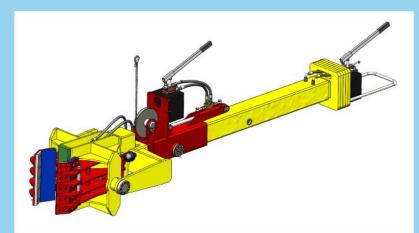
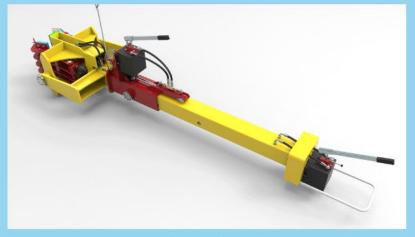


KeyShot in the Back Room

David Thomson





Make it Work

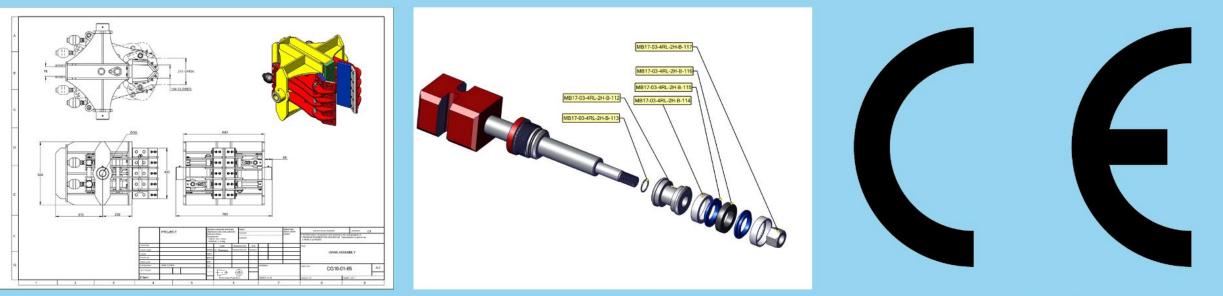
3d modelling allows us to see how all the parts fit together, how mechanisms will work and what parts will clash. Click the image to learn more about this powerful technique and how it aids the whole design, engineering and documentation process.

Make it Rea

Turning your models into photo-realistic images and animations to provide assets for marketing, documentation and training. Click the image to find out more.

Make it Safe

Virtual prototyping systems - including Finite Element Analysis, Tolerance Stack Analysis, Physical Dynamic Analysis and others - allow us to check that designs are strong, robust and safe. Click the image to find out more.



Make it Right

Fully detailed and toleranced engineering drawings produced directly from the models ensure that every detail of the design is clearly presented for manufacture.

Make it Clear

Frangus technical authors can produce all kinds of technical publications including assembly and test procedures, marketing and technical brochures.

Make it Legal

Frangus can assist with the CE marking of mechanical products. please click the image to find out more.















