



OPERATORS GUIDELINES

**MAINTENANCE AND INSPECTION
RECOMMENDATIONS**

'SUPERCLAMP' Lifting Equipment

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Manufactured in Orlando, Florida USA

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We reserve the right to modify information and specifications given in this publication. without notice.

Due to our extensive product development program, specifications may change from time to time. If you have any questions, contact your local distributor or the factory.

SUPERCLAMPS	
SERIES	DESCRIPTION
USC	UNIVERSAL SUPERCLAMP
S	FIXED SUPERCLAMP SWIVEL JAW SUPERCLAMP DOUBLE ENDED MONORAIL SUPERCLAMP GIRDER DOG SUPERCLAMP
R	RAIL SUPERCLAMPS
GBT	RUNWAY BEAM GEARED SUPERCLAMP
B & BA'S	RUNWAY BEAM SUPERCLAMP
A	RUNWAY BEAM AUTOLOCK SUPERCLAMP
P	PIPE SUPERCLAMP
PH	PIPE HOOK SUPERCLAMP
PFC	PERMANETLY FIXED SUPERCLAMP
AC	ANGLE SECTION SUPERCLAMP
BFC	BULBFLAT SECTION SUPERCLAMP
PLATE	HORIZONTAL AND VERTICAL SUPERCLAMP
CUSTOM	ANY SPECIFIC DESIGN!

SUPERCLAMP PRODUCTS

SAFETY AND HEALTH

Suppliers are generally required to make available information relating to articles supplied to ensure that when put to proper use they are safe and without risk to health.

Experience over many years has not shown any particular problems with regard to Health and Safety in connection with **SUPERCLAMP** products we manufacture and supply providing:

1. They are used for the purpose for which they were designed.
2. They are not loaded beyond their rated Working Load Limit.
3. They are properly maintained.
4. They are inspected regularly and tested in accordance with the relevant statutory regulations.
5. They are used by competent persons trained in their use.

WARNING

Our products are marked with a **WORKING LOAD LIMIT** which **MUST NOT** be exceeded. The manufacturer does not accept any liability for damages which may result from the product being used in excess of the Working Load Limit.

Ensure that existing endstops on runway beams will accommodate **SUPERCLAMP** Trolleys.

On occasion we supply replacement component parts for **SUPERCLAMP** models, but we do not accept any responsibility for these unless they are installed by a person with appropriate knowledge and training and the statutory tests and inspections are carried out upon completion of repair.

Unless we are informed at time of inquiry and order regarding particular hazardous environmental conditions all equipment is supplied on the assumption that it will be used in normal atmospheric and temperature conditions as applicable within the contiguous United States.

WORKING LOAD LIMIT

This is the maximum load which can be applied to the product in service.

It is of the utmost importance in Health and Safety to ensure that **SUPERCLAMP** products are only attached to structures, materials and other lifting components which are authentically and authoritatively approved and recommended to carry or sustain the working loads to be applied.

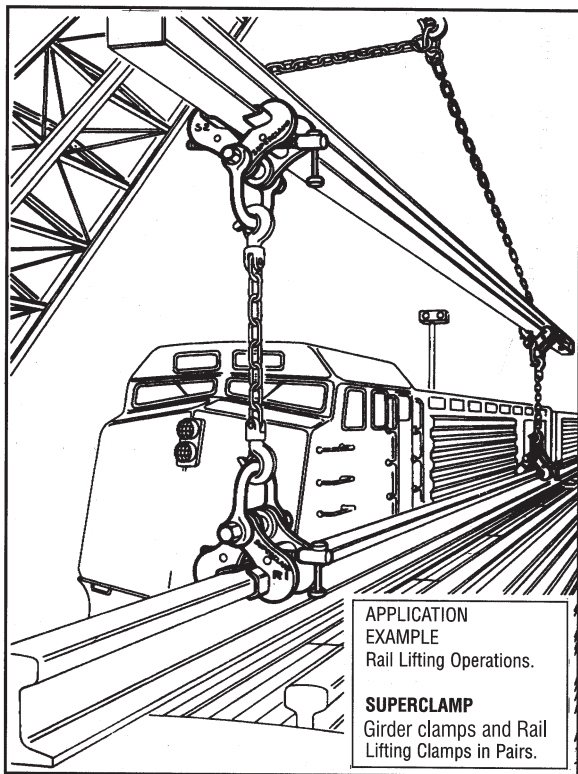
All of our products exceed the provisions of OSHA 29CFR Part 1910, 1918, 1926, ASME B30.20 and ANSI BTH-1 as applicable.

