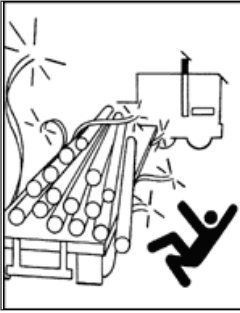


super
20 YEARS of
slings inc.
Secure Solutions

TRANSPORT CHAIN



Sling Protection
Web Slings
Round Slings
Synthetic Chain Slings
Wire Rope Slings
Chain Slings
Shackles & Turnbuckles
Hooks & Links
Lifting Points
Hoists & Blocks
Lifting Devices
Pipe & Hose Restraints
Tie Down Assemblies
Transport Chains
Towing & Recovery
Rope & Cordage



WARNING!

NEVER exceed the working load limit (WLL) of any load securement chain. The loading of any chain beyond its WLL can result in severe personal injury or death. The chain design factor is based on destructive, laboratory controlled testing conditions, which will not be exactly duplicated during actual loading conditions. **NEVER** use a load securement chain for lifting or hoisting applications. **NEVER** use load securement chain while standing on the load. **NEVER** repair or reshape a load securement chain by welding, heating or bending as this may affect the lashing capacity. **NEVER** side load the load securement chain, since load securement chain are suitable for in-line use only.

INSTRUCTIONS FOR COMPONENTS & FITTINGS

Components, such as hooks or shackles, should have at least the same working load limit (rated capacity) as the chain with which they are used. If not, the assembly shall be rated to the capacity of the weakest component. Super Slings offers a full line of fittings & components engineered specifically to be compatible with our load securement chain products.

WARNINGS AND CAUTIONS

- The use of chain is subject to certain hazards that cannot be met by mechanical or manufacturing means, but only by the exercise of intelligence, care, and common sense
- Do not exceed the working load limit of the chain or any component
- Chemically active environments may adversely affect chain and components. Do not use in highly acidic or caustic environments. Super Slings should be contacted if the chain will be exposed to chemically active environments during use
- High and low temperatures will affect chain and components. Super Slings should be contacted if temperatures below -20°F (-29°C) or above 400°F (200°C) will be experienced
- Chains used in load securement applications are subject to governmental regulations. Please follow all Federal, Provincial, State and/or Local or other applicable standards and regulations when using Super Slings products
- Never field weld or repair chain
- See other specific information under "Inspection and Proper Use"

INSPECTION

Regular inspections should be conducted on load securement chain to detect damage or deterioration from use. The chain should be inspected for any of the below conditions. If present, the chain should immediately be removed from service.

- Cracks in the chain or any component
- Excessive nicks or gouges
- Excessive wear. Chain should be removed from service if the thickness at any point on the link is below the value shown in the Chain Minimum Allowable Thickness chart. All other components should be removed from service if any dimension is worn by more than 10% from the original dimension
- Stretched, bent, twisted, or distorted chain links or components
- Excessive corrosion
- Evidence of heat damage
- Evidence of field welding or weld splatter
- Any condition which questions the integrity of the chain

PROPER USE

To protect the users and to prevent damage to the chain, the following safe practices should be followed:

- Select a chain suitable for the application and environment
- The hooks or other components should be of a size to fit the intended connections
- Avoid shock loading
- Pad all sharp edges or corners in contact with the chain
- Rig so that the load is properly seated in the hooks or other components. Avoid tip loading of hooks and side loading of chain and components
- Avoid twisting or kinking the chain
- Never knot chain

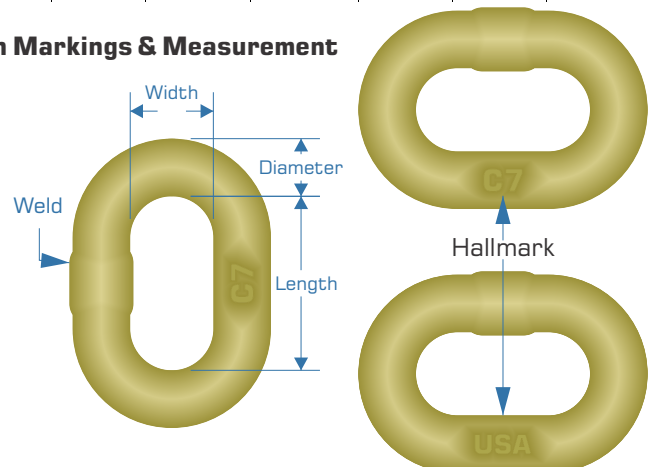
Purchasers please note that all "Warnings and Cautions" apply to chain as well as all components and fittings. Purchasers are responsible for conveying the "Warnings and Cautions," including the "Inspection" and "Proper Use" section information to the end user. Super Slings denies any liability for damage that results from use in excess of the working load limit or any abuse or misuse of the product.

Any questions concerning the use of Super Slings products may be directed to your Super Slings Sales representative.

Chain Minimum Allowable Thickness

Trade Size		Grade	Nominal Material Diameter		Min. Allowable Thickness	
[in]	[mm]		[in]	[mm]	[in]	[mm]
1/4-9/32	7.0	70	0.276	7.0	0.239	6.07
5/16	8.7	70	0.343	8.7	0.297	7.54
3/8	10.3	70	0.406	10.3	0.351	8.93
7/16	11.9	70	0.468	11.9	0.405	10.30
1/2	13.5	70	0.531	13.5	0.460	11.68
5/8	16.0	70	0.630	16.0	0.546	13.87

Chain Markings & Measurement



Grade 70 Chain

Grade 70 Transport Chain

Product details

Application

- Designed for Use in Load Binding, Towing, Logging and Other Applications Requiring High Strength
- Can Be Used in Accordance with Department of Transportation Regulations
- Standard Material: Heat Treated Carbon Steel
- Standard Finish: Zinc Electroplate with Yellow Chromate Conversion Coating
- Hallmarking: "C7" and "USA"
- Proof Tested
- Design Factor: 4 to 1
- Packaged in Half Drums, Order Unit is "Feet"
- Do Not Use for Overhead Lifting
- DO NOT EXCEED THE WORKING LOAD LIMIT



Trade Size	Item Code	Material Dia	Inside Length	Inside Width	Finish	WLL	Ft Per Drum	Links Per Foot	Weight Per Drum
	[in]	[in]	[in]	[in]		[lbs]	[ft]		[lbs]
1/4	09-14G7	0.31	0.94	0.46	Yellow	3,150	800	12.8	752
5/16	09-516G7	0.33	1.15	0.48	Yellow	4,700	550	10.4	561
3/8	09-38G7	0.40	1.36	0.57	Yellow	6,600	400	8.8	600
7/16	09-716G7	0.47	1.29	0.67	Yellow	8,750	300	9.3	636
1/2	09-12G7	0.53	1.70	0.75	Yellow	11,300	200	7.1	520

Grade 70 Chain Assemblies

Grade 70 Transport Chain

Product details

Application

Grade 70 chain was designed specifically to provide a light yet strong chain for tie downs. Made from heat treated carbon steel and zinc plated gold chromate for corrosion resistance. Made to NACM standards per specifications of the FMCSA & CCMTA for tie down use. All clevis hooks are made of heat treated alloy steel.



Trade Size	Item Code	Assembly Length	Finish	WLL	Weight Ea.
[in]	[ft] [lbs]	[lbs]			
5/16	67-516X16GH	16	Yellow	4,700	17.4
5/16	67-516X20GH	20	Yellow	4,700	21.7
3/8	67-38X16GH	16	Yellow	6,600	24.4
3/8	67-38X20GH	20	Yellow	6,600	30.4
1/2	67-12X20GH	20	Yellow	11,300	53.6

Other Sizes, lengths and configurations are available upon request

WARNING: NEVER EXCEED WORKING LOAD LIMIT!

