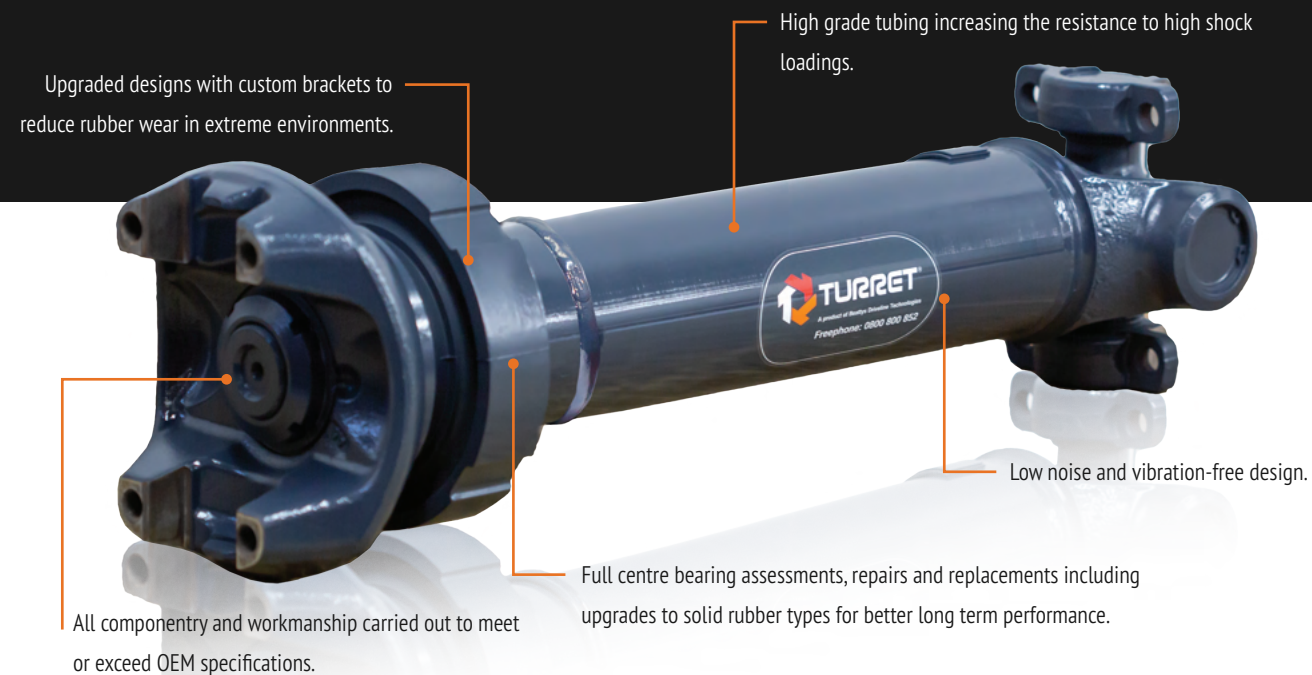
Beattys can upgrade sliding spline assemblies to have heavy-duty housings and integral seal systems that protect from contamination and wear.

Upgraded to European style splines that are larger in diameter with finer splines resulting in increased capacity and longer service life.

Universal joints have premium grade lubricant or service free 'lube-for-life' options.



Hanger Bearing Shafts



Steering Shafts



ALL STAKED UNIVERSAL JOINTS FITTED TO EXCEED OEM SPECIFICATIONS

Inter Axle Shafts



PTO Shafts



Mining & Off Highway Driveshafts

Premium driveshaft solutions - Engineered for extremes.

KEY STRENGTHS & BENEFITS:

Throughout Australasia, machinery and equipment is relied upon to keep our primary industries and key commodity exports moving – that's why Beattys Driveline is trusted as an essential service provider to the agriculture, earthmoving, forestry, infrastructure and mining industries. We have two specialist teams to cover all your driveline needs: our componentry team keeps all your driveshaft wearing parts on hand, ready for prompt despatch while our driveline engineers take care of the design and manufacture of driveshafts.

Instead of being faced with the outlay of full OEM replacement, Beattys Driveline has the specialised equipment and technical know-how to meet or exceed OEM specifications while delivering substantial savings and benefits.

All componentry, processes and workmanship are of the highest industry standards and trusted by commercial transport operators in Australasia to deliver reliable, consistent performance.