GENERAL INFORMATION

Our contribution to **SAFETY** is in securing the **QUALITY** and **RELIABILITY** of **SUPERCLAMP** products.

Each **SUPERCLAMP** product is proof tested and certified prior to shipping. Tests to destruction ensuring a 5-1 factor of safety are employed throughout the design, development and manufacturing process of our products where required.

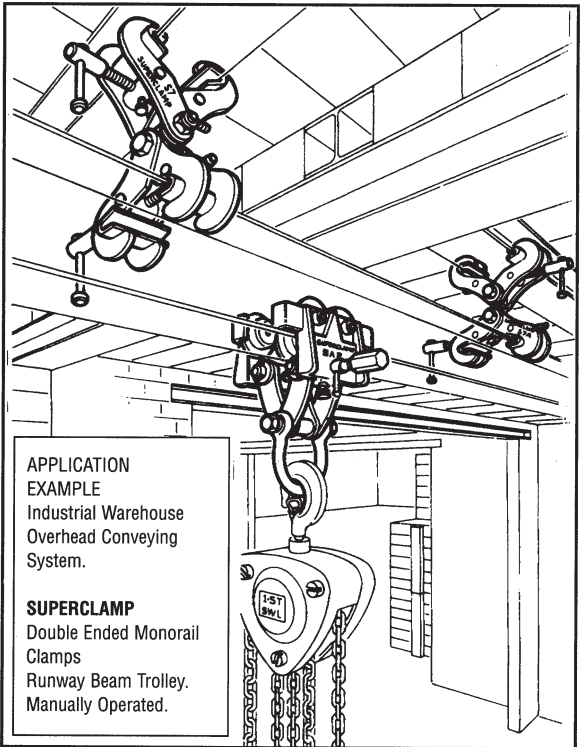
Section 1



Using '**SUPERCLAMP**' Girder clamps is a practical solution to widespread lifting operations requirements. Ease of application, time and labor saving elements are of economical importance. Safety in application and practical design however, is what every user requires.

'**SUPERCLAMP**' products integrate all of these factors and make lifting operations safer and financially rational.

Section 1



APPLICATION
EXAMPLE
Industrial Warehouse
Overhead Conveying
System.

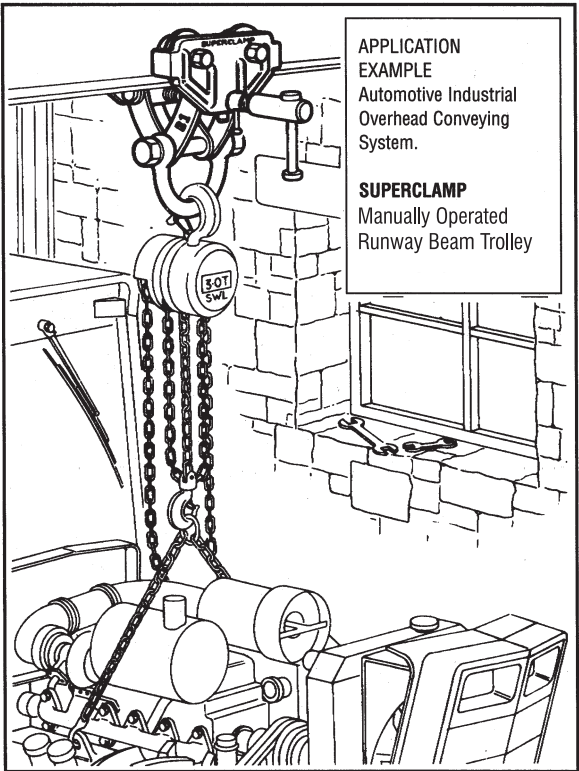
SUPERCLAMP
Double Ended Monorail
Clamps
Runway Beam Trolley.
Manually Operated.

Overhead Conveying Systems are not generally easy to establish when already existing beams are covering ceiling areas in a single direction.

'SUPERCLAMP' Double Ended Monorail Clamps

possible to change direction and convey your product around your industrial site or factory. **'SUPERCLAMP' Manually Operated Runway Beam Trolleys** ideally complement the system in Application.