Failure to follow instructions can result in serious property damage, injury or death!
For full user manual please visit www.superslings.ca

Grade 70 Clevis Slip Hooks w/ Latch

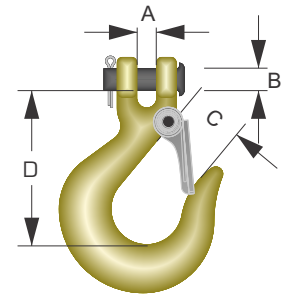
Grade 70 Transport Hardware

Product details

Application

- For use with Grade 70 or lower grade chains only
- Gold Chromated body with 'black pin'

Trade Size	WLL	Dimensions				Weight	Item Code
[in]	[lbs]	A	B	C	D	[lbs]	
1/4	2,750	0.43	0.38	0.98	2.52	0.65	49-14ASH
5/16	4,300	0.51	0.43	1.10	2.82	0.92	49-516ASH
3/8	5,250	0.58	0.47	1.33	3.22	1.32	49-38ASH
7/16	7,000	0.67	0.54	1.61	3.69	2.07	49-716ASH
1/2	9,000	0.76	0.62	1.74	3.99	2.90	49-12ASH



Grade 70 Clevis Slip Hooks w/o Latch

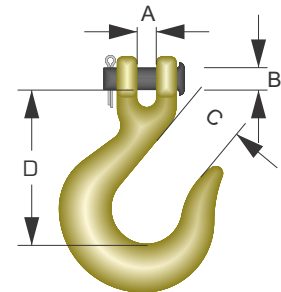
Grade 70 Transport Hardware

Product details

Application

- For use with Grade 70 or lower grade chains only
- Material: Forged Alloy Steel, Quenched & Tempered
- Standard: EN 12195-3
- Finish: Gold Chromated
- Design Factor: 4:1
- Identification: Trademark, Size/WLL, Batch Code, G70

Trade Size	WLL	Dimensions				Weight	Item Code
[in]	[lbs]	A	B	C	D	[lbs]	
1/4	2,750	0.43	0.38	0.98	2.52	0.65	49-14ASH
5/16	4,300	0.51	0.43	1.10	2.82	0.92	49-516ASH
3/8	5,250	0.58	0.47	1.33	3.22	1.32	49-38ASH
7/16	7,000	0.67	0.54	1.61	3.69	2.07	49-716ASH
1/2	9,000	0.76	0.62	1.74	3.99	2.90	49-12ASH



Grade 80 Clevis Grab Hooks w/o Cradle

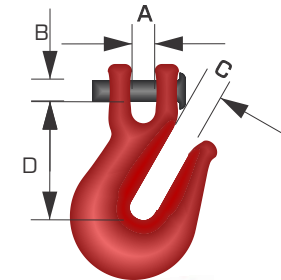
Grade 80 Transport Hardware

Product details

Application

- For use with Grade 80 or lower grade chains only
- Material: Forged Alloy Steel, Quenched & Tempered
- Finish: Painted Red
- Design Factor: 4:1
- Identification: Trademark, Size/WLL, Batch Code, G80

Trade Size	WLL	Dimensions				Weight	Item Code
[in]	[lbs]	A	B	C	D	[lbs]	
3/8	7,100	0.47	0.47	0.50	2.61	1.10	HKCG-38G8
1/2	12,000	0.76	0.62	0.67	3.13	2.34	HKCG-12G8



WARNING: NEVER EXCEED WORKING LOAD LIMIT!

Failure to follow instructions can result in serious property damage, injury or death!
For full user manual please visit www.superslings.ca

Sling Protection
Web Slings
Round Slings
Synthetic Chain Slings
Wire Rope Slings
Chain Slings
Shackles & Turnbuckles
Hooks & Links
Lifting Points
Hoists & Blocks
Lifting Devices
Pipe & Hose Restraints
Tie Down Assemblies
Transport Chains
Towing & Recovery
Rope & Cords

Grade 70 Clevis Grab Hooks

Grade 70 Transport Hardware

Product details

Application

- For use with Grade 70 or lower grade chains only
- Gold Chromated body with 'black pin'

Trade Size	WLL	Dimensions				Weight	Item Code
		A	B	C	D		
[in]	[lbs]					[lbs]	
1/4	3,150	0.36	0.38	0.39	1.97	0.46	49-14AGH
5/16	4,700	0.38	0.44	0.43	2.28	0.75	49-516AGH
3/8	6,600	0.47	0.47	0.50	2.61	1.10	49-38AGH
7/16	8,800	0.67	0.55	0.58	2.79	1.53	49-716AGH
1/2	11,300	0.76	0.62	0.67	3.13	2.34	49-12AGH

Grade 70 Clevis Grab Hooks w/ Latch

Grade 70 Transport Hardware

Product details

Application

- For use with Grade 70 or lower grade chains only
- Gold Chromated body with 'black pin'

Trade Size	WLL	Dimensions				Weight	Item Code
		A	B	C	D		
[in]	[lbs]					[lbs]	
1/4	3,150	0.36	0.38	0.39	1.97	0.49	49-14AGH/L
5/16	4,700	0.38	0.44	0.43	2.28	0.85	49-516AGH/L
3/8	6,600	0.47	0.47	0.50	2.61	1.30	49-38AGH/L
1/2	11,300	0.76	0.62	0.67	3.13	2.54	49-12AGH/L

Weld-On Grab Hooks

Transport Hardware

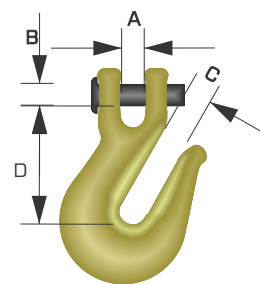
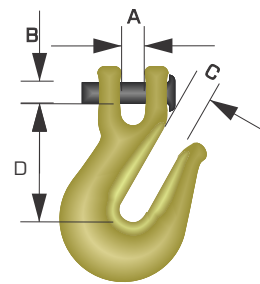
Product details

Application

Weld-On Grab Hooks are designed to be welded onto equipment for a quick and easy chain attachment point.

- Minimum Design Factor 3:1
- Size and Grade marked on each hook
- Weld-On components must be installed by certified welder

Trade Size	WLL	Weight	Item Code
[in]	[lbs]	[lbs]	
5/16	4,700	0.46	12-B2408W
3/8	6,600	0.80	12-B2408W375
1/2	11,300	1.80	12-B2408W50
5/8	15,800	2.50	12-B2408W675



WARNING: NEVER EXCEED WORKING LOAD LIMIT!
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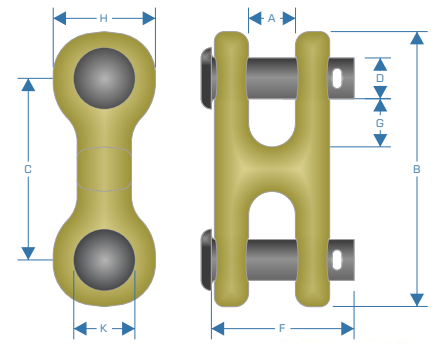
Grade 70 Twin Clevis

Grade 70 Transport Hardware

Product details

Application

- Not for overhead lifting - Not for grade 80 or grade 100 material
- Material: Body: Heat Treated Carbon Steel, Pins: Alloy Steel
- Standard: EN 12195-3
- Finish: Zinc & Painted
- Design Factor: 4:1



Chain Size	WLL	Dimensions [in]								Item Code	Weight		
		A	B	C	D	F	G	H	K				
	[lbs]												[lbs]
1/4-5/16	4700	0.47	2.50	1.56	0.38	1.31	0.43	0.94	0.50	75-1012861	0.47		
3/8	6600	0.53	2.81	1.81	0.44	1.53	0.50	1.00	0.56	75-1012889	0.53		
7/16-1/2	11300	0.65	3.62	2.31	0.56	1.91	0.63	1.31	0.81	75-1012905	0.65		



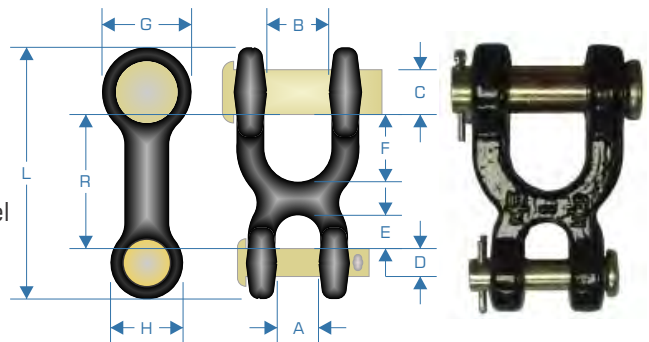
Grade 70 Double Clevis

Grade 70 Transport Hardware

Product details

Application

- Not for overhead lifting - Not for grade 80 or 100 material
- Material: Body: Heat Treated Carbon Steel, Pins: Alloy Steel
- Standard: EN 12195-3
- Finish: Zinc & Painted
- Design Factor: 4:1



