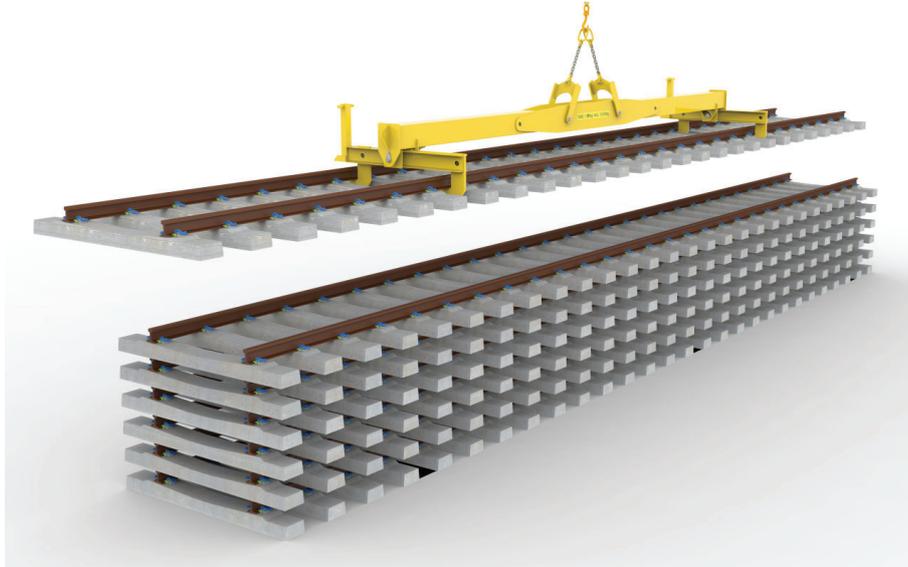


CPB20-01 CRANE PANEL BEAM Specifications



Technical Specifications for a Track Panel Lifting
Beam designed for use with mobile cranes of all types

Issue 1

June 2020

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Issue Record

First Issue

June 2020



Introduction

The CPB20-01 Crane Panel Beam from Thomson Engineering Design provides a solution for handling track panels using crawler cranes, mobile cranes and general purpose rail cranes of all types.

It provides a low-headroom lifting solution and requires no hydraulic or other power source.

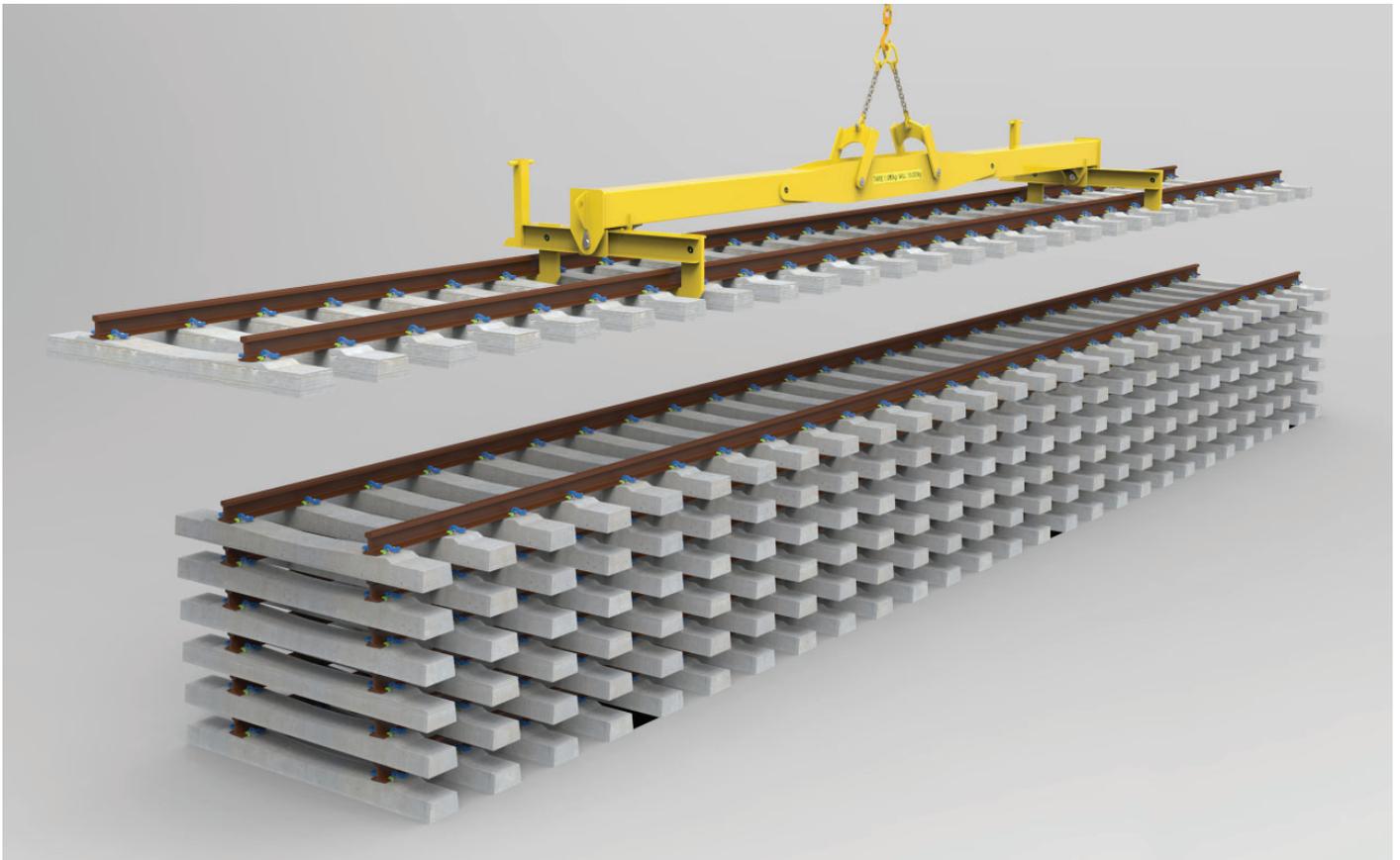
The hooks which lift the foot of the rails allow this beam to be used to load and unload track panels from wagons without the need for working at height.

