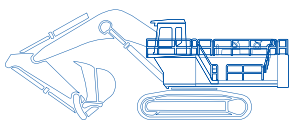




**UNDER-  
CARRIAGE**

# **KOMATSU UNDERCARRIAGE SOLUTIONS**

The science of managing your operating costs



**KOMATSU**  
*Driven by your success*

# THE INVESTMENT THAT UNDERPINS YOUR MOBILE WORKHORSE

Undercarriage represents a significant investment for any tracked machine. That's why Komatsu offers two ranges of undercarriage components.

We offer genuine Komatsu undercarriage for all Komatsu crawler equipment, such as Excavators and Dozers.

In addition, Komatsu offers a full range of Berco undercarriage products to suit most non-Komatsu machines.

Both systems offer a complete range of Undercarriage component options, including: track groups, link assemblies, grouser plates, track rollers, carrier rollers, idlers, sprockets, pins and bushes.

Komatsu is equipped with highly trained professionals and track press facilities across the country to perform your undercarriage inspections or track repairs.

To avoid unnecessary downtime, we offer free undercarriage inspections, to ensure that your machine is working safely and effectively.



## UNDERCARRIAGE SPECIALISTS

No guesswork, means no wasted time or money

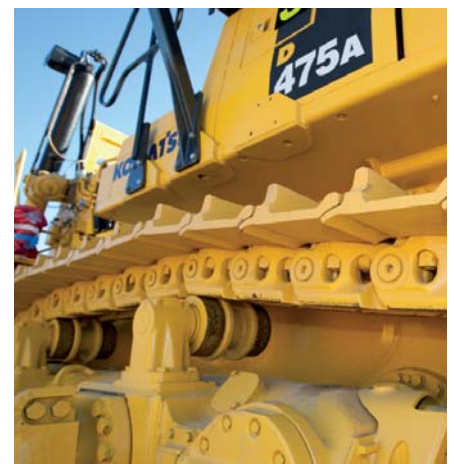
Komatsu is a leading distributor of Undercarriage solutions for all makes and models of earthmoving machinery. We boast one of Australia's largest inventories, delivering parts when you need them.

Our Undercarriage solutions cater for a wide range of market segments including: Mining, Construction, Quarry, Utility, Agriculture, Land Fill, Demolition, Fixed Plant and Government.

We also offer a free ultrasonic Undercarriage inspection to all Komatsu

customers. The Komatsu Ultrasonic Undercarriage inspection means you no longer have to base your machinery investment on guesswork.

You get accurate information you need to manage the undercarriage life of your machine. You can schedule an Ultrasonic inspection at a time that suits you. Inspections take approximately 30 minutes and on completion of the inspection you will receive a report that includes recommendations, as well as tips for minimising your undercarriage wear.



# HELPING TO MANAGE YOUR UNDERCARRIAGE LIFE

## Utilising our Ultrasonic Undercarriage Inspections

Our Ultrasonic Undercarriage Inspections offer you a range of features and benefits that help extend the life of your Excavator, Dozer or any machine with an Undercarriage system.

Features	Benefits
Regularly scheduled Ultrasonic inspections measure bush thickness, link height, shoe height and roller shell thickness, capturing the data electronically	<ul style="list-style-type: none"> <li>Undercarriage management based on fact instead of guesswork</li> <li>Scheduled 30 minute inspections can save unexpected downtime, emergency costs and lost opportunity</li> <li>Once they've tried it, 80% of Komatsu customers schedule regular inspections because it provides value to their business</li> </ul>
Automatically created inspection reports highlight component life expectancy in hours and as a percentage of new component life	<ul style="list-style-type: none"> <li>Increased uptime through scheduled pin and bush turns or replacement</li> <li>Reduced overall operating and repair costs for dozers through pin and bush turn and replacement</li> </ul>
Fact based recommendations consider your particular operating practices and site conditions to determine track life expectancy	<ul style="list-style-type: none"> <li>No need to base you undercarriage investment on guesswork</li> <li>Minimise wear and reduce undercarriage life cycle costs</li> </ul>

## KOMATSU UNDERCARRIAGE OPTIONS

### Solutions for your undercarriage needs

#### Re-Lugging

Komatsu track press facilities offer grouser plate re-lugging using a submerged arc welding process, which can bring the lug of your track plates back to new. The re-lugging process involves the cleaning of your old lug surface to ensure a clean bond for the new lug. The grouser plate is heated and the unique welding process carried out to fit the new lug to your existing grouser plate. Re-lugging is a great option for larger machines, as plates can be re-lugged and given another life.