Chain Size	WLL	Dimensions [in]												Weight	Item Code	
		A	B	C	D	E	F	G	H	L	N	P	R			
	[lbs]															
1/4	2600	0.50	0.75	0.50	0.31	0.38	0.75	1.00	0.81	2.81	1.38	1.66	1.50	0.38	75-1013021	
5/16-3/8	5400	0.56	1.00	0.63	0.44	0.47	1.00	1.19	1.00	3.53	1.75	2.25	1.91	0.81	75-1013049	
7/16	7200	0.69	1.13	0.69	0.56	0.59	1.09	1.31	1.19	4.06	2.00	2.50	2.19	1.25	75-1013067	
1/2	9200	0.81	1.25	0.75	0.63	0.68	1.25	1.44	1.31	4.53	2.25	2.75	2.47	1.56	75-1013085	

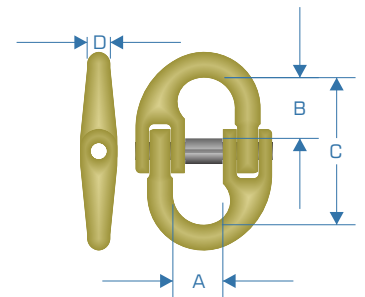
G70 Cargo Connecting Link

Grade 70 Transport Hardware

Product details

Application

G70 Coupling Links are used to connect cargo hooks, cargo chain, and other cargo components. Coupling links are forged in yellow-zinc and used as cargo links designed for load hauling or load securement. Design Factor: 4:1



Chain Size	Finish	Dimensions				Quantity Per Pkg.	Weight	Working Load Limit	
		A	B	C	D			[lbs]	[kgs]
[in]							[lbs]	[kgs]	
1/4	Yellow Zinc	0.58	0.70	1.80	0.38	5	0.28	3,150	1,429
5/16	Yellow Zinc	0.63	0.90	2.25	0.4	5	0.58	4,700	2,132
3/8	Yellow Zinc	0.88	1.00	2.65	0.51	5	0.75	6,600	2,994
1/2	Yellow Zinc	1	1.45	3.40	0.63	5	1.60	11,300	5,127
5/8	Yellow Zinc	1.33	1.75	4.10	0.75	5	2.50	15,800	7,166



WARNING: NEVER EXCEED WORKING LOAD LIMIT!

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Lashing Rings

Transport Hardware

Product details

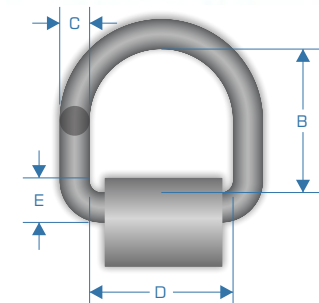
Application

Rugged forged steel D-Rings add versatility for securing complex loads. Utility trailers typically use 1/2 and 5/8 inch models, while heavy-duty applications rely on the 3/4 and 1-inch sizes. Individually polybagged.

- Design Factor 3:1
- MBS & Diameter marked on each D-Ring
- Weld-On brackets must be installed by certified welder

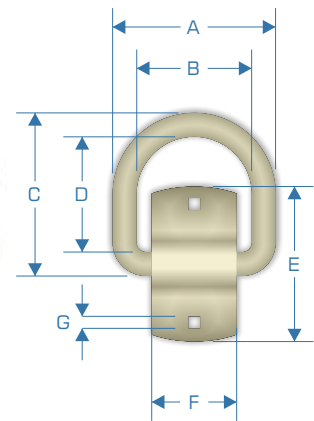
Weld-On Lashing Ring

Trade Size	WLL	Dimensions					Weight	Item Code
		A	B	C	D	E		
[in]	[lbs]						[lbs]	
1/2	4,000	2.25	2.50	0.50	1.76	0.61	1.00	12-12LR
5/8	6,300	3.00	3.00	0.63	2.48	0.92	1.87	12-58LR
3/4	9,000	3.00	3.00	0.75	2.48	1.00	2.60	12-34LR
1	15,600	3.00	3.00	1	2.52	1.21	4.29	12-1LR



Bolt-On Lashing Ring

Item Code	WLL	Dimensions (in)							Weight ea.
		A	B	C	D	E	F	G	
	(lbs)								(lbs)
12-12LRB	4,000	3.38	2.38	3.50	2.50	1.43	2.00	0.37	0.93



Weld-On C & J Hooks

Transport Hardware

Product details

Application

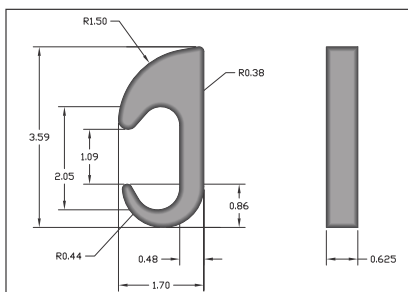
All C and J hooks are flame cut from 5/8" steel. They are designed to fit flat on truck trailer side frames for easy welding and will accept D-rings, web loops, cable or rope.

Working Load Limit: 6,670 lbs./3032 kgs.

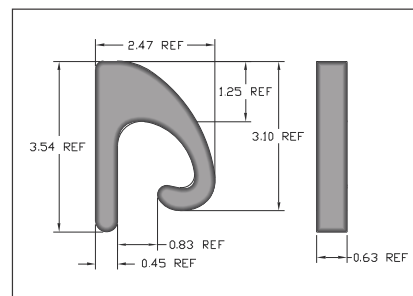
Weld-On components must be installed by certified welder. Note: Strength is dependent upon the and integrity of the weld.

Minimum welding requirements are 1/4" fillet weld around entire contact surface, and 1/8" penetration.

10002 – Standard C



10004 – Special J



Specialty Hooks

G43-G70 15 Eye Tow Hook with Link: 15" Tow Hook

Details

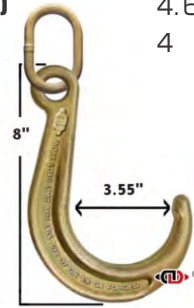
Item Code:	HKTOW-J15-EL
Grade	G43-G70
Work Load Limit (Lb.)	4,700 – 5,400
Length w/ Out Links	15"
Product Finish	Gold Zinc
w/ Welded Link Size (I.D.)	0.44 x 2 x 1.1(IN)
Hook Designed For	Full Size Car; Van; Pick-Up
Weight Each (Lb.)	4.6
Qty Per Box	4



G43-G70 15 Eye Tow Hook with Link: 15" Tow Hook

Details

Item Code:	HKTOW-J8-EL
Grade	G43-G70
Work Load Limit (Lb.)	4,700 – 5,400
Length w/ Out Links	8"
Product Finish	Gold Zinc
w/ Welded Link Size (I.D.)	0.44 x 2 x 1.1(IN)
Hook Designed For	Full Size Car; Van; Pick-Up
Weight Each (Lb.)	4.6
Qty Per Box	4



Forged G,T and J Hook Cluster GTJ Hook

Details

Item Code:	HK-GTJ
Work Load Limit (Lb.)	4,000
Min. Break Strength (Lb.)	14,000-19,000
Weight Each (Lb.)	3
Qty Per Box	10



Forged R,T and Formed J Hook Cluster RTJ Hook

Details

Item Code:	HK-RTJ
Work Load Limit (Lb.)	4,000
Min. Break Strength (Lb.)	14,000-16,500
Weight Each (Lb.)	2.2
Qty Per Box	10



Forged 5/16" G7 – 3/8" G4 Mini J-Hook w/ 5/8" Hole Diameter

Details

Item Code:	HK-J-Mini
Grade:	5/16" G-70, 3/8" G-40
Work Load Limit (Lb.):	5,400
Min. Break Strength (Lb.)	19,000
Weight Each (Lb.)	0.8
Qty Per Box	20



3/8" Grab Hook Assembly w/ Pear Link

Details

Item Code:	49-38GHA
Work Load Limit (Lb.)	5,400
Min. Break Strength (Lb.)	16,200
Weight Each (Lb.)	1.6
Qty Per Box	10



Sling Protection
Web Slings
Round Slings
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Wire Rope Slings
Chain Slings
Shackles & Turnbuckles
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Hoists & Blocks
Lifting Devices
Pipe & Hose Restraints
Tie Down Assemblies
Transport Chains
Towing & Recovery
Rope & Cordage

Lift it up, Tie it down, Pull it around

Load Binders



WARNING!

