



Built for the toughest terrain.

Driveline solutions for global
producers and manufacturers in the
primary industry.

Beattys

DRIVELINE
AGRICULTURE

It's the thinking before production that makes our drivelines different.

YOUR PROBLEM. OUR PASSION.

We take problems of complexity and scale and create bespoke driveline solutions to optimise performance. To us, every project is a different proposition – and an opportunity to craft the best solution.

At Beattys we understand that the industrial environment and the demands of the industry present the ultimate challenge for product quality and durability. Our design expertise has been proven time and time again, working with some of the leading industrial corporates in New Zealand and Globally.

WE ARE BEATTYS.

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



100% FAMILY
OWNED



VIP CUSTOMER
SUPPORT



MANUFACTURED
IN NZ



QUALITY
COMPONENTRY

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 is our legacy. With over sixty years of experience, we are one of the most trusted manufacturers and suppliers Globally 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 Driveline Auckland facility, and backed by our dedicated and accessible team from which we deliver to our global clients.

Our attention to your detail

1 ASSESS

Beattys will scope the project, identifying any critical parameters and challenges that we need to overcome to ensure we deliver a premium product.

2 DESIGN

Our team of technical engineers will then design a custom solution using state-of-the-art CAD and programming systems to ensure that we will meet all the client's needs.

3 MANUFACTURE

Throughout our driveline manufacturing process, you can be guaranteed of the highest level of engineering excellence and commitment to quality.

4 BALANCE

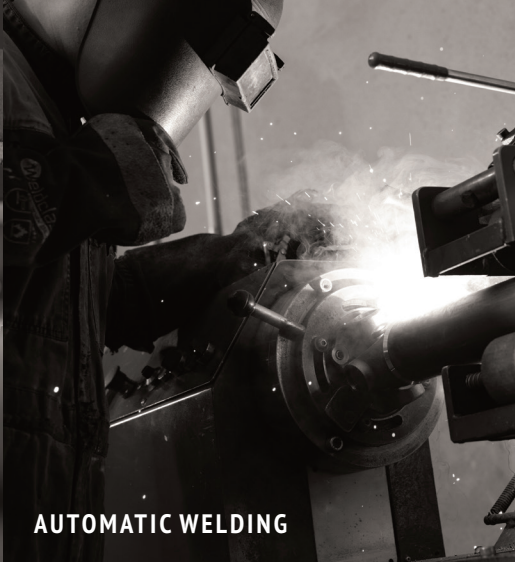
All drivelines are dynamically balanced in one of our four, multi-plane balancing machines. We spot-weld any weights to reduce stress on the driveshaft tube.

5 REVIEW

Once a driveline has been dynamically balanced and painted, it goes through a series of rigorous inspections and quality control measures to ensure the products we deliver will fit our commitment to premium quality.