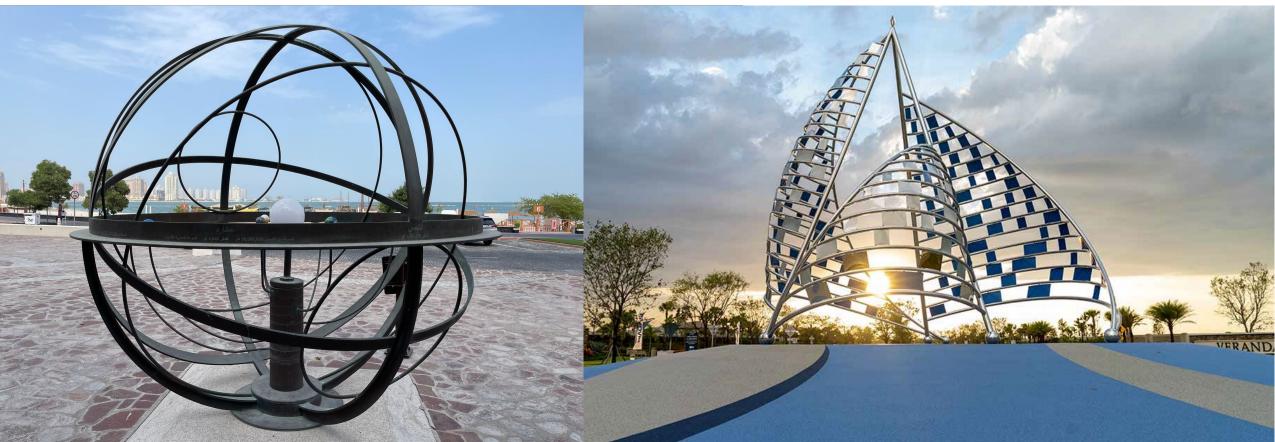


















Product Documentation

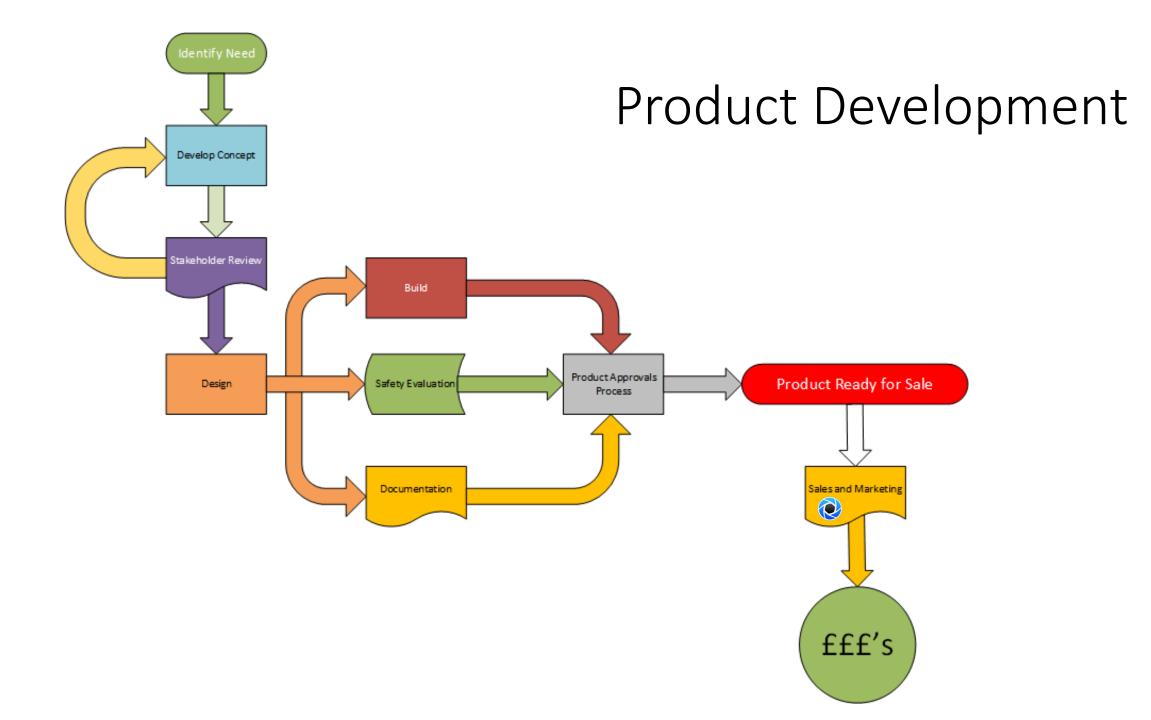
- Operating Instruction
- Maintenance Instruction
- Training Plan

Sales Documentation

- Brochure
- Catalogue
- Specification Document







5.2 EDC15 E-CLIP DE-CLIPPER



Our E-Clip De-Clipper is the ideal solution for the rapid removal of Pandrol E and PR clips.

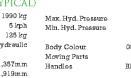
Spring loaded hooks snatch out the clips as the machine is propelled along the track.

The machine incorporates fail-safe brakes, automatic marker lights and a hydraulic hook raising mechanism for rail travel.

Adapter heads are available to suit all types of road rail machine.

SPECIFICATIONS(TYPICAL)

Weight	1990 kg
Operating Speed	5 kph
Brake Test Load	125 kg
Mechanism	Hydraulic
O/A Height	1,357mm
O/A Width	1,919mm
O/A Length	2,119mm





Black / White







DOCUMENTATION

Operator's Manual

Maintenance Plan

Parts Manual

EA Certificate

Specifications given may be subject to change due to our policy of continuous improvement

OPTIONS AND ORDERING INFORMATION

The EDC15 E-Clip De-Clipper is available with either fixed or tipping adapter heads.

The tipping adapter head should be specified where the host machine is fitted with a Miller Bug or Geith Quick Coupler as these types have to be fully crowded under the machine boom in order to release the attachment.

EDC15 E-Clip De-Clippers are fitted with hydraulic pressure control as standard.

Product Acceptance has been applied for under Application Number PA05/06677

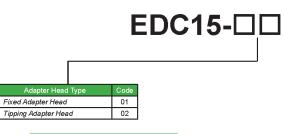


Example: EDC15-02 E-Clip De-Clipper with tilting adapter head

The tipping head allows easier detaching of the De-Clipper with some quick couplers

MODEL NUMBERS FOR ORDERING

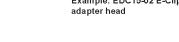
When ordering this product please use the ordering code below to specify the correct options.





Please see Section 10 for details of the





PG14-800 PLATE GRAB





KEY FACTS

The largest plate grab in our range, the PG14-800 has an 800mm (31.5") jaw depth allowing it to handle the tallest bundles of steel sleepers.

Grip load is controlled by a factory-set pressure reducing valve which eliminates the risk of crushing the sleepers and polyurethane pads can be fitted for safely handling concrete sleepers.

As standard a 6,000kg (13,000lb) capacity rotator is fitted but this can be uprated to a 10,000kg (22,000lb) capacity unit for very heavy-duty applications.

ALTERNATIVE PRODUCTS

The PG14-400 and PG14-600 models offer the same functionality and the same options in a more compact form.

The SM12 Sleeper Manipulator has a more powerful worm-drive rotator and a rigid coupling to the host vehicle for use in sleeper changing operations.

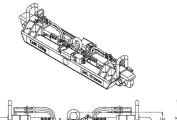








LPB20-02 Low Headroom Panel Beam





	All Thomson attachments are designed to help you get more out of your investment.
	Strength, ruggedness, reliability and - when things get really tough - ease of repair and maintenance are how we build our reputation and yours.
Work Smarter not Harder	With Thomson attachments your machines can do more and earn more, in safety.
	Thomson Engineering Design has been designing and building top quality equipment since aggg and is the UK's premier supplier of attachments for Road Rail machines of all types.
©2022 Thomson Engineering Design Ltd, Linits 2a + 3, Crabtree Road, Cinderlord, Oleocesternhine GL:2,27N Tell + 4,4(a)=536-4556-55, Tell + 4,4(a)=540-859-556 Emella Asset (Bhomsonderigne).com	Find more details on our website: www.thomsonrail.com or contact our sales office on +44 3594 826 633 or by email to seles@thomsondesignuk.com.

TARE 225kg

With its hitch point only a few millimetres above rail head height the Low Headroom Panel Beam maximises the number of panels which can be loaded when working under OLE.

The design incorporates a full suite of safety features including pressure control valves, parachute valve protection and cylinder mounted check valves.