#### Dual Bushing Track - D275 & D375

The Komatsu Dual Bushing Track is a unique structure that operates an Inner and Outer Bushing. The Inner Bushing is press fitted into the Link,

whilst the outer bushing is free and rotates around the pin. The Dual Bushing Track is ideal for sandy terrain, as its lifespan is more than double the life of a conventional track.

#### PLUS Undercarriage System (Rotary Bushing Track) - D51, D61 & D65

The parallel linkage undercarriage system is the most efficient solution for all dozing applications, significantly reducing your total cost of ownership and providing an extremely smooth ride. Every component in the PLUS undercarriage has been significantly designed and manufactured to give the whole system a significantly longer lifetime. A unique hardening process ensures the optimal balance between longer wear life and high impact resistance, giving every component the

same long lifetime. That means fewer undercarriage changes and no need to replace worn parts between overhauls - savings you time and money.

#### Abrasion Resistant Track - PC300

The Abrasion Resistant Track is suitable for the Komatsu PC300-7 and is designed for sandy and harsh applications, which usually result in premature wear. The Abrasion Resistant Track offers a larger diameter stepped type bushing that increases wear amount by the increased case depth. In addition to the larger Bushing the Sprocket has also been modified with contoured teeth due to the increased bushing diameter. The Sprocket offers an added slot on its side face to make easy disposal of dirt/mud offering you increased wear area for your Undercarriage.



# TRACK PRESS SOLUTIONS

## Utilising our on and off site Undercarriage facilities

Komatsu is equipped with eight track press facilities across the country to perform your undercarriage inspections or track repairs.

As a large OEM, we boast an extensive track press facility network – meaning we can service your undercarriage at one of our six sites, without outsourcing to a third party supplier.

Additionally, our mobile Track Press is available to perform undercarriage operations on your site.

### Track Press Solutions

With our state-of-the-art track press facilities, we can breathe new life and

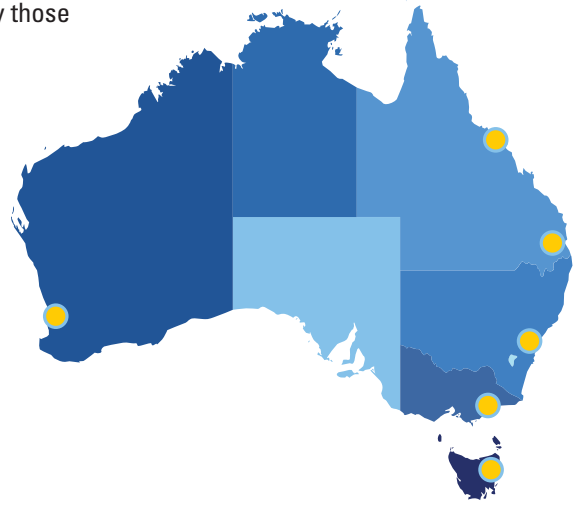
efficiency into your Undercarriage by cost-effectively replacing only those parts that need replacing.

Service jobs include:

- Pin and bush turns or pin and bush replacement
- Shoe bolt-up
- Grouser plate relugging

### Fixed Track Press Locations

- Sydney, NSW
- Gippsland, VIC
- Launceston, TAS
- Brisbane, QLD
- Mackay, QLD
- Perth, WA



## How our Track Press Services help manage your Undercarriage life

Once your undercarriage is put on the track press and dismantled, you receive a full inspection analysis report and detailed recommendations on specific components.

