



Tiger Lifting



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Tiger

Home of the Tiger hoisting range & Tiger subsea lifting products

Tiger Lever Hoist Model No TLH



Main Features

- Range from 250kg – 10000kg
- Rugged steel body construction
- Lightweight and portable
- 360 degree handle rotation
- Short stroke and low lever pulling effort
- Easy single-hand “freewheeling” operation
- Drop forged & heat treated alloy hooks
- High quality alloy calibrated load chain
- Safe reliable twin pawl mechanical brake
- Guaranteed light load protection
- Heat treated alloy steel triple spur gears and pinion shaft
- Heavy duty chain end stop
- Operating temperature of -40°C to +50°C
- Proof tested to 1.5 times rated capacity
- 1.5m height of lift as standard but can be chained to exact requirements
- Individual spares readily available
- Also available with stainless steel load chain
- Meets or exceeds all international standards

SGS





Tiger TLH Heavy Duty Lever Hoists

Lightweight, compact and rugged construction with the handle, gear case and brake cover made entirely of pressed steel, producing strong resistance to impact damage. Using only the highest quality materials precisely machined throughout ensures the TLH is the ideal hoist for long term use with less maintenance and servicing costs. These units meet and exceed all the requirements within BS EN 13157: 2004+A1:2009, ANSI/ASME B30.21, AS1418.2 and SANS 1636.

Safety Brake:

The highly efficient twin pawl brake, works instantly when the operation is stopped and securely holds the load. Designed and 100% tested to hold a 5% load of the rated capacity. The bonded friction discs are free of asbestos and achieve highly efficient braking.

Certification:

Each unit comes fully certified with a test certificate or an EC Declaration of Conformity stating compliance with the essential health and safety requirements of the Machinery Directive 2006/42/EC. This document clearly states the proof test at 1.5 times the rated capacity and the light load test of 5% of the rated capacity, which exceeds the requirements of the current applicable standard.

Load Chains:

Tiger only use the highest quality alloy, calibrated load chains in Grade 80 (T) or 100 (V). Also available with stainless steel load chain.

Hooks:

Drop forged and heat treated alloy hooks are furnished with heavy duty latch kits that fully engage into the nose of the hook offering maximum load security. The swivel hooks are attached to the yoke using high grade nuts & bolts allowing for complete inspection during any statutory inspection or written scheme maintenance. Recessed forgings offer full protection to the load chain anchor bolts on all our bottom hooks.

Grease:

High performance premium quality grease allows the TLH hoists to be certified for use within a temperature range of -40°C to +50°C far exceeding the requirements of current standards.

Chain end stops:

User friendly heavy duty end stops make it easy for the operator to position the chain whilst "freewheeling" but most importantly gives complete compliance to all known standards.





Mechanical Efficiency:

All major components are heat treated and precisely machined to ensure long term smooth operation. High gear ratios keep physical effort to a minimum.

Finish:

The TLH is finished in our high quality powder coat paint offering excellent corrosion protection.

Proof Load Tests:

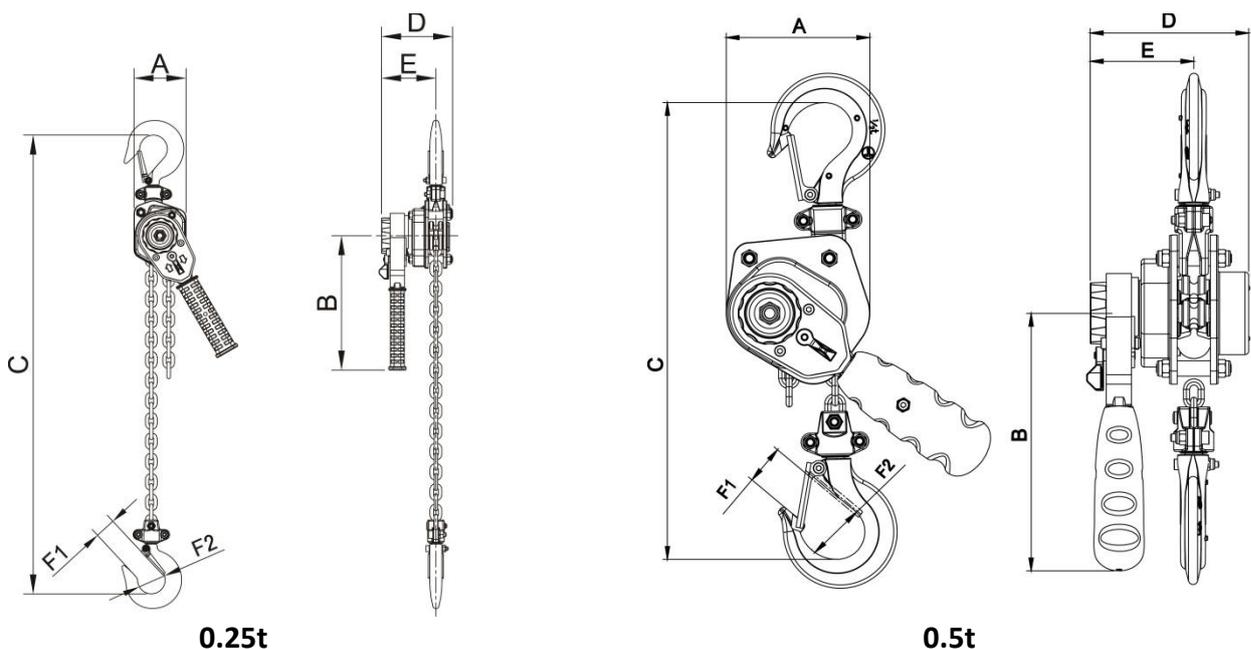
Every lever hoist is fully tested to 1.5 times its rated capacity.

