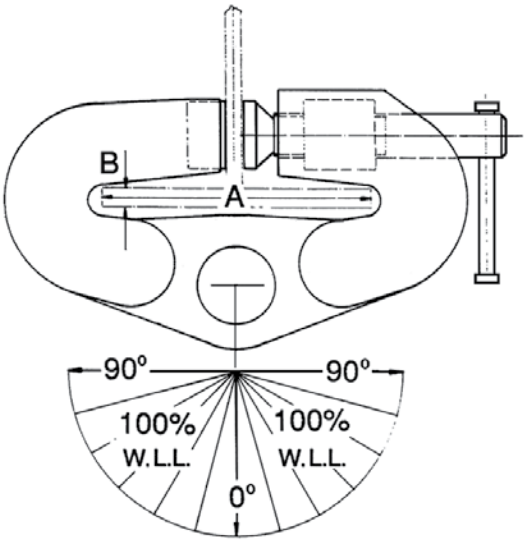
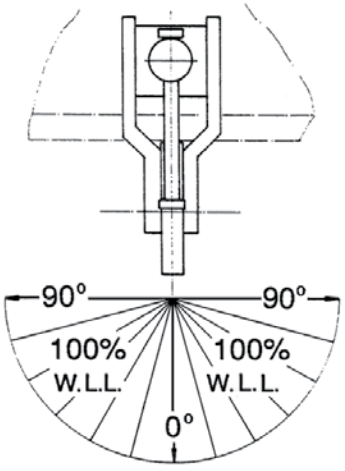
CLAMPS

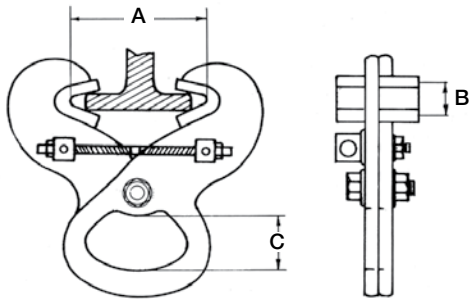




Universal SUPERCLAMP

- Can be fully loaded at any angle, i.e. 90˚ in 360˚ rotation
- Designed for side load applied at full rated capacity
- Low headroom anchor point
- Single or twin lifting point
- Light weight one piece adjustment design
- Positive grip on beam flange and web
- Used for lifting, pulling or as an anchor point
- **Approved for Personnel tie-off use***

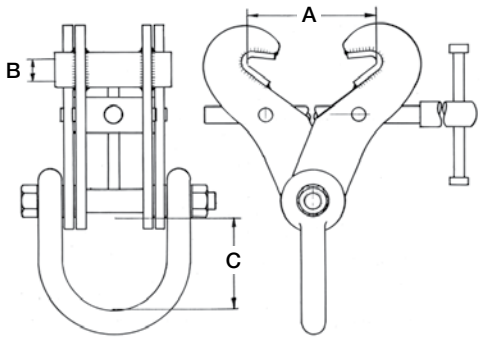
MODEL	* WLL at 0° Vertical Lbs	kg	A Adjustment inch. min-max	B To Accommodate Beam Flange Thickness (max) inch	Average Weight Lbs
USC3A	6720	3048	6" - 8"	1"	30
USC4	8960	4064	6" - 12"	1"	52
USC5	11200	5080	6" - 12"	1"	63
USC5A	11200	5080	6" - 12"	1 1/2"	63
USC5D	22400	10160	6" - 12"	1"	74
USC5D400	22400	10160	9" - 16"	1"	95



Permanently Fixed Adjustable Girder Clamps

- Designed for light industrial applications
- Ideal for permanent overhead anchor point above machinery or equipment
- Positive grip on flange
- Lightweight one piece adjustable design
- For use at 0˚ from vertical

