

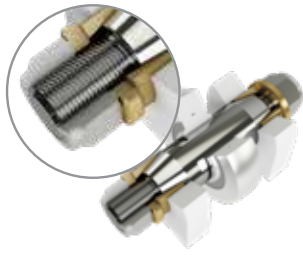
PIVOT PINS FOR ANY CHALLENGE

The permanent solution for lug wear for all machine types



THE WIDEST RANGE ON THE MARKET.

Our product categories ensures you get the best solution for your application.



NUT AND WASHER

Applications with no obstacles around pivot joint



BOLT FASTENER WITH WASHER

Applications with no obstacles around pivot joint
Diameters > 38 mm



BOLT FASTENER WITH RECESSED WASHER

Applications with moving obstacles
Large lug width



THROUGH BOLT DESIGN

Applications with space constraints on one side

Axle variant	External thread	Internal thread	Internal thread	Through bolt
Fastener Side 1/ Side 2	Hex nut / Hex nut	Hex head bolt / Hex head bolt	Hex head bolt / Hex head bolt	Hex head through bolt / Flush mount fastener
Obstacles outside lugs Side 1/ Side 2	No obstacle / No obstacle	No obstacle / No obstacle	Moving obstacle / No obstacle	No obstacle / Fixed obstacle
Greasing of pivot	External or Internal greasing	External or Internal greasing	External or Internal greasing	External or Internal greasing
Standard pin Ø-range	Ø15 mm - 100 mm	Ø38 mm - 160 mm	Ø38 mm - 160 mm	Ø25 mm - 160 mm
Pin length	< 2000 mm	< 2000 mm	< 2000 mm	< 500 mm
Special	Upon request	Upon request	Upon request	Upon request

NO MORE DOWNTIME WITH EXPANDER SYSTEM.

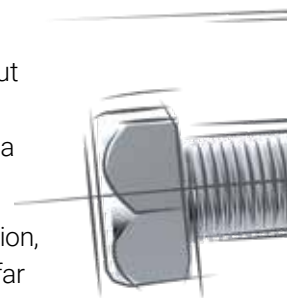
Whatever challenge you have, we have the solution for you. Our eight product categories together with the option to order specials will give you the pin that perfectly matches your machine. The optimal design means you get a permanent solution to lug wear.

It is easy and fast to order your product in our webshop. Select your pin from our ready-to-order menu and order straight away. Or fill in your pivot data on the dimension sheet and let our engineering team return with a suggestion of an Expander System solution to solve your lug wear problem.

Expander has more than 30 years experience working with solutions for worn pivots. Long-term tests have shown that Expander System

can withstand 50,000 hours of use without developing any play. That is why we are the only company in our industry to offer a lifetime guarantee.

The Expander System is ideal for construction, mining and forestry machinery and is by far the simplest and most economical way to resolve the problems with worn pivot lugs. Expander System is an easy, fast and permanent solution to lug wear.



THE NORD-LOCK GROUP OFFERS A BROAD RANGE OF PRODUCTS. The Nord-Lock wedge-locking washer secure bolts exposed to severe vibration from rotating loose. Find out more at www.nord-lock.com



09-06

WE HAVE IT ALL. AND MORE.

We customize solutions for any application.