SWL 10 tonne

White painted grab handles and a flat base make it easy to load and transport LPB20-02 beams.

that's at least one more panel on every

load.

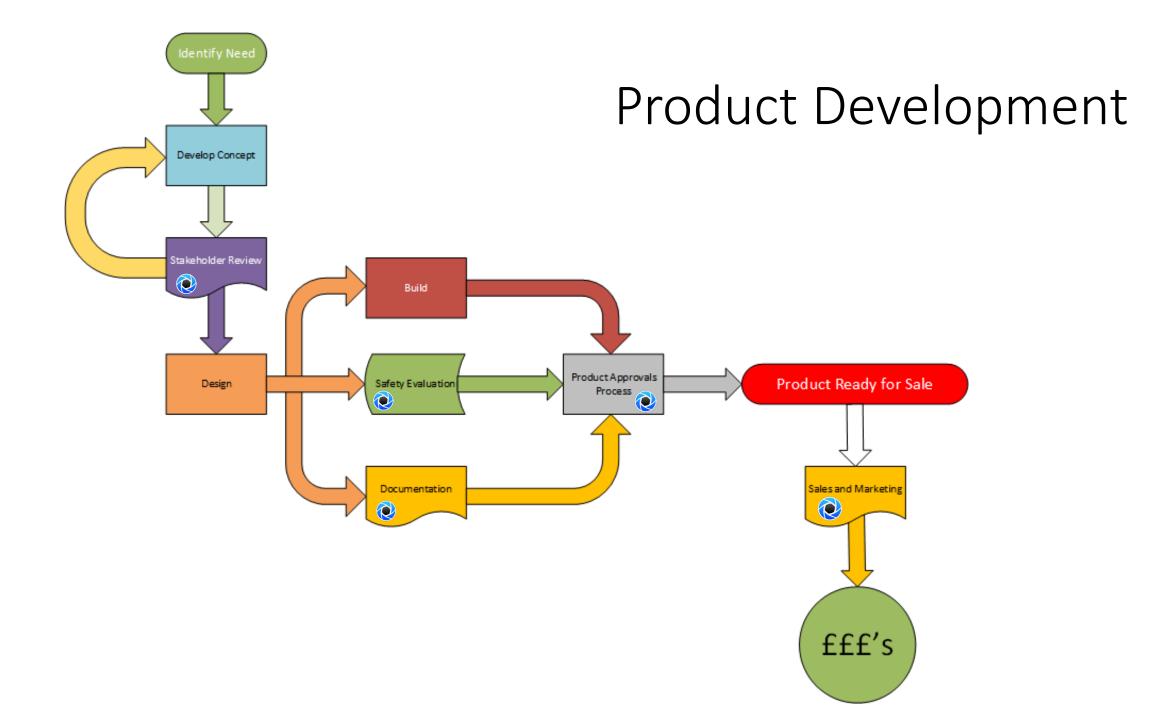
LPB20-02 beams. Acceptance under certificate number The low headroom design places the attachment point at least 400mm lower than any other hydraulic panel beam -

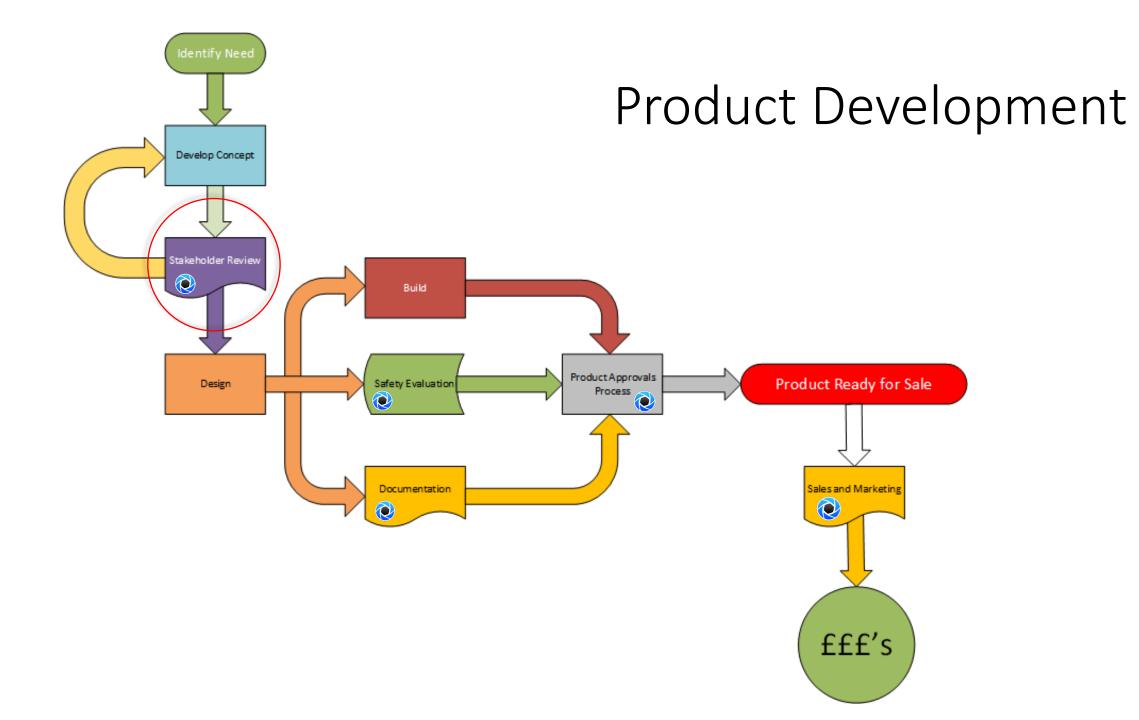
The Thomson Low Headroom Panel

Beam has full Network Rail Product

With the increasing electrification
of our rail network, more and more
renewals work must be carried
out under overhead electrification
equipment.Robust, Reliable and EfficientWhere redundant track panels must
be lifted onto engineering trains the

Where redundant track panels must be lifted onto engineering trains the Low Headroom Panel Beam is the ideal solution.