Section 1

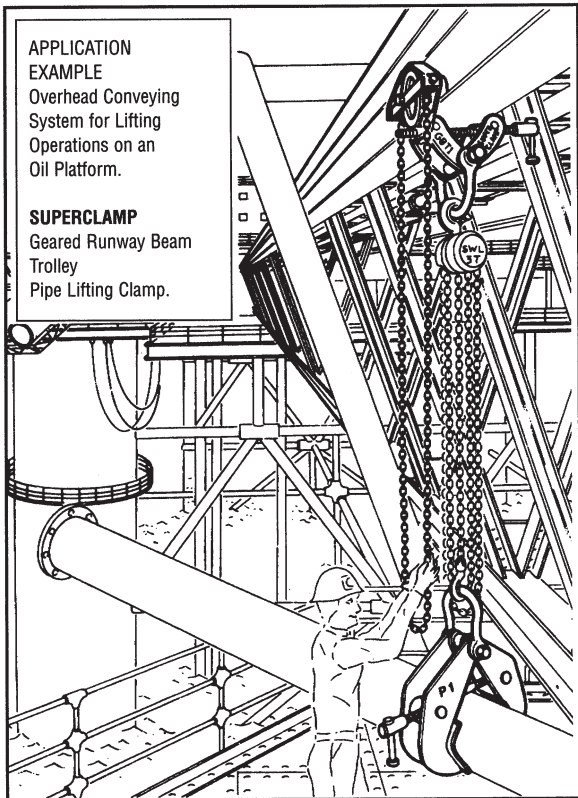


When in a situation where a power supply is non-existent or far away, **'SUPERCLAMP' Manually Operated Runway Beam Trolleys** are proven as an ideal solution to conveying problems. Many hours can be saved in a factory situation by using **'SUPERCLAMP'** Runway Beam Trolleys where fully manual material handling and conveying operations require the solution of on site conveying problems or lifting operations.

Section 1

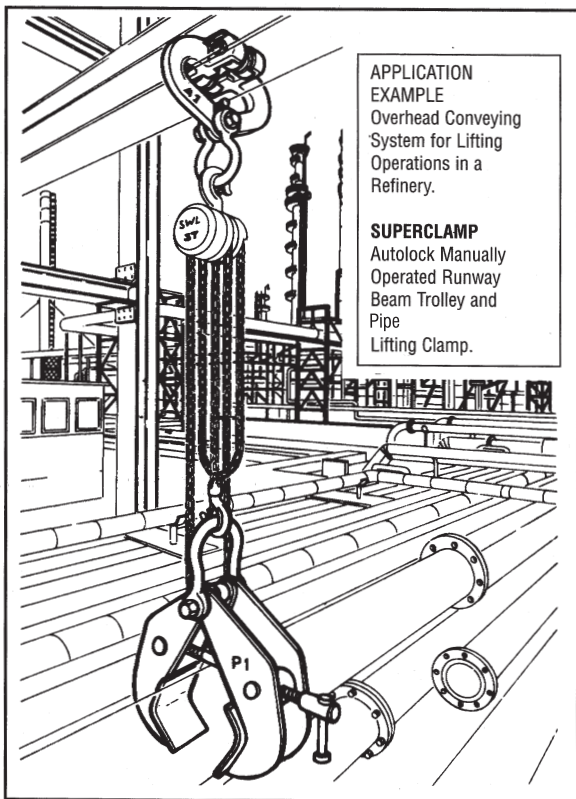
**APPLICATION
EXAMPLE**
Overhead Conveying
System for Lifting
Operations on an
Oil Platform.

SUPERCLAMP
Geared Runway Beam
Trolley
Pipe Lifting Clamp.



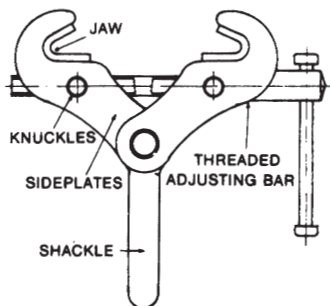
Using '**SUPERCLAMP**' products off-shore is a proven and operations standard to solve lifting operation problems reliably and inexpensively. Customer Service is most important to General Clamp Industries, Inc. and it's '**SUPERCLAMP**' DISTRIBUTOR NETWORK WORLDWIDE.

Section 1



'SUPERCLAMP' Autolock Runway Beam Trolleys manufactured by General Clamp Industries, Inc. are among the safest and most practical Beam Trolley Tools on the world market today. Ideal for Overhead Conveying Systems in Industrial Application Areas, the Autolock Trolleys are speedily erected and are provided with Wheelguards/Anti-Drop Plates.

Section 2



User's Guidelines Applicable to SUPERCLAMP Beam Clamps; Girder Dogs (S Series excluding Double Ended Monorail)

* Approved for Personnel use as PFAS Anchorage Connectors as per requirements of ANSI Z359.1

Range of adjustability is marked on clamp identification plate.

