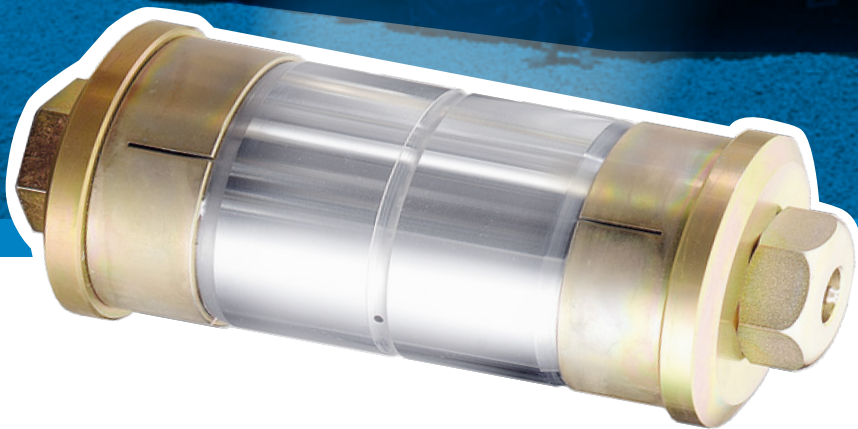


CATERPILLAR 793 B / D11T / R

Expander System cuts 12-hour installations to just 60 minutes

WE'LL HELP YOU FIND THE RIGHT PIN FOR YOUR APPLICATION.
SUCCESS STORY
EXPANDERSYSTEM.COM



Stabilizer, suspension,
and ripper pins



793B TRUCK STABILIZER & SUSPENSION PINS



Sector:

Powder River Basin Coal Deposit, Wyoming, USA

Application: Cat 793B Truck Stabilizers & Suspension

Customer: Komatsu Dealer KEC Wyoming

Product: Expander Stabilizer & Suspension Pins

CHALLENGE

Repairs to stabilizer and suspension joints were prolonging truck downtimes

A This mining operation operates a fleet of 50 Cat 793B trucks In Wyoming's Powder River Basin. Maintenance crews found that contact between conventional pivot pins and parent metal was damaging lug-ear bores on every truck they worked on. The cost and time for corrective welding and line boring were serious concerns.

SOLUTION

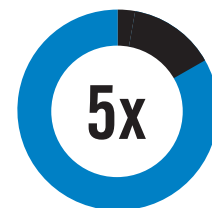
An onsite Expander System test

After we explained the Expander System's superiority over traditional methods, KEC's customer decided to give it a field test. The test was short. It quickly demonstrated that the Expander pin is easier to install and that, by absorbing wear, its expanding sleeve eliminates welding and line boring altogether.

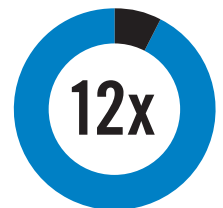
ADVANTAGES

Reduced cost and downtime; extended life cycle

1. **Dramatic cost savings over conventional repairs**
2. **Massive time reduction**
From a 12-hour shift per position to just one hour
3. **Tremendous pin life-cycle extension**
From 1,500 hours to 50,000 hours
4. **Easier installation and removal**



EXTENDED
LIFE CYCLE



FASTER INSTALLATION
PER POSITION

BENEFITS

Satisfied customer, a large market for the Cat 789C truck

All 50 trucks were eventually outfitted with Expander. The Expander system became the standard of repair for the entire fleet. This position application has been successfully utilized for Cat trucks by mines in the US, Canada, South America, Australia and Africa.

D11T & R DOZER RIPPER PINS



Sector: Copper Mine,
British Columbia,
Canada

Application:
Cat D11T & R

Customer:
Komatsu Dealer
SMS Canada

Product:
Expander Ripper Pins

CHALLENGE

Multiple line-boring hassles

The mine was having to constantly line bore all positions on their dozers. In addition there were unique pin clearance issues to deal with such as a blind hole position. In the case of the lift frame to frame position the tracks must be removed to set up line boring equipment.

SOLUTION

A bolt-through pivot pin that doesn't require line boring

Expander has a solution for line-boring, disassembly, and pin-clearance issues: a bolt-through design that can be installed from one side. The mine has been saving time and labor across its dozer fleet with the Expander System since 2007. And now the mine replaces OEM pins with Expander pins on every new dozer purchased, before putting it to work.