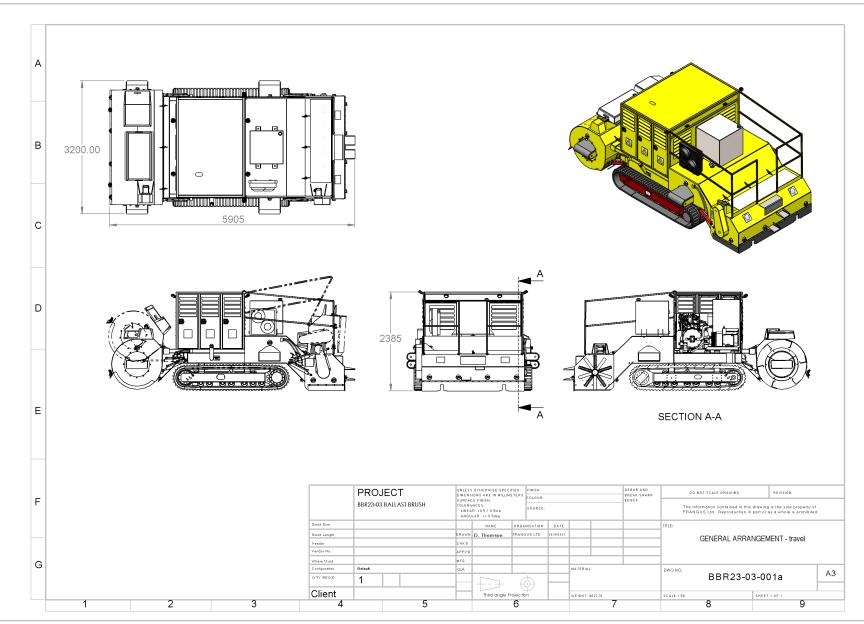


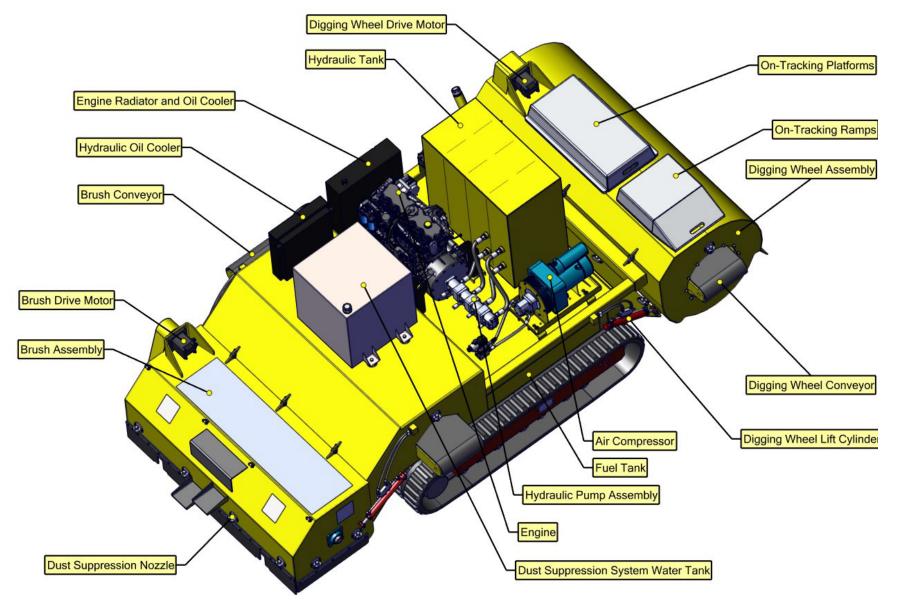


Civil and Mechanical Engineers Health and Safety Professionals Machine Operators Road Hauliers Management Representatives Marketing Personnel Financiers

