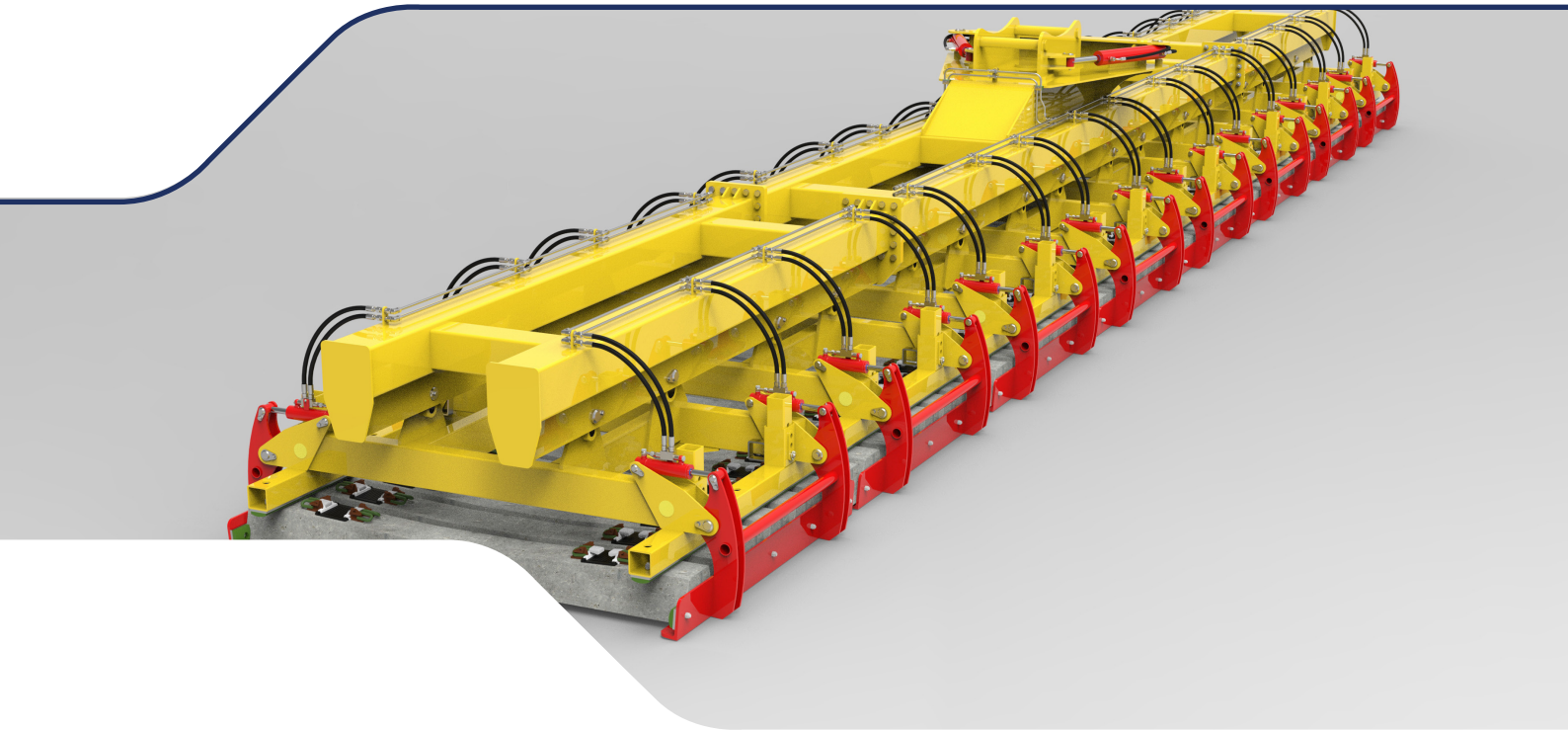
Sleeper Bulk Handling Attachments

Specialised solutions and equipment for bulk handling of sleepers



Specialised machines, attachments and tools for railway maintenance, designed and manufactured to ensure quality, reliability and safety.

UNIPART RAIL

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Durable, Reliable and Safe

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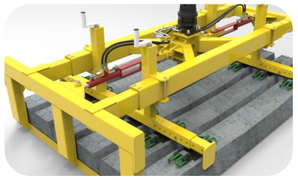
Whatever your requirement for bulk handling of sleepers/ties, we have a solution.

We can provide solutions for all types of crane, excavator, shovel, tele-handler and materials handler; covering all types of sleepers/ties and power sources.

