



# Built for the toughest terrain.

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

**Beattys**

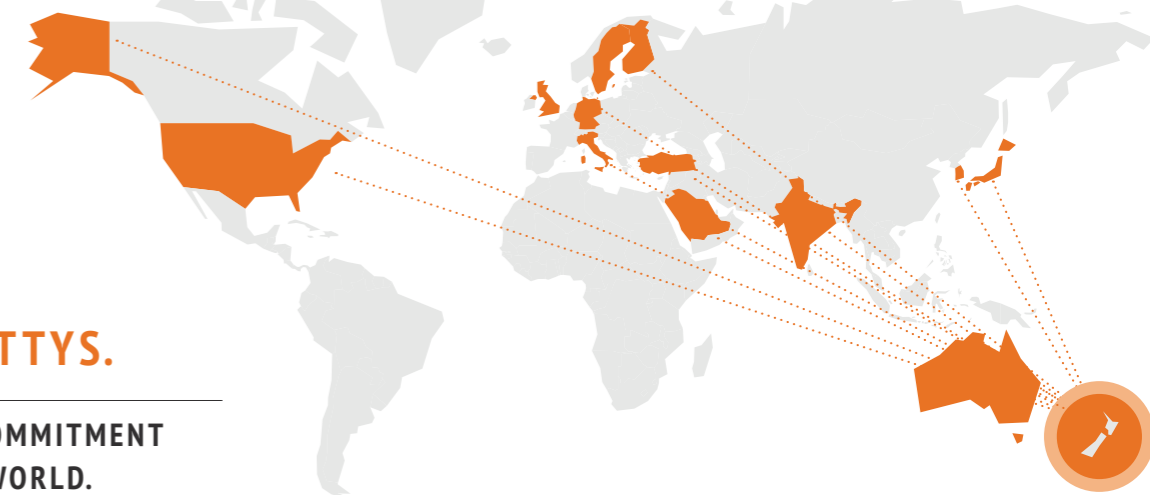
**DRIVELINE**  
AGRICULTURE

# 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 Australia.



## 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 New Zealand's most trusted manufacturer and 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 Driveline Auckland facility, and backed by our dedicated and accessible team.

# 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.



# Agricultural Driveshafts

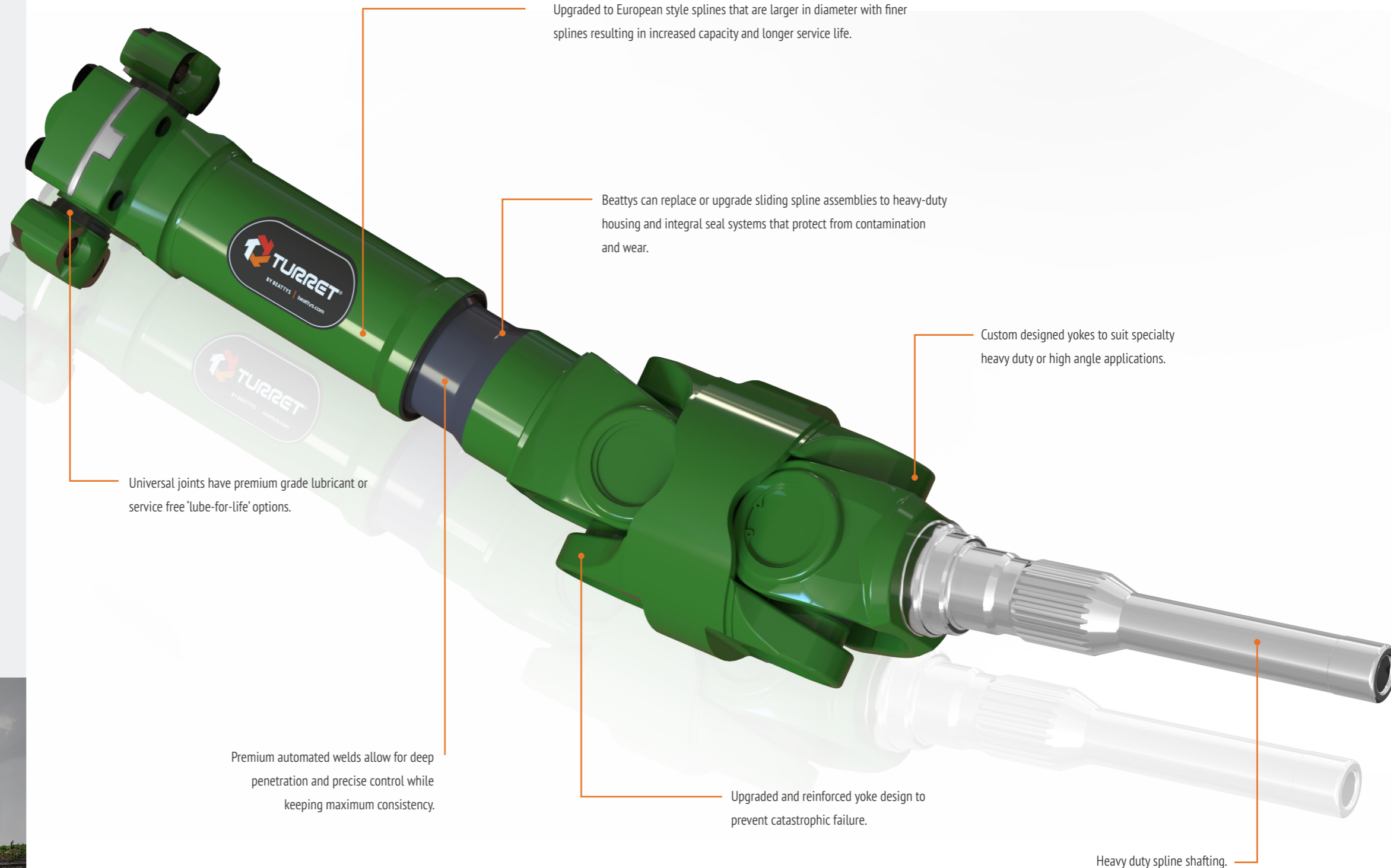
Premium driveshaft solutions - Built for the toughest terrain.