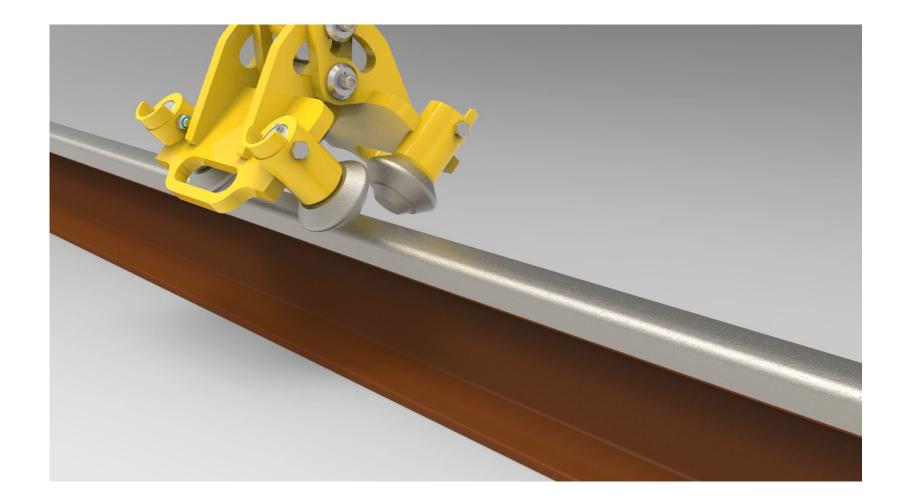
Day in the Life of (DITLO) evaluation

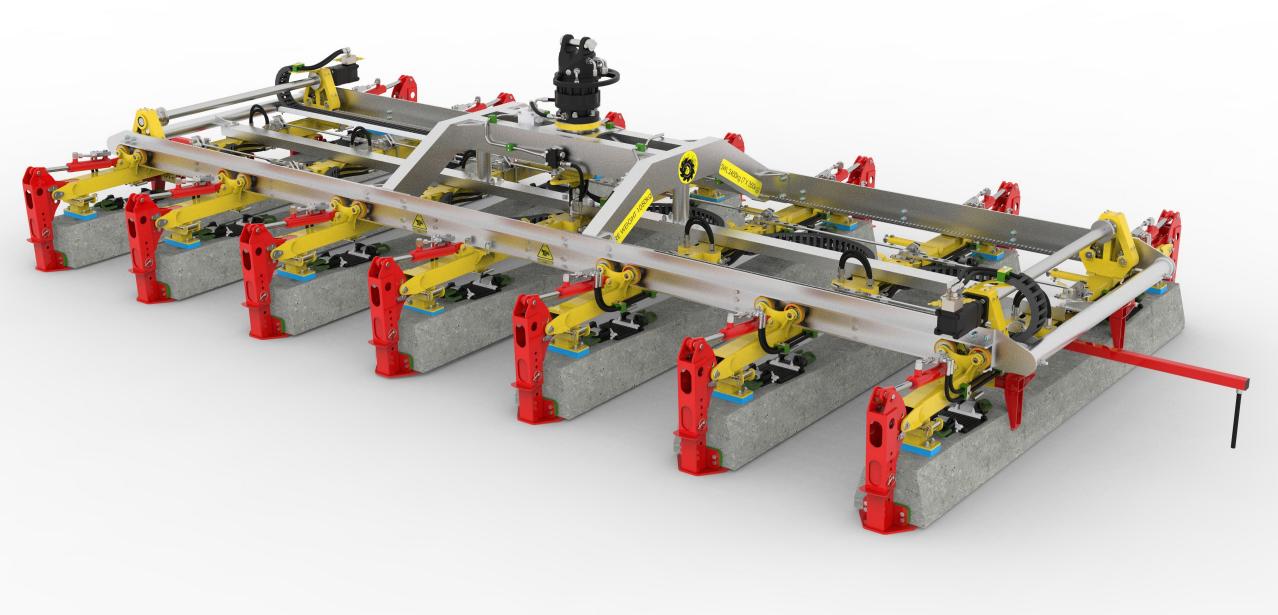


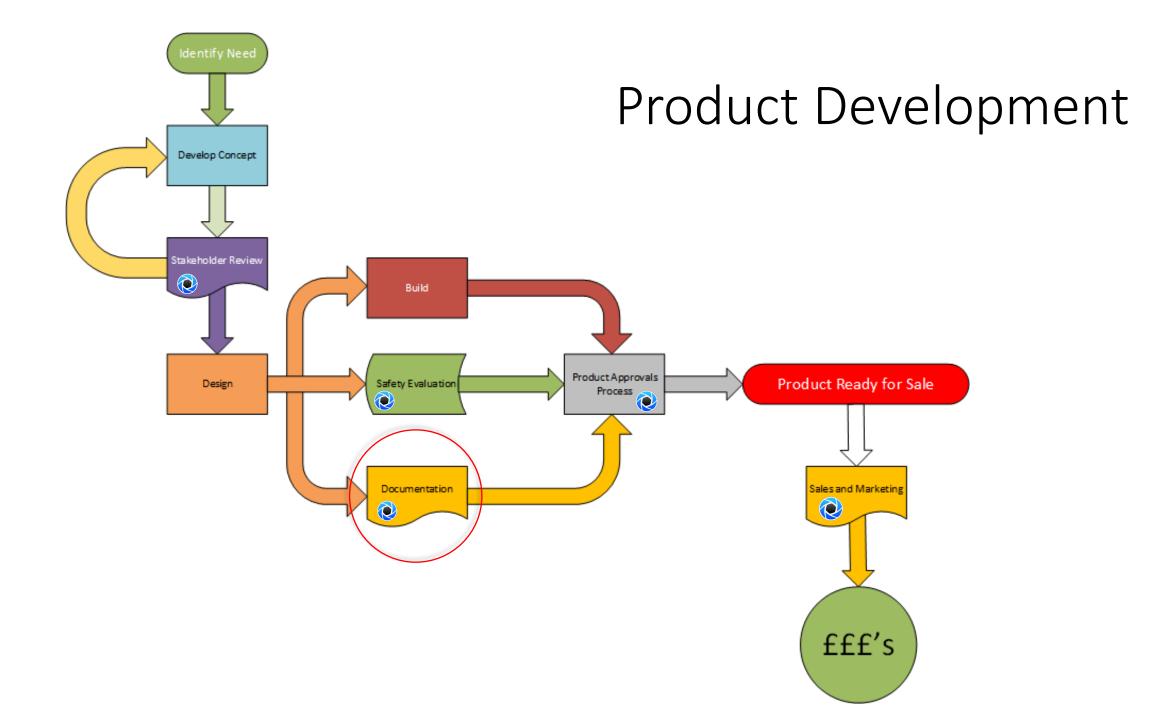




A







Key Features

Documentation



Jaws are lined with polyurethane pads to prevent damage to the sleepers and to ensure a high friction grip.



A purpose designed transport / storage stillage is supplied as standard. The device should be placed on the stillage whenever it is not attached to the host machine to protect the grab jaws from damage.

The LUL-SSSB-21-02 Sleeper Spreader does not require the host machine hydraulics to be adjusted to suit. Instead, pressure reducing valves on the adapter head factory set to 100 Bar, control the pressure fed to the grab and spreader systems.