Never exceed the working load limit (WLL) of any load binder. The loading of any load binder beyond its WLL can result in severe personal injury or death. The load binder design factor is based on destructive, laboratory controlled testing conditions, which will not be exactly duplicated during actual loading conditions. **NEVER** use load binder for lifting or hoisting applications. **NEVER** use load binder while standing on the load. **NEVER** repair or reshape a load binder by welding, heating or bending as this may affect the lashing capacity. **NEVER** side load the load binder, since load binders are suitable for in-line use only. **NEVER** use handle extensions, always hand tighten only.

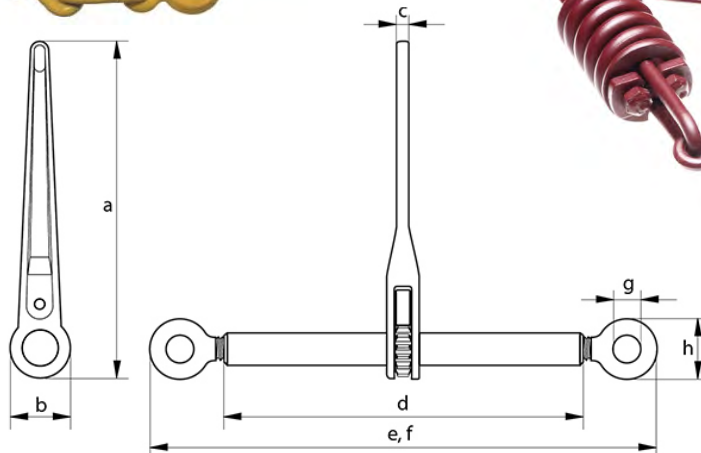


TYPES OF BINDERS

Lever Binders: A mechanical lever device designed to tighten chain for securing a load. This device is such that it stores kinetic energy in the handle.



Low Energy Release Lever Binders: A mechanical lever device designed to tighten chain for securing a load. This device is such that it stores kinetic energy in the body of the binder, such as a cam, so that the handle does not store and release kinetic energy.



Ratchet Binders: A mechanical device designed to tighten chain for securing a load. Due to having a gear, pawl, handle, and end fittings that screw in or out, it does not store as much energy in the handle as a lever binder does.



Compression Binder: A metal or rubber spring device that is used with a lever or ratchet binder to maintain tightness of chain. Specifically recommended when transporting equipment with tires which can compress due to bumps in the road resulting in the chain becoming slack and thus the potential for disengagement.



- Sling Protection
- Web Slings
- Round Slings
- Synthetic Chain Slings
- Wire Rope Slings
- Chain Slings
- Shackles & Turnbuckles
- Hooks & Links
- Lifting Points
- Hoists & Blocks
- Lifting Devices
- Pipe & Hose Restraints
- Tie Down Assemblies
- Transport Chains
- Towing & Recovery
- Rope & Cordage

RECOMMENDED OPERATING PRACTICES

Proper Selection:

- All users must be trained in proper tie down selection, use and inspection, cautions to personnel, environmental effects, all applicable standards, regulations and tie down practices.
- Select a binder having suitable characteristics for the specific load and the securement required. In order to achieve the required assembly working load limit (WLL), the hook, chain, load binder and the anchor point must be evaluated. The component with the lowest "WLL" shall be used to determine the assembly WLL for the entire tie down assembly.
- If the WLL or grade identifier of any of the three tie-down assembly components (excluding anchor points) is worn off, illegible, or missing, that product shall be removed from service.

Use and Care

- Binders shall not be loaded in excess of the WLL as provided by the manufacturer.
- Handle extensions (cheater bars) should not be used on any binders. Binders develop approximate WLL tension with hand effort.
- Before operating any binder the user shall secure their footing on the ground to prevent slipping or falling. In adverse weather conditions, including freezing temperatures, additional caution should be exercised.
- Binders should be matched with the equivalent grade of chain. Using the wrong grade of binder or chain may reduce the assembly WLL of the securement system.
- Lever binders shall always be released using an open hand with all body parts completely out of the path that the handle travels.
- Binders should be periodically checked and adjusted during transit to maintain proper tension. See 393.9 in FMCSA regulations.
- Binders designed for load securement are not approved for overhead lifting applications. Products for lifting require certification.
- Handle extensions (cheater bars) shall not be used on any binders.
- Regulations require each tie down to be attached and secured in a manner that prevents it from becoming loose, unfastened, opened, or released while vehicle is in transit. Latches, chain wrap and/or other means should be used to secure binders and chain.

Environmental Considerations

- Binders are subject to dirt, mud, snow, ice, road salt, cleaning solutions, etc. Binders should be periodically inspected, cleaned, and lubricated as needed to insure proper operation.
- Binders not in use should be stored in a clean, dry location.
- If binders have mud, snow, ice, etc in the gear or pivot points, drop forged binders may be struck with a hammer to break loose and remove any foreign material. Care should be taken with binders manufactured with cast parts as striking with a hammer, especially in sub-freezing temperatures, may cause breakage.

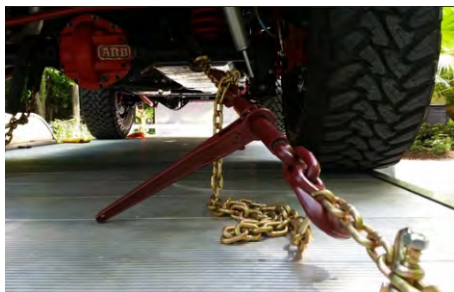
Inspection

- Type of Inspection
- Initial Inspection shall be made before a binder is placed into service to insure the binder is being used for the application and that it matches the chain grade being used.
- Each time a binder is used it shall be inspected.

Removal from Service

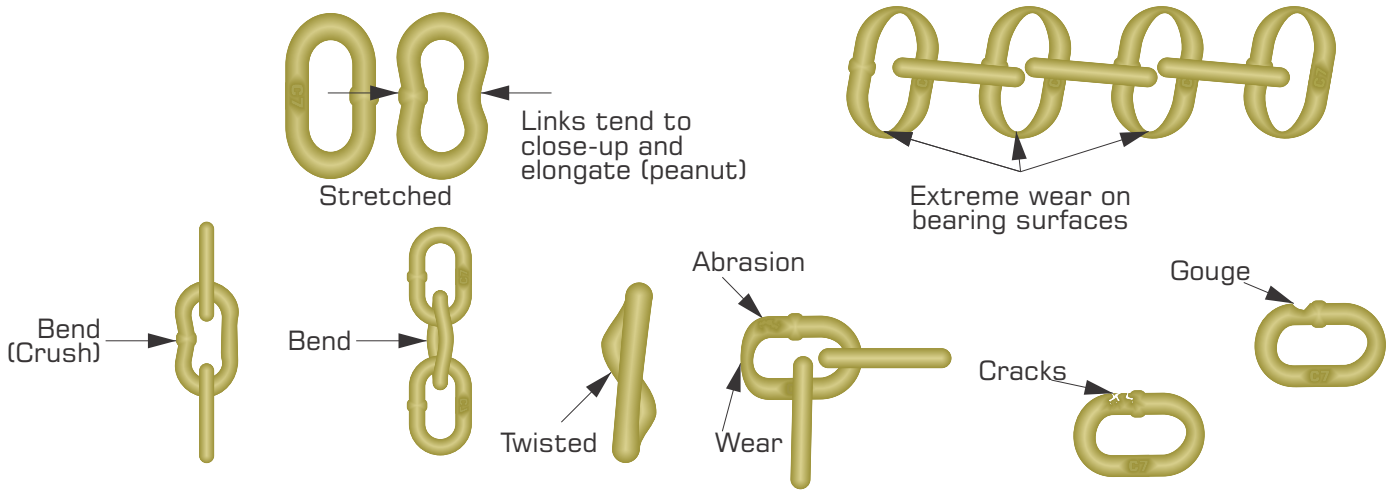
A binder shall be removed from service if any of the following conditions exist (and as per any and all CVSA removal from service criteria):

- Hooks are worn, bent, distorted, twisted, stretched or cracked (ref. ASME B30.10)
- Links are bent, gouged, distorted, stretched, cracked or worn ((see wear allowances per manufacturer, also specifications for wear on chain (links) and hooks can be found in ASME B30.9 section 9-1.9.4, (Table 6) and the NACM Welded Steel Chain Specifications Table XVI. These and all manufacturer's specifications shall be followed.
- No welding on any component is allowed with the exception of the initial factory production welds on the components during assembly.
- Clevis on pivot is worn, bent, distorted, or cracked.
- Pawl does not engage.
- Gear is worn, chipped, or cracked.
- Markings are missing, incomplete, illegible, or incorrect.
- Excessive rust.
- End fitting threads are worn, bent, distorted or will not turn.
- Bent or deformed handle.
- Swivel sockets and or ball worn or deformed.