Driveshafts



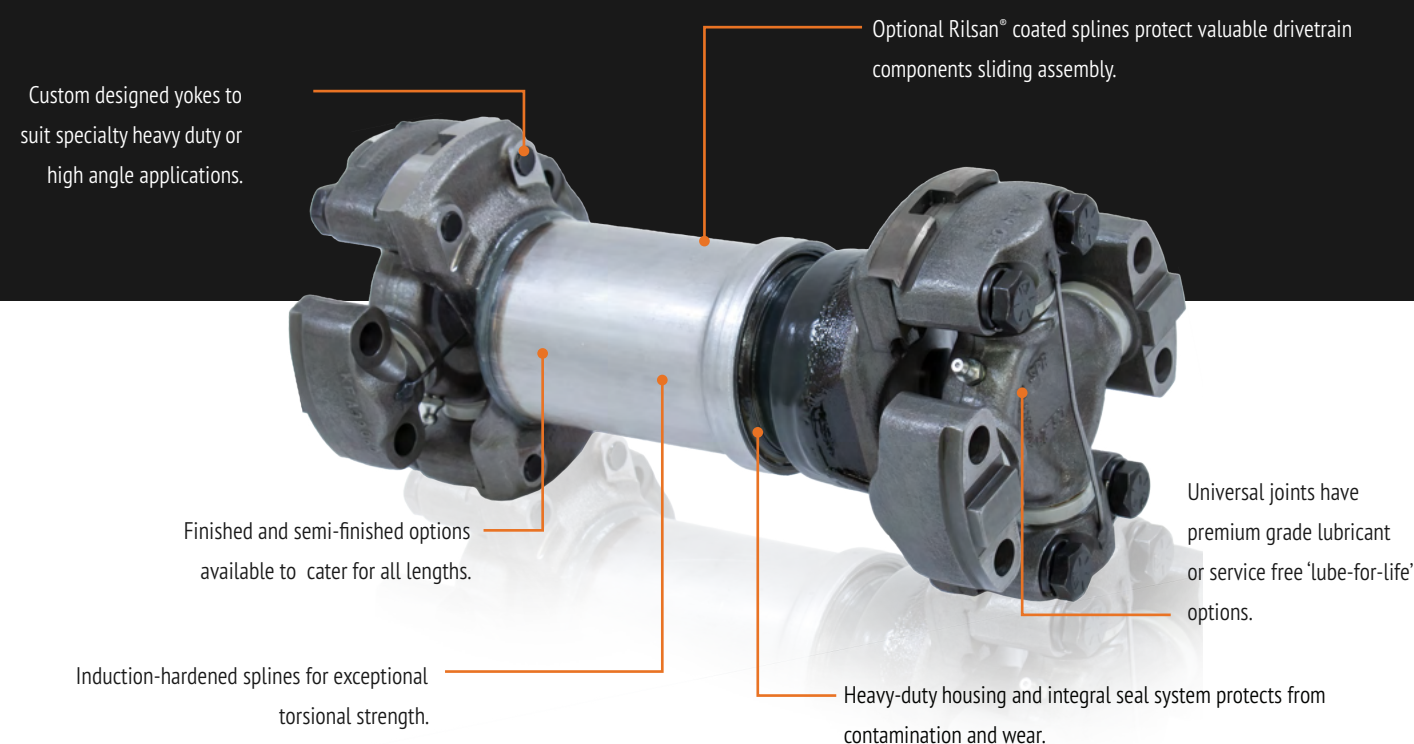
Double Cardan Shafts



Hanger Bearing Shafts



Short Coupled Shafts



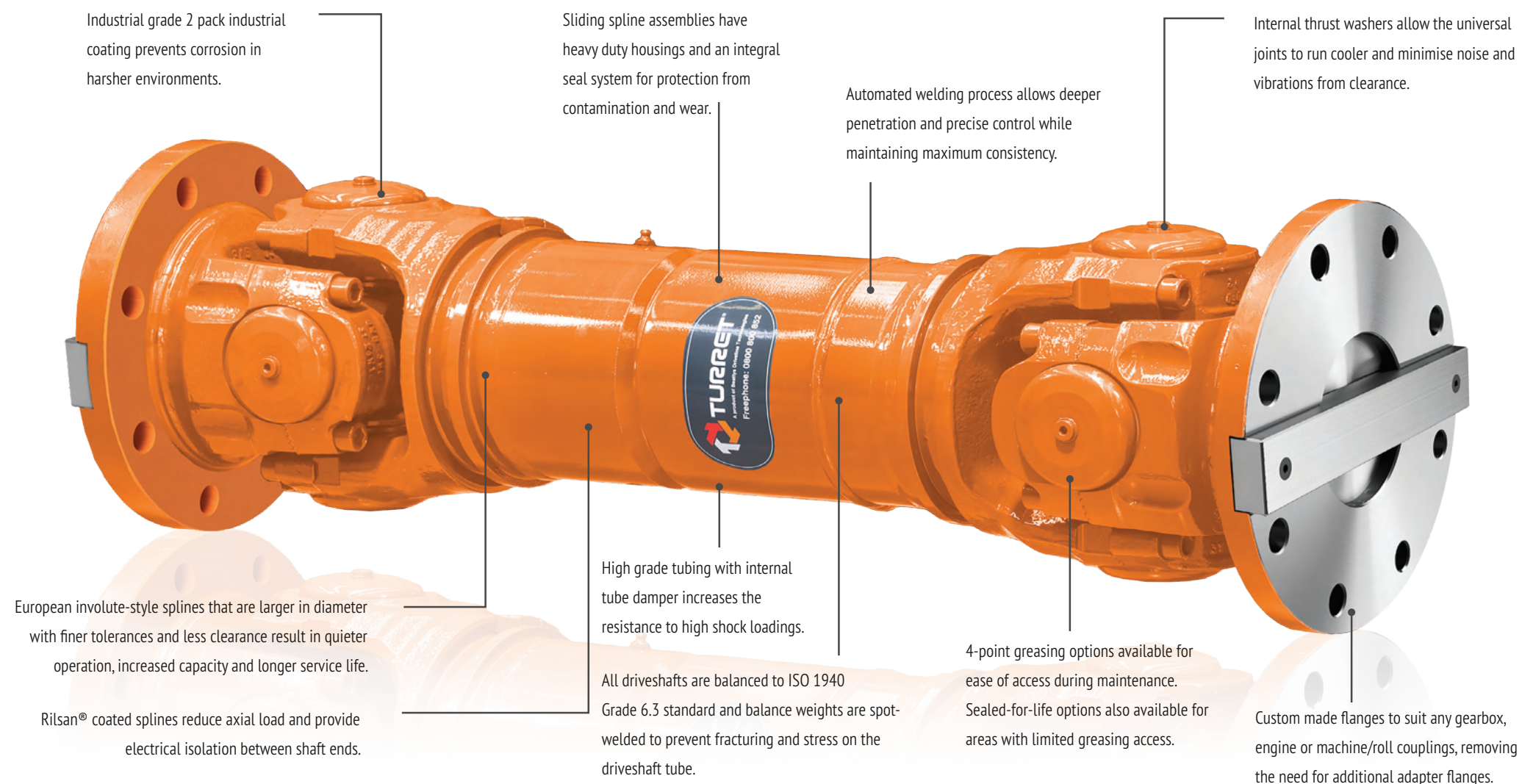
Industrial Driveshafts

Premium driveshaft solutions - Powering industry with optimal performance.

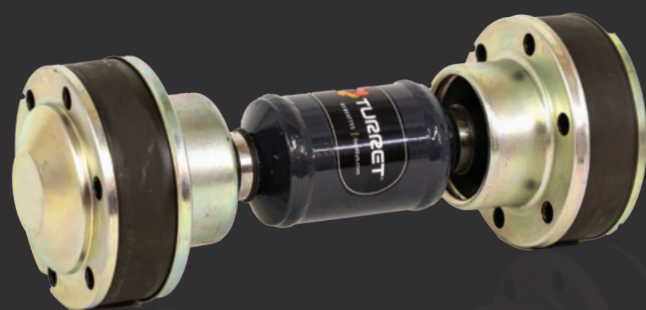
KEY STRENGTHS & BENEFITS:

The demands of the industrial environment provide the ultimate challenge for product quality and durability, along with the need for proven design expertise. Beattys has risen to this challenge and has enjoyed working alongside Australasia's leading manufacturers for many years to assist with their driveline design, and is now the preferred manufacturer and supplier for a number of these corporates.

Beattys Driveline has made a significant investment in specialised equipment and technical know-how training to ensure our team is at the forefront of industry requirements, to deliver excellence and premium driveline solutions. All componentry, processes and workmanship is of the highest industry standards. Our products are trusted globally by manufacturers that service the steel, wood, recycling and mining industries to name a few.



CV Shafts



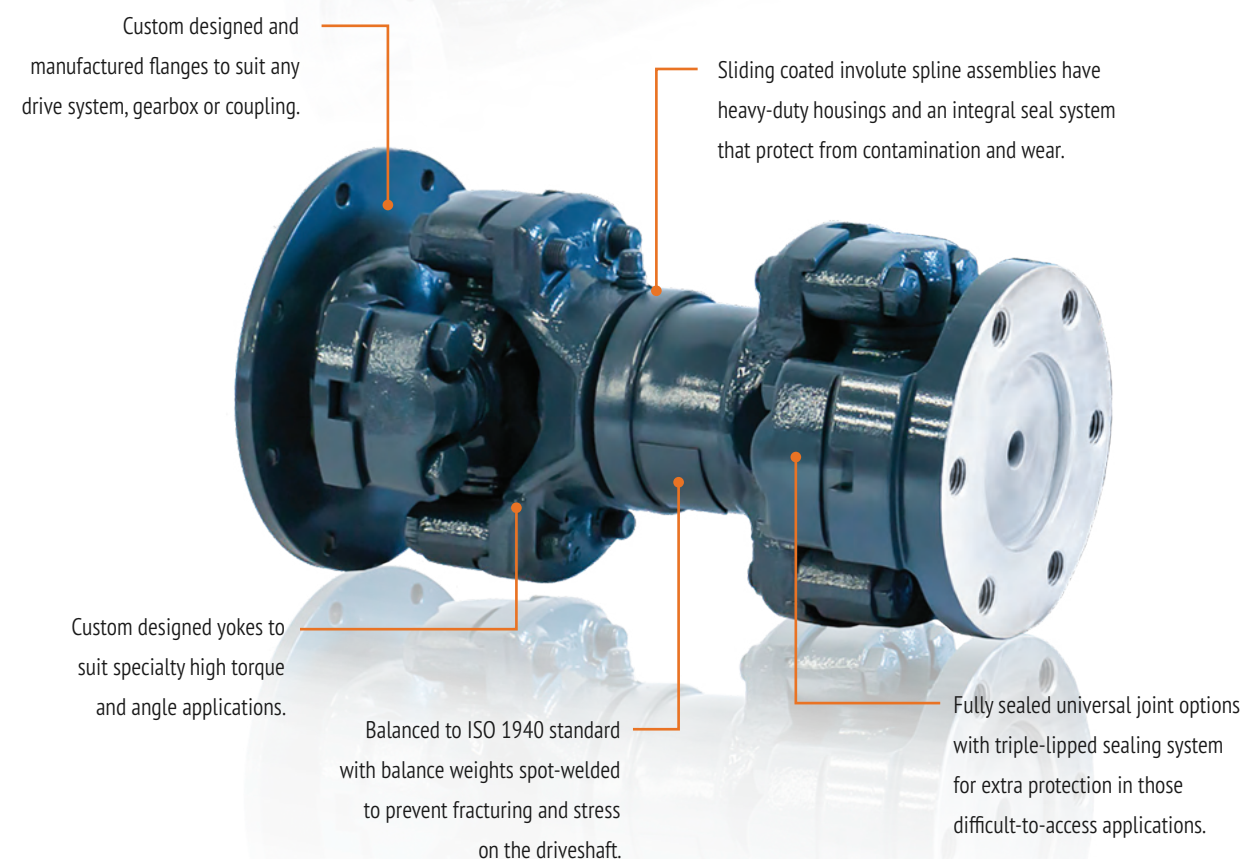
OVERVIEW

In applications with unequal angles, the introduction of a Turret CV shaft results in higher performance and extended life hours from the low axial force ball design.