Technical Data

Product Code	Capacity (tonne)	Effort (kg)	Dimensions (mm)							Load Chain		Standard HOL (m)	Mass @ std HOL (kg)	Mass for extra metre HOL (kg)
			A	B	C	D	E	F1	F2	Diameter (mm)	No. of falls			
LH-0025	0.25	30	60	156	245	82	63	22	31	ø4.0	1	1.5	2.2	0.35
LH-0050	0.5	30	94	156	280	103	67	24	38	ø4.0	1	1.5	2.9	0.35
LH-0075	0.75	23	128	240	275	158	99	24	38	ø6.3	1	1.5	7.4	0.86
LH-0150	1.5	26	154	360	320	172	104	34	51	ø7.1	1	1.5	10.1	1.07
LH-0300	3.0	38	182	360	400	195	108	36	56	ø10.0	1	1.5	18.2	2.17
LH-0600	6.0	40	242	360	570	195	108	49	70	ø10.0	2	1.5	29.3	4.34
LH-1000	10.0	47	370	360	630	195	108	54	87	ø10.0	3	1.5	46.0	6.54

See page 5 for more hook information

Technical Drawings



0.25t

0.5t





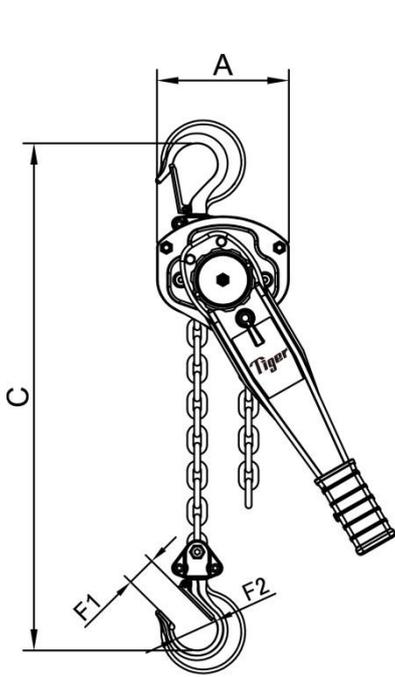
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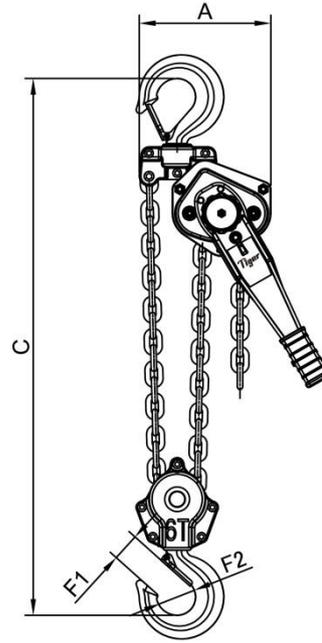
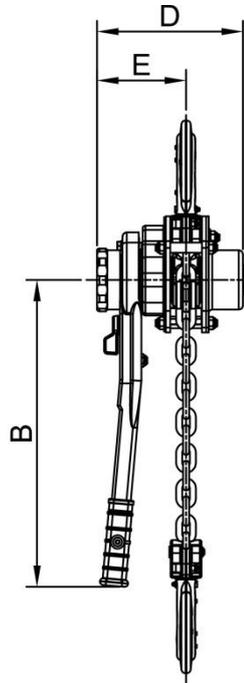
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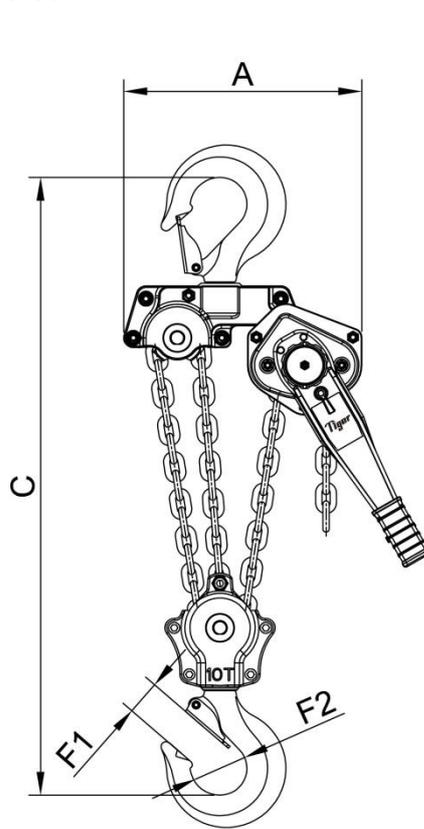
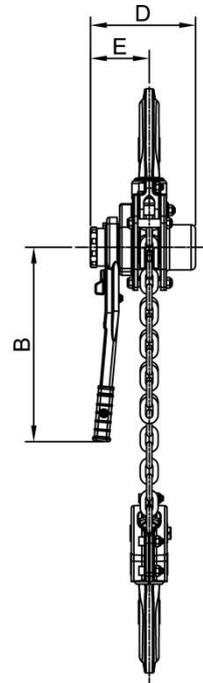
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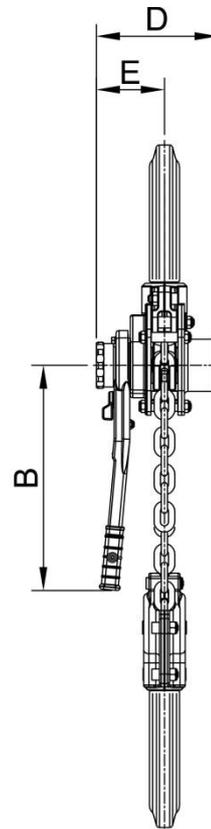
0.75t-3.0t