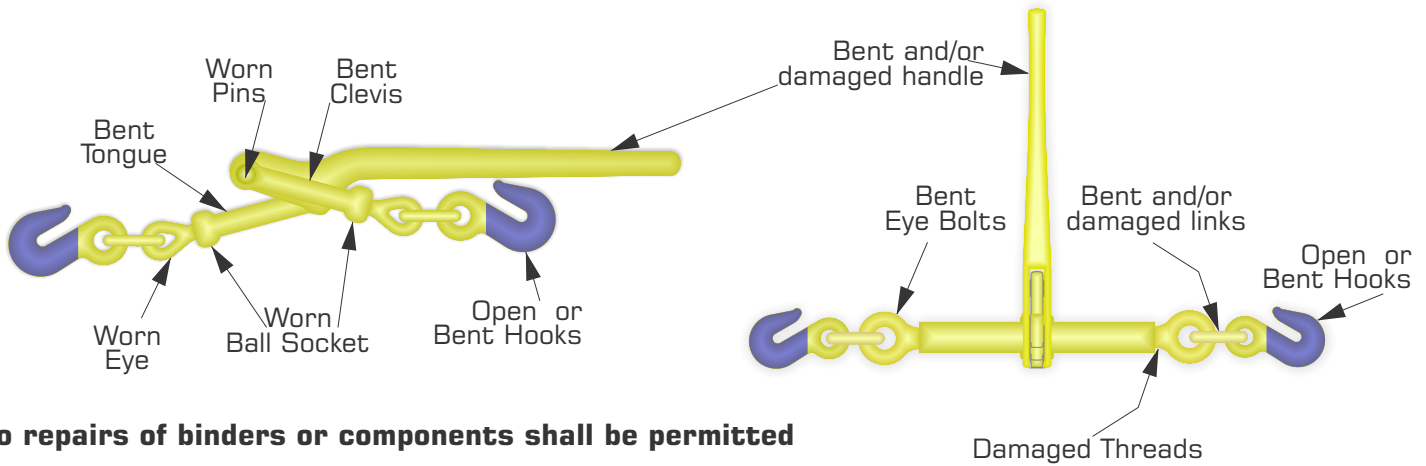


Lift it up, Tie it down, Pull it around

NORTH AMERICAN UNIFORM OUT-OF-SERVICE CRITERIA FOR CHAIN LINKS AND LOAD BINDERS



OBVIOUSLY DISTORTED OR STRETCHED LOAD BINDERS AND FITTINGS



No repairs of binders or components shall be permitted

STANDARDS REFERENCE

Section 5.1 Chain National Association of Chain Manufacturers'Welded Steel Chain Specifications, November 15, 1999, Amended: April 11, 2010.

Section 5.2 Binder Federal Specification , Binder, Load GGG-B-00325C (ME) Dated 7 July 1987 (Canceled 28 May, 1999)

Section 5.3 FHWA Federal Highway Administration FHWA-MCRT-98-005 October 1998

Section 5.4 FMCSA Federal Motor Carrier Safety Administration Section 393.100 of the FMCSA regulation handbook.

Section 5.5 ASME The American Society of Mechanical Engineers B30.9 -2010 (section 9-1.9.4, (Table 6)

Section 5.6 CVSA Commercial Vehicle Safety Alliance - North American Standard Out of Service Criteria April 1, 2006



- Sling Protection
- Web Slings
- Round Slings
- Synthetic Chain Slings
- Wire Rope Slings
- Chain Slings
- Shackles & Turnbuckles
- Hooks & Links
- Lifting Points
- Hoists & Blocks
- Lifting Devices
- Pipe & Hose Restraints
- Tie Down Assemblies
- Transport Chains
- Towing & Recovery
- Rope & Cordage

Sling Protection
Web Slings
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Transport Chains
Towing & Recovery
Rope & Corgage

QuickBinder™ Ratchet Loadbinder

Ratcheting LoadBinder

Product details

Application

The QuikBinder™ offers higher working load limits than standard ratchet load binders, and is designed for use with either Grade 70 Transport, Grade 80, or Grade 100 Alloy tie-down chains

- Easier to install than standard ratchet load binders
- 3-position pawl offers the user a choice of ratchet extension, ratchet take-up or a “free spin”
- Available in three sizes
- Vinyl coated barrel for a strong, comfortable grip
- Folding handle offers additional safety
- Can be locked to the tie-down chain with a long shank padlock
- Meets all DOT/CVSA/CCMTA requirements
- Working Load Limit permanently marked on handle



Chain Grade & Size			Take Up	Handle Length		Qty Per Pkg	Weight Per Pkg	Working Load Limit		Item Code
G70	G80	G100	[in]	Folded	Straight		[lbs]	[lbs]	[kgs]	
5/16 - 3/8	5/16 - 3/8	5/16	6.00	9.50	13.90	4	46	7,100	3,220	H5125-0658
3/8 - 1/2	3/8 - 1/2	3/8	6.00	9.50	13.90	4	56	12,000	5,443	H5125-0858
1/2 - 5/8	1/2 - 5/8	1/2	6.00	9.50	13.90	2	37	18,100	8,210	H5125-0958

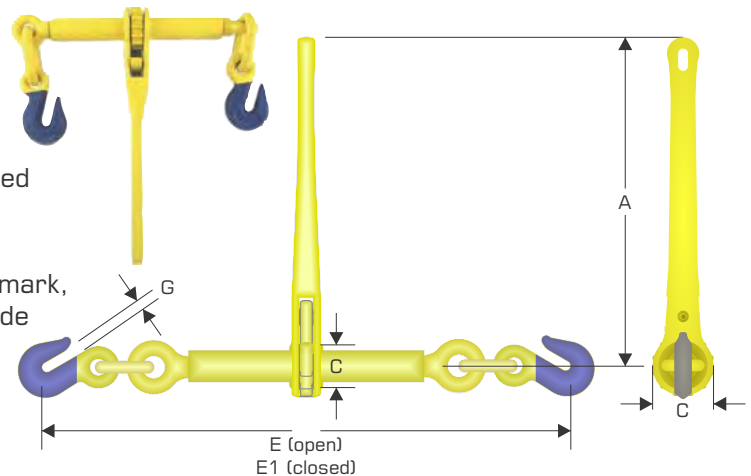
Ratchet Loadbinder Grade 100 - HS

Ratcheting LoadBinder

Product details

Application

- Matches the Working Load Limit of Grade 100 Chain for both sizes
- Material: Forged Steel, Quenched & Tempered
- Standard: EN 12195-3, WSTDA-T-6
- Finish: Powder Coated Yellow & Blue
- Design Factor: 3:1
- Identification: Trademark, Size/WLL, Batch Code



Chain Size	WLL	Net Weight	Dimension (in)					Qty/Bx	Item Code
(in)	(lbs)	(lbs)	A	C	E1	E	G		
5/16-3/8	8,800	10.95	13.98	2.56	23.54	29.88	0.50	4	12-H5121-4158
3/8-1/2	15,000	11.69	13.98	2.56	24.75	30.95	0.65	5	12-H5121-4258

WARNING: NEVER EXCEED WORKING LOAD LIMIT!