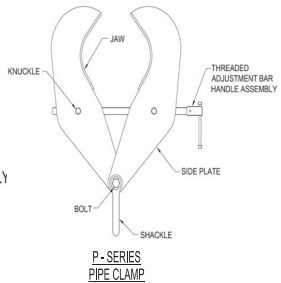
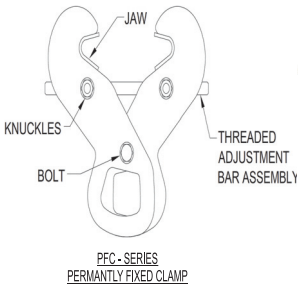
The adjustable mechanical functions referred to are similar in design throughout the range as above.

Never use a single clamp as a lifting point on a beam. Always use two clamps to ensure a stable lift; and use a spreader beam when applicable.

Before using the clamps referred to above, ensure that:

- They are approved for the operation by a competent person trained in their use for the application to be undertaken
- The clamps listed above may be safely used at 0° vertical load.
- Refer to the "Side Load Reduction" chart on page 10 for any requirement exceeding 1° side load.
- The clamp is of correct size, 'adjustability and adequate for the section for which it may be used as an anchor point or lifting device
- Clamp or components thereof do not exhibit any damage, distortion or undue wear
- The structures or sections for which the clamps are to be used are adequate for the load and are undamaged
- Particular attention must be given to prevent damage to threaded adjusting screws, bolts, shackles, jaws and knuckles
- **The clamp is seated correctly and hand tightened adequately to the section or structure**
- Refer to pages 19 and 20 of this guide

Section 2



User's Guidelines Applicable to SUPERCLAMP Permanently Fixed; Monorail; Pipe; Pipe Hook (PFC; S*; P; PH Series)

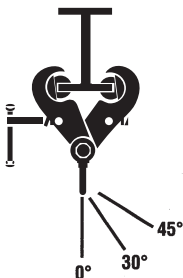
Range of adjustability is marked on clamp identification plate.

The adjustable mechanical functions referred to are similar in design throughout the range as above.

Before using the clamps referred to above, ensure that:

- They are approved for the operation by a competent person trained in their use for the application to be undertaken
- The application requires in line (at 0° vertical) use only
- The clamp is of correct size, adjustability and adequate for the section for which it may be used as an anchor point or lifting device
- Clamp or components thereof do not exhibit any damage, distortion or undue wear
- The structures or sections for which the clamps are to be used are adequate for the load and are undamaged
- Particular attention must be given to prevent damage to threaded adjusting screw, bolts, height adjusting components, shackles, sheaves, jaws and knuckles
- The clamp is seated correctly and hand tightened adequately to the section or structure (PFC units require a wrench to tighten fully)
- Refer to pages 19 and 20 of this guide

**SIDE LOADED
ACROSS THE
BEAM ONLY**



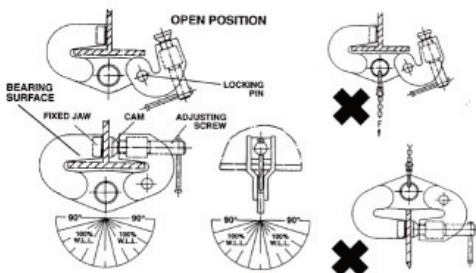
**MAY BE SAFELY USED
AT 0° ANGLE
WITHOUT REDUCTION
LOAD LIMIT.**

REDUCTION IN WORKING LOAD LIMITS WHEN SIDE LOADS APPLIED				
ANGLE FROM VERTICAL	0°	0° to 15°	15° to 30°	30° to 45°
REDUCTION FACTOR	NIL	17%	34%	50%
MODELS	WLL/lbs.	WLL/lbs.	WLL/lbs.	WLL/lbs.
S2A, S2AX, S5A	6720	5578	4435	3360
S3	8960	7437	5914	4480
S3X, S3A, S6, S6A	11200	9296	7392	5600
S4S	13440	11155	8870	6720
S4A, S11	22400	18592	14784	11200
S12, S14	33601	27889	22177	16801
S15, S16	44800	37184	29568	22400
S17, S18	56000	46480	36960	28000
S19, S20	67200	55776	44352	33600

The above working load limits and deviations have been established specifically for the “S” Series clamps and only apply in overhead beam attachment or lifting/setting. (The Universal **SUPERCLAMP “USC”** has been specifically designed for full capacity range without any reduction.) Literature is available on request. The tables apply to our clamps only (selected models) and we strongly advise that stress calculations should be carried out (by the user’s engineering department) for any/all support steel work.