MODEL	WLL at 0° Vertical Lbs	kg	A Jaw Grip Adjustment inch min-max	B Jaw Aperture inch	C Inside Shackle Crown to Spacer inch	Average Weight Lbs
PFC1	2240	1016	3 1/2" - 7 1/2"	7/8"	1 3/4"	4
PFC2	4480	6096	3 1/2" - 7 1/2"	7/8"	1 3/4"	6
PFC3	6720	8128	3 1/2" - 7 1/2"	7/8"	1 3/4"	7



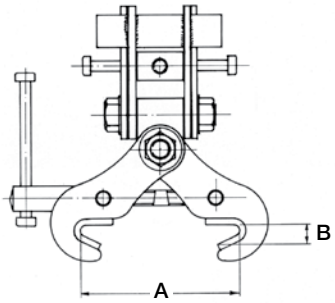
Fixed Jaw Adjustable Girder Clamps

- One piece adjustable design
- Used for lifting, pulling or as an anchor point
- No tools required for mounting/removal
- Integrated lifting shackle
- Positive grip left/right threaded adjusting bar
- Designed with maximum safe jaw grip adjustment

- **Approved for Personnel tie-off use***
- S1 and S2 are not approved for side load

MODEL	* WLL at 0° Vertical Lbs	kg	A Jaw Grip Adjustment inch min-max	B Jaw Aperture inch	C Inside Shackle Crown to Spacer inch	Average Weight Lbs
S1	4480	2032	3" - 7 1/2"	7/8"	3 1/2"	9
S2	6720	3048	3" - 7 1/2"	7/8"	4 1/8"	11
S2A	6720	3048	3" - 7 1/2"	7/8"	4"	18
S3	8960	4064	6" - 10"	7/8"	4 1/2"	24
S3X	11200	5080	3" - 7 1/2"	7/8"	4 3/8"	22
S3A	11200	5080	6" - 12"	1 1/4"	4 1/2"	33
S4S	13440	6096	8" - 18"	1 5/8"	4 3/4"	41
S4A	22400	10160	8" - 18"	1 5/8"	4 1/4"	62
S12	33601	15241	8" - 18"	2"	8"	109
S14	33601	15241	16" - 24"	2 1/2"	8"	129

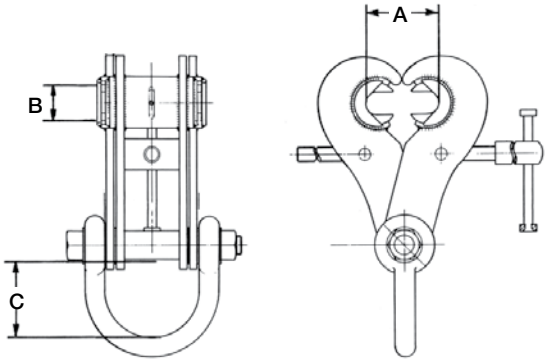
CLAMPS



Adjustable Double Ended Monorail Construction Clamps

- Designed to enable speedy erection of overhead runways
- Clamp ends are one piece, fully adjustable
- No tools required
- Positive grip left/right threaded adjustable bar
- "A" - series allows for minor height adjustment where required
- Ideal for fast erection of permanent or temporary overhead runway

MODEL	WLL at 0° Vertical Lbs	kg	**A** Jaw Grip Adjustment inch	**B** Jaw Aperture inch	Max. Ht. Adjustment	Average Weight Lbs
S7	6720	3048	3" - 7 1/2"	7/8"	-	20
S7A	6720	3048	3" - 7 1/2"	7/8"	1 1/4" 32	23
S8	8960	4064	6" - 10"	7/8"	-	41
S8A	8960	4064	6" - 10"	7/8"	1 1/4" 32	44