This means that the device can safely be swapped onto another host machine at any time.



Steel bars on the bottom edge of the jaws catch the sleeper if the grip of the urethane pads should ever fail.



Two conveniently placed, grab handles are provided allowing the machine controller to help guide the sleepers into position.



Every jaw cylinder is fitted with a pilot operated check valve which locks the cylinder in the event of a hydraulic failure such as a burst hose.

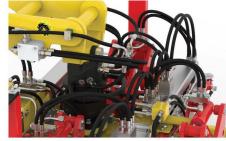


When carrying sleepers a 'parachute valve' automatically disconnects the grab jaw control so that sleepers cannot be accidentally released before they are placed safely on the ballast bed.



A powerful hydraulic rotator allows the operator to align the device with the sleepers when collecting them from the delivery vehicle and then to align them with the track.

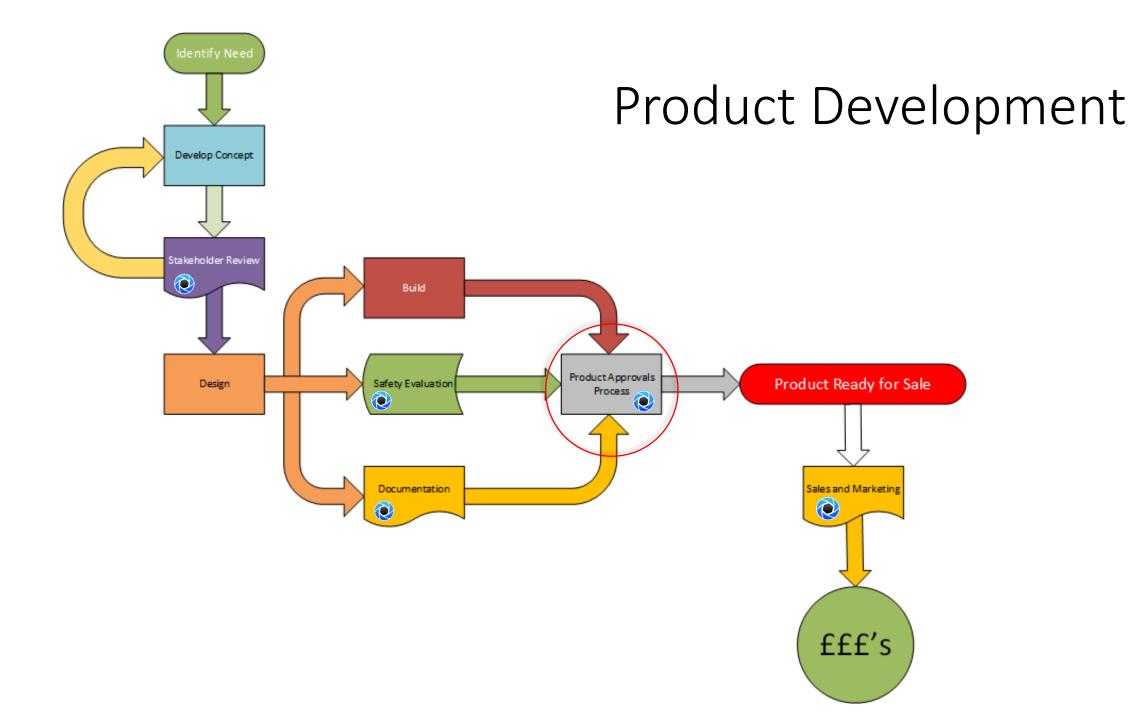
A bypass system built into the hydraulic system prevents sudden acceleration and sudden stopping of the rotator but also allows the device to be manually rotated by the machine controller for the most accurate sleeper placement.



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Certificate of Acceptance

Manufacturer: Thomson Engineering and Design Ltd Issue: 1 Valid From: 28/03/18

NetworkRail

Thomson UK7SB16-02 7 Sleeper Spreader Beam

Product Description

Product Image

PA05/06744

The Thomson UK7SB16-02 seven sleeper spreader beam is hydraulically operated attachment which can handle all United Kingdom sleeper variants.

The intended purpose of the equipment is to lift railway sleepers (track ties) from lorries or wagons, separate them to the correct spacing and lay them onto a pre-formed track bed. The device is an attachment suspended from the boom of an excavator and incorporates hydraulic systems powered by the host machine auxiliary hydraulic circuits (figure 1).

A purpose built transport stillage is available from the manufacturer for safely stowing and transporting the sleeper spreader beam. This stillage is fitted with hydraulic hose attachment points to help prevent the hose connections becoming contaminated. The stillage also features fork pockets and lifting eyes for handling and loading the device. The lifting eyes may also be used for securing the device in transit (figure 2).



Figure 2

Scope of Acceptance: Full Acceptance

The use of the Thomson UK 7SB16-02 7 sleeper spreader beam must be in accordance with the conditions and limitations specified on this certificate and any associated reference documentation.