All hydraulic models are fitted with pressure reducing valves to allow them to be fitted to almost any host machine and check valves on the cylinders to lock the grab in the event of a hydraulic failure. All models can be fitted with 'parachute' valve systems, which lock the jaws when the device is lifted, preventing accidental release of the sleepers during the operation.

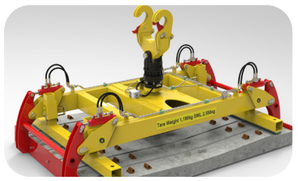
All models designed for handling concrete sleepers incorporate hard wearing urethane pads wherever contact is made with the sleeper surface, preventing damage to the concrete surface whilst improving grip.

Single Layer Sleeper Handlers



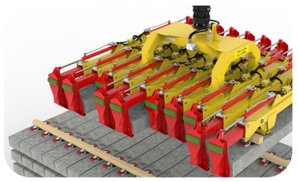
Light weight sleeper grabs: Primarily intended for use with self loading truck cranes for the delivery of small numbers of sleepers (2 to 6 per lift).

All models are fully adjustable to suit all types of sleeper.



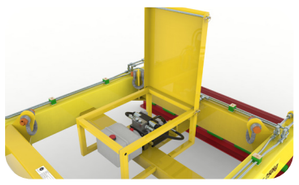
Single Layer Hinged Jaw Sleeper Handlers: Robust devices primarily intended as attachments for excavators and materials handlers.

Designed for full-time use in arduous operations such as sleeper manufacturing works or for use on site loading and unloading sleeper delivery trains, the range includes models for 4 to 12 sleepers per lift.



Sliding Jaw Sleeper Handlers: Where sleepers of different lengths or random cut sleepers must be handled, these sleeper handlers provide a safe and robust solution. The range includes models for handling 2 to 12 sleepers per lift and can be adapted to suit almost all types of hydraulic machine including truck mounted cranes.

Mechanically Actuated Handlers: Where no hydraulic power is available, the mechanically actuated range of sleeper handlers use a 'ballpoint pen' mechanism to latch and release the jaws each time the device is put down; automatically grabbing the sleepers to lift them and releasing them when they are put down again.



Power Options: As an alternative to the mechanical system a hydraulic power pack can be built into the frame of the sleeper handler.

Powered either by batteries or a small combustion engine and controlled by either a radio remote controller or a plug-in pendant controller this system makes the handler completely self contained.

Multiple handlers can be linked together to provide a larger handling capacity. Linking them beneath a separate frame allows the device to cope with undulating layers of sleepers stacked on uneven ground.

Dual Layer Sleeper Handlers

- Hinged jaws and thick urethane pads provide an ideal solution for handling two layers of sleepers per lift.
- Sliding jaws, mechanically synchronised allow different sleeper types to be handled. Models are available to handle any number of sleepers per layer, limited only by the capacity of the host machine.
- Whether hinged or sliding jaws are chosen, all models are adjustable for different sleeper heights and also have capacity to carry a top layer of timber dunnage.
- The location of the pads which rest on top of the upper layer can be tailored to suit individual requirements.
- All models can be specified with built in power packs and sliding jaw models can be specified with mechanical actuation.

Multi-Layer Sleeper Handlers

- Muti-Layer Sleeper Handlers are commonly equipped with sliding jaws, however hinged jaw models can also be supplied.
- Handlers can be supplied for any number of sleepers per layer and any number of layers per lift. The only limit is the capacity of the host machine.
- Mechanical actuation and built in power packs with remote control are available where gantry cranes or mobile cranes are to be used.
- The sliding jaw design incorporates large, hardened steel rollers and a mechanical synchronising system to balance the load.
- Hydraulic models have four independent hydraulic cylinders with check valves fitted to prevent loss of grip in the event of a hydraulic failure.

All bulk sleeper handling grabs and beams are custom made to suit individual customer and project specifications - contact us at **railplant@unipartrail.com** to discuss your specific requirements.

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The Unipart Group is a leading UK manufacturer, full service logistics provider and consultant in operational excellence. Operating across a range of market sectors, including automotive, manufacturing, mobile telecoms, rail, retail and technology, Unipart offers a breadth of services to a wide range of blue chip clients internationally.

About Thomson Engineering Design

Thomson Engineering Design has been manufacturing specialised equipment for rail renewals and repairs since 1999 and in that time have become the premier supplier of attachments for Road Rail Vehicles. Offering a range of over 100 products for all rail maintenance sectors and activities, Thomson are a key supplier for all rail plant companies in the UK.

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