

2018

# Product Catalogue

## Section 6: Signals & Crossings





# Section 6: Signals & Crossings

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This document is one of a series of 10 catalogue sections which together give specifications for all the products in our range.

Other sections are available on request.

- Section 1: Rail Handling**
- Section 2: Sleeper Handling**
- Section 3: Panel Handling**
- Section 4: Ballast and Trackbed**
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- Section 6: Signals and Crossings**
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- Section 9: Barriers and Access**
- Section 10: Adapter Heads**

# 6.1 SPG16 SIGNAL POST MANIPULATOR



The Thomson Signal Post Grab is the ideal solution to handling round posts.

The jaws are lined with specially formulated polyurethane pads which give a high level of grip without damaging the galvanized surface of the post.

Models are available with or without rotators and with fixed or tilt heads.

Models without rotators are ideal for use with excavators equipped with tilt-rotators.

Twin grip cylinders protected against hose failure by pilot operated check valves ensure that the grab is safe in operation.



## SPECIFICATIONS

Weight (Grab Only)	400 kg
Pad Coating	Polyurethane
Range of Grip	120 to 250mm diam. or 100 to 450mm diam.
WLL (Safe Working Load)	3,000 kg
Proof Load (Factory Test)	6,000 kg

Max. Hyd. Pressure	210 Bar
Min. Hyd. Pressure	120 Bar

Body Colour	08E51 Yellow
Moving Parts	Signal Red



## BENEFITS

Powerful grip with soft, high friction pads to minimise damage to surface coatings

High dexterity for accurate and precise placement

Small size to maximise applications



## FEATURES

- Strong and Robust
- Fully protected hydraulic cylinders
- Bronze bushes in jaws
- All Steel Welded Construction
- High Resistance to Dynamic Loads
- High Resistance to Abuse
- Proven in Use Since 2005
- 3,000 kg WLL
- 6,000 kg Proof Load
- Full Factory Parts Backup
- CE Marked

A ROBUST AND VERSATILE GRAB FOR HANDLING SIGNAL POSTS AND STRUCTURES

## DOCUMENTATION

- Operator's Manual
- Parts Manual
- Maintenance Plan
- LOLER Test Certificate



# OPTIONS AND ORDERING INFORMATION

The SPG16 Signal Post Grab has two models: a two-jaw model for posts from 120mm to 250mm diameter and a four jaw model for posts from 100mm to 450mm diameter and also for tapered posts.

Both models can be specified with fixed adapter heads for use with tilt rotators, with a built in rotator and fixed head or with a rotator and tilting head.

Two specifications of tilting head are available: a compact 30 degree tilt head or the larger 60 degree tilt head.



**Example: SPG16-01-02 Two-Jaw Signal Post Grab with rotator and fixed 2-pin head**

## PRODUCT ACCEPTANCE

No application has been made for Product Acceptance on this grab to date.

Thomson Engineering Design will be pleased to apply for Product Acceptance if required

# MODEL NUMBERS FOR ORDERING

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

# SPG16-□□-□□

Grab Type	Code
<i>Two Jaw</i>	01
<i>Four Jaw</i>	02

Adapter Type	Code
<i>Fixed 2-Pin Adapter Head</i>	01
<i>Rotator and Fixed 2-Pin Head</i>	02
<i>Rotator and 30° Tilt 2-Pin Head</i>	03
<i>Rotator and 60° Tilt 2-Pin Head</i>	04

## NOTE

When ordering this product we will need to know the dimensions specified in Section 10 for a Type 04 adapter

## 6.2 SPC09 SIGNAL HEAD CRANE



The Thomson Signal Post Crane makes light work of changing coloured light signal heads, junction indicators and associated equipment.

The crane is made in 1.8m and 0.9m sections which fit together and clamp to the signal post and which can cater for any signal post height.

A high quality certificated hand winch is used to lower the old signal head to the ground and to raise the new one.

The entire structure of the crane is made of a light weight aluminium alloy for ease of carrying.



### FEATURES

- Strong and Light
- Sectional Design
- Proven in Use Since 2004
- 125 kg WLL
- 250 kg Proof Load
- Full Factory Parts Backup
- CE Marked

A QUICK, SIMPLE SOLUTION TO HANDLING OF HEAVY SIGNAL HEADS AND ASSOCIATED EQUIPMENT

### SPECIFICATIONS

Weight (Complete 7m)	60 kg
Weight (Heaviest Section)	14 kg
WLL (Safe Working Load)	125 kg
Proof Load (Factory test)	250 kg
Mechanism	Hand winch

### APPLICATIONS

Signal Heads  
Junction Indicators

### DOCUMENTATION

Operator's / Maintenance Manual  
LOLER Test Certificate  
PADS No. 094/019176



### BENEFITS

- Fully certificated and tested
- Simple set-up & operation
- Light weight



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

# OPTIONS AND ORDERING INFORMATION

The SPC09 Signal Post Crane is available in plain and anodised finishes.