## 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 three specialist teams to cover all your driveline and rotating equipment needs: our componentry team keeps all your driveshaft wear parts on hand, ready for overnight despatch while our driveline engineers take care of repairs, servicing and modifications. Our Beattys balancing team complements the service lineup by offering dynamic balancing and associated repairs for all agriculture rotating equipment such as flail rotors, fans & harvester drums.

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 equipment asset managers and operators nationwide to deliver reliable, consistent performance.



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

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

Custom designed yokes to suit specialty heavy duty or high angle applications.

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

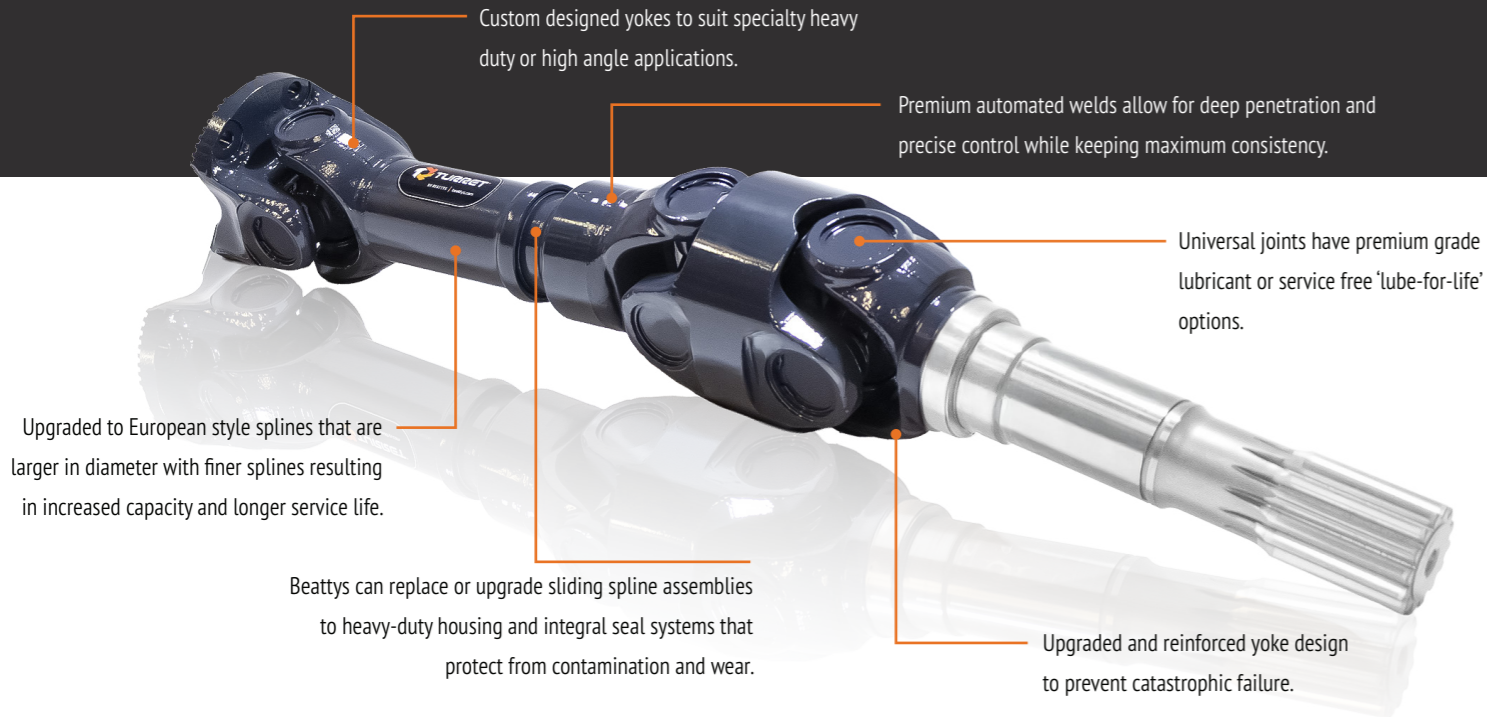
Premium automated welds allow for deep penetration and precise control while keeping maximum consistency.

