



**ENHANCED
PERFORMANCE**



A-FRAME COLLETED PIN ASSEMBLY

To suit Caterpillar 777 and 785 Haul Trucks

2025 - Revision 2

geographe.com.au

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TO DELIVER.**

Solving dismantling challenges in the A-Frame

Addressing dismantling challenges and bearing design shortfalls

Due to harsh operating conditions, pins and spherical bearings in A-Frame assemblies located on the A-Frame pivot are prone to seizing, making extraction time-consuming. Hot work permits are required to lance out the pins, raising safety concerns for maintenance teams.

Factors that contribute towards failures

Many factors affect the service life of components when working in highly stressed and harsh working environments such as:

- Excessive vibrations caused by uneven surfaces
- Poor lubrication due to temperatures or lube system failures
- Overloading (payload)
- Fine dust/ore particles getting into critical areas that create abrasion and accelerates wear
- Original design limitations

The Geographe Solution

After hearing about the challenge of standard A-Frame assemblies, Geographe developed the Enhanced Performance A-Frame Colletted Pin Assembly (CPA).

The collets in the assembly expand into Geographe's custom non-split cap bores, securing into place and eliminating unwanted movement between the pin and caps. The CPA design eliminates the shimming required with the OEM standard set-up and reduces the likelihood of corrosion-causing problems, all of which can contribute to dismantling difficulties.

In conjunction with these enhancements, Geographe has redesigned the spherical bearing with a thicker outer shell with increased strength & durability.



Reduces labour costs and risk to maintenance personnel due to fewer premature failures.



Decrease in extended downtime during maintenance events.



Safer work environment for maintenance teams by eliminating the need for hot works.



Predictable maintenance outcomes, with pin seizure eliminated/reduced.

Full Interchangeability, With Optimal Results

The A-Frame CPA is interchangeable with standard OEM equipment, meaning the assembly fits directly onto the chassis and the bearing into the A-frame bore without any modifications.



11536089

A-Frame CPA to suit

Caterpillar 777 and 785 Haul Trucks



A-Frame Location

The A-frame is located at the rear of the haul truck, beneath the cargo area, and connects the chassis to the rear axle assembly.