This beam is available in 6m and 9m versions with working load limits from 10,000kg to 20,000kg. This document details the 9m, 10,000kg version which is ideal for most track panels. Please enquire for details of other specifications.

The 9m length minimises the flexure of the panels but where crane capacity is an issue the 6m model can be provided.

CPB20-01 Beams incorporate twin chain attachment points making them suitable for use with both single hook and rams-horn hooked cranes. Tag line attachment points are provided at each end and to fit the hooks under the rails at track level handles are also fitted.

To cope with panels with different sleeper spacings an adjustable length version is also available. On this version the cross beams at the ends of the main beam can be drawn back along the main beam by up to 250mm (varying the effective length of the beam by up to 500mm) to ensure that the location of the hooks always falls between sleepers.



Key Features

Twin central attachment points make this beam suitable for use with single hooks and rams-horn hooks on cranes of all types.

The design of the beam has been computer analysed and optimised to give the most efficient balance between strength, rigidity and tare weight.

All connection points are fitted with long-life teflon-coated bushings running on 60mm diameter shafts to keep stresses within these key components low and significantly extend their working life.

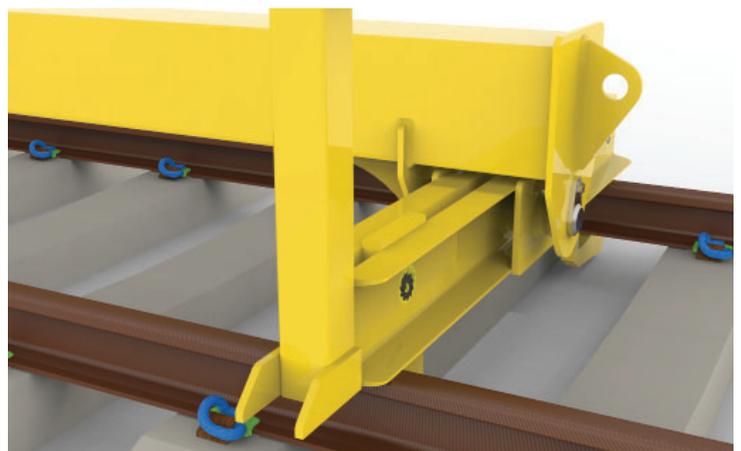
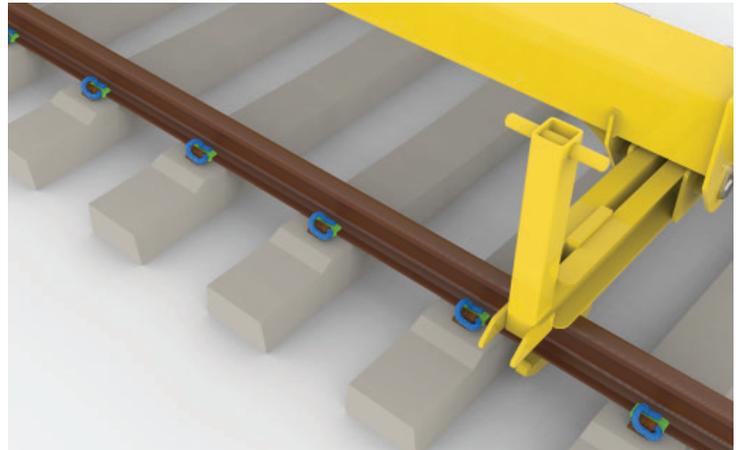
Pull handles and tag line attachment points allow easy fitment to and release of the beam at ground level and on a wagon or truck. There is no requirement for working at height to connect or disconnect the load.

Hooks are shaped to fit the angle of the rails so that no twisting forces are imparted to the rails, minimising the risk of dropping rotten sleepers when handling scrap panels.

The whole structure is constructed of steel, fully welded, tested and inspected prior to despatch. Each beam comes with a factory certificate of thorough examination.

Beams can be supplied in 9m and lighter 6m versions with working load limits from 10,000kg to 20,000kg and special versions can also be built to order.

Please enquire for details of particular specifications.



Specifications

The following specifications are for a 9m long 10,000kg capacity, fixed length configuration which is a typical specification for general purpose panel handling.

Tare Weight	1,975	kg
Working Load Limit	10,000	kg
Proof Load (factory test)	20,000	kg
Headroom requirement (rail foot to attachment point)	1.9	m
Beam Effective Length	9	m
Transport Dimensions (L x W x H)	9,657 x 2,085 x 1,067	mm
Cross Beam Articulation (for twisted track, max.)	18.5	deg.
Documentation Supplied	Factory Test Certificate Certificate of Conformity User / Maintenance Instructions	

Contact Details

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PLEASE NOTE

Whilst every care is taken to ensure that the contents of this document are true and accurate, the specifications of our products and the scope of our services are constantly changing as part of our policy of continuous improvement.

We strongly recommend contacting the factory to ensure that details given are still current.

More than half our business comes from special products designed and built as one-off's and we are always pleased to discuss amended specifications should the product detailed here not meet your exact requirements.