Upgraded and reinforced yoke design to prevent catastrophic failure.

Heavy duty spline shafting.



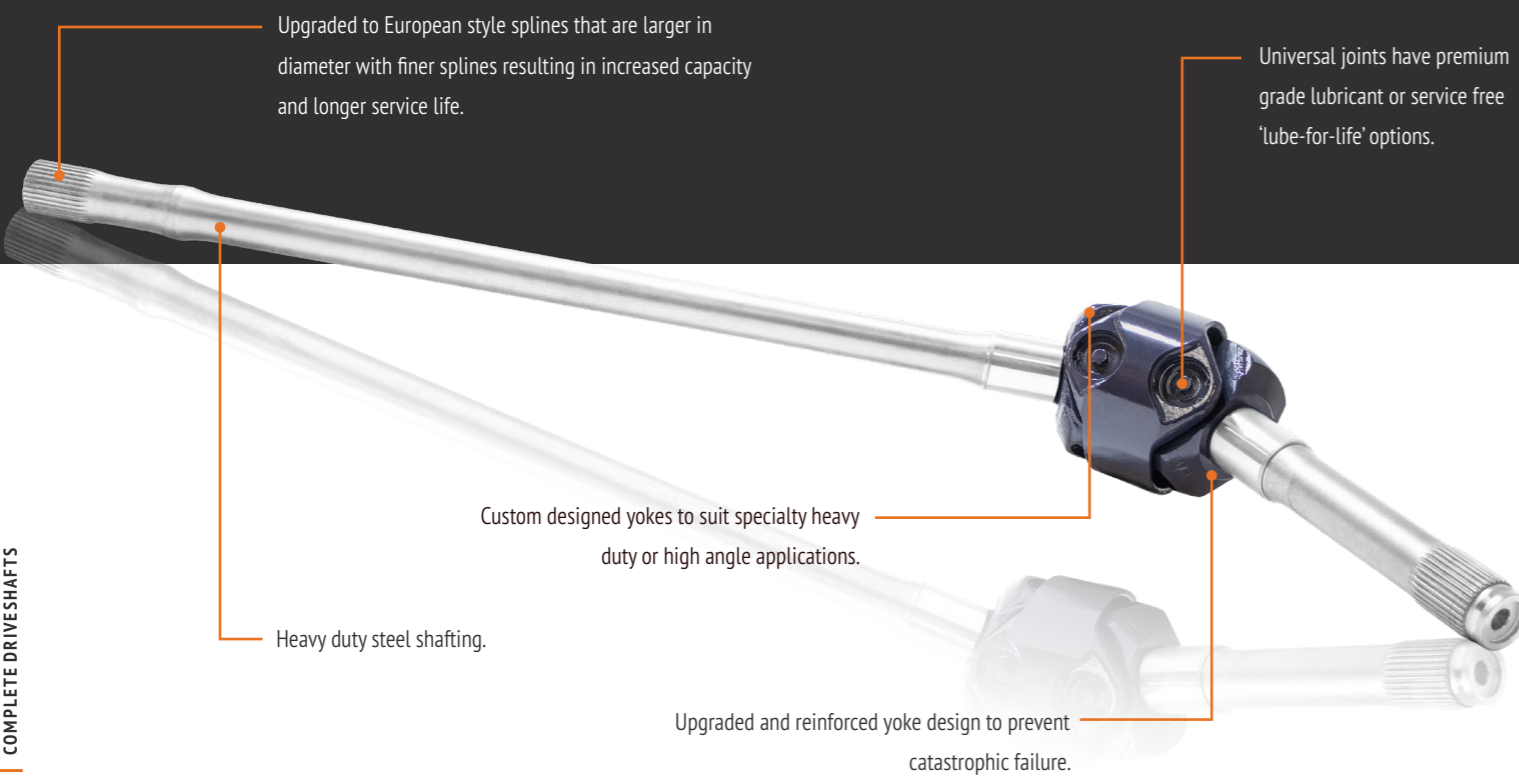
## Axle Shafts (Heavy Duty)