Network Rail Acceptance Panel (NRAP) hereby authorises the product above for use and trial use on railway infrastructure for which Network Rail is the Infrastructure Manager under the ROGS regulations. Reviewed by: Authorised by:

Tom Riley Product Acceptance Co-ordinator



Malcolm Miles Professional Head of Plant

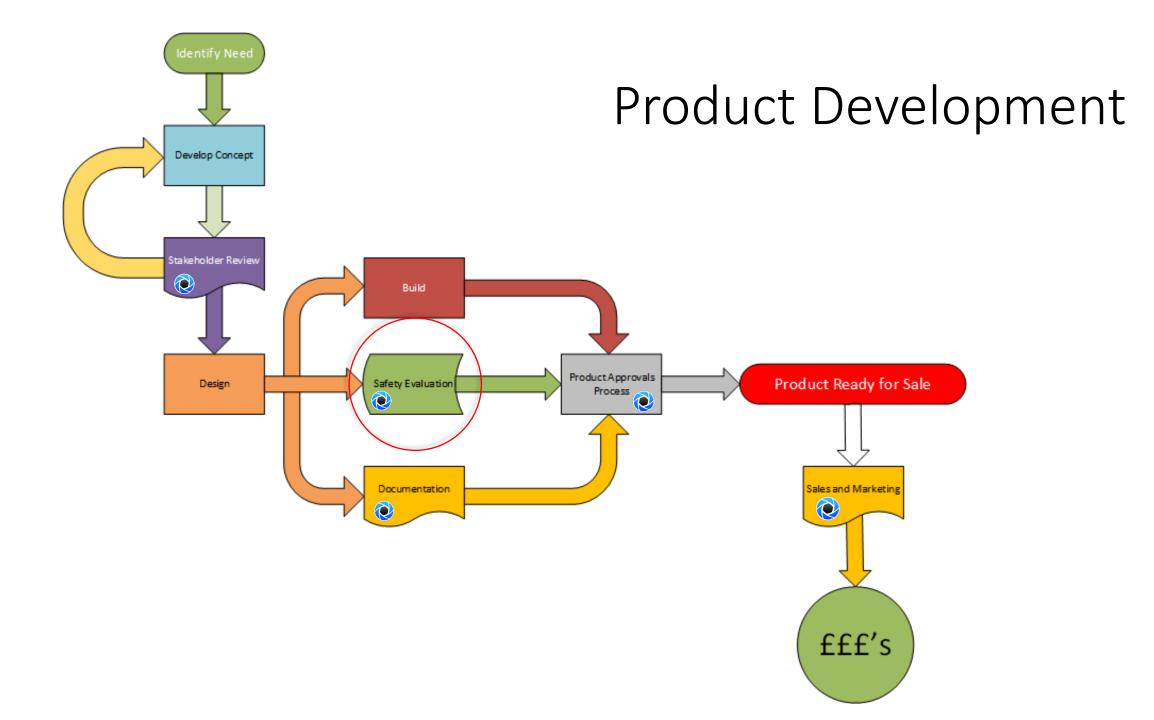


Approvals



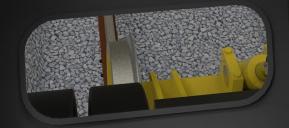
Please contact technologyintroduction@networkrail.co.uk

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Safety Evaluation

Safety Evaluation



Safety Evaluation

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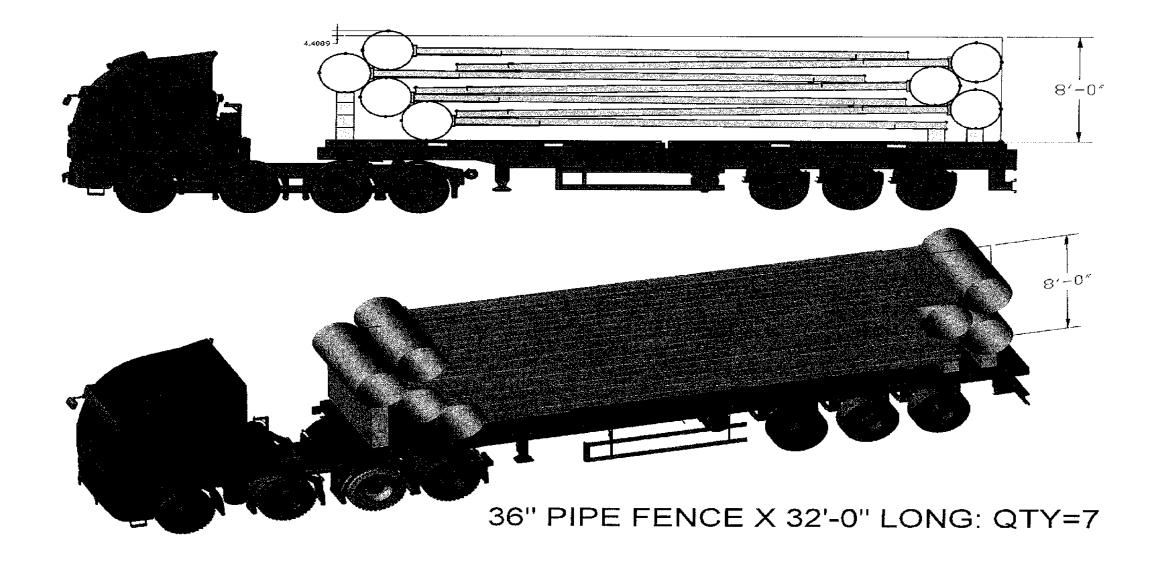




