LOADBINDERS

Applications

Green Pin® loadbinders are used for easy and efficient tightening of chain in lashing applications.

Range

Green Pin® offers three types of loadbinders for use with steel chain: two ratchet types and a lever type. Loadbinders are available for various steel chain sizes, ranging from 8 up to 16 mm, and for fibre chain. The ratchet types can be supplied with two hooks or two eyes as end fittings. A Green Pin Tycan® ratchet loadbinder (grade 10) is also available, for use with Green Pin Tycan® Lashing Chain.

Design

Green Pin® loadbinders are designed with an ergonomic, easy-to-use handle for simple, single-hand use, and are manufactured from drop forged or cast steel. One ratchet type is equipped with standard chain eye grab hooks, the other type has an improved version of these hooks to reduce chain wear substantially. It is also fitted with a pin to keep the chain in place. The latter type is designed to meet requirements of standard EN 12195-3.

Each loadbinder is generally marked with:

- Lashing Capacity - e.g. 10 t
- minimum breaking load - e.g. 21.2 t
- manufacturer's symbol - e.g. GP
- chain diameter in mm and inches - e.g. 13mm and $^1/_2$"
- traceability code - e.g. A1
- warning - not for lifting or hoisting applications

Finish

Green Pin® loadbinders are painted either red, green or blue.

Certification

Specific details of certificate availability can be found on each product page. Please verify your certification requirements at the time of order.

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Instructions for use

Loadbinders should be inspected before use to ensure that:

- all markings are legible;
- a loadbinder with the correct Lashing Capacity has been selected. For further details we refer to EN 12195-3, standard for Lashing Chains;
- loadbinders should never be used for lifting or hoisting applications;
- the loadbinder should never be side loaded, since loadbinders are suitable for in-line use only;
- the handle or any other locking system cannot vibrate out of position;
- the loadbinder must be hooked to the chain in such a way that you can operate the loadbinder whilst standing on the ground;
- never use a loadbinder while standing on the load;
- always keep yourself out of the path of the moving handle;
- if the handle of the lever type loadbinder cannot reach the correct locked position, never use a cheater pipe. In that case a ratchet type loadbinder must be used;
- in the locked position of a lever type loadbinder the bottom side of the loadbinder should touch the chain link. In this position secure the handle to the chain using the loose end of the chain or a piece of rope or soft wire;
- if the handle of a lever type loadbinder is released by hand, make sure you use an open hand under the handle and push upward. Do not close your hand around the handle. Move the handle with caution since it may whip as it comes free;
- loadbinders are free from nicks, gouges and cracks;
- loadbinders may not be heat treated as this may affect their Lashing Capacity;
- never modify, repair or reshape a loadbinder by machining, welding, heating or bending as this may affect the Lashing Capacity;
- the loadbinder is used with the correct chain type/size.

Loadbinders must be regularly inspected in accordance with the safety standards given in the country of use. This is required because the products in use may be affected by wear, misuse, overloading etc. which may lead to deformation and alteration of the material structure. Inspection should take place at least every six months and more frequently when the loadbinders are used in severe operating conditions. Regularly lubricate all moving parts of a loadbinder to extend product life and reduce wear.

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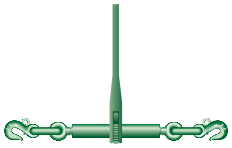
Green Pin® Ratchet Loadbinder HK EN 12195-3

Ratchet type loadbinder with hooks according to EN 12195-3



- **Material:** drop forged, grade 8
- **Safety factor:** MBL equals 2 x Lashing Capacity
- **Standard:** EN 12195-3
- **Finish:** painted red
- **Certification:** 2.1 2.2
- **Note:** Stf = 3000 daN

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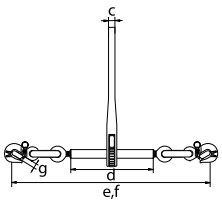

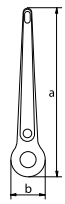

chain size	length handle	diameter	thickness	length barrel	length open position	length closed position	width	take-up	lashing capacity	proof load	minimum breaking load	weight each
mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	mm	t	t	t	kg
8	387	65	15	255	735	575	11	160	4	5	8	4.9
10	387	65	15	255	760	595	13	165	6.3	7.9	12.6	5.4
13	387	65	15	260	840	690	16	150	10	12.5	21.2	7.7
16	387	65	15	260	840	690	19	150	16	20	32.2	10.2

