# BOLLHOFF



Your partner for 360° joining technology



Good cooperation is the basis for success. Our customers' and ours.

High efficiency for reliable joinings of sheet metal.



# **Snapping instead of screwing**

# **DUNGHEINRICH**

#### Jungheinrich - the specialist for logistics systems

Jungheinrich, founded in 1953, is one of the world's leading solution providers for intralogistics. With a comprehensive portfolio of material handling equipment, logistics systems and services, the company offers its customers suitable solutions for the challenges of Industry 4.0.

The product range covers the entire spectrum from manual to fully automated trucks: from the hand pallet truck and the battery-powered reach truck, both of these are based on the inventive spirit of company founder Dr. Friedrich Jungheinrich, to the EKX high-bay stacker, all the way to driverless transport systems such as the automated EZS 350a tractor, both of which are considered benchmarks in their respective classes.

Jungheinrich relies on Böllhoff fastening technology in the development and production of its trucks.



#### **Initial situation**

Like any transport vehicle, industrial trucks must be serviced within regular intervals. In Jungheinrich truck models, the fuse and battery, two maintenance-relevant components, are concealed behind a flap at the rear to protect against environmental influences. For every new maintenance, a mechanic must first remove the tailgate to gain access to the relevant components. Up to now, the tailgate has been locked by two compression fasteners, each of them was fixed with additional connecting elements - a toothed lock washer and a flat nut. Reinsertion of the tailgate therefore took some time: all the individual elements had to be plugged together and fastened. Screw on the flat nut, covering a long screwing distance, check the tightening torque, repeat for the second closure - a time-consuming solution.



#### The solution: Easier and faster installation thanks to DST

Jungheinrich relied on Böllhoff's expertise to find an optimum connection solution for this application. The result of the application technology advice: Today, Jungheinrich uses compression fasteners with snap technology for fastening the tailgate on its industrial trucks. These closures lock as reliably as conventional compression closures, but can be fitted by simply pressing them into a recess - quickly, easily and without additional tools.

DST is based on the functional principle of a latch lock, as found in house or room doors. Each DST lock has bevelled clamping jaws on both sides, behind which a spring is located. If the lock is inserted into a recess, the clamping jaws are first pressed in, thus tensioning the spring. When the closure is fully inserted, the spring pushes the jaws out again, producing the characteristic "snap" sound. The compression lock is now jammed in the installation opening and holds the components to be joined together. The result: a high-strength connection, resistant to shaking and vibration.

Have we aroused your interest? Talk to us.

## **Customer benefits**

#### ■ Process optimization

The process of installing a tailgate is reduced to simply pushing the DST closures in

## **■** Error prevention

Risk of incorrect installation is reduced

#### ■ Cost reduction

Shorter installation process and fewer fasteners

## Böllhoff Group

Innovative partner for joining technology with assembly and logistics solutions.

Find your local partner at www.boellhoff.com or contact us at message@boellhoff.com.

# Passion for successful joining.

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