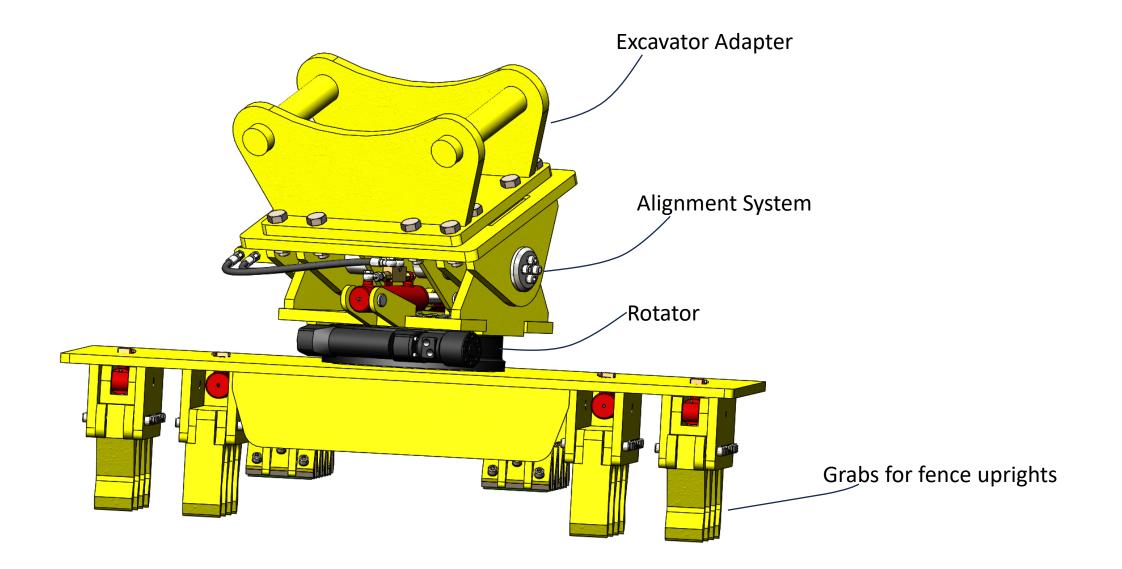


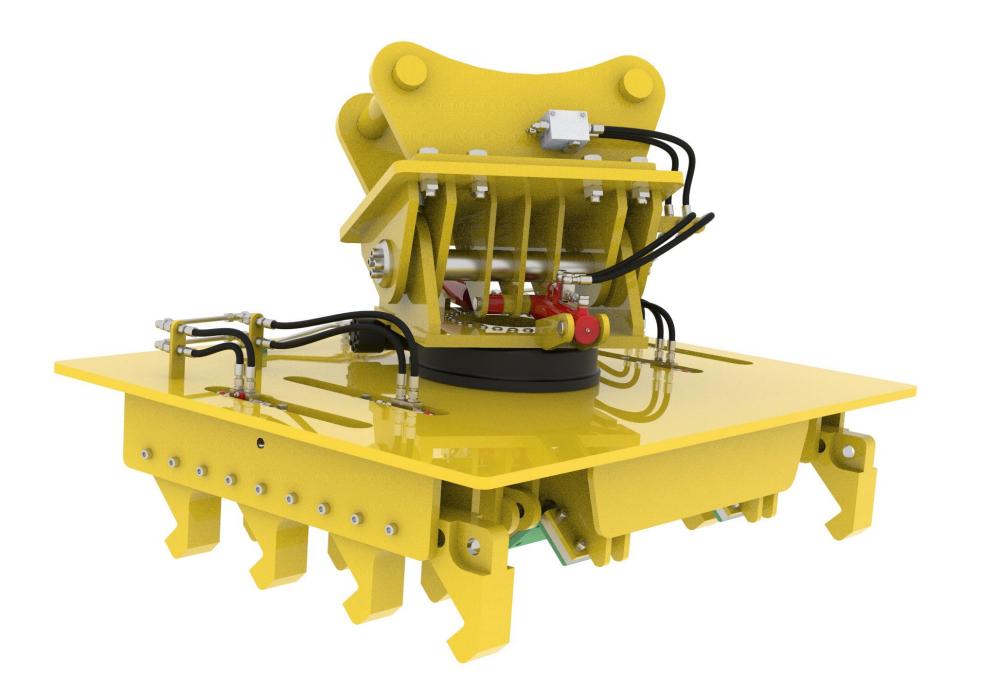


Typical Design Brief – US client November 2018





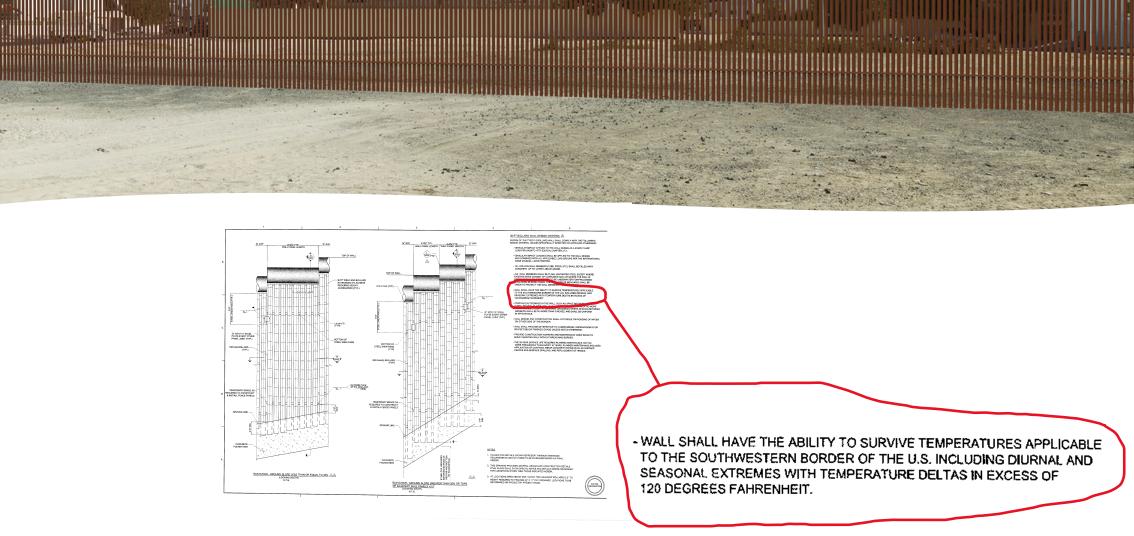








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Any questions?



Thank you!