TUBE CUTTING



AUTOMATIC WELDING



ASSEMBLY LINE



FITTING COMPONENTS



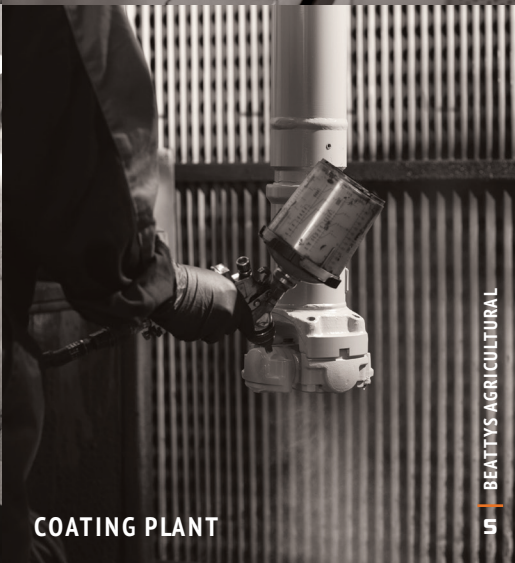
FITTING COMPONENTS



DYNAMIC BALANCING



BALANCE WEIGHT SPOT-WELDING



COATING PLANT

Agricultural Driveshafts

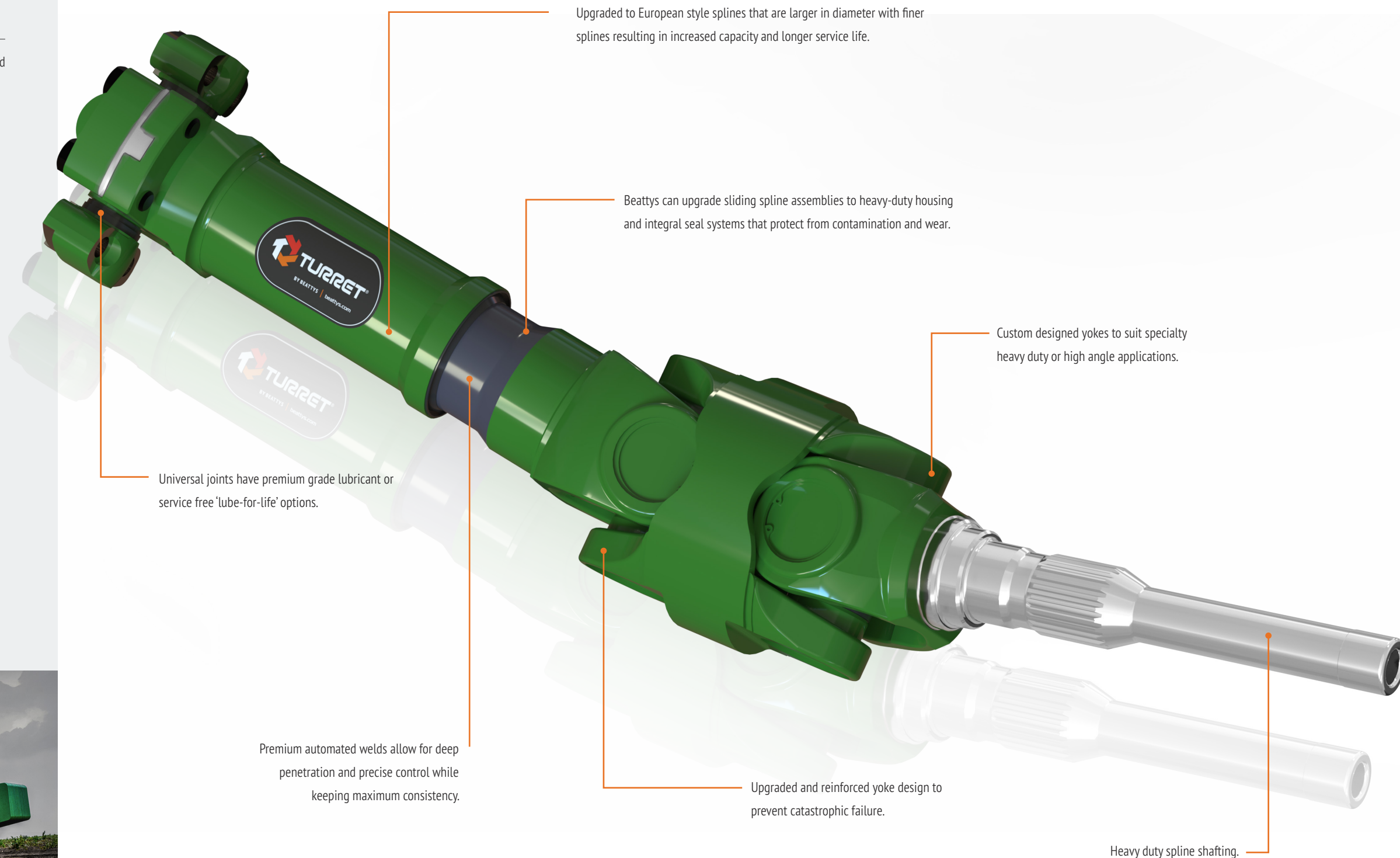
Premium driveshaft solutions - Built for the toughest terrain.

KEY STRENGTHS & BENEFITS:

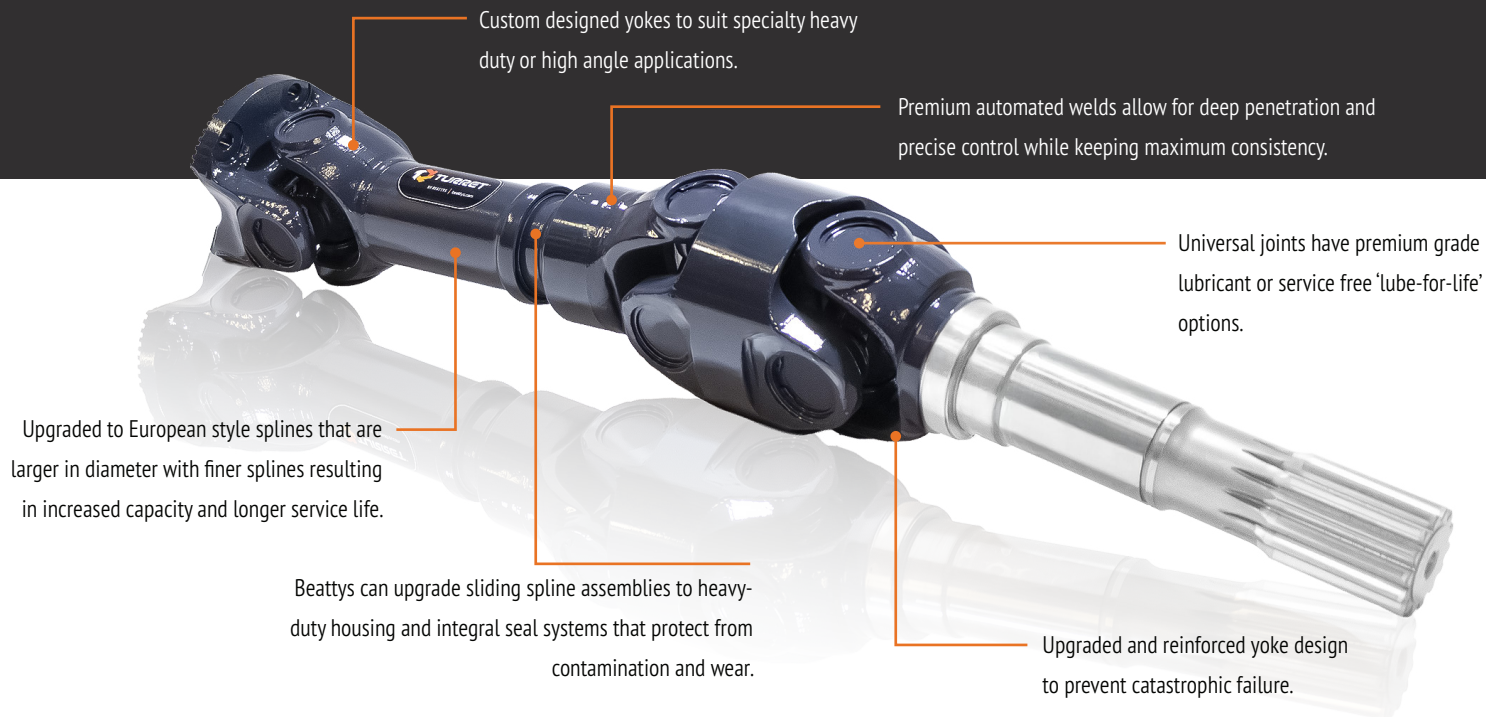
Throughout the world, agricultural machinery and equipment is relied upon to keep our primary industries and key commodity exports moving – that's why Beattys Driveline is trusted as an essential service provider to the agriculture industry. We have two specialist teams to cover all your driveline needs: 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 globally to deliver reliable, consistent performance.