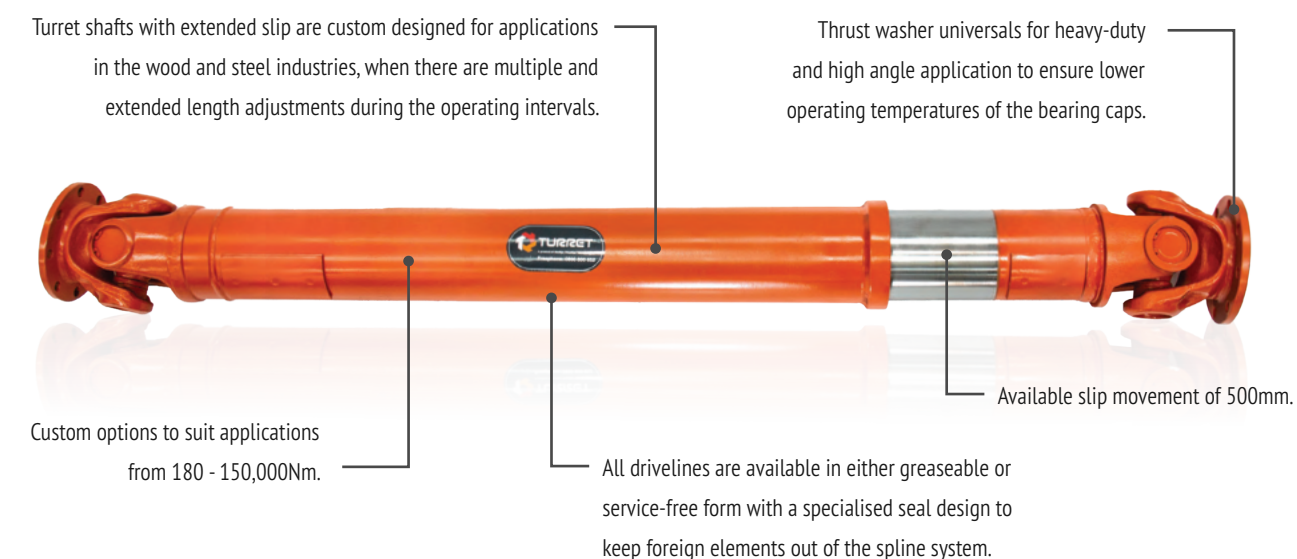
SPECIFICATIONS

- Short coupled options for minimal length requirements as well as tube options to allow for increased operating lengths
- Maintenance-free design with high speed rubber boot sealing system
- Complete range available from 180 - 3500Nm

Short Coupled Shafts

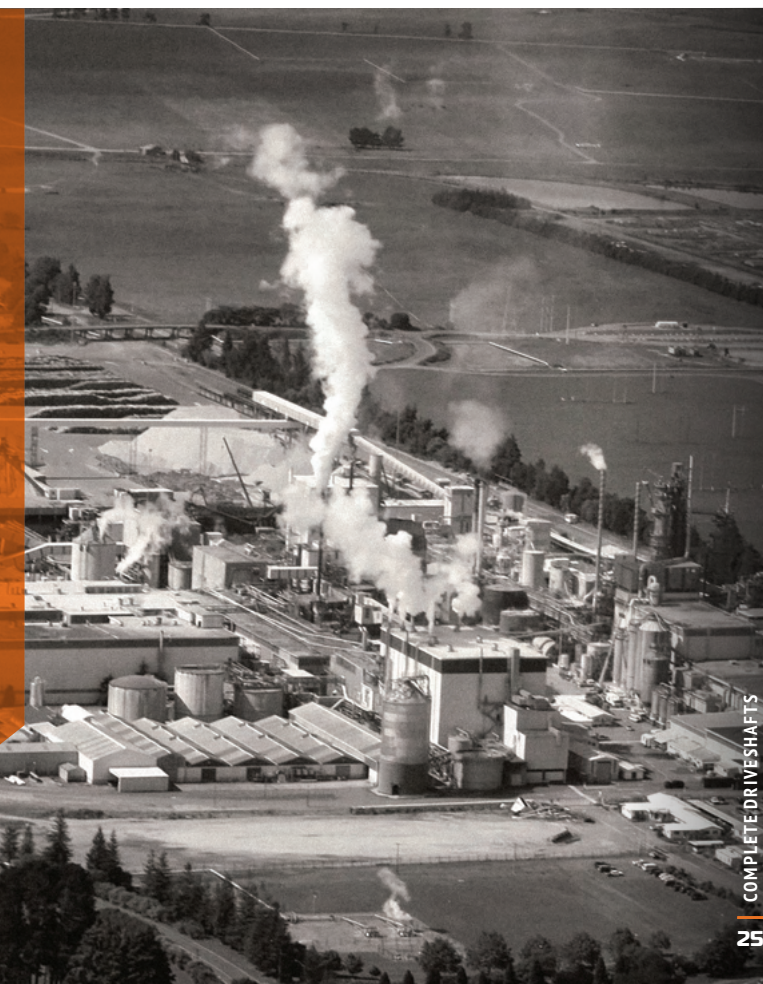


Extended Slip Shafts



“Beattys for us in one word is reliability. We can trust the product 100%. As a 24/7 operation, we can’t afford anything less.”

STEVE DANIELS
OJI FIBRE SOLUTIONS



Agricultural Driveshafts

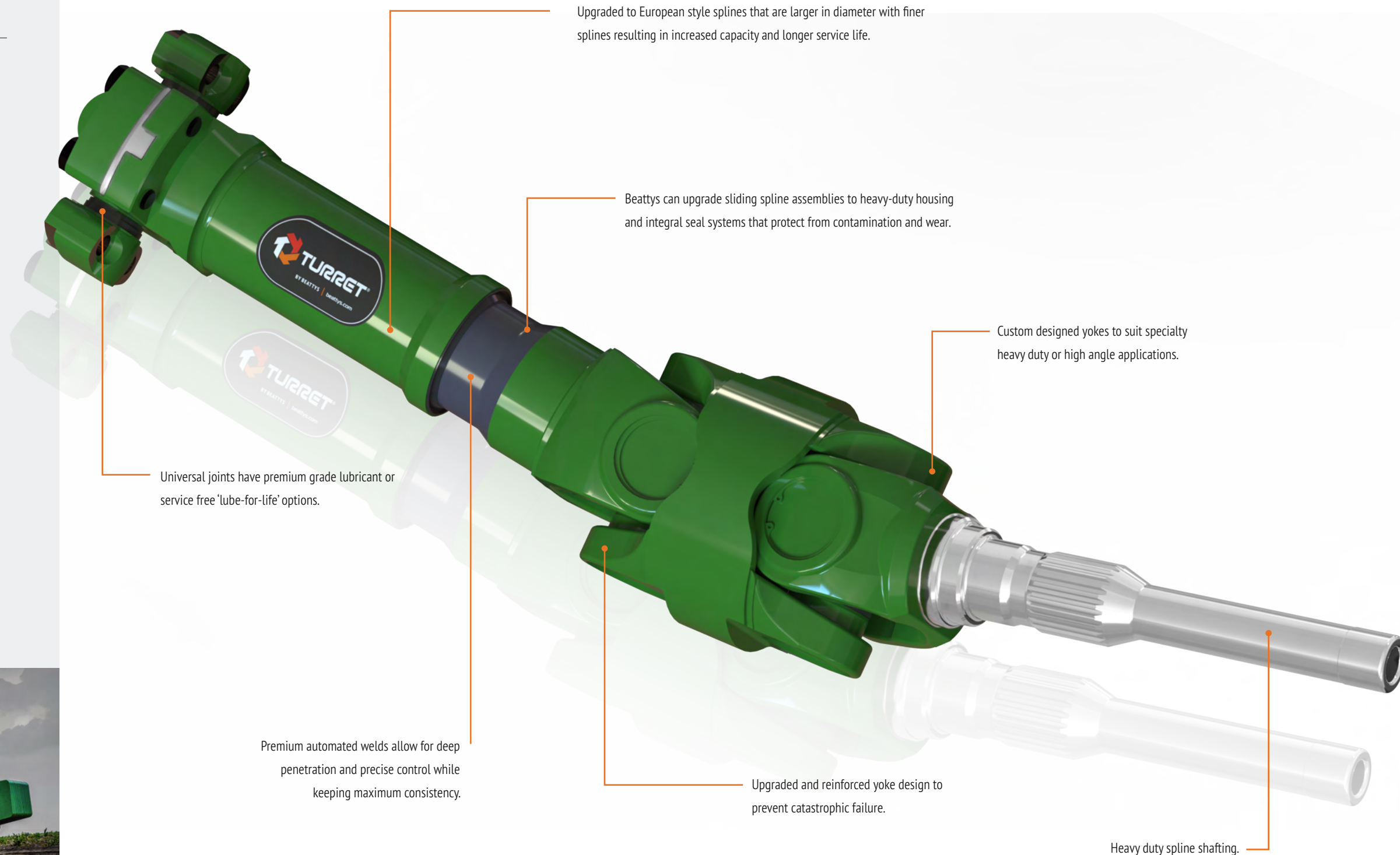
Premium driveshaft solutions - Built for the toughest terrain.