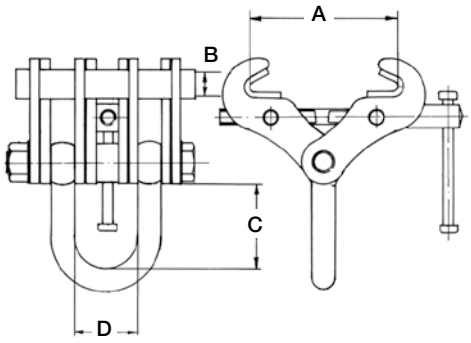


Swivel Jaw Adjustable Girder Clamps

- One piece adjustable design
- Used for lifting, pulling or as an anchor point
- Added benefit of horizontal jaw adjustment
- Full length/width of swivel jaw anchors on flange
- Integrated lifting shackle
- Positive grip left/right threaded adjusting bar

- **Approved for Personnel tie-off use***
- S5 not approved for side load

MODEL	* WLL at 0° Vertical Lbs	kg	**A** Jaw Grip Adjustment inch min-max	**B** Jaw Aperture inch	**C** Inside Shackle Crown to Spacer inch	Average Weight Lbs
S5	6720	3048	3 1/2" - 12"	1"	4"	22
S5A	6720	3048	3 1/2" - 12"	1"	4 1/2"	31
S6	11200	5080	3 1/2" - 12"	1"	4 1/2"	31
S6A	11200	5080	3 1/2" - 12"	1"	4 1/2"	33
S11	22400	10160	3 1/2" - 12"	1"	4 1/2"	47



Fixed Adjustable Girder Dog

- One piece adjustable design
- Used for lifting, pulling or as an anchor point
- Enhanced by balanced distribution of side plates
- Maximum grip, hold & safety
- No tools required
- Positive grip left/right threaded adjusting bar

- **Approved for Personnel tie-off use***

MODEL	WLL at 0° Vertical Lbs	kg	**A** Jaw Grip Adjustment inch	**B** Jaw Aperture inch	**C** Inside Shackle Crown to Spacer inch	**D** Inside Shackle Width inch	Average Weight Lbs
S15	44800	20320	8" - 18"	2"	8 1/8"	4 9/16"	144
S16	44800	20320	16" - 24"	2 1/2"	8 1/8"	4 9/16"	170
S17	56000	25400	8" - 18"	2"	8 1/8"	5 1/8"	166
S18	56000	25400	16" - 24"	2 1/2"	8 1/8"	5 1/8"	198
S19	67200	30480	8" - 18"	2 1/2"	8 1/8"	5 1/8"	203
S20	67200	30480	16" - 24"	3"	8 1/8"	5 1/8"	236

SUPERCLAMP™ Products Safety and Health

Suppliers are generally required to make available information relating to articles supplied to ensure that when you 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 the 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 damage 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 on completion of repair.

Unless we are informed at time of inquiry and order about 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 to Health and Safety to ensure that SUPERCLAMP products are only attached to structures, materials or 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 OSH 29CFR Part 1910, 1918, 1926 and ANSI B30 as applicable.

General Information

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

Each SUPERCLAMP product is proof tested to twice the Working Loads Limit, unless otherwise stated or required by authoritative recommendations. Tests to destruction ensuring a 5:1 factor of safety are employed throughout the design, development and manufacturing process of our products where required.

Guidelines for the Inspection and Safe Use of SUPERCLAMP™ Equipment

Inspection of SUPERCLAMP Equipment

General:

1) Follow all requirements of law, 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 Work Load Limit, serial numbers and other markings legible?
   - Have all inspections or tests been regularly recorded?

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 a suspended load.

4) SUPERCLAMP products are primarily 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 used at 0 degrees only, then NO side loading/ angle loading is permitted.

5) Never use a single clamp as a lifting point on a beam/girder. Always use two or more clamps to ensure a stable lift: use a spreader beam when applicable.

6) SUPERCLAMP products must not be attached to defective structure 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.

7) When selecting SUPERCLAMP products, ensure that the calculated working load limit requirement allows for any additional weight of equipment which may be suspended together with the original load to enable the lifting operation to take place.