WARNING: All clamps must be correctly installed to the beam by a competent person and fully hand tightened. If in doubt, contact the manufacturer for their recommendations.

Section 2



User's Guidelines Applicable to SUPERCLAMP Universal USC Series (for side load applications)

* Approved for Personnel use as PFAS Anchorage Connectors as per requirements of ANSI Z359,1

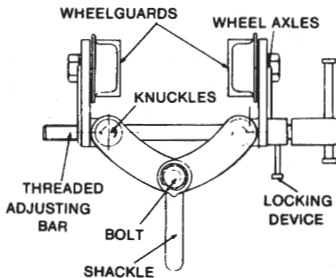
Range of beam flange width is marked on clamp identification plate.

The adjustable mechanical functions referred to are similar throughout the range as above,

Before using the **USC**, read and follow these guidelines:

- **Do not** use this clamp as a plate lifting clamp
- **Do not** exceed the WLL (Working Load Limit) of this clamp
- Support the clamp so that the **bearing surface is in contact with the beam flange while tightening the adjusting screw**, failure to do so may result in serious injury to persons or damage to equipment
- Adjusting screw **MUST be fully hand tight** before any load is applied, failure to do so may result in serious injury to persons or damage to equipment
- **Do not** use this clamp in the open position
- **Use with caution** on Galvanized, Heavy Millscale, or Coated Surfaces.
- Verify that the clamp is of the correct size, adjustability and adequate for the section for which it may be used as an anchor point or lifting device
- Verify that the structures or sections for which the clamp is to be used is adequate for the load and undamaged
- Universal **SUPERCLAMP** should be examined by a competent authority at least every six months (in normal to heavy service) and an examination report kept available for review. All repairs must be carried out by the original manufacturer or an approved repair center
- **Refer to pages 19 and 20 of this guide and read Safety B. USCG01**

Section 2



User's Guidelines Applicable to SUPERCLAMP Manually Operated Runway Beam Trolleys (B & BA Series)

* Approved for Personnel use as PFAS Anchorage Connectors as per requirements of ANSI Z359.1

Range of adjustability is marked on trolley identification plate.

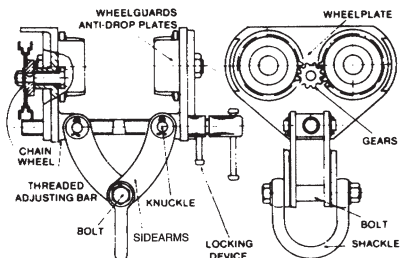
Adjustable Manually Operated Runway Beam Trolleys are designed for moving loads on Steel Overhead Runway Beams approved for this purpose.

SUPERCLAMP B & BA Series are suitable for use on S, Y and WF flange beams.

Before using trolleys, ensure that:

- They are approved for the operation by a competent person trained in their use for the application to be undertaken
- There are no obstructions on beam or wheels to cause slipping, and no distortion or wear on beam
- The threaded adjusting screw **must** not be distorted; cracked; chipped; bent or damaged in any other way. This screw also acts as a safeguard against tilting. The application **must NEVER** allow for side loading.
- The wheelguards (incorporated also as anti-drop plates) are in good condition and the wheels move freely, the wheel treads are not worn and axle pins and wheels are secure
- The locking device and all moving parts are free and fully operational
- Endstops fitted to the Runway Beam will accommodate **SUPERCLAMP** trolley unit
- The trolley will be seated correctly on flange and properly adjusted and fitted to correct width. Adjust to recommended side clearance of wheel flange approx. 1/16" (2mm total)
- The locking device **MUST** be in locked condition when trolley is in position
- Refer to 'Beam Trolley Minimum Radius' chart as applicable (page 18)
- Refer to pages 19 and 20 of this guide

Section 2



User's Guidelines Applicable to SUPERCLAMP Manually Operated Geared Runway Beam Trolleys (GBT Series)

* Approved for Personnel use as PFAS Anchorage Connectors as per requirements of ANSI Z359.1

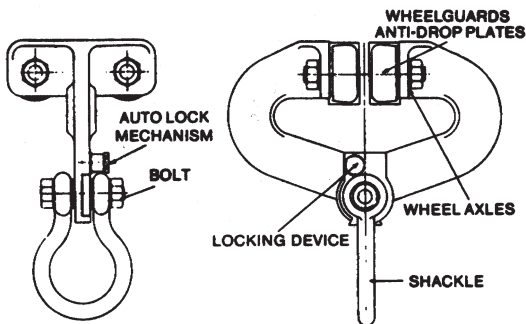
Range of adjustability is marked on trolley identification plate.