ADVANTAGES

Streamlining the repair process

1. **Less downtime, thanks to fewer repair steps, plus easier pin installation and removal**
2. **Lower costs, because lug ears need no rebuilding**
3. **Longer life cycles, due to Expander's reduced-wear design**



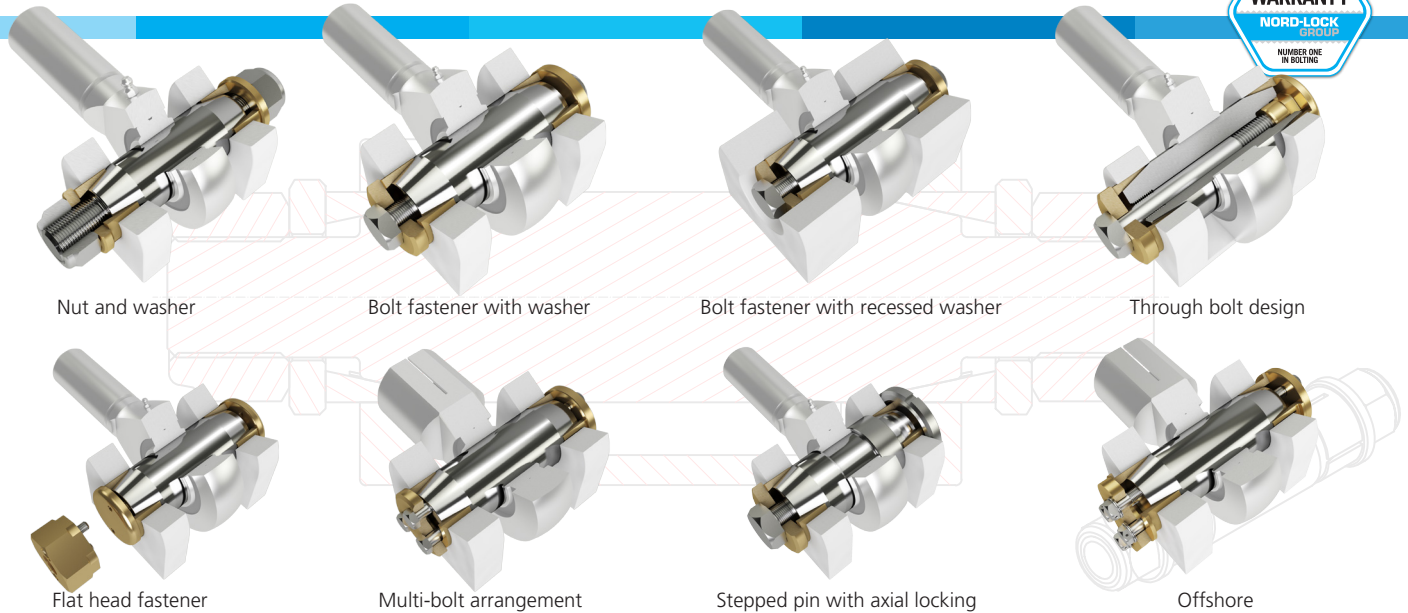
BENEFITS

Satisfied customer and a pivot solution for all their equipment

The savings and reduced repair time are clear to this customer as they also use the Expander system for standard maintenance on their surface drills and trucks. The Expander D10T & R pins are utilized by many locations throughout North America. A good service relationship is in place and the mines receive regular visits from the local Komatsu dealer representatives. Stock orders for the D10T and other applications are placed on a regular basis to assure parts are on site.

THE WIDEST PRODUCT RANGE IN THE INDUSTRY

We also provide custom solutions for nonstandard range of applications



Expander System provides an advanced, cost-effective solution that prevents pivot pin wear once and for all. With our Expander System Online engineering, customized designs can be done quickly for new applications. Thanks to our two manufacturing sites, Åtvidaberg Sweden, and DeWitt Iowa USA, we can deliver worldwide. With high quality service our production facilities are prepared to meet your, needs whether for a single piece or a large volume blanket order. We are part of the Nord-Lock Group, which means we have sales offices and representatives around the world.

The Nord-Lock Group focuses on solving the toughest challenges for bolted joints. We offer a unique combination of expertise in bolted joints and a broad range of products – all constructed and developed in-house.

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