8) Ensure that all mechanisms on SUPERCLAMP products are working freely before being used for the application intended.

9) Never replace worn components except with original SUPERCLAMP parts. Where products are fitted with replaceable jaws, incorporating teeth showing wear, it is strictly prohibited to recut or resharpen these. Cams or jaws incorporating teeth can be easily replaced with original SUPERCLAMP components from your approved SUPERCLAMP distributor.

10) Always ensure that repaired products are inspected and tested in accordance with the laws of your country prior to being released for operation.

11) Ensure that all persons using SUPERCLAMP equipment are properly trained in performing lifting operations and competently using this type of equipment.

12) If multipoint lifting operation 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.

13) Always ensure that parts are reassembled correctly after disassembly or repair.

14) Never throw or drop any SUPERCLAMP equipment as this may be hazardous or may cause injury to people or plant.

15) If in doubt about the suitability of SUPERCLAMP products for your application, contact your nearest distributor or the factory.

16) Your nearest SUPERCLAMP distributor will advise on applications if required.

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

SIDE LOADED ACROSS THE BEAM ONLY

CALCULATE APPROPRIATE LIFTING ANGLE TO ENSURE COMPLIANCE WITH SIDE LOADING CHART

Reduction In Working Load Limits When Side Loads Applied				
Angle From Vertical	0°	0° - 15°	15° - 30°	30° - 45°
Reduction Factor	NIL	17%	34%	50%
Models	WLL/lb	WLL/lb	WLL/lb	WLL/lb
S2A, S2AX, S5A	6,720	5,578	4,435	3,360
S3	8,960	7,437	5,914	4,480
S3X, S3A, S6A	11,200	9,296	7,392	5,600
S4S	13,440	11,155	8,870	6,720
S4A, S11	22,400	18,592	14,784	11,200
S12, 214	33,601	27,889	22,177	16,801
S15, S16	44,800	37,184	29,568	22,400
S17, S18	56,000	46,480	36,960	28,000
S19, S20	67,200	55,776	44,352	33,600

The above working load limits and deviations have been established specifically for most "s" type clamps and only in overhead beam attachment, i.e. do not apply if clamps are to be used for lifting beams. (The Universal SUPERCLAMP "USC" has been specifically designed for this purpose.) 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 applied to the beam by a competent person and fully hand tightened. If in doubt, contact the manufacturer for their recommendations.

SUPERCLAMP™ HEADROOM CHART

Measurement is taken from under side of beam to load bearing point of inner crown of shackle.

MODEL	ADJUSTMENT MIN	ADJUSTMENT MAX	HEADROOM AT MIN	HEADROOM AT MAX
S1	3	7.5	8.25	6.25
S2	3	7.5	8.5	7.5
S2A	3	7.5	9	8.5
S3	6	10	10.5	9.75
S3A	6	12	11.5	10.5
S3X	3	7.5	9.5	8.75
S4A	8	18	16	13.75
S4S	8	18	16	13.75
S5	3.5	12	11.75	8.75
S5A	3.5	12	12.25	9.25
S6	3.5	12	12.25	9.25
S6A	3.5	12	12.5	9.5
S7	3	7.5	8.5	7.5
S7A	3	7.5	8.5	7.5
S8	6	10	10.5	9.75
S8A	6	10	10.5	9.75
S11	3.5	12	13.5	11.5
S12	8	18	19.5	16.75
S14	16	24	22.25	19
S15	8	18	20.5	18.5
S16	16	24	22.5	19.25
S17	8	18	20.25	17
S18	16	24	22.75	19.75
S19	8	18	20.25	17
S20	16	24	22.75	20.25
BA1	2.5	8	9.75	8
BA2	3	8	9.75	8
BA3	3	8	9.75	8
B1	3	8	11	9.5
B2	4	12	14	12
B3	4	12	15	13
GBT1	3	8	11	9.5
GBT2	4	12	14	12
GBT3	4	12	15.75	13.75
GBT4	8	18	23	19.5
A1		8		9
A2		12		17
A3		12		19
PFC1	3	7.5	5.5	4.5
PFC2	3	7.5	5.5	4.5

SUPERCLAMP Specifications

The SUPERCLAMP Trade Mark is synonymous with excellence in practical design, effective safety and assured quality control. SUPERCLAMP products are engineered with the aim to provide safety, efficiency and durability.

