

The GANTREX crane rail soft-mounting system consists of a range of synthetic rubber pads, which are laid under the rail, and a range of resilient crane rail clips that locate the rail.

Individual data sheets on the various GANTREX pads and clips give details of the unique characteristics and dimensions of each product.

This general specification describes the boltable Stelcam series clips.

Weldable clips are described in the Weldlok series general specification sheet.

Pads are described in the MK6 and the MK2 pad specifications.

Other clips are described in the 3000 & 7000 Series General Specifications sheets.

GENERAL CHARACTERISTICS

All GANTREX Stelcam series patented clips are specifically designed for the mounting of crane rails, with or without pad. A full range of bolt or stud-attached clips is available to the designer to optimize the economy as well as the technical integrity of the installation.

All Stelcam clips consist of two interacting components that allow easy lateral rail adjustment and, once correctly installed, are self-locking. A controlled vertical force is applied to the rail flange through a synthetic rubber “nose”, which is vulcanize-bonded to the appropriate clip component. The true cam design ensures that the force is transmitted to the fastener (bolt or stud) in the most efficient means possible and is completely independent of friction.

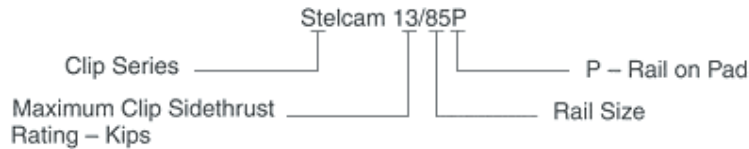
All components are made from high-quality ductile cast iron (50,000 psi, minimum yield).

In addition, the Stelcam 9 is austempered for additional clip strength. See Stelcam 9 data sheet.

STELCAM® SERIES CLIP

CLIP IDENTIFICATION AND NUMBERING SYSTEM

The GANTREX Clip numbering system applies to most current products and concisely describes the product as illustrated below:



TECHNICAL ADVANTAGES OF STELCAM CLIPS

- Simple and positive lateral rail adjustment of up to 5/8" (15mm), depending on type of clip
- Cam adjustment is self-locking
- Minimizes crane runway maintenance and down-time
- Reduces noise and vibration
- Controlled vertical force applied to rail through synthetic rubber "nose":
 - accommodates rail and girder tolerances
 - eliminates fatigue effects on attachment device (bolt or stud)
 - ensures contact between rail and pad under the rail
 - controls axial movement of broken rail
 - eliminates loosening of bolts

STANDARD RANGE OF CLIPS

See data sheet on specific clip series for details. All GANTREX clips are available in various heights, with optional "nose" thicknesses to accommodate all rail sizes with and without pad.

MAXIMUM ALLOWABLE SIDE LOAD (R) FOR STANDARD CLIPS

The maximum allowable side load (R in kips) depends on the type of fastening bolt or stud. **(R)** is based on the bolt threads being **excluded** from the shear plane. The following table shows the allowable loads, (per AISC).

| CLIP | BOLT | R MAX (kips) | | |
|------------|------|-------------------|-----------|-----------|
| | | A307 bolt or stud | A325 bolt | A490 bolt |
| Stelcam 4 | 1/2" | 2.0 | 6.0 | N/A |
| Stelcam 9 | 5/8" | 3.0 | 9.0 | 12.0 |
| Stelcam 13 | 3/4" | 4.0 | 13.0 | 17.0 |
| Stelcam 17 | 7/8" | 6.0 | 18.0 | 24.0 |
| Stelcam 22 | 1" | 8.0 | 23.0 | 31.0 |

CLIP SELECTION

The following information is needed in order to select the correct GANTREX clip for your installation:

- rail designation (e.g. 85 ASCE, 175 CR)
- girder top flange width
- thickness of pad or wear plate under the rail
- lateral adjustment required
- maximum side thrust per wheel
- maximum wheel load
- vertical clearance tolerances where side rollers are used

INSTALLATION INSTRUCTIONS

See data sheet on specific clip for details. A standard option on all GANTREX clips is protection against corrosion in the form of electro or hot-dip galvanizing. Consult GANTREX for special coatings. Where further painting is required, please consult GANTREX before using mineral-based solvents. Do not use cleaning fluids or protective coatings that contain ketones or similar chemicals, as they may seriously damage the rubber noses.

CLIP SPECIFICATION

The data sheet for each clip gives the following details:

- clip size and weight
- resistance to side load (R)
- model designation for selected rail sizes
- lateral adjustment range

Please contact GANTREX for more information on any product or for clip specification if your rail size does not appear in the tables on the data sheet tables.

GANTREX reserves the right to discontinue or change specifications at any time without prior notice and without incurring any obligation whatsoever.
 PATENTS APPLIED FOR IN MOST COUNTRIES INCLUDING UNITED STATES AND CANADA



TOLL FREE: 800 2 GANTREX (800) 242-6873

Web site: www.gantrex.com · Email: sales@gantrex.com