## 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 the largest stocked range of universal joints in New Zealand covering all applications with over 500 different styles and sizes.

### 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 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

## 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 Group 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

# Industrial Balancing

Remove vibration and optimise your rotating equipment.

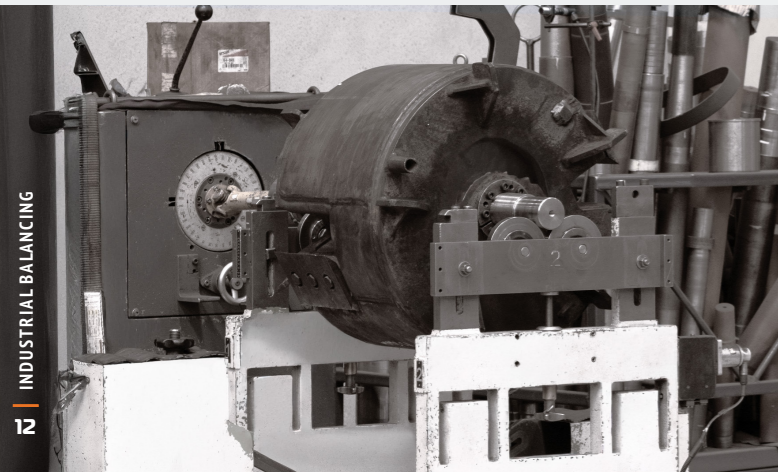
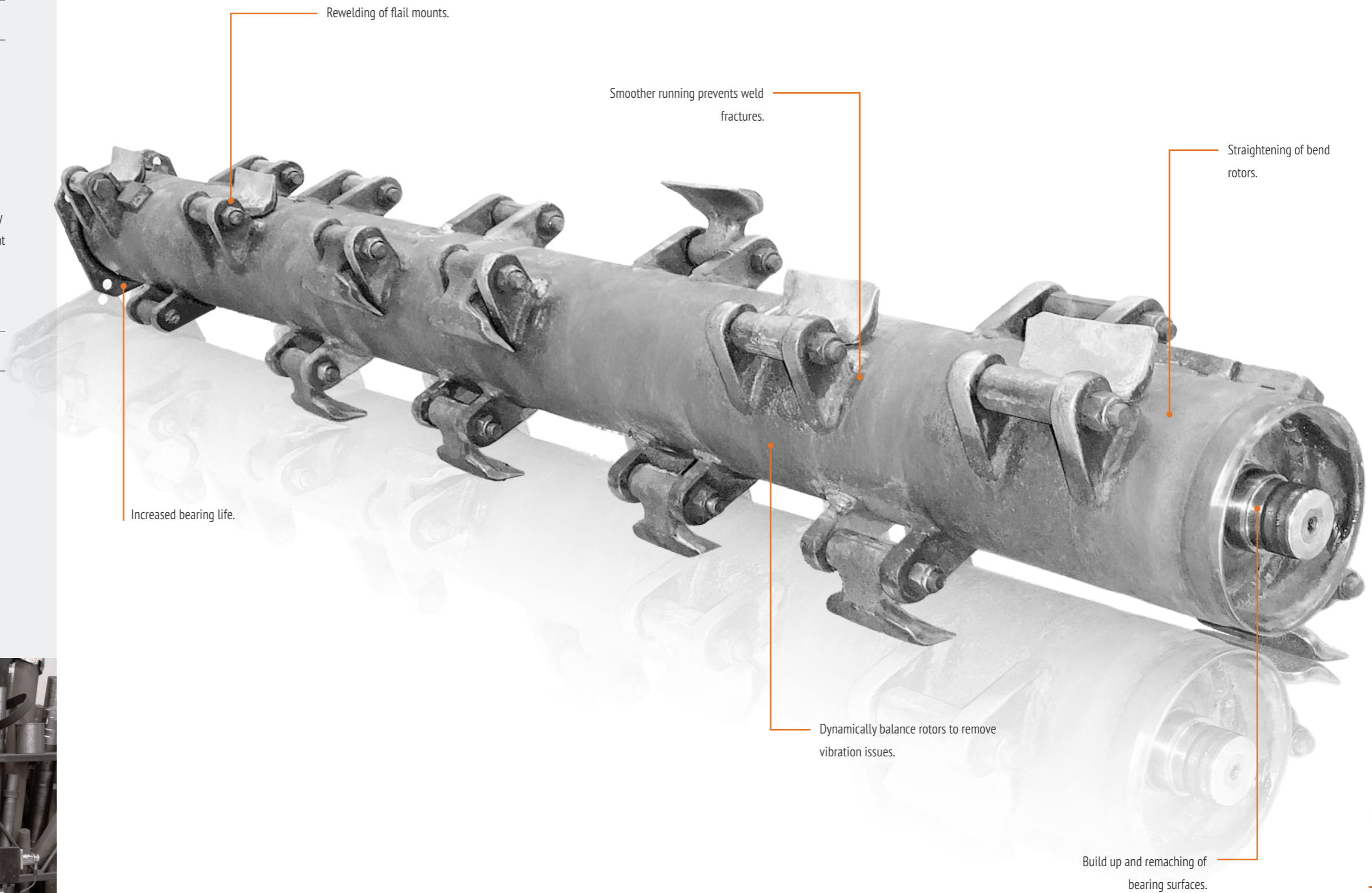
## OVERVIEW