FLAT HEAD FASTENER

Applications with moving obstacles
Narrow lug width



MULTI-BOLT ARRANGEMENT

For heavy duty applications and large diameters



STEPPED PIN

Hitch pin applications
Axial locking



OFFSHORE PIN

For offshore applications;
DNV 2.22/ OS E-101
and API 8C/ISO 13535 norms

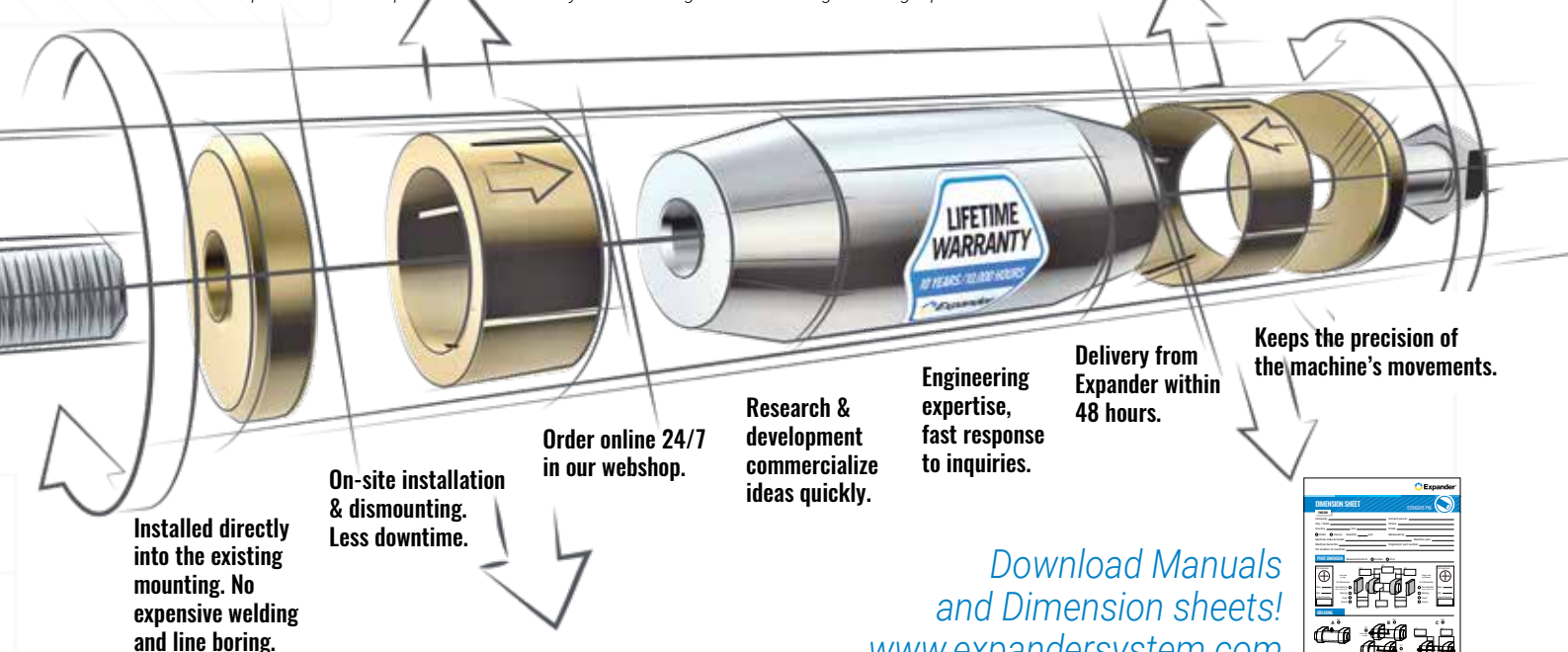
Axle variant	Internal thread	Multi bolt internal thread	Internal thread	Internal thread
Fastener Side 1/ Side 2	Flush mount fastener + mounting tool / Flush mount fastener + mounting tool	Multi hex head bolt / Multi hex head bolt	Hex head bolt / Hex head bolt + spanner nut	Hex head bolt / Hex head bolt
Obstacles outside lugs Side 1/ Side 2	Moving obstacle / Moving obstacle	No obstacle / No obstacle	No obstacle / No obstacle	No obstacle / No obstacle
Greasing of pivot	External or Internal greasing	External or Internal greasing	External or Internal greasing	External or Internal greasing
Standard pin Ø-range	Ø40 mm - (160) mm	Ø70 mm - 400 mm	Ø38 mm - 160 mm	Ø20 mm - (400) mm
Pin length	< 2000 mm	< 2000 mm	< 1000 mm	< 2000 mm
Special	Upon request	Upon request	Upon request	Upon request

Upon tightening the fasteners, the washer presses the slotted expansion sleeve up the tapered ends of the pin.

The sleeves expand, conform with the wear pattern and lock the system in the lug ears.

The tapered axle makes it easy to remove and reinstall compared to regular straight pins.

Once retorqued the system will lock from both sides and significantly increase stability.



Installed directly into the existing mounting. No expensive welding and line boring.

On-site installation & dismantling. Less downtime.

Order online 24/7 in our webshop.

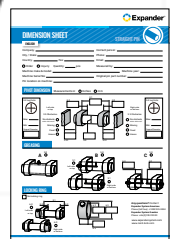
Research & development commercialize ideas quickly.

Engineering expertise, fast response to inquiries.

Delivery from Expander within 48 hours.

Keeps the precision of the machine's movements.

Download Manuals and Dimension sheets!
www.expandersystem.com



THE WIDEST PRODUCT RANGE IN THE INDUSTRY

A permanent solution to lug wear that saves time and money



Nut and washer



Bolt fastener with washer



Bolt fastener with recessed washer



Through bolt design



Flat head fastener
with mounting tool



Multi-bolt
arrangement



Stepped pin



Offshore pin

Expander provides an advanced, cost-effective solution that prevents lug wear once and for all. With our Expander System Online, our engineers can customize designs quickly for new applications. Thanks to our two manufacturing sites, Åtvidaberg Sweden and DeWitt Iowa USA, we have high availability worldwide. Our production facilities are prepared to meet your needs whether it is a single piece order or a large volume blanket order. As part of the Nord-Lock Group we can offer local service and support through our representatives around the world.

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



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