SUPERCLAMP Adjustable Manually Operated Geared Runway Beam Trolleys will allow controlled movement of loads on steel overhead runway beams without the use of pulling devices for horizontal movement. **SUPERCLAMP** GBT Series are suitable for use on S, Y and WF flange beams.

Before using trolleys, ensure that:

- They are approved for the operation by a competent person trained in their use for the application to be undertaken
- There are no obstructions on beam or wheels to cause slipping, and no distortion or wear on beam
- The threaded adjusting screw must not be distorted; cracked; chipped; bent or damaged in any other way. This bar also acts as a safeguard against tilting
- The application must **NEVER** allow for side loading
- The wheelguards (incorporated also as anti-drop plates) are in good condition and the wheels move freely, the wheel treads are not worn and axle pins and wheels are secure
- The locking device and all moving parts are free and fully operational
- The endstops fitted to the Runway Beam will accommodate **SUPERCLAMP** trolley
- The trolley will be seated correctly on flange and properly adjusted and fitted to correct width. Adjust to recommended side clearance of wheel flange approx. 1/16" (2mm total)
- The locking device **MUST** be in locked condition when trolley is in position
- Refer to 'Beam Trolley Minimum Radius' chart as applicable (page 18)
- Refer to pages 19 and 20 of this guide

Section 2



Guidelines Applicable to SUPERCLAMP

Autolock Manually Operated Runway Beam Trolleys (A Series)

* Approved for Personnel use as PFAS Anchorage Connectors as per requirements of ANSI Z359.1

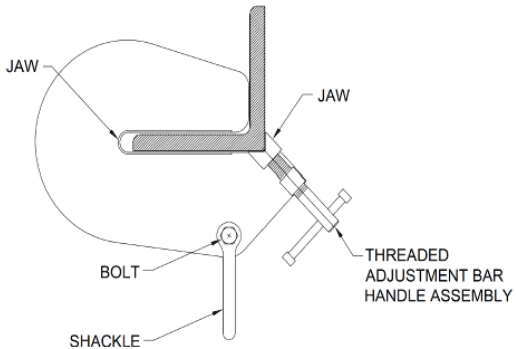
Range of adjustability is marked on trolley identification plate.

SUPERCLAMP Autolock Manually Operated Runway Beam Trolleys are provided specifically to be speedily demountable where frequent movement from one beam to another is required. **SUPERCLAMP A Series** are suitable for use on S, Y and WF flange beams.

Before using, ensure that:

- They are approved for the operation by a competent person trained in their use for the application to be undertaken
- There are no obstructions on beam or wheels to cause slipping, and no distortion or wear on beam.
- The application must **NEVER** allow for side loading
- The wheelguards (also incorporated as anti-drop plates) are in good condition and wheels move freely, the wheel treads are not worn and axle pins and wheels are secure
- The locking device and all moving parts are free and fully operational
- Endstops fitted into Runway Beam will accommodate **SUPERCLAMP** trolley
- The trolley will be seated correctly on flange and clear of any obstructions
- Refer to 'Beam Trolley Minimum Radius' chart as applicable (page 18)
- Refer to pages 19 and 20 of this guide

Section 2



User's Guidelines Applicable to SUPERCLAMP Angle Section Clamps (AC Series) Bulb Flats Section Clamps (BFC Series)

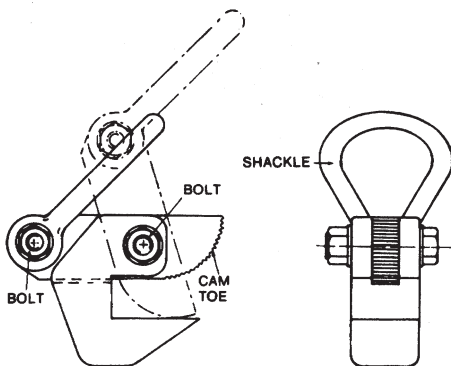
Range of adjustability is marked on clamp identification plate.

The adjustable mechanical functions referred to are similar in design throughout the range as above.