Originally designed and internationally patented as a beam clamp, SUPERCLAMP products may be used for both hoisting and lifting applications. The line has been expanded to include Runway Beam Trolleys designed like the original SUPERCLAMP to be a one piece fully adjustable trolley. Recently, a new design, the Universal SUPERCLAMP was added to the line. This model is designed to be used at full rated capacity at angles up to 90 degrees in a 360 degree radius.

General Specifications

- Design exceeds 5:1 factor of safety. Periodic tests to destruction are performed to ensure this.
- Each unit is Proof Load Tested at 2:1, and comes with a Certificate of Test and Evaluation.
- Units are individually serial numbered to assist with traceability.
- Side plates are ASTM A588 steel.
- Lifting shackle is fully heat treated and normalized.
- All welding procedures are AWD D1.1 certified.
- Each unit is one piece, fully adjustable and includes attached lifting shackle.
- All trolleys include anti-drop plates as an integral part of the structure.
- Design is covered by U.S. and foreign patents.
- Clamp adjustability range and jaw size are designed to ensure optimum contact with the beam flange to ensure personnel and equipment safety.
- All designs meet or exceed existing codes and regulations, including ANSI/ASME B30.20, "Below the Hook Lifting Devices."
- Full Product Liability Insurance coverage is maintained.
- Manufacturing in the U.S.A.

In use in the Mining; On and Off Shore Mineral Exploration; General Maintenance and Construction industries; SUPERCLAMP continues to lead the way in safe lifting applications.

SUPERCLAMP Benefits and Advantages

Safety

A. There is no doubt that SUPERCLAMP as an anchor point offers probably the safest method of attaching and securing to an overhead girder or arch beam section.
B. Due to the design and engineering features of SUPERCLAMP, it will not slide, slip or shudder during the lifting operation.
C. SUPERCLAMP products are designed with a 5:1 Factor of Safety.
D. Each clamp is issued with a Certificate of Test and Examination.
E. SUPERCLAMP as a lifting tool either singularly or in pairs (i.e. in the lifting of spreader beams) is undoubtedly the safest means available.

Speed of Application

A. The left and right hand threaded bar means the SUPERCLAMP can easily be adjusted to facilitate application and can be hand tightened in a matter of seconds to give maximum positive hold.
B. Similarly the SUPERCLAMP can be disengaged "in seconds" without involving the user in any untidy and dangerous operation.
C. Before and after application, SUPERCLAMP remains a complete unit with no loose component parts. All component parts of SUPERCLAMP are an integrated and fixed part of its mechanical function.

Versatility

A. The tremendous adjustability of SUPERCLAMP means that very often one unit can be employed in various applications and situations where alternative methods involve up to three or more individual units. In short, one SUPERCLAMP replaces three of anyone else's.
B. SUPERCLAMP is sold into a worldwide range of industries with many varied applications: Wherever there is a lifting situation!

Cost Savings

We have a recertification program where the clamp can be returned to us to be repaired, load tested, and recertified. This is more cost effective and time efficient then replacing the clamp.

Quality and Reliability

SUPERCLAMP products are manufactured to the highest standards using the finest materials available:

- *High Tensile Steel:* Shackle, bolts, sideplates
- *Mild Steel:* Threaded bar, jaw assemblies

SUPERCLAMP products are easily stored in one piece and are readily available for maintenance and inspection.