

# KOMATSU

## Parallel Link Undercarriage System (PLUS)

Durability where you want it,  
strength where you need it



# Parallel Link Undercarriage System (PLUS)

**Built for reliability, durability and performance**

**PLUS undercarriage delivers outstanding performance in any dozing application. We also back up all our undercarriage with proven, high-quality support services.**



Komatsu is committed to helping you get the most from your machine. That's why we offer the most advanced and most reliable parts to optimise performance and reduce your operating costs. 100% designed and manufactured by Komatsu, the Parallel Link Undercarriage System (PLUS) is another example of this commitment. It's the most efficient solution for all dozing applications, significantly reducing your total cost of ownership and providing an extremely smooth ride.

### Longer operating life

The PLUS undercarriage has been designed to give the whole system a longer lifetime. A unique hardening process ensures the optimal balance between longer wear life and high impact resistance. That means fewer undercarriage changes and no need to replace worn parts between overhauls – saving you time and money.

### Lower your cost of ownership

The PLUS undercarriage lasts up to twice as long as conventional undercarriages (depending on the application) so there's less downtime for replacements. It's ideal for all applications and conditions. Furthermore, you can easily replace damaged parts in the field. This all adds up to a huge reduction in your total cost of ownership.

### Less work

Upgrading to our PLUS undercarriage is quick and easy. You just change the undercarriage components. There's no need to modify the track frame or to drill any holes – you can even re-use the idlers. And once you have a PLUS undercarriage, its longer lifetime means fewer replacements so less machine



## PLUS Benefits

### Why choose PLUS undercarriage?

- By preventing packed material build up, the recessed sprockets reduce pressure on the seals and extend their life. The sprockets are segmented for easy, in field sprocket tooth replacement in case of damage.
- The parallel link assembly supports the floating bushing, minimising stress and wear on the pins, seals and other components.
- Improves track guidance and is designed to last as long as the rest of your PLUS undercarriage. The PLUS undercarriage excels in all applications and all conditions: standard or heavy-duty, low or high impact or abrasion. When conventional undercarriages are long gone, the PLUS undercarriage keeps going strong.



# Technology

## The Komatsu PLUS undercarriage excels in all applications

### 1. Floating bushing

The Komatsu PLUS link assembly features a unique and highly reliable floating bushing that rotates freely as you drive. Oil-lubricated, the bushing rotates smoothly around the pin without friction. It also reduces friction on the sprocket so the bushing wears evenly without local wear spots – ensuring a longer life for both the bushing and the sprocket.

### 2. Longer-wearing links

Komatsu PLUS links have more wear height than the conventional Komatsu undercarriage links and undergo a unique hardening process. They feature more hardened steel for a longer wear life yet maintain the same amount of hightensile steel for maximum impact resistance.

### 3. Long-life seals

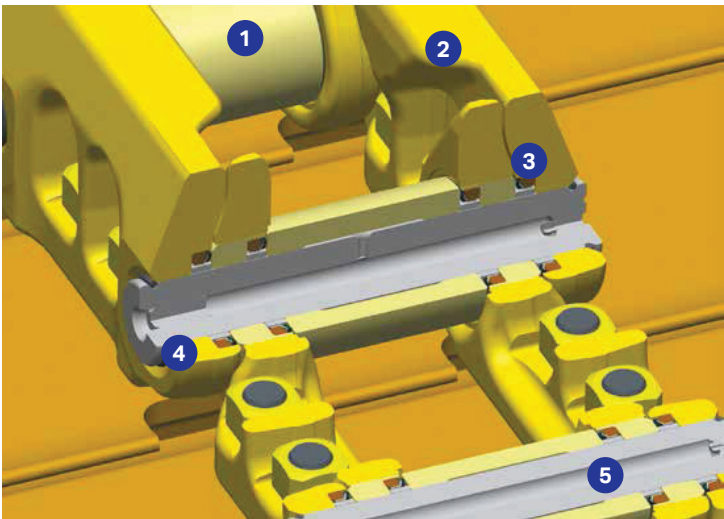
Unique Komatsu-designed seals keep the lubrication in and the dirt out. Successfully tried and tested over many years on our larger bulldozers, they're designed to last as long as your PLUS undercarriage and reduce the risk of leakage.

### 4. Wedge ring

Proven in the field on countless large Komatsu dozers, the wedge ring system makes it easier to change accidentally damaged link assembly parts in the field.

### 5. New track guard

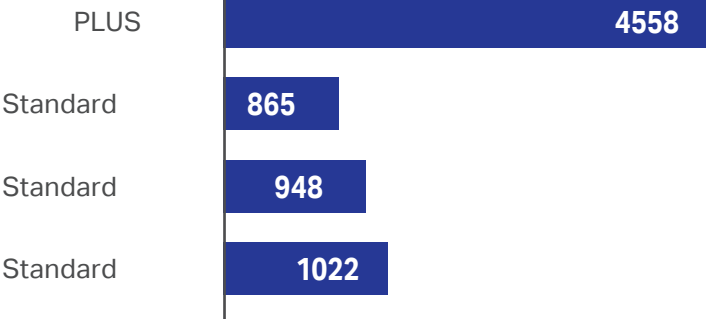
Made from specially hardened steel, the redesigned PLUS track guard stops stones and debris from getting stuck in the undercarriage, preventing damage to the track link assembly.



## Test

**Machine:** D85PX-15E0  
**Application:** High Abrasion Mineral Sands  
**Result:** Komatsu PLUS completed 4558 hours compared to standard which completed an average of 945 hours

1st Set	Standard	1022
2nd Set	Standard	948
3rd Set	Standard	865
4th Set	PLUS	4558





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## For more information:

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