Component	Inspection Point
<b>Seal</b>	<ul style="list-style-type: none"> <li>• Inspect sealing surface for wear, damage, deterioration and roughness</li> <li>• Vacuum pump used to remove air inside pin assembly</li> <li>• Vacuum test seal joints to ensure no loss of pressure</li> <li>• Replace track chain lubricant with recommended lubricant</li> <li>• Replace all seal groups</li> </ul>
<b>Pin</b>	<ul style="list-style-type: none"> <li>• Inspect pin surface and ends for stepped wear, scraping, cracks and faults</li> </ul>
<b>Bushing</b>	<ul style="list-style-type: none"> <li>• Inspect surfaces for wear, cracks, breakage and corrosion</li> </ul>
<b>Link</b>	<ul style="list-style-type: none"> <li>• Inspect load ring for wear</li> <li>• Inspect link for wear in contact surface with bushing</li> <li>• Inspect link bore surfaces, height and bush face surface for serviceability</li> </ul>
<b>Spacer</b>	<ul style="list-style-type: none"> <li>• Inspect the spacer for corrosion, wear, cracks and breakage</li> </ul>
<b>Shoe</b>	<ul style="list-style-type: none"> <li>• Inspect shoe and link mating surface</li> <li>• Repair mating surface by sanding</li> <li>• Torque tighten shoe bolt to manufacturers' torque specifications</li> </ul>
<b>Lug</b>	<ul style="list-style-type: none"> <li>• Weld the lug materials to shoe grouser</li> </ul>





## KOMATSU UNDERCARRIAGE SOLUTIONS

1	2	3	4	5
Ultrasonic Inspection	Report and Recommendations	Service	Parts Inventory & Delivery	Reduce Operating Costs



# BERCO HEAVY DUTY TRACKS PRODUCTS

Undercarriage Solutions for all makes of equipment

Komatsu offers a full range of Berco Undercarriage products to suit non-Komatsu machines. By implementing rigorous controls and processes during manufacturing, Berco Undercarriage systems wear at a predictable rate, making their components easier to maintain.

## The Complete Choice

Berco products offer an efficient, reliable and economical solution to any operation. Whether in open pit mining, quarrying or earthmoving of large land reclamation, Berco can offer you the right answer to your undercarriage needs.

## Track Chains

Special heavy duty sealed and lubricated track chains have been accurately designed for increased pin and bushing retention. The links incorporate greater pin to link and bushing to link contact areas, while additional link wear material increased contact life.

## Rollers

Rollers feature reinforced flanges and have been designed and manufactured to achieve longer life in the most severe applications.

## Idler Groups

Berco track idler groups are manufactured for superior wear resistance where the cast, forged or fabricated Berco idlers provide superior structural support.

## Track Shoes

Berco has developed a range of forged shoes. A full automated forging line, equipped with a 32,000 tonne press followed by machining and a heat treatment process deliver a product with the greatest mechanical wear resistant properties.

## Sprockets

Deep induction hardening and excellent depth patterns on the entire tooth profile

provide long wear life. Berco sprockets guarantee maximum resistance and durability even in severe applications.

## Segments

Segments are hardened for improved wear resistance, high surface depth and core hardness, meaning Berco segments offer long wear life and are resistant to bending and breakage.



## CUSTOMER SUPPORT

Quality workmanship, commitment and expertise each time — every time.

Systems can be sophisticated and products outstanding, but ultimately their effectiveness relies on the expertise of the people behind them. When you invest in Komatsu, you are buying into a wealth of expertise, quality product, service and commitment.

Komatsu remains at the forefront of industry developments through our global network and extensive research and development programs.

With more than 1,500 employees, Komatsu Australia has the talent and expertise to provide you with the best

solutions. No matter how big or small your requirements are, Komatsu offers total customer support.

For more information call us today to speak to a highly trained expert or you can visit our website for more information.





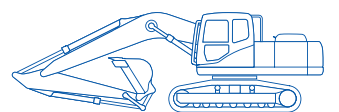
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