Improve Performance with Optimised Strength

A-Frame Colleted Pin Assembly to suit Caterpillar 777 and 785

OEM Reference: 8X0573MOD EP

Geographe Reference: 11536089

Geographe Pin Comparison

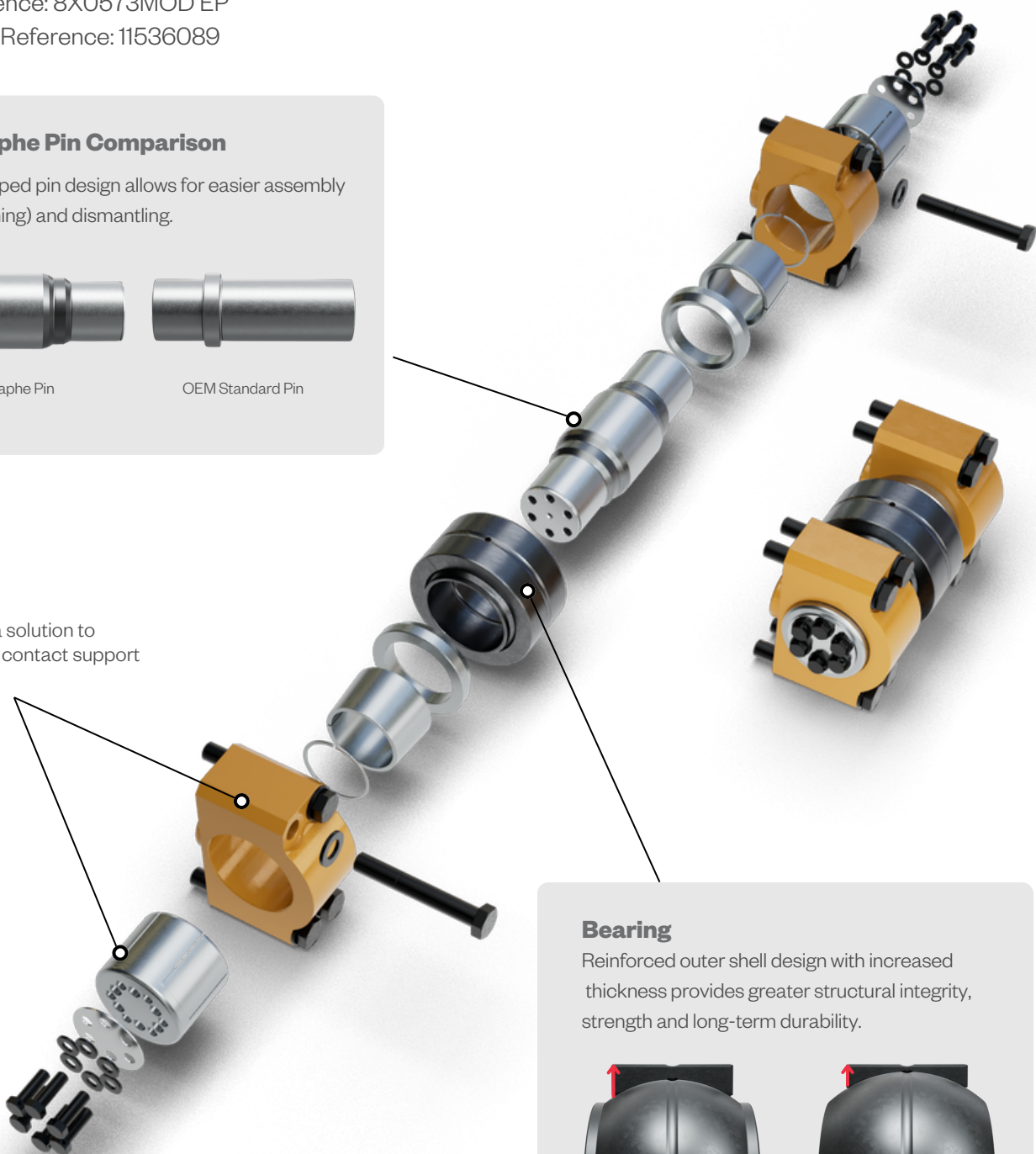
Multi-stepped pin design allows for easier assembly (no shimming) and dismantling.



Geographe Pin

OEM Standard Pin

Solid caps, a solution to facilitate full contact support for collets



Bearing

Reinforced outer shell design with increased thickness provides greater structural integrity, strength and long-term durability.



Geographe Bearing



OEM Standard Bearing



ENHANCED PERFORMANCE

With over 1,000 Enhanced Performance (EP™) components now catalogued to suit OEM brands such as Caterpillar, Komatsu, Hitachi, and Liebherr, Geographe creates and manufactures products to outperform any wear parts in the market.



Extend the
Operational Life
of parts



Correct known
deficiencies in
OEM parts



Adapt existing
designs for specific
conditions



Cut maintenance
costs and increase
uptime

How we add value to your operation

At Geographe, our products are designed to deliver beyond expectations. We provide engineered solutions to achieve higher equipment utilisation and performance rates.

We collaborate with our customers to solve mine site challenges, helping to significantly reduce maintenance time, improve safety, and decrease up-front and whole-of-life operating costs.

Through innovative thinking and a pioneering approach, our dedicated team of skilled engineers, metallurgists, analysts, and developers design and engineer high-performance parts to support optimal performance and minimal interruptions to operating equipment in mine sites around the world.

Let us know how
we can help.

Customer Service Centre

Australia: 1800 999 240
International: +61 8 9449 1111
Web: geographe.com.au/contact

480 Abernethy Road,
Kewdale, Western
Australia, 6105



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It is not implied that any part listed is the product of the OEM.

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ABN 65 008 754 596.
CRA BN 796931822 RT0001

geographe.com.au
geographe.us

Head Office Address:

480 Abernethy Road,
Kewdale, Perth,
Western Australia
6105.

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