Failure to follow instructions can result in serious property damage, injury or death!
For full user manual please visit www.superslings.ca

Safety Release Lever Loadbinders

Low Energy Release Lever Type LoadBinder

Product details

Application

This binder design allows the user to release the binder tension without any kickback of the handle typical of a lever style binder. The center body of the binder independently rotates, free of the handle, to release the tension smoothly and easily. This eliminates the chance for injuries from the handle swinging with substantial force when released.

The safety release handle makes this loadbinder less dangerous than other lever style loadbinders on the market today.



Chain Grade & Size		Take Up	Handle Length	Qty Per Pkg	Weight Per Pkg	Working Load Limit		Item Code
G70	G43	[in]	[in]		[lbs]	[lbs]	[kgs]	
5/16	3/8	4.00	13.00	4	39	6,600	2,994	H5250-0658
3/8	1/2	4.75	17.24	4	58	9,200	4,173	H5250-4252

Lever Loadbinders

Lever Type LoadBinder

Product details

Application

Standard Lever Loadbinders are used to anchor cargo when transporting on a trailer. Special hook construction supports the load of the load binder chain and will not bind. Standard lever load binders are heat treated, proof tested with forged heat treated hooks and working load limit is permanently marked on handle. All lever loadbinders feature special links with controlled flash welds and are painted with yellow, powder coat enamel.

Chain Grade & Size		Take Up	Handle Length	Qty Per Pkg	Weight Per Pkg	Working Load Limit		Item Code
G70	G43	[in]	[in]		[lbs]	[lbs]	[kgs]	
5/16	3/8	4	15.75	6	48	5,400	2,449	H5225-4152
3/8	1/2	4.75	17.35	6	76	9,200	4,173	H5225-4252



Mini Loadbinders

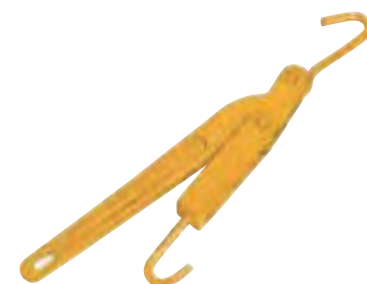
Lever Type LoadBinder

Product details

Application

Yellow Mini Load Binders are made from forged steel and used with cable, chain or rope. The Mini Binder handle is 9.05 inches, a 1.85 inch take up length and working load limit of 250 pounds.

Take Up	Handle Length	Qty Per Pkg	Weight Per Pkg	Working Load Limit		Item Code
[in]	[in]		[lbs]	[lbs]	[kgs]	
1.85	9.05	12	20	250	113	H5027-0352



WARNING: NEVER EXCEED WORKING LOAD LIMIT!
 Failure to follow instructions can result in serious property damage, injury or death!
 For full user manual please visit www.superslings.ca

- Sling Protection
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- Synthetic Chain Slings
- Wire Rope Slings
- Chain Slings
- Shackles & Turnbuckles
- Hooks & Links
- Lifting Points
- Hoists & Blocks
- Lifting Devices
- Pipe & Hose Restraints
- Tie Down Assemblies
- Transport Chains
- Towing & Recovery
- Rope & Cordage

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Lifting Points
Hoists & Blocks
Lifting Devices
Pipe & Hose Restraints
The Down Assemblies
Transport Chains
Towing & Recovery
Rope & Cordage



WARNING!

NEVER exceed the working load limit (WLL) of any Tycan® Lashing chain. The loading of any chain beyond its WLL can result in severe personal injury or death. The chain design factor is based on destructive, laboratory controlled testing conditions, which will not be exactly duplicated during actual loading conditions. **NEVER** use a Tycan® Lashing chain for lifting or hoisting applications. **NEVER** use Tycan® Lashing chain while standing on the load. **NEVER** repair or reshape a Tycan® Lashing chain by welding, heating or bending as this may affect the lashing capacity. **NEVER** side load the Tycan® Lashing chain, since load securement chain are suitable for in-line use only.

Green Pin Tycan® has been created from the world's strongest man-made fibre, Dyneema®, and is a link chain that has all the performance and flexibility of steel chain but is a fraction of the weight. It is very safe to use, non-corrosive and waterproof. In fact, it even floats! The soft touch and light weight makes Green Pin Tycan® easy to use, allows quicker application and greatly reduces the potential of damage to cargo, a critical factor when handling objects with sensitive surfaces. By using Green Pin Tycan® companies achieve greater efficiency and a safer working environment for their staff.

Quality assurance

- Every chain length is proof load tested to 2 times Working Load Limit (WLL).
- Visual inspection is carried out on each chain link to detect possible defects.
- A 5-link sample of every 1000 meters (0.62 miles) produced is tested to destruction to confirm MBL.
- Green Pin Tycan® has a DNV GL Type Approval.
- Declaration of conformity to the Machinery Directive 2006/42/EC with relevant CE marking.

Where and how can Green Pin Tycan® Lifting Chain be used

- Green Pin Tycan® Lifting Chain is a general purpose lifting chain that can be used within the limits as set forth in this user manual.
- Green Pin Tycan® Lifting Chain can be used in min/max environmental temperatures, but should not be exposed to temperatures above +70°C (158°F).
- Green Pin Tycan® Lifting Chain is able to lift loads safely only up to the designated WLL, but never exceeded.
- Green Pin Tycan® Lifting Chain is able to lift loads safely only when the relevant load reduction factor is taken into account. Do not exceed the WLL.
- Green Pin Tycan® Lifting Chain can be used on land, at sea and in a subsea environment.
- Green Pin Tycan® Lifting Chain should be used under static or near-static conditions.

Verification before first use

Before first use of Green Pin Tycan® Lifting Chain it should be ensured 'that':

- Green Pin Tycan® Lifting Chain meets the exact requirements specified in the order.
- The valid manufacturer certificate and CE declaration are available for examination and/or verification.
- Ensure that manufacturer's label(s) are present and legible and that the label(s) contain the same information as the manufacturer's certification.
- The users of the sling have received appropriate instruction and training.

Verification before each use

- Check Green Pin Tycan® Lifting Chain for any damage, defects or missing ID tags prior to each use. Never use damaged Green Pin Tycan® Lifting Chain.
- Connect Green Pin Tycan® Lifting Chain to recommended components as mentioned further in this manual or to certified components with a maximum surface roughness of 5 microns and adhering to below values:

Material:

Made with 100% Dyneema®; layers of webbing in a Mobius twist with stitching on each side

Safety Factor:

MBL equals 2 x Lashing Capacity

Temperature Range:

-60°C (-76°F) up to +70°C (158°F)

Certification:

2.1 2.2 MTC^b DNV-GL TQ CE



link size	lifting capacity	minimum pin diameter	minimum clevis width	maximum clevis width
mm	t	mm	mm	mm
11x15	5.2	13	15.5	18
11x20	8	16	20.5	24
15x25	10	16	26	31
13x30	13.6	20	31	37






- Green Pin Tycan® Lifting Chain must be inspected before each use and if any damage is detected removed from service. See Inspection and Removal from Service Criteria.
- Ensure that Green Pin Tycan® Lifting Chain is rigged according to the load, the planned lift and according to the boundary conditions set forth in the user manual.
- Ensure load reduction factors are calculated and planned for according to charts and tables further in this manual.
- Use Green Pin Tycan® Lifting Chain only with a minimum number of 5 load bearing links per sling leg.

Other remarks

- A limited twist of 0.50 turns per meter (per 3.28 feet) is allowed.
- Keep Green Pin Tycan® Lifting Chain away from any sharp particles, such as metal shavings, and any foreign particle that may disturb the chain's geometry during operation. If such particles are present on the chain, inspect the chain and remove such particles gently before any use of the chain.
- Green Pin Tycan® Lifting Chain is generally resistant to chemicals, except oxidizing chemicals, avoid contact from damaging chemicals and/ or consult with a Qualified Person.
- Green Pin Tycan® Lifting Chain should be kept away from direct heat sources.
- In case a dynamic loading situation is to be expected, the load or WLL should be adjusted accordingly local regulations.