In inch

chain size	length handle	diameter	thickness	length barrel	length open position	length closed position	width	take-up	lashing capacity	proof load	minimum breaking load	weight each
inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	inch	t	t	t	lbs
5/16	15 1/4	2 9/16	19/32	10 1/32	28 29/32	22 5/8	7/16	6 9/32	4	5	8	10.80
3/8	15 1/4	2 9/16	19/32	10 1/32	29 29/32	23 7/16	1/2	6 1/2	6.3	7.9	12.6	11.90
1/2	15 1/4	2 9/16	19/32	10 1/4	33 3/32	27 5/32	5/8	5 29/32	10	12.5	21.2	16.98
5/8	15 1/4	2 9/16	19/32	10 1/4	33 3/32	27 5/32	3/4	5 29/32	16	20	32.2	22.5

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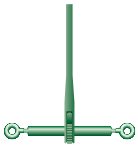
Green Pin® Ratchet Loadbinder EN 12195-3

Ratchet type loadbinder without hooks according to EN 12195-3



- **Material:** drop forged, grade 8
- **Safety factor:** MBL equals 2 x Lashing Capacity
- **Standard:** EN 12195-3
- **Finish:** painted red
- **Certification:** 2.1 2.2
- **Note:** Stf = 3000 daN

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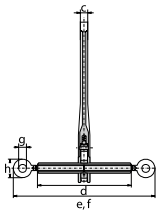

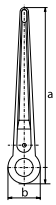

chain size	length handle	diameter	thickness	length barrel	length open position	length closed position	diameter eye inside	diameter eye outside	take-up	lashing capacity	proof load	minimum breaking load	weight each
mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	mm	t	t	t	kg
8	387	65	15	255	534	374	18	50	160	4	5	8	3.3
10	387	65	15	255	543	379	20	55	164	6.3	7.9	12.6	3.4
13	387	65	15	260	564	414	26	66	150	10	12.5	21.2	4
16	387	65	15	260	564	420	30	71	144	16	20	32.2	4.1

In inch

chain size	length handle	diameter	thickness	length barrel	length open position	length closed position	diameter eye inside	diameter eye outside	take-up	lashing capacity	proof load	minimum breaking load	weight each
inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	inch	t	t	t	lbs
5/16	15 1/4	2 9/16	19/32	10 1/32	21 1/32	14 23/32	23/32	1 31/32	6 9/32	4	5	8	7.28
3/8	15 1/4	2 9/16	19/32	10 1/32	21 3/8	14 29/32	25/32	2 5/32	6 7/16	6.3	7.9	12.6	7.50
1/2	15 1/4	2 9/16	19/32	10 1/4	22 3/16	16 5/16	1 1/32	2 19/32	5 29/32	10	12.5	21.2	8.82
5/8	15 1/4	2 9/16	19/32	10 1/4	22 3/16	16 9/16	1 3/16	2 25/32	5 11/16	16	20	32.2	9.04

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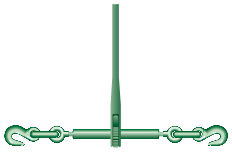
Green Pin® Ratchet Loadbinder HK

Ratchet type loadbinder with hooks

- **Material:** drop forged/cast steel
- **Safety factor:** MBL equals 3.5 x Lashing Capacity
- **Finish:** painted red or green
- **Certification:** 2.1 2.2



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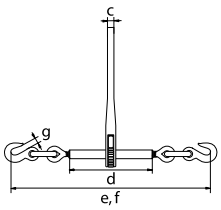

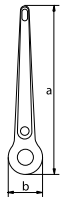

chain size	length handle	diameter	thickness	length barrel	length open position	length closed position	width	take-up	lashing capacity	proof load	minimum breaking load	weight each
mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	mm	t	t	t	kg
8 - 10	385	65	15	255	735	575	12	160	2.45	4.9	8.62	4.32
10 - 13	385	65	15	255	760	595	16	165	4.175	8.35	14.97	5.73
13 - 16	385	65	15	260	840	690	18	150	5.9	11.8	20.865	7.85

In inch

chain size	length handle	diameter	thickness	length barrel	length open position	length closed position	width	take-up	lashing capacity	proof load	minimum breaking load	weight each
inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	inch	t	t	t	lbs
5/16 - 3/8	15 5/32	2 9/16	19/32	10 1/32	28 29/32	22 5/8	15/32	6 9/32	2.45	4.9	8.62	9.52
3/8 - 1/2	15 5/32	2 9/16	19/32	10 1/32	29 29/32	23 7/16	5/8	6 1/2	4.175	8.35	14.97	12.63
1/2 - 5/8	15 5/32	2 9/16	19/32	10 1/4	33 3/32	27 5/32	23/32	5 29/32	5.9	11.8	20.865	17.31

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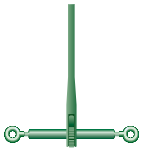
Green Pin® Ratchet Loadbinder

Ratchet type loadbinder without hooks



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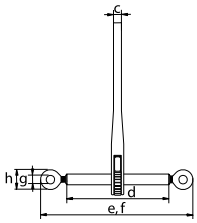

