

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 which locate the rail.

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

**This general specification describes the 3000 series clips (high capacity, boltable).**

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

The medium/light duty boltable clips are described in the Stelcam Series general specifications and data sheets.

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

#### **GENERAL CHARACTERISTICS**

All 3000 Series clips are specifically designed for the mounting of crane rails, with or without pad. The 3000 and Stelcam series which offer a full range of bolt or stud-attached clips, are available to optimize economy, as well as provide technical integrity for the installation.

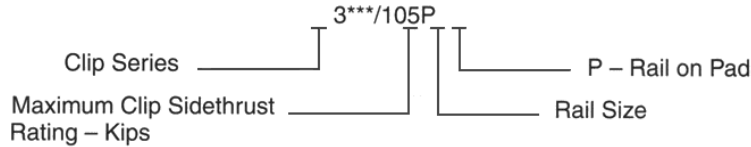
All 3000 Series clips consist of two interacting components which allow easy lateral rail adjustment and, once correctly installed, are self-locking. A controlled vertical force is applied to the rail flange through a synthetic rubber "nose", which is vulcanize-bonded to the appropriate clip component.

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

## 3000 SERIES CLIPS

### CLIP IDENTIFICATION AND NUMBERING SYSTEM

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



### TECHNICAL ADVANTAGES OF 3000 SERIES

- Simple and positive lateral rail adjustment of up to 3/4" (20mm), depending on type of clip.
- Self-locking and self-tightening features due to a system of double wedging components.
- Very high resistance to lateral loads through careful selection of materials.
- 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
- Crane runway maintenance and down-time are minimized.
- Noise and vibration are reduced.

### STANDARD RANGE OF CLIPS

See data sheet on specific clip series for details. All 3000 Series clips are available in various heights, with optional "nose" thicknesses to accommodate all rail sizes with and without pad.

### STANDARD CLIPS

Only standard 3000 Series clips are shown in this catalog. Other versions of this series are available to meet special requirements.

### 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.

CLIP	BOLT	R MAX (kips)		
		A307 bolt or stud	A325 bolt	A490 bolt
3124	7/8"	6.0	12.6	16.8
3226	1"	15.8	33.0	44.0

### CLIP SELECTION

The following information must be available in order to select the correct GANTREX clip for your installation:

- rail designation (e.g. 105 CR, 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. Do not use cleaning fluids or protective coatings which contain ketones or similar chemicals, as they may seriously damage the rubber nose.

### 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 3000 Series 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.



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