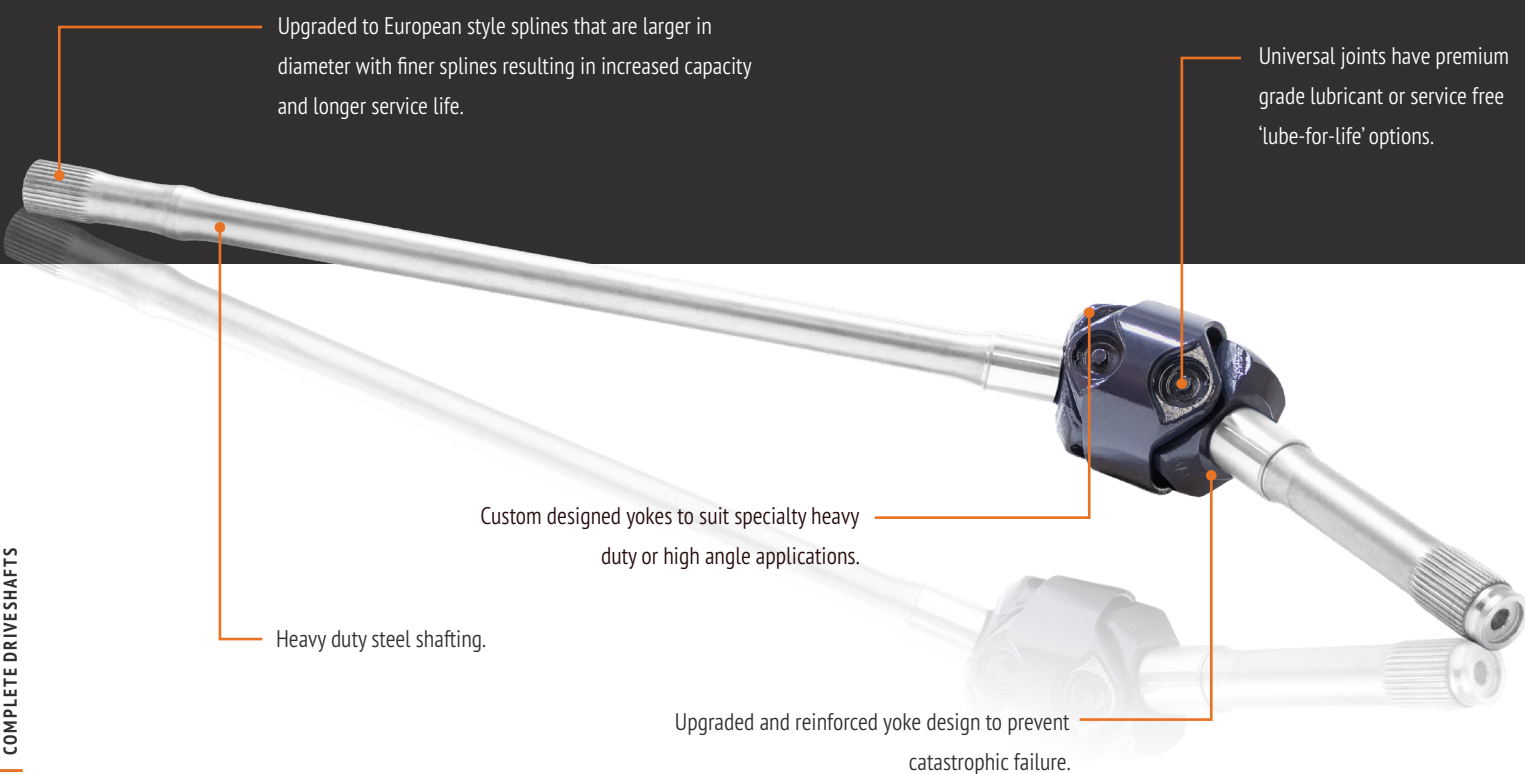
Axle Shafts (Heavy Duty)



Drive Shafts



Axle Shafts (Standard)



Groundcare Shafts



Universal Joints



OVERVIEW

The universal joint is one of the most critical parts in any driveshaft or axle-shaft, 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 to deliver reliable performance day after day on all agricultural equipment. We are proud to offer a comprehensive range of universal joints covering all applications with over 500 different styles and sizes available for delivery globally.

SPECIFICATIONS

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

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. While we 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 tractor and agricultural applications
- The ultimate solution for unequal angle situations

Sliding Spline Sets



OVERVIEW

One of the key components for any driveline on 4WD Tractors and Agricultural equipment 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 for Agriculture equipment.

SPECIFICATIONS

- Involute splines. - European design
- SAE spline for standard series
- Various spline lengths

Centre Yokes



OVERVIEW

Centre Yokes are part of a double cardan assembly and are used in situations where there is excessive angle such as 4WD axle shafts and driveshafts from the transfer box to the front differential. Beattys Driveline have several sizes of centre yokes available in stock for immediate delivery.

SPECIFICATIONS

- Smooth torque transfer
- Allows 30-35° angle of operations
- Constant velocity (CV) effect

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 equipment shaft with an excess of 160,000 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

Manufacturing

OVERVIEW

We have the internal resources, skills and expertise to produce all types of Agricultural drivelines. 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

- Axle universal shafts
- Groundcare driveshafts
- Sealed for life driveshafts
- Centre bearing shafts
- Custom design components
- Custom driveshafts
- Larger OEM production runs

Modifications

OVERVIEW

Due to the wide range of special purpose equipment needed to meet the demands of the agricultural industry, we offer a modification service for all types of drivelines including shortening, lengthening of driveshafts and changing drive ends. This service is often used in applications where the equipment is being modified to meet specific specifications.

SERVICES

- Driveshaft shortening
- Driveshaft lengthening
- Changing flange and yoke connections
- Upgrading for higher power ratings and heavy duty applications
- Enhanced greasing systems

Dynamic Balancing

OVERVIEW

Driveline dynamic balancing is a crucial part of the process to create a lasting solution for shafts that run above 500rpm. With four multi-plane balancers we 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. 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



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 and manufacturing facility. This comes not only 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 application to multi-industrial sites, there isn't a driveline problem we can't solve.

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100% FAMILY OWNED
FAMILY PROUD