KEY STRENGTHS & BENEFITS:

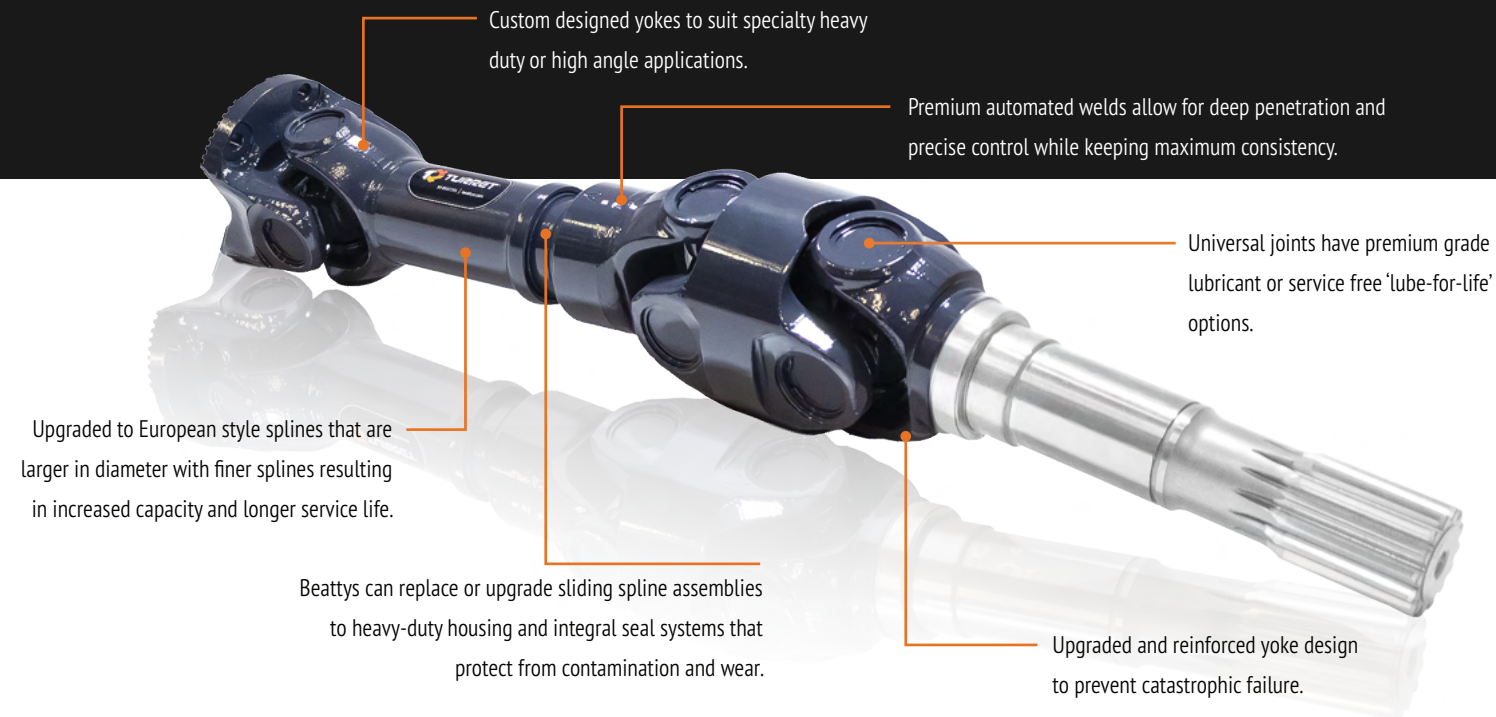
Throughout Australasia, agricultural machinery and equipment is relied upon to keep our primary industries and key commodity exports moving – that's why Beattys Driveline is trusted as an essential service provider to the agriculture industry. We have two specialist teams to cover all your driveline needs: our componentry team keeps all your driveshaft wearing parts on hand, ready for prompt despatch while our driveline engineers take care of the design and manufacture of driveshafts and axle shafts.

Instead of being faced with the outlay of full OEM replacement, Beattys Driveline has the specialised equipment and technical know-how to meet or exceed OEM specifications while delivering substantial savings and benefits.

All componentry, processes and workmanship are of the highest industry standards and trusted by commercial transport operators in Australasia to deliver reliable, consistent performance.



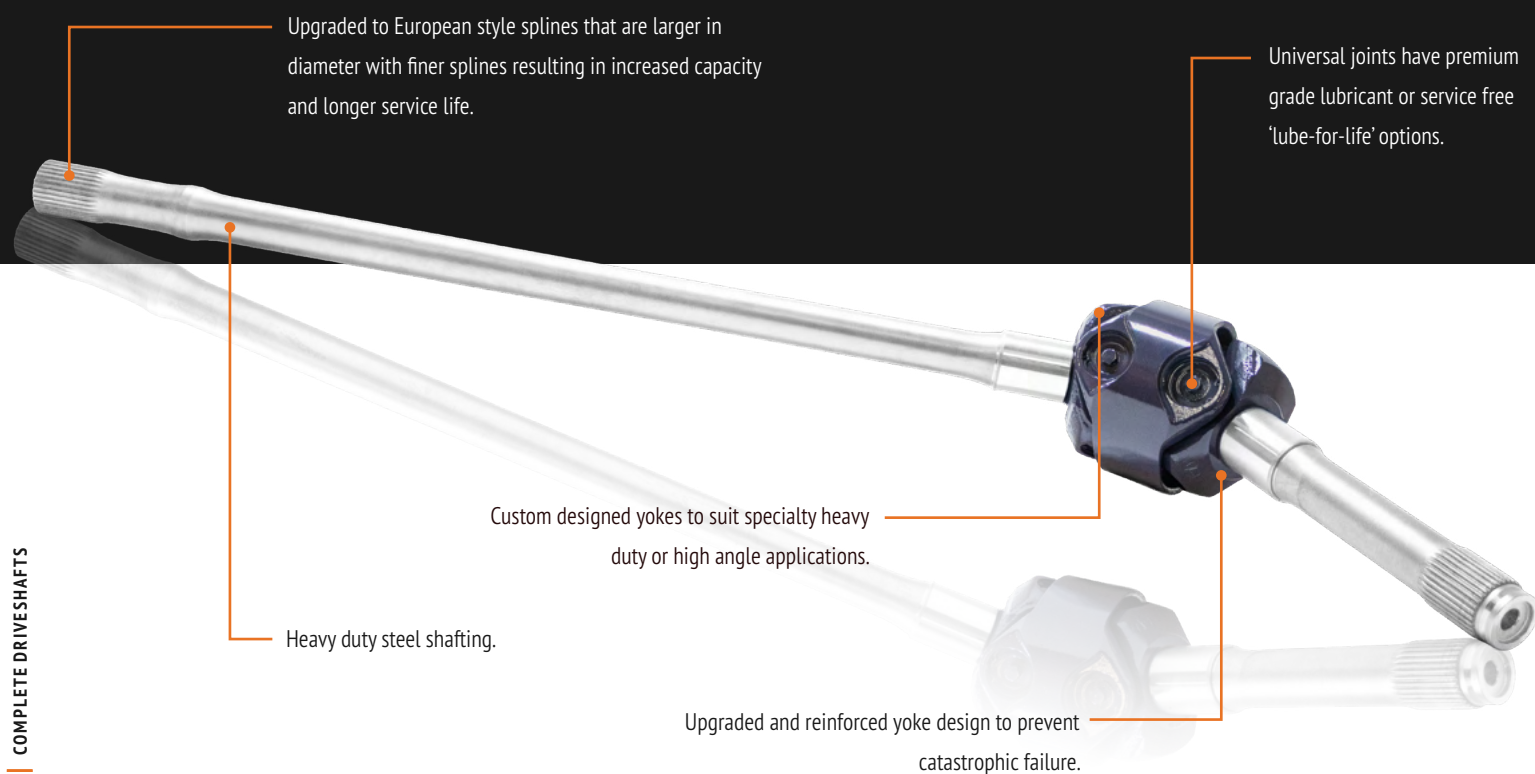
Axle Shafts (Heavy Duty)



Drive Shafts



Axle Shafts (Standard)



Groundcare Shafts



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 Driveline 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.

Premium driveshaft solutions.



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 operation
- Complete range available from 180 - 3500Nm

Short Coupled Shafts

Sealed or greasable universal joint options.

Heavy duty designed options with upgraded universal joints and centre yokes for competition boats.