Beattys' dynamic balancing services extend beyond drivelines to improve the performance of many agriculture rotating components including tree chippers through to high speed drums and flail rotors. If a vibration develops in the equipment the performance and reliability is compromised, and if left unrectified, increased wear and mechanical stress will lead to maintenance issues.

The skilled team at Beattys carry out a vibration analysis and identify areas for correction. The improvements made result in the component operating to peak efficiency, reducing wear and energy consumption along with enhancing safety and production output.

## APPLICATIONS

- Flail rotors
- Blades / Chipper discs
- Chipper drums
- Stump grinding rotors
- Mutching drums



## 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 drivshafts we manufacture are then dynamically balanced to ISO 1940 standards to ensure the durability and performance.

### SERVICES

- Axle universal shafts
- Groundcare drivshafts
- Sealed for life drivshafts
- Centre bearing shafts
- Custom design components
- Custom drivshafts
- 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 drivshafts 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

## Reconditioning

### OVERVIEW

If a driveshaft has failed, we have the skills and componentry to repair it and get you operational again. We understand that time is always a factor when something unexpected happens, so we always go the extra mile to ensure you are up and running in record time. All repair jobs are tracked through our system, giving our team complete visibility of past and current jobs. This helps us ensure that repairs are engineered to a standard that prevents further issues and failures.

### SERVICES

- Urgent overnight and same day repairs
- Heavy duty component upgrades
- Spline replacement
- Re-tubing
- Universal joint replacement
- Yoke replacement
- Centre bearing replacement
- Straightening and re-alignment

## 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



**Beattys**  
DRIVELINE

## 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.

+64 9 263 7761 / [enquiries@beattys.com](mailto:enquiries@beattys.com) / [beattys.com](http://beattys.com)

**100%** FAMILY OWNED  
FAMILY PROUD