Before using the clamps referred to above, ensure that:

- They are approved for the operation by a competent person trained in their use for the application to be undertaken
- **The application is approved from 0° to 15° with no WLL reduction. Do not exceed 15°.**
- The clamp is of the correct size, adjustability, and adequate for the section for which it may be used as an anchor point or lifting device
- The clamp or components thereof do not exhibit any sign of damage, distortion or undue wear
- The structures or sections for which the clamps are to be used are adequate for the load and undamaged
- Particular attention must be given to prevent damage to the threaded adjusting screw; bolts; shackles; jaws; and knuckles
- The clamp is seated correctly and hand tightened adequately to the section or structure before lifting/lowering operation begins
- Refer to pages 19 and 20 of this guide

Section 2



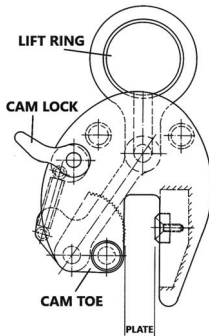
User's Guidelines Applicable to SUPERCLAMP Horizontal Plate Clamps (HPC Series)

Range of adjustability is marked on clamp identification plate.

SUPERCLAMP Horizontal Plate Lifting Clamps **MUST** only be used in pairs.

Before using, ensure that:

- They are approved for the operation by a competent person trained in their use for the application to be undertaken
- That the two leg slings are officially released for use
- That the easily replaceable cam toes are not distorted, worn, corroded or otherwise damaged
- The pairs of clamps must be balanced out of horizontal clamping forces by facing each other
- Use to handle plates horizontally only
- Do not side load
- Do not lubricate cam toes
- **ONLY USE FOR MILD STEEL**
- Easily replaceable parts/mechanisms are moving freely
- Plates to be lifted will not sag
- The clamps are seated correctly and tightened adequately before the lifting operation begins.
- Refer to pages 19 and 20 of this guide

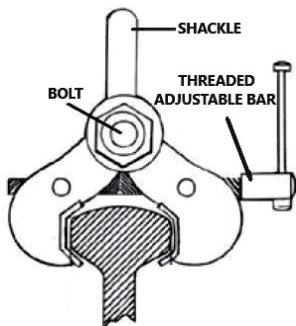


User's Guidelines Applicable to SUPERCLAMP Vertical Plate Clamp (PLC Series)

Range of adjustability is marked on clamp identification plate.

Before using, ensure that:

- They are approved by operation by a competent person trained in their use for the application to be undertaken
- That the easily replaceable cam toes are not distorted, worn, corroded, or otherwise damaged
- Use to handle plates vertically only
- Do not side load
- Do not lubricate cam toes
- Do not re-sharpen teeth
- **ONLY FOR MILD STEEL**
- Easily replaceable parts/mechanisms are moving freely
- Plate to be lifted will not sag
- The clamps are seated correctly and tightened adequately before the lifting operation begins
- Refer to pages 19 and 20 of this guide



Rail

User's Guidelines Applicable to SUPERCLAMP Rail Clamps (R Series)

Range of adjustability is marked on clamp identification plate.

Before using, ensure that:

- They are approved by operation by a competent person trained in their use for the application to be undertaken
- The Rail **SUPERCLAMPS** matches the specific Rail Type
- The application requires in line (at 0° vertical) use only
- Clamp components do not exhibit any damage, distortion, or undue wear
- The structures or sections for which the clamps are to be used are adequate for the load and are undamaged
- The clamps are seated correctly and tightened adequately before the lifting operation begins
- Refer to pages 19 and 20 of this guide

Guidelines for the inspection and safe use of 'SUPERCLAMP' Equipment.

Inspection of SUPERCLAMP Equipment

General:

- 1) Follow all requirements of laws, rules and regulations applicable in your country pertaining to lifting operations, ensuring all maintenance, testing, inspection and operator training requirements are strictly adhered to. This is in your interest and can prevent fatal accidents and industrial disaster.
- 2) Checklist
 - Is any part of the equipment distorted?
 - Are any cracks visible, or is extensive corrosion evident?
 - Is any wear evident at suspension points, wheels, shackles, gears, pivots, pins, bolts, threads, springs, or other moving parts?
 - Are locking arrangements functional and safe?
 - Are the Working Load Limit, Serial Numbers and other markings legible?
 - Have all inspections or tests been regularly recorded?
 - Does the **SUPERCLAMP** equipment carry its original identification plate?

Safe use of SUPERCLAMP Equipment

- 1) Ensure that the selected **SUPERCLAMP** equipment is of a suitable type for the lifting or suspension operation you intend to undertake.
- 2) Ensure that structures to which **SUPERCLAMP** equipment may be fitted are of adequate design and comply with all legal requirements. Structures designed for lifting operation purposes are usually marked with the Working Load Limit which may not be exceeded. Ensure that structures are tested and certified for such use and that the appropriate certificate is current.
- 3) **Never stand beneath the suspended load.**
- 4) **SUPERCLAMP** products are designed for in-line use only, and the equipment is thus marked. **Never** use **SUPERCLAMP** products for side loading applications unless this is specifically recommended on the original **SUPERCLAMP** identification plate affixed to the unit. If the identification plate states that the unit **must** be at 0 only, then **NO** side loading/angle loading is permitted.
- 5) **SUPERCLAMP** products **must** not be attached to defective structures or materials. Ensure that runway beams are fitted with endstops and are free from defects. Should a defect on a runway beam or structural member be observed, remove the **SUPERCLAMP** unit immediately and report your observations to your supervisor.
- 6) When selecting **SUPERCLAMP** products, ensure that the calculated working load limit required allows for any additional weight of equipment which may be suspended together with the original load to enable the lifting operation to take place.