Splined end yoke to suit water jet input spline.

Stocked models for common water jet propulsion systems.

Custom designed and manufactured flanges to suit any engine, gearbox or coupling.

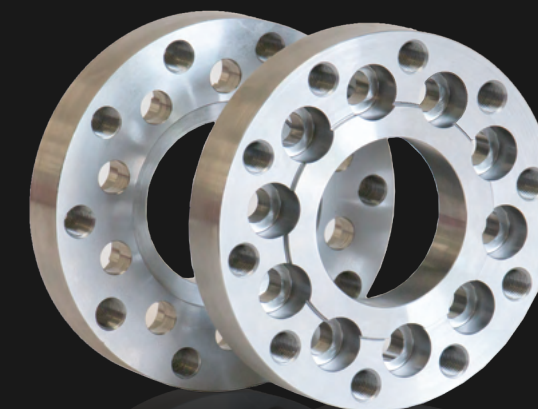
Sliding coated involute spline assemblies have heavy-duty housings and an integral seal system that protects from contamination and wear.

Custom designed yokes to suit speciality high torque and angle applications.

Balanced to ISO 1940 standard with balance weights spot-welded to prevent fracturing and stress on the driveshaft tube.

Completely sealed universal joints to keep maintenance to a minimum and ensure the engine room is kept clean.

Adapter Flanges



OVERVIEW

Custom made adapter flanges to suit any gearbox, engine or coupling. With the use of advanced 3D CAD software and state-of-the-art machining technologies, we can guarantee the highest degree of accuracy.

SPECIFICATIONS

- Available in both mild steel and aluminium material options
- Full range of custom made adapter flanges to suit all gearbox and engine makes/models



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

Two, four or six bolt models available depending on thrust requirements.

Current models available up to 2000Hp and 60kN of thrust.

Standard and custom flange bolt patterns available for flexible shaft connections.

Custom designed flanges to connect to any propeller shaft with half coupling machined to suit.

Sealed bearings providing a clean and maintenance-free solution.

Can be used with driveshaft or CV shaft.

Internal clamp system reducing the need for machining the propeller shaft.

Easy to access greasable bearing for fast and easy servicing.

“FOR US - IN ONE WORD - BEATTYS
IS RELIABILITY. WE CAN TRUST THE
PRODUCT. AS A 24/7 OPERATION, WE
CAN'T AFFORD ANYTHING LESS.”

STEVE DANIELS
OJI FIBRE SOLUTIONS PULP MILL

Componentry

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Universal Joints



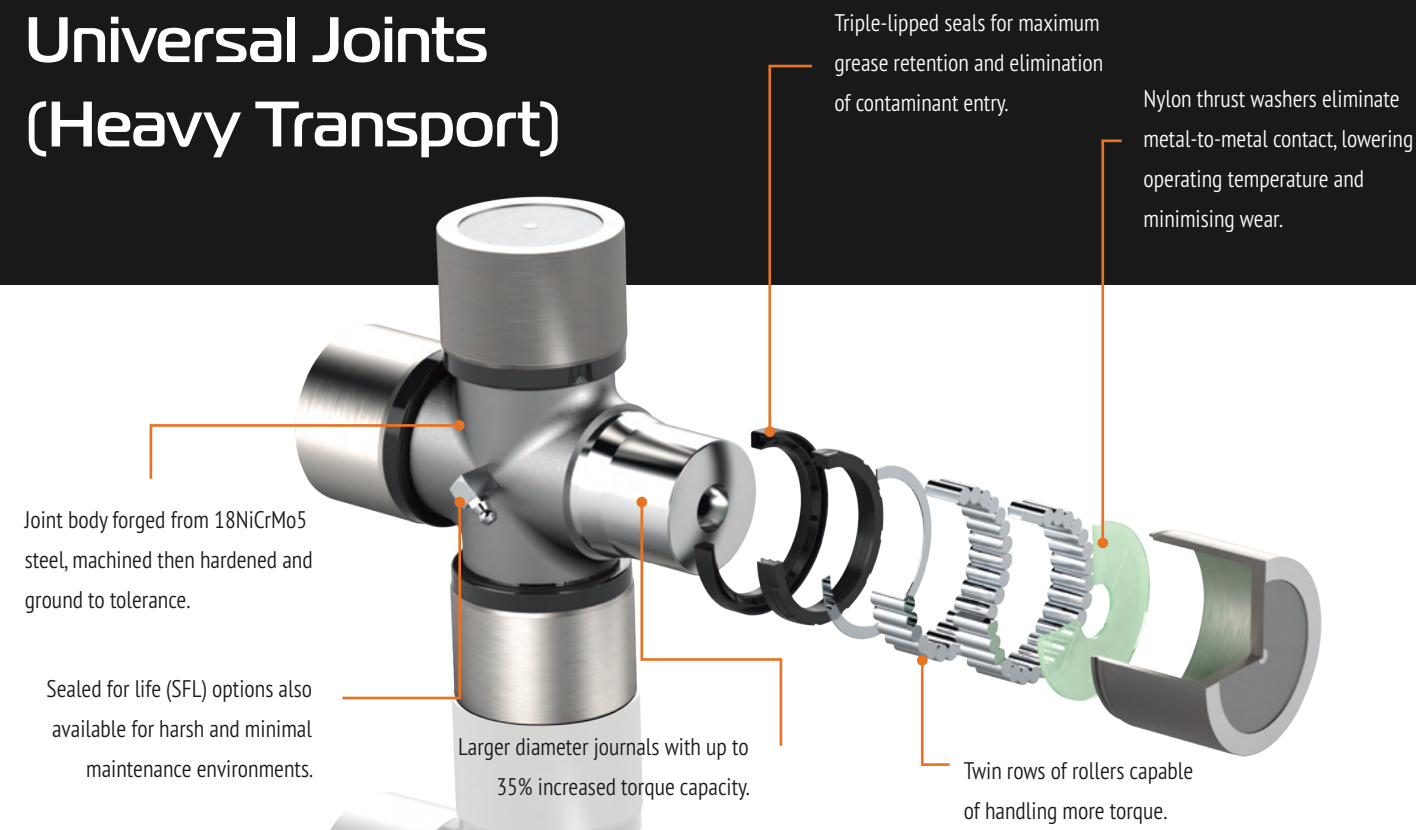
OVERVIEW

The universal joint is one of the most critical parts in any driveshaft, that's why at Beattys we only use the best. Beattys' Turret universal joints are of the highest industry standards and are trusted by many large organisations nationwide to deliver reliable performance day after day. We are proud to offer a comprehensive range of universal joints covering all applications with over 500 different styles and sizes.

SPECIFICATIONS

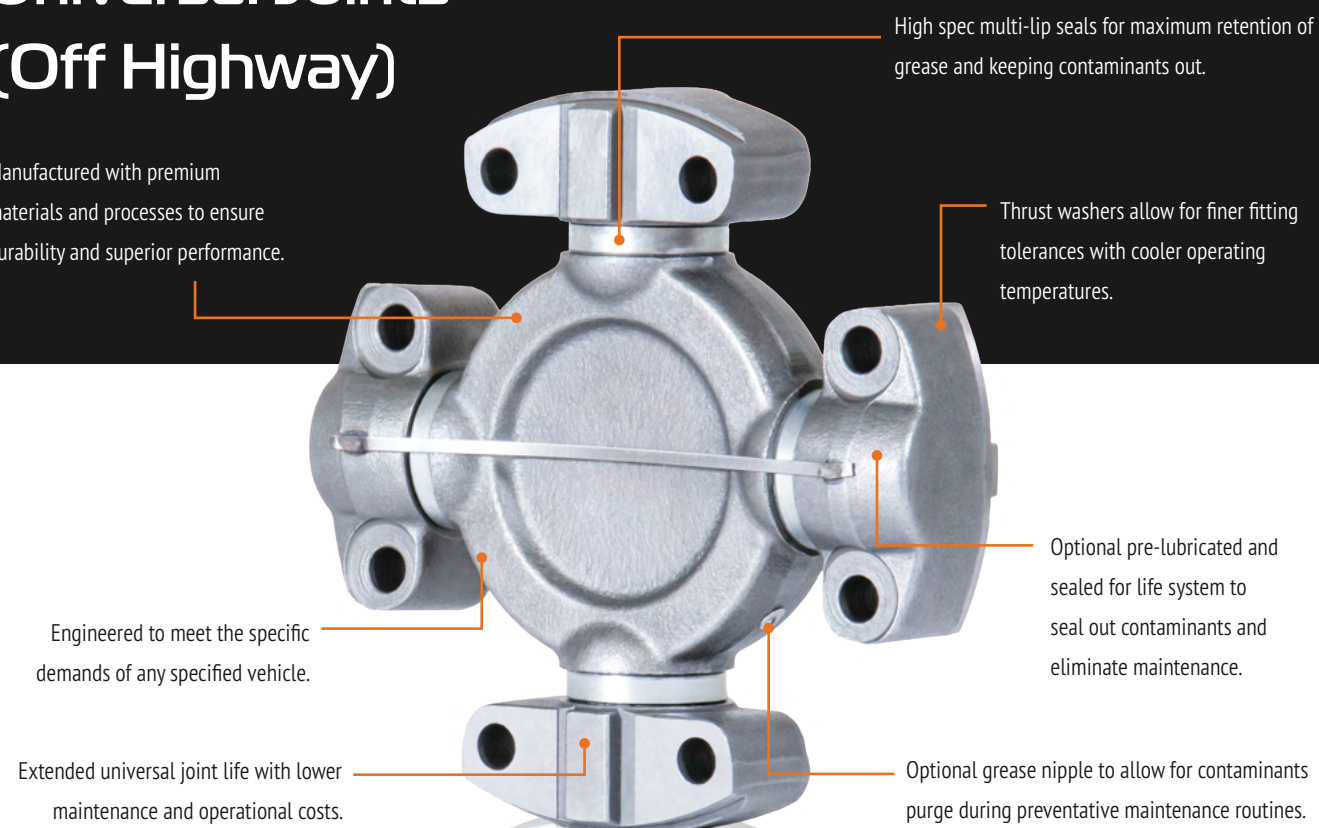
- Standard and premium styles
- Triple-lipped seals and interal thrust washers
- Sealed and lubed options
- Offset joints for high angles and axle applications