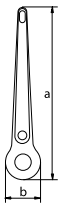

- **Material:** drop forged/cast steel
- **Safety factor:** MBL equals 3.5 x Lashing Capacity
- **Finish:** painted red or green
- **Certification:** 2.1 2.2

chain size	length handle	diameter	thickness	length barrel	length open position	length closed position	diameter eye inside	diameter eye outside	take-up	lashing capacity	proof load	minimum breaking load	weight each
mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	mm	t	t	t	kg
8 - 10	385	65	15	255	534	374	18	50	160	2.45	4.9	8.62	3.27
10 - 13	385	65	15	255	543	379	20	55	164	4.175	8.35	14.97	4.75
13 - 16	385	65	15	260	564	412	26	66	152	5.9	11.8	20.865	6.65

In inch

chain size	length handle	diameter	thickness	length barrel	length open position	length closed position	diameter eye inside	diameter eye outside	take-up	lashing capacity	proof load	minimum breaking load	weight each
inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	inch	t	t	t	lbs
5/16 - 3/8	15 5/32	2 9/16	19/32	10 1/32	21 1/32	14 23/32	23/32	1 31/32	6 9/32	2.45	4.9	8.62	7.21
3/8 - 1/2	15 5/32	2 9/16	19/32	10 1/32	21 3/8	14 29/32	25/32	2 5/32	6 7/16	4.175	8.35	14.97	10.47
1/2 - 5/8	15 5/32	2 9/16	19/32	10 1/4	22 3/16	16 1/4	1 1/32	2 19/32	5 31/32	5.9	11.8	20.865	14.66

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Green Pin® Lever Loadbinder HK

Lever type loadbinder with hooks

- **Material:** drop forged/cast steel
- **Safety factor:** MBL equals 3.5 x Lashing Capacity
- **Finish:** painted green
- **Certification:** 2.1 2.2

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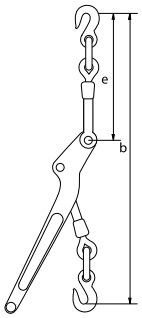

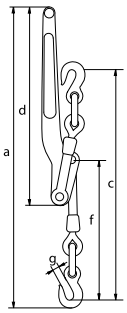

chain size	length	length open position	length closed position	length handle	length	length	width	take-up	lashing capacity	proof load	minimum breaking load	weight each
mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	mm	t	t	t	kg
8 - 10	610	592	488	408	287	287	12	104	2.45	4.9	8.62	2.81
10 - 13	768	680	550	458	325	325	16	130	4.175	8.35	14.97	5.08

In inch

chain size	length	length open position	length closed position	length handle	length	length	width	take-up	lashing capacity	proof load	minimum breaking load	weight each
inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	inch	t	t	t	lbs
5/16 - 3/8	24	23 5/16	19 1/4	16 3/32	11 5/16	11 5/16	15/32	4 3/32	2.45	4.9	8.62	6.19
3/8 - 1/2	30 3/16	26 3/4	21 11/16	18 1/32	12 25/32	12 25/32	5/8	5 1/8	4.175	8.35	14.97	5.08

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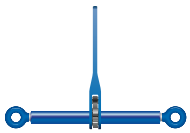
Green Pin Tycan® Ratchet Loadbinder GR10

Grade 10 ratchet type loadbinder

- **Material:** drop forged, grade 10
- **Safety factor:** MBL equals 2x Lashing Capacity
- **Standard:** EN 12195-3
- **Finish:** painted blue
- **Certification:** 2.1 2.2
- **Compatible with:** FCHLASH1525 (G-4151; 4.75t, G-4153; 4.75t or UCRCT; 10t are necessary to connect the loadbinder with FCHLASH1525)
- **Note:** Stf = 3000daN



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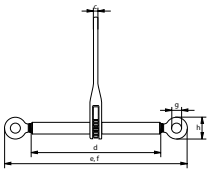

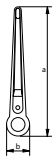

chain size	length handle	diameter	thickness	length barrel	length open position	length closed position	diameter eye inside	diameter eye outside	take-up	lashing capacity	proof load	minimum breaking load	weight each
mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	mm	t	t	t	kg
15x25	387	65	15	410	864	564	30	71	300	10	12.5	21.2	5.85

In inch

chain size	length handle	diameter	thickness	length barrel	length open position	length closed position	diameter eye inside	diameter eye outside	take-up	lashing capacity	proof load	minimum breaking load	weight each
inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	h inch	inch	t	t	t	lbs
$^{19}/_{32}$x1	15 $^{1}/_{4}$	2 $^{9}/_{16}$	$^{19}/_{32}$	16 $^{5}/_{32}$	34 $^{1}/_{32}$	22 $^{7}/_{32}$	1 $^{3}/_{16}$	2 $^{25}/_{32}$	11 $^{13}/_{16}$	10	12.5	21.2	12.9

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