- 7) Ensure that all mechanisms on **SUPERCLAMP** products are working freely before being used for the application intended.
- 8) **Never** replace worn components except with original **SUPERCLAMP** parts. It is strictly prohibited to recut or resharpen products fitted with jaws or worn teeth.
Cams or jaws incorporating teeth can be easily replaced with original **SUPERCLAMP** components from your approved **SUPERCLAMP** distributor.
- 9) Always ensure that repaired products are inspected and tested in accordance with the laws of your country prior to being released for operation.
- 10) Ensure that all persons using **SUPERCLAMP** equipment are properly trained in performing lifting operations and competently using this type of equipment.
- 11) If multipoint lifting operations are undertaken, always ensure that no single **SUPERCLAMP** unit or single point of lift is at any time required to exceed its maximum working load limit. Do not exceed angle ratings at any time as this may prove excessively dangerous.
- 12) Always ensure that parts are reassembled correctly after disassembly or repair.
- 13) **Never** throw or drop any **SUPERCLAMP** equipment as this may cause injury.
- 14) If in doubt about the suitability of **SUPERCLAMP** products for your application, contact your nearest distributor or the factory.
- 15) Your nearest **SUPERCLAMP** distributor will advise on applications if required
- 16) **Definition of Hand Tight:** **SUPERCLAMP** products should be tightened by hand without the usage of a "cheater bar" or assisting device. The handle tee bar (tommy bar) should not be bent in the process. Due to differences in human capabilities there is no standard vector force that should be applied. All **SUPERCLAMPS** should be verified and tested once installed by a competent person.

MINIMUM RADIUS FOR RUNWAY BEAM TROLLEYS

BA - Series	4.9 foot radius / 1.5 metre radius
B - Series	4.9 foot radius / 1.5 metre radius
A - Series	4.9 foot radius / 1.5 metre radius
GBT - 1/2/3	4.9 foot radius / 1.5 metre radius
GBT - 4/5	6.5 foot radius / 2.0 metre radius

SUPERCLAMP INSPECTION GUIDE

Inspection guidelines per

ASME B30.20 Below the Hook Lifting Devices

- Chapter 20-1 Structural and Mechanical Lifting Devices
- Section 20-1.2.3 Inspection, Testing and Maintenance

In addition to the codes noted above the clamp inspection shall include the following practices of

GENERAL CLAMP INDUSTRIES, INC.

1. Inspect the full function and operation of the entire clamp
2. Ensure all decals are visible and legible per ASME B30.20, BTH-1, ANSI Z359.12 & ANSI Z535.4
Per the following list:
 - WLL (capacity & operation angle)
 - Warning – No modifications
 - Prop 65
 - Manufacturers – General Clamp Ind, Inc.
 - ASME B30.23, BTH-1 – Design Category “B”, Service Class “0”
 - Clamp Weight for every clamp model over 100 lbs.
3. Inspection of the hard stamped information showing the model, serial number, WLL, grip range must be legible
4. Check the threaded rod straightness, the handle is complete including the keeper pin in place, and functioning properly
5. Inspect the shackle assembly for full range of movement and check for any flat areas in the inside of the shackle's crown – any measurable distortion or elongation is noted.
6. Inspect the jaw area for damage. Articulating clamp models, S-5, S-5A, S-6, S-6A & S-11, inspect the insert jaws and the keeper pins are in place.
7. Inspect for any distortion or deformation to the side arms caused by side overloading
8. Inspect the USC model's contact jaws are clear of debris within the valleys for full contact and any fractured peaks of that grip surface. Inspect the locking pin assembly to ensure full engagement and the cam / swivel is free moving.

It is up to the customer to know the latest industry regulations in order to maintain compliance in the local area of work. The guidelines provided will ensure a complete physical inspection of your **SUPERCLAMP** clamp for longer life, proper maintenance, and when to have it removed for repair or replacement by your local **SUPERCLAMP** dealer or the manufacturer.