Universal Joints (Heavy Transport)

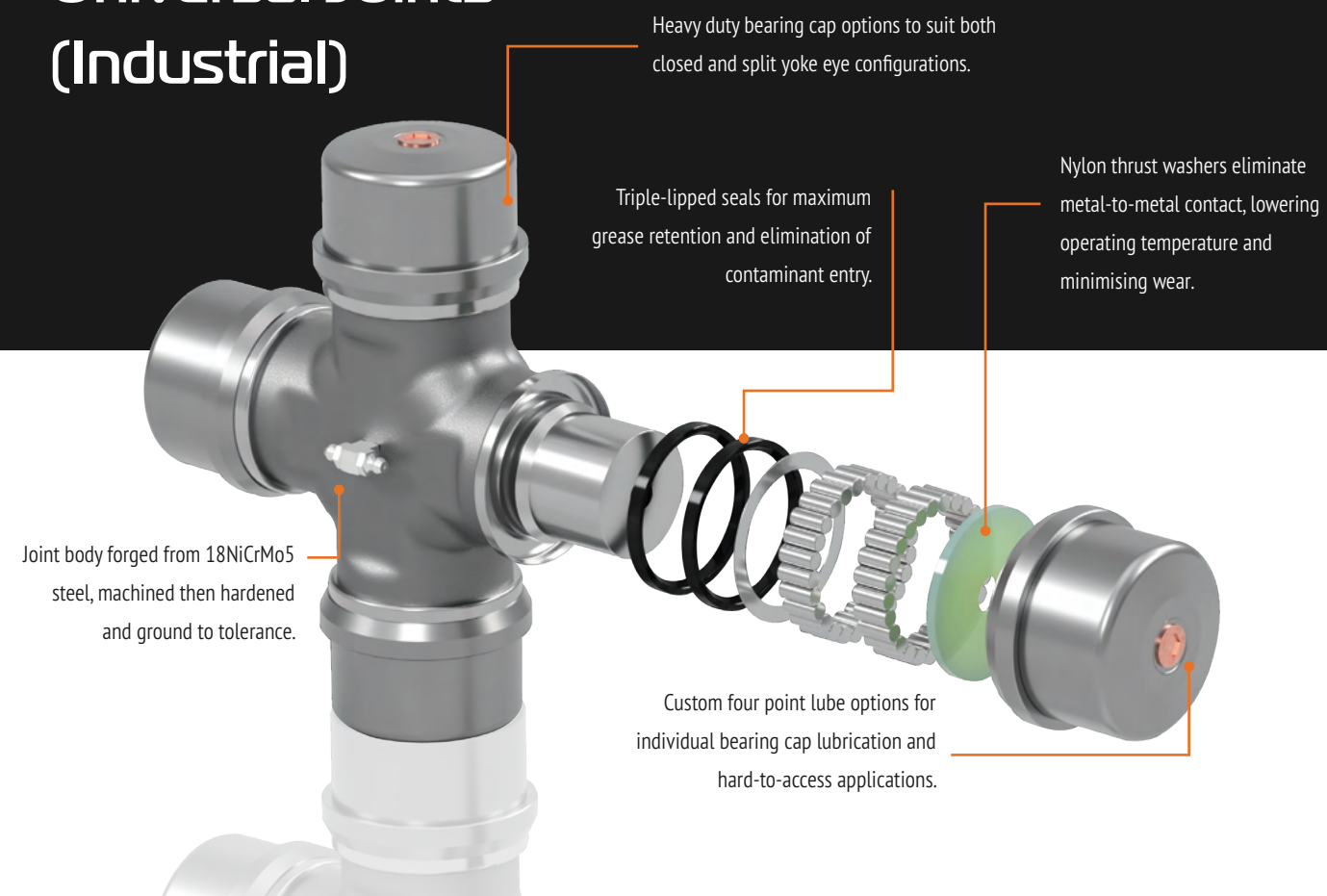


Universal Joints (Off Highway)

Manufactured with premium materials and processes to ensure durability and superior performance.



Universal Joints (Industrial)



Centre Bearings



OVERVIEW

Beattys' Turret centre bearings always provide optimal alignment, which translates into improved performance and durability of the driveline. Our advanced technology reduces noise and vibration, while maintaining the proper driveline angle to maximise driveshaft and component life. We offer a large range of solutions for all applications including maintenance free options and high-performance marine styles.

SPECIFICATIONS

- Solid and slotted rubber types
- Self-aligning bearings
- Heavy duty options
- Replacement rubber types

Midship Stubs



OVERVIEW

Midship stubs that aren't running within tolerance will cause driveline vibrations and premature wear. Every Turret midship stub is quality checked following final machining to ensure required tolerances are maintained.

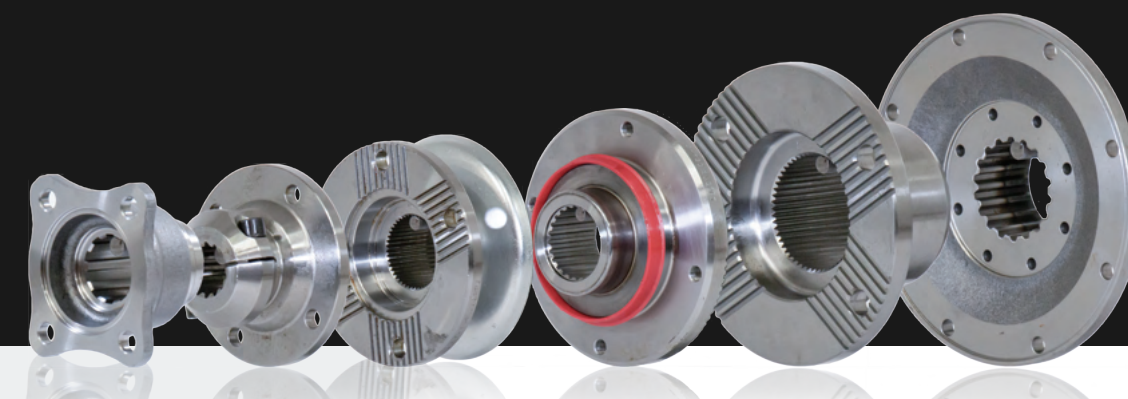
SPECIFICATIONS

- From 25 - 70mm bearing diameters
- Standard and reverse style splines
- Rilsen™ coated option on sliding spline midship applications.

Centre Bearings (Heavy Transport)



Companion Flanges



OVERVIEW

Beattys stock a versatile range of Turret companion flanges that are developed from premium quality materials in various sizes and styles. Long lasting in nature and superior in finish, our companion flanges are well suited for a wide range of applications in the automotive, heavy transport, earth moving, industrial and marine industries. We can also customise blank flanges or design and manufacture complete custom solutions as per your requirements.