Lift it up, Tie it down, Pull it around

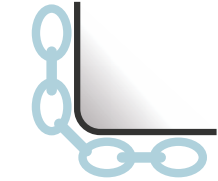
Recommended products for use with Green Pin Tycan®

		5.2 WLL	8 WLL	13.6 WLL	10 WLL
Master links		UMS18 UMTS22	UMS22 UMTS28	UMS22 UMTS28	UMS25 UMTS36
Connecting links		GPUMJT15	GPUMJT20	UMJ13	GPUMJT30
Shorteners		GPUCRCT15	GPUCRCT20	GPUCRCT25	GPUCRCT30
Chain		FCHLIFT115	FCHLIFT120	FCHLIFT1525	FCHLIFT1330
Hooks		GPUCSCT15	GPUCSCT20	GPUCSCT25	GPUCSCT30

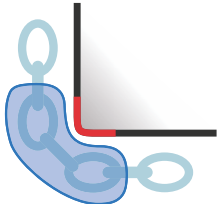
Always take into account; the maximum load of the configuration is limited by the component with the lowest WLL. The recommended components in combination with Green Pin Tycan® Lifting Chain are approved to use up to the chain WLL.

Instructions for use

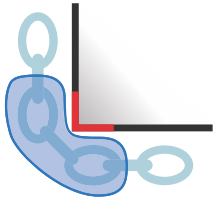
In case of contact between Green Pin Tycan® Lifting Chain and the load or operating material, protective sleeves must be used when the surface edge is "less" than 6mm radius.



Edge radius more than 6mm:
No protective sleeve required **but** recommended

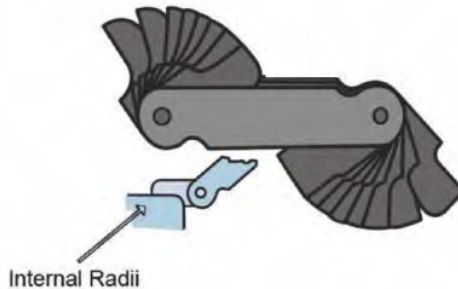
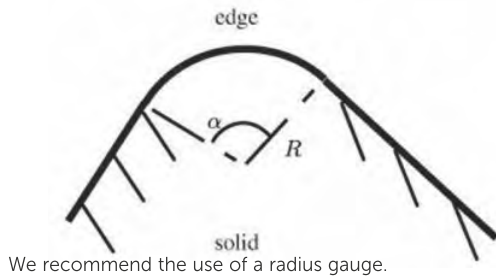


Edge radius less than 6mm:
Protective sleeve **required**



No obvious edge radius or in doubt: Protective sleeve **required**

Edges that are in contact with Green Pin Tycan® Lifting Chain must be checked for sufficient radius. A radius gauge is a good way to verify this. If in doubt, a protective sleeve should always be used to protect Green Pin Tycan® Lifting Chain.



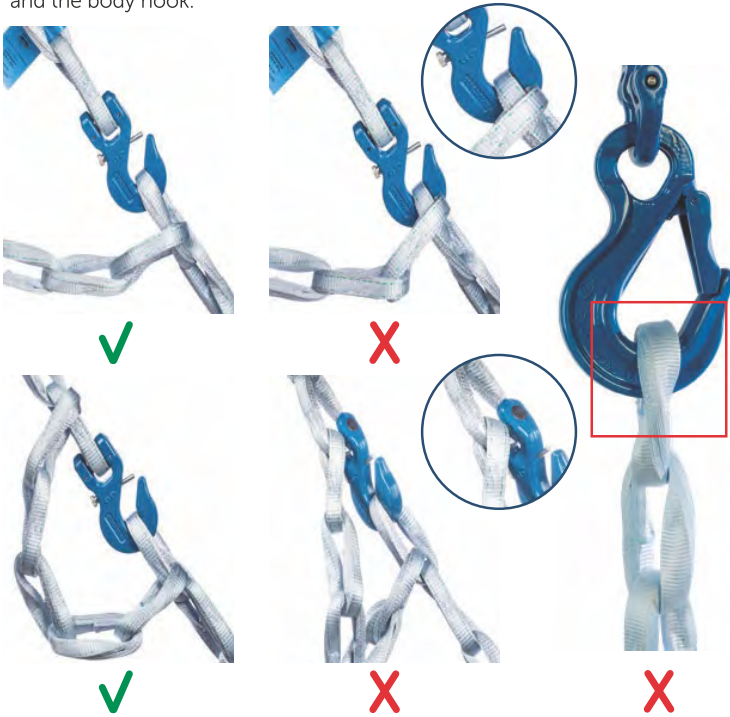
No Twist 1/4 Twist 1/2 Twist 3/4 Twist



- Sling Protection
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- Lifting Devices
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- Tie Down Assemblies
- Transport Chains
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- Rope & Cordage

Connecting Green Pin Tycan® Lifting Chain directly into hooks (components) where the width/clevis is more than required minimum clevis width is not acceptable. Doing so can cause the layers to spread apart, which in the utmost consequence could have a negative effect on the strength of the chain. The only exception is when it is not an open end-link and both load bearing-points of the link is under tension from the adjacent chain links. An example of this is the anchored basket hitch showed in this manual.

The unloaded link must never be placed between the loaded link and the body hook.



Storage

- Storage area should be clean, dry, dark and free of mechanical and environmental damage.
- Storage temperature should be no more than +70 degrees Celsius (158°F) for short term storage (less than one week) and no more than +30 degrees Celsius (86°F) for long term storage.

Inspection and Removal from Service Criteria

Inspect individual Chain Links thoroughly before each use for abrasion, tears, cuts or other damage which might affect the performance of Green Pin Tycan® Lifting Chain.



The pictures show defined areas of Green Pin Tycan® Chain Link, such as the Link Leg and Interface. Which allows for different amounts of wear and tear:

- Zero tolerance for damage allowed in Link Bearing Point.
- No folding or spreading out of layers allowed in Link Bearing Point.



- If there are visible cuts or abrasion of more than 4mm deep, across two layers or more on the side of the link leg, Green Pin Tycan® Lifting Chain must be removed from service immediately and shall be destroyed and not used for any application.



- If stitching is torn/ abraded to the extent that the layers of webbing can unravel, Green Pin Tycan® Lifting Chain must be removed from service immediately and shall be destroyed and not used for any application.

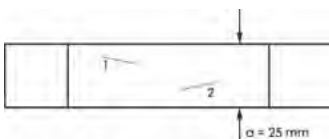


- If it is known that Green Pin Tycan® Lifting Chain has been exposed to temperatures exceeding 110°C (230°F), Green Pin Tycan® Lifting Chain must be destroyed and not used for any application.

- If it is known that Green Pin Tycan® Lifting Chain has been in contact with damaging chemicals, Green Pin Tycan® Lifting Chain must be destroyed and not used for any application.
- If there is any doubt that Green Pin Tycan® Lifting Chain has met or been exposed to the limits of the mentioned discard criteria's, Green Pin Tycan® Lifting Chain should be discarded.
- If the manufacturer's label(s) has been removed, or is no longer legible, Green Pin Tycan® Lifting Chain shall be removed from service.

Details wear/tear damage

- If at any place on the exterior layer of the link leg has been torn, cut or abraded all the way through (in one or more places), and the length of the cut(s) (individually or accumulated) is longer than 80% of the link-width, Green Pin Tycan® Lifting Chain must be removed from service immediately and shall be destroyed and not used for any application.



Cut (1+2) - 7 mm + 12 mm = 19 mm ✓
80% of α = 20 mm < 19 mm ✓
Cut (1+2) - 8 mm + 13 mm = 21 mm ✗



- If at any place on the exterior layer of the link are torn, cut or abraded away more than 50% trough, and the area(s) is longer than 160% of the link width, Green Pin Tycan® Lifting Chain must be removed from service immediately and shall be destroyed and not used for any application.
- If there are visible cuts or abrasion of more than 1mm deep, across all numbers of layers on the side of the link leg, Green Pin Tycan® Lifting Chain must be removed from service immediately and shall be destroyed and not used for any application.
- If there are visible cuts or abrasion of more than 2mm deep, across more than 75% of numbers of layers on the side of the link leg, Green Pin Tycan® Lifting Chain must be removed from service immediately and shall be destroyed and not used for any application.
- If there are visible cuts or abrasion of more than 3mm deep, across more than 50% of numbers of layers on the side of the link leg, Green Pin Tycan® Lifting Chain must be removed from service immediately and shall be destroyed and not used for any application.