The set of parts includes:

- Winch on 1800mm post with jib
- 2 x 1800mm extension posts
- 1 x 900mm extension post
- 1 x Base
- 3 x Clamp assemblies



SPC09-01 Signal Post Crane assembly

## PRODUCT ACCEPTANCE

This product has full Network Rail Product Acceptance under Certificate number 05/03126

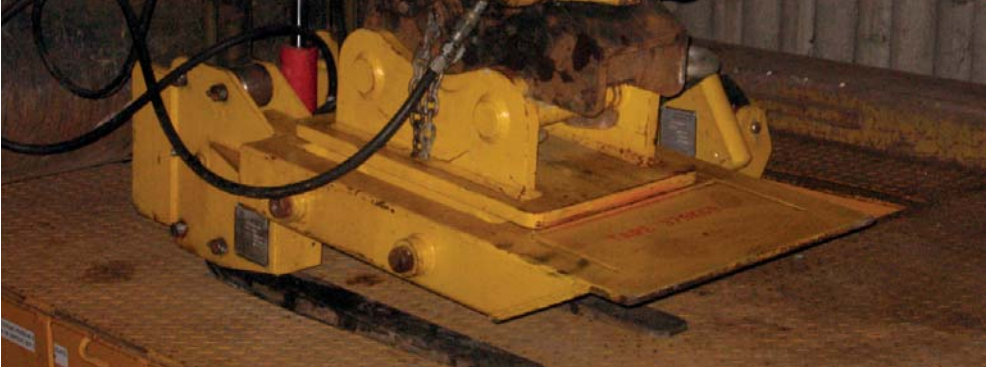
# MODEL NUMBERS FOR ORDERING

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

# SPC09-□□

Grab Type	Code
<i>Plain Finish</i>	01
<i>Anodised Finish</i>	02

## 6.3 CSL16 CROSSING SLAB LIFTER



The Thomson Crossing Slab Lifter is designed for the rapid removal and replacement of rubber block level crossings.

The forks hydraulically clamp the crossing slab into the device so that slabs can be stacked on edge and retrieved easily.

When replacing crossing slabs the side and front blades are used to press the slabs firmly into position.

One operator with two men to release the tie rods can remove a two lane crossing entirely in around thirty minutes.



### FEATURES

- Strong and Robust
- Fully protected hydraulic cylinders
- Bronze bushes in jaw rollers
- All Steel Welded Construction
- Forged forks
- High Resistance to Dynamic Loads
- High Resistance to Abuse
- Proven in Use Since 2005
- 3,000 kg WLL
- 6,000 kg Proof Load
- Full Factory Parts Backup
- CE Marked

A SAFE AND QUICK WAY TO REMOVE AND INSTALL LEVEL CROSSING SLABS MINIMISING LABOUR AND MAXIMISING SAFETY

### SPECIFICATIONS

Weight (Grab Only)	400 kg
Pad Coating	Polyurethane
Range of Grip	90 to 300mm diam.
WLL (Safe Working Load)	3,000 kg
Proof Load (Factory Test)	6,000 kg

Max. Hyd. Pressure	210 Bar
Min. Hyd. Pressure	120 Bar

Body Colour	08E51 Yellow
Moving Parts	Signal Red

### DOCUMENTATION

Operator's Manual  
Parts Manual  
Maintenance Plan  
LOLER Test Certificate  
PADS No, 094/012065



### BENEFITS

- High dexterity for accurate and precise placement
- Small size to maximise applications
- Press blades for installing crossings



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



# OPTIONS AND ORDERING INFORMATION

The CSL16 Crossing Slab Lifter is available with a fixed 2-pin head, a rotator and fixed 2-pin head or with a rotator and tilting 2-pin head.

The tilting head tilts to 30 degrees in either direction.

The design incorporates blades on the front and rear of the device for pressing the slabs into place between the rails.

A pressure control valve is fitted as standard.

A transport / storage stillage is available for this product.



**PRODUCT ACCEPTANCE**

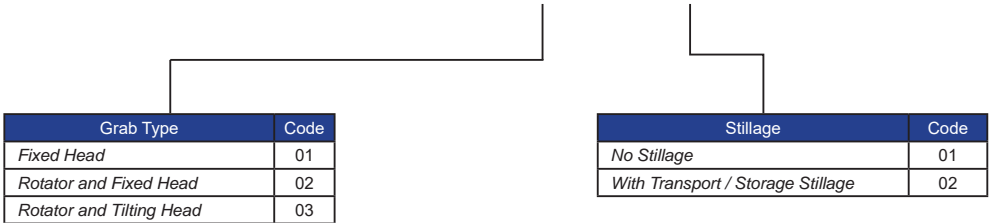
This product has full Network Rail Product Acceptance under Certificate number 05/04271

**Example: CSL16-01-01 Crossing Slab Lifter with fixed head and no stillage**

## MODEL NUMBERS FOR ORDERING

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

# CSL16-□□-□□



**NOTE**

When ordering this product we will need to know the dimensions specified in Section 10 for a Type 04 adapter



**Thomson rail products are used throughout the world and trusted for safety, versatility and strength.**

**A significant part of our business involves the design and manufacture of specialised handling devices. Please enquire for details of our design and build service.**

**All of our products have been designed and built under our ISO 9001:2008 approved quality assurance scheme.**



Please enquire for further details to:

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