SPECIFICATIONS

- DIN, SAE and KV series
- Plain bore / keyway
- Square and involute internal splines
- Semi-finished types
- Clamplock types

End Yokes



OVERVIEW

Our end yokes come in a variety of styles and sizes to suit the automotive, heavy transport, earthmoving, industrial and marine industries. Whether you want it with a splined bore or a custom cut keyway we will have one to meet your requirements. What we don't have on our shelves we can custom make in our modern production centre.

SPECIFICATIONS

- Full and half round units
- To suit centre bearings, differential and transmissions
- Clamp type for PTO use

Flange Yokes



OVERVIEW

The multitude of mounting options is forever increasing in the driveshaft industry. That's why Beattys Driveline carries a vast range of different profiles and sizes with many bolt patterns and locating options. Our production centre can also modify a range of blank un-drilled flanges from scratch to meet any custom requirements.

SPECIFICATIONS

- SAE and DIN spec
- KV European
- Single and double joint styles
- Blank type for custom made options

Transmission Yokes



OVERVIEW

Turret transmission yokes are forged, not cast, for greater strength and undergo a precision machining process to guarantee exceptional balance and minimal runout. All our componentry is sourced from market leading suppliers that have the skilled engineers and craftsmen ensuring every yoke is made to exacting standards. We hold a large range of transmission yokes in stock to suit various applications.

SPECIFICATIONS

- Standard and long snouts available
- Various types for American and Japanese vehicles
- Billet steel types for high performance
- Internal/external circlip types

Tube Yokes



OVERVIEW

Tube yokes come in a large range of styles and profiles. All Beattys Turret tube yokes have been sought from the industry leading suppliers around the world. We know how important it is to keep you moving, so we only use the best componentry that has been tested and proved Globally over our many years of industry experience.

SPECIFICATIONS

- Solid and hollow type
- To suit various tube diameters in each series
- Standard and high angle

Slip Sets



OVERVIEW

One of the key components for any driveline is the sliding splines. Any wear on these will result in vibrations and premature wear of other moving components. Beattys holds a complete range of Turret slip sets that suit all applications from automotive to industrial. All splines are thoroughly inspected by one of our engineers before leaving our parts department to ensure we continue to provide a high standard of componentry.

SPECIFICATIONS

- Involute splines – European design
- SAE spline for standard series
- Various spline lengths in each series
- Low noise especially for marine applications

Slip Yokes



OVERVIEW

Our extensive range of Turret slip yokes are manufactured to go above and beyond what is expected. We use market leading suppliers that have skilled engineers and craftsmen ensuring every yoke is made to exacting standards. We can offer multiple options for all applications, with premium options like involute European style splines for longer lasting and higher performing driveshafts.

SPECIFICATIONS

- DIN and SAE style splines available
- Dust shields with standard and splined seals
- Various lengths available

Slip Stubs



OVERVIEW

For every slip yoke we supply, we have a slip stub to suit. As with all our other componentry, Turret slip stubs are designed and engineered to outperform and outlast alternative options. We only use the best spline forms that are designed to ensure correct fitment and run out when mated with our slip yokes. With diameters from 25 to 115mm, our range offers a solution to all applications.

SPECIFICATIONS

- Hardened steel and Rilsen™ coated types
- Multiple stub diameters to suit tube options
- Long and short coupled slip types



Yoke Shafts



OVERVIEW

Yoke shafts are mainly used in space limited applications such as interaxle shafts between the two diffs and auxiliary drives. To accommodate all manner of industry applications Turret yoke shafts can be supplied in various lengths, series and styles. We can also custom make certain options to your exact requirements.

SPECIFICATIONS

- Extra short options
- Hardened steel and Rilsen™ cated spline options
- Wide angle yoke options

Double Cardan Assemblies



OVERVIEW

Where driveshafts are operating at high angles there is often a demand for double cardan joints. A pin or ball system in the middle gives the assembly support and allows the driveshaft to operate without premature wear of the universal joints. Mostly these units are used in off-road situations. While we repair and supply double cardan units we also offer design expertise for all high angle driveline configurations.

SPECIFICATIONS

- Complete assemblies
- Individual components
- Heavy duty types
- To suit automotive and off highway applications
- The ultimate solution for unequal angle situations

Complete Ends



OVERVIEW

Our complete ends are available in a range of sizes and styles. Whether it be a tube yoke or a sliding spline option we will have it. All Turret componentry is sourced from top international suppliers guaranteeing high performance in all applications. Coupled with our legendary customer support and parts backup, solutions like these will live up to whatever tough environment they need to.

SPECIFICATIONS

- SAE and DIN spec
- KV European
- Standard and high angle options

Double Cardan Parts



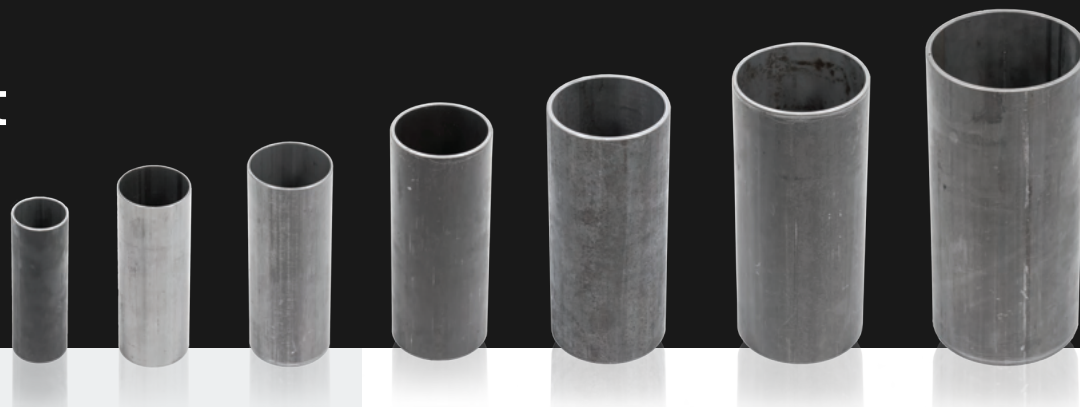
OVERVIEW

At Beattys we stock a complete range of common parts for double cardan joints. These include yokes, ball and spring kits and centre yokes. Keep your driveline running vibration free by upgrading any worn componentry that could cause further damage to other areas of the driveline.

SPECIFICATIONS

- Complete assemblies
- Individual components
- Heavy duty types
- To suit automotive and off highway applications
- Used in unequal angle situations
- Greaseable and sealed options
- Self-centering ball kits
- Wide range of connecting yokes and flang

Driveshaft Tubes



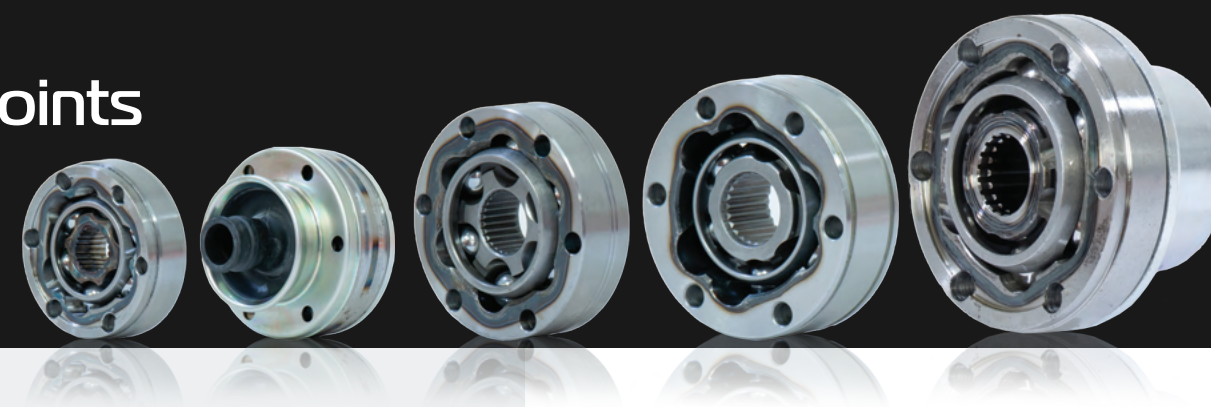
OVERVIEW

At Beattys we stock a complete range of driveshaft tube range from 25mm to over 219mm, with different wall thickness options throughout the complete range. All our tubing is sourced from industry leading suppliers and meets all ISO and other industry standards.

SPECIFICATIONS

- DOM specification
- Supplied in 6m lengths or cut to custom lengths
- Heavy duty industrial tube available
- Alloy tube supplied to order

CV Joints



OVERVIEW

Our full suite of constant velocity (CV) joints caters for the automotive, light commercial, industrial and marine industries. All Turret CV joints are sourced from industry leading suppliers and are guaranteed to outperform and out last.

