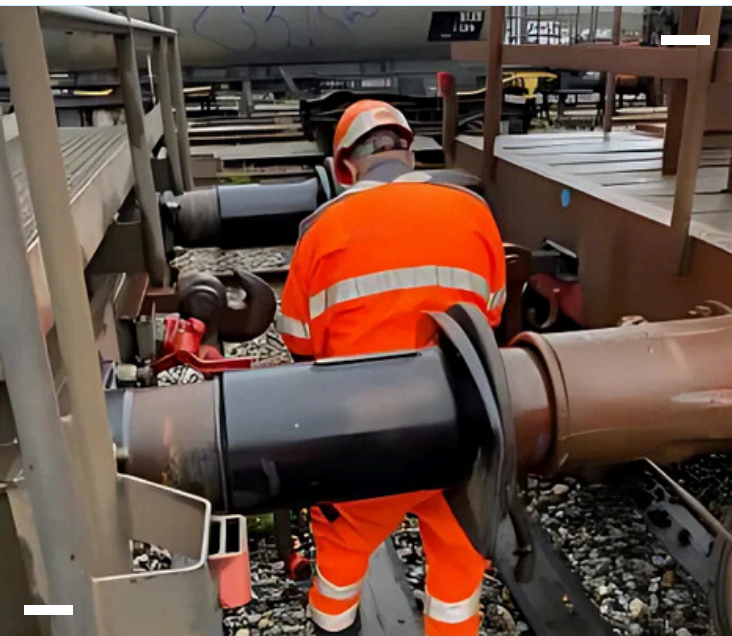


MAINTENANCE OPERATOR

FOR RAIL FREIGHT TRANSPORT



PROTECTING THE BACK, KEEPING RAIL FREIGHT MOVING.

The work of freight maintenance operators involves physically demanding tasks that require repetitive bending and the lifting of heavy loads. These challenges can take a toll on the back, often leading to fatigue and long-term strain.

To ensure the reliability of rolling stock, it is essential to safeguard operators' health so they can focus on the technical precision their work requires.

Exoskeletons offer a practical solution where traditional ergonomic adaptations fall short. An ideal exoskeleton should provide back support in all postures without restricting the operator's mobility during delicate technical manoeuvres. It must also be compact to allow easy navigation in tight spaces between trains and be compatible with the mandatory work clothing and personal protective equipment.



MEETING THE RAIL TRANSPORT CHALLENGES:

DYNAMIC SUPPORT:

The support provided by 4 micromotors adapts seamlessly to every movement, ensuring reliable assistance even on uneven surfaces.

EASY TO USE:

Japet.W+ can be fitted in just 30 seconds, allowing operators to quickly get ready for critical maintenance tasks at any time of the day.

COMPACT DESIGN:

Lightweight (2 kg) and compact enough to fit comfortably under a reflective jacket and allow unrestricted movement.

HYGIENE:

The removable, soft inner part of the Japet.W+ is machine washable, ideal for physically demanding jobs.

JAPET.W+ TAKES THE STRAIN OFF WORKERS' BACKS

The motorized lumbar exoskeleton relieves the back and limits the impact on the spine by acting as a shock absorber for intervertebral discs.

It protects maintenance operators' backs during:

- Coupling and uncoupling train wagons
- Fitting and removing rail shoes on the track
- Checking brakes