Tycan® Synthetic Lashing Chain

Tycan® Chain

Product details

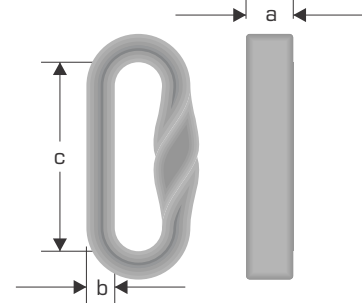
Details

Green Pin Tycan® Chain has been created from the world's strongest man-made fibre, Dyneema®, and is a link chain that has all the performance and flexibility of steel chain but is a fraction of the weight. It is extremely safe to use, non-corrosive, non-conductive and completely waterproof. In fact, it even floats! The soft touch and light weight makes Green Pin Tycan® easy to use, allows quicker application and greatly reduces the potential of damage to cargo, a critical factor when handling objects with sensitive surfaces. By using Green Pin Tycan® companies achieve greater efficiency and a safer working environment for their staff.



Features

- Up to Eight Times Lighter Than Steel and Soft to the Touch
- Made from Dyneema® Fibre™, Strong as Steel & Very Rugged
- Increased Safety for Crew and Cargo
- Improved Operational Efficiency
- Used by Leading Companies
- DNV GL Certified Technology
- Minimizes damage to vulnerable cargo



Item Code	Working Load Limit		Width (a)		Thickness (b)		Inside Length (c)		Weight	
	[lbs]	[kgs]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[lbs]	[kgs]
FCHLASH1330	30,000	13,600	1.19	30	0.50	13	4.72	125	2.1	0.9
FCHLASH1525	22,000	10,000	1.00	25	0.59	15	4.00	100	1.3	0.6

Green Pin Tycan® Ratchet Loadbinder GR10

Grade 10 ratchet type Load Binder without hooks according to EN 12195-3

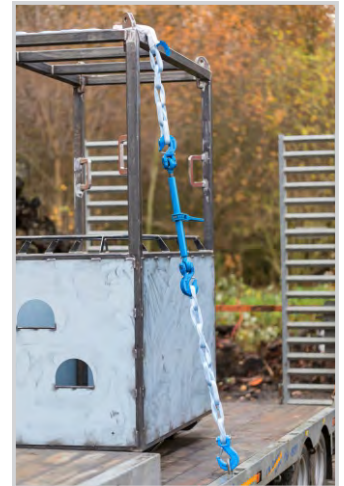
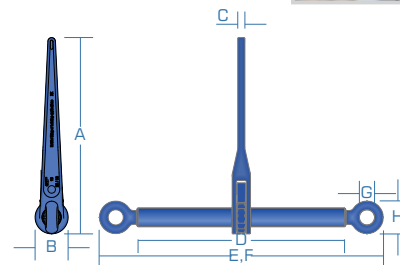
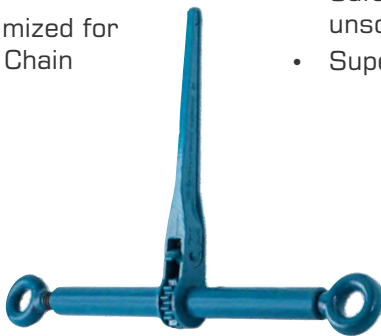
Product details

Details

The Green Pin Tycan® Ratchet Loadbinder is a grade 10 ratchet type loadbinder for use with Green Pin Tycan® Chain. The take-up-length of the loadbinder has been designed specifically for use with Green Pin Tycan® Chain. The ratchet in this loadbinder enables the precise setting of the lashing length and tension. The Green Pin Tycan® Ratchet Loadbinder is available with a lashing capacity of 10 ton

Highlights

- Specially designed for Green Pin Tycan®
- Takeup length optimized for Green Pin Tycan® Chain
- Ratchet allows for precise setting of lashing length and tension
- Safety prevents unintentional unscrewing of hooks
- Superior stock availability of 99%



Item Code	Working Load Limit		Take-up	Dimensions [in]								Weight [lbs]
	[lbs]	[kgs]		A	B	C	D	E	F	G	H	
LCRR25ZHENT	35,300	16,000	11.81	15.24	2.56	0.59	16.14	33.78	21.97	1.18	2.52	11.4
LCRR25ZHENTX	22,000	10,000	11.81	15.24	2.56	0.59	16.14	34.02	22.2	1.18	2.76	11.4

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- Tie Down Assemblies
- Transport Chains
- Towing & Recovery
- Rope & Cordage

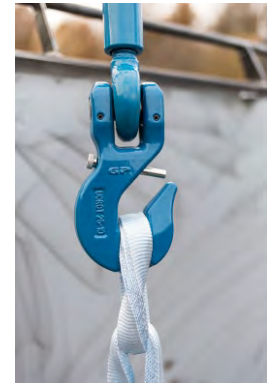
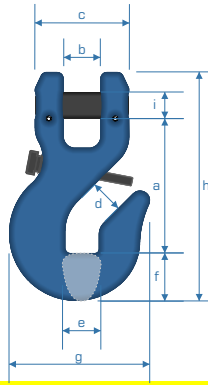
Green Pin Tycan® Grab Hook CL GR10

Grade 10 Clevis Grab Hook

Product details

Application

- Specially designed for Green Pin Tycan®
- Superior stock availability of 99%
- Reliable Green Pin® quality and support



Item Code	Working Load Limit(2:1)		Dimensions [in]									Weight [lbs]
	[lbs]	[kgs]	A	B	C	D	E	F	G	H	I	
GPUCRCT15	11,400	5,200	3.43	0.67	1.73	0.59	0.51	0.91	2.56	4.29	0.51	1.21
GPUCRCT20	17,600	8,000	4.33	0.87	2.24	0.79	0.63	1.14	3.35	5.43	0.63	2.27
GPUCRCT25	22,000	10,000	4.02	0.94	2.68	0.98	0.63	1.57	3.90	7.01	0.79	4.67
GPUCRCT30	30,000	13,600	5.51	1.26	2.91	1.18	0.79	1.57	4.02	6.97	0.79	4.28

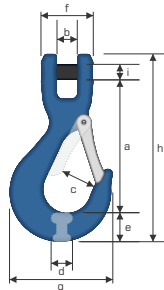
Green Pin Tycan® Sling Hook CL GR10

Grade 10 Clevis Sling Hook

Product details

Application

- Specially designed for Green Pin Tycan®
- Superior stock availability of 99%
- Reliable Green Pin® quality and support



GPUCSCT

HKK

Item Code	Working Load Limit		Dimensions [in]									Weight [lbs]
	[lbs]	[kgs]	A	B	C	D	E	F	G	H	I	
GPUCSCT15	11,400	5,200	4.41	0.67	1.18	0.79	0.94	1.73	3.43	6.22	0.51	1.59
GPUCSCT20	17,600	8,000	5.08	0.87	1.3	0.94	1.14	2.24	4.17	7.32	0.63	2.89
GPUCSCT25	22,000	10,000	4.94	0.94	1.46	1.13	1.36	2.68	4.86	8.65	0.79	4.81
GPUCSCT30	30,000	13,600	6.26	1.26	1.46	1.26	1.54	2.91	5.24	9.25	0.79	5.64
HKK20A050*	22,000	10,000	4.33	1.02	1.57	2.44	4.45	7.05	0.63	-	-	1.59

*LASHING ONLY

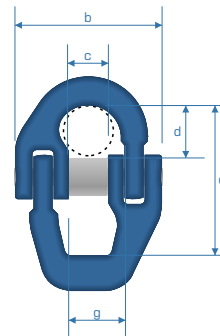
Green Pin Tycan® Connecting Link GR10

Grade 10 Connecting Link

Product details

Application

- Specially designed for Green Pin Tycan®
- Superior stock availability of 99%
- Reliable Green Pin® quality and support



Item Code	Working Load Limit		Dimensions [in]								Weight [lbs]
	[lbs]	[kgs]	A	B	C	D	E	F	G	H	
GPUMJT15	11,400	5,200	0.35	2.09	0.55	0.79	2.17	0.63	0.75	0.51	0.49
GPUMJT20	17,600	8,000	0.47	2.6	0.71	0.91	2.52	0.71	0.91	0.63	0.82
GPUMJT30	22,000	10,000	0.63	3.27	0.83	1.26	3.35	0.94	1.1	0.79	1.72