SPECIFICATIONS

- High speed and performance types
- Ideal for difficult angle applications
- Complete range of high speed boots available
- Complete shafts available

Small Parts



OVERVIEW

We hold a complete range of small parts to complement all our driveshaft services and componentry. These include universal joint clamps and plates, bolt kits, spline seals, midship nuts, U-bolts, mounting kits, dust caps, split pins, washers, circlips, balance weights, lock tabs and more.

SPECIFICATIONS

- We can source unusual items
- High quality components
- To suit all makes and models

Rubber Couplings



OVERVIEW

Beattys Driveline has a complete range of Turret rubber couplings to suit automotive, transport, industrial and marine applications. With over 55 years of experience in the driveline industry, we know what to look for when it comes to finding premium couplings that last. All rubber couplings we supply are backed by our exceptional service and promise to deliver componentry that provides optimal performance, whatever the challenge.

SPECIFICATIONS

- Quick and easy installation
- Dampens drivetrain disturbances
- Prevents angular misalignment
- Ideal for cars, SUV's and small trucks

Precision Couplings



Hardened bush and needle bearings

Depending on the operating Rpm and transmitted torque loads we have options available from all applications; from steering to high speed industrial applications.

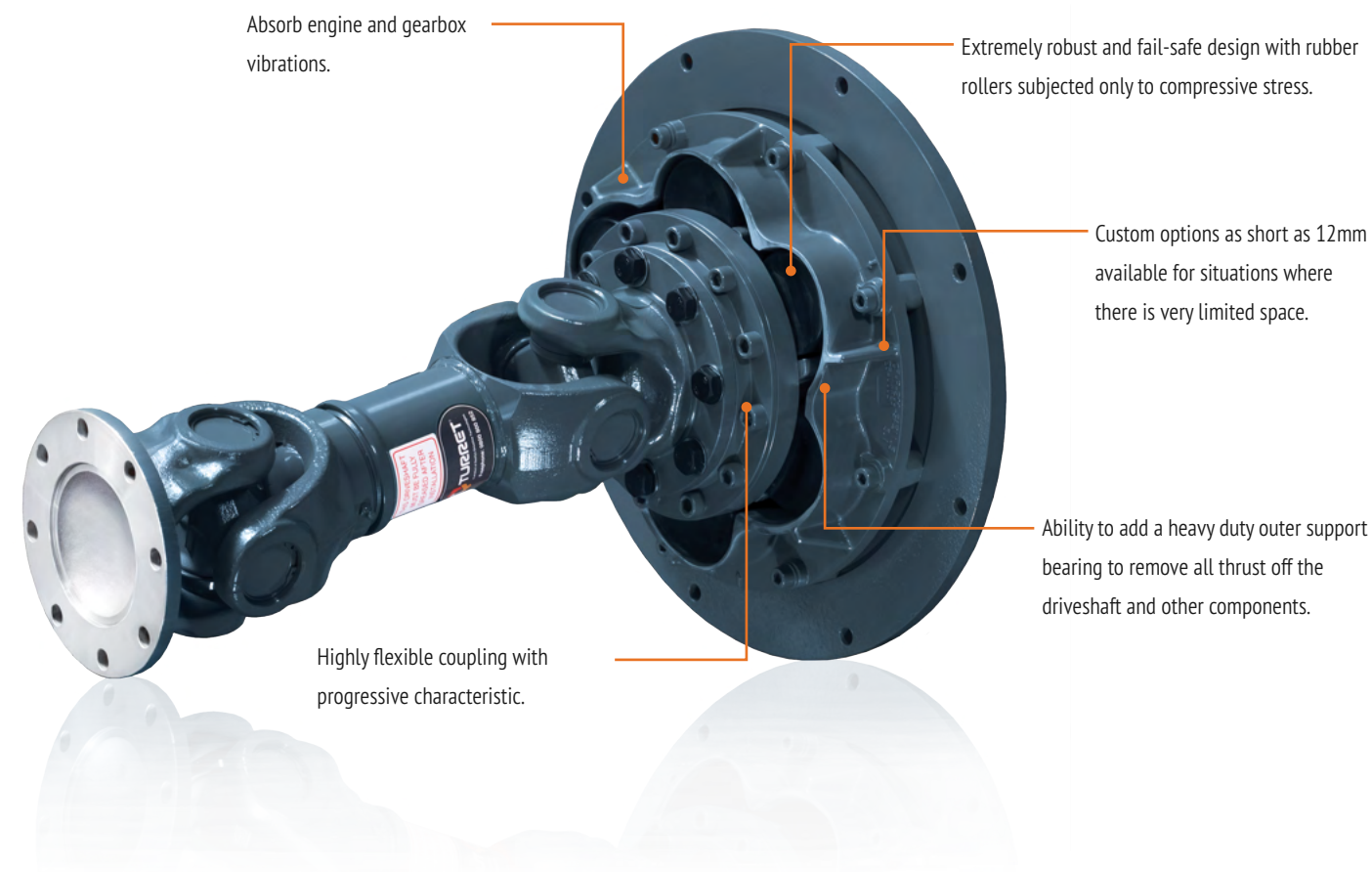
Double universal joint

Applications with excessive angle misalignment require double joints to allow for smooth operating. Also available on needle bearing and hardened bush options.

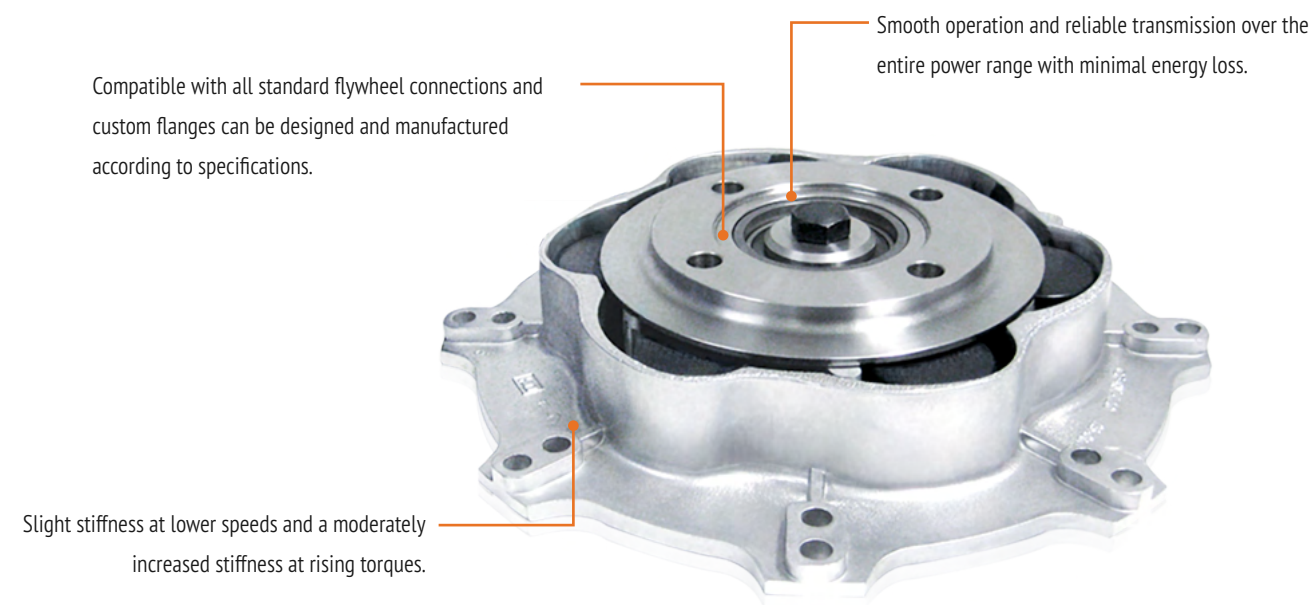
Stainless steel

Extend the life of your driveline in corrosive and food grade applications by opting for our full stainless steel option precision coupling.

Torsional Couplings



Compatible with all standard flywheel connections and custom flanges can be designed and manufactured according to specifications.





DRIVELINE SOLUTIONS TO DRIVE YOUR BUSINESS FURTHER

When it comes to drivelines, at Beattys we get satisfaction from resolving any challenge that comes through our world-class workshop. This not only comes from our can do attitude, but is backed by technical expertise, leading-edge manufacturing robotics and advanced design facilities. No matter the project - from a single specialist vehicle to a national fleet - there isn't a driveline problem we can't solve.

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100% FAMILY OWNED
FAMILY PROUD