6.0t



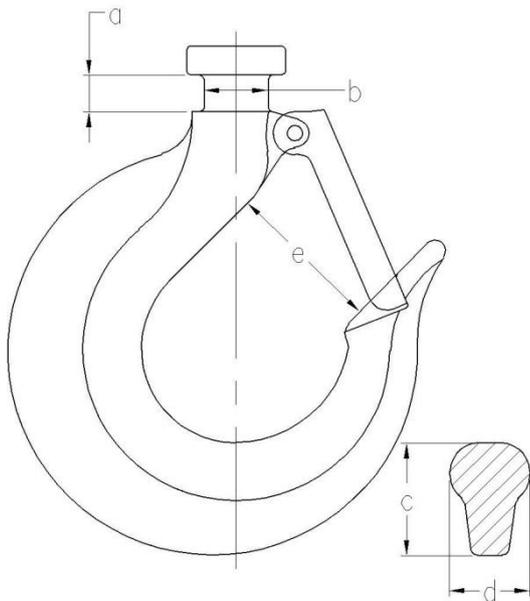
10.0t



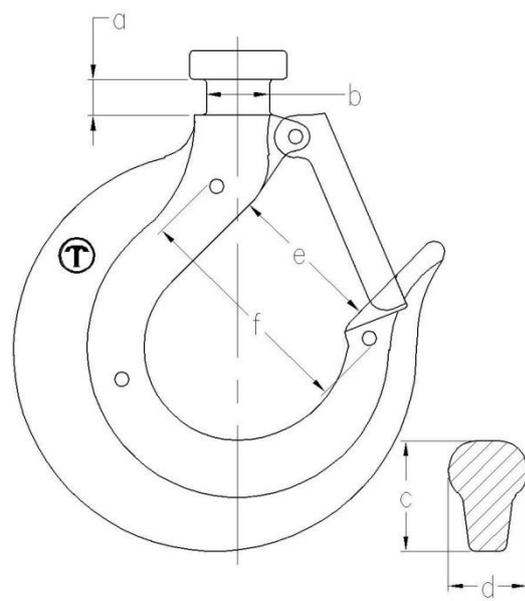


Hook Technical Data

Capacity (Tonnes)	Collar measurements (mm)		Hook thickness at point shown in diagram (mm)		Hook throat Opening (mm)	"EZ Check" measurement (mm)
	a	b	c	d		
0.25	5	8	18	12	26	N/A
0.5	8	13.5	19	15	29	47
0.75	8	13.5	19	15	29	47
1.5	10	15.5	26	21	39	59
3.0	12.5	20	37	32	42	76
6.0	19	30	43	36	58	86
10.0	20	33	52	48	70	121



Traditional Tiger Hooks



Tiger Hooks with new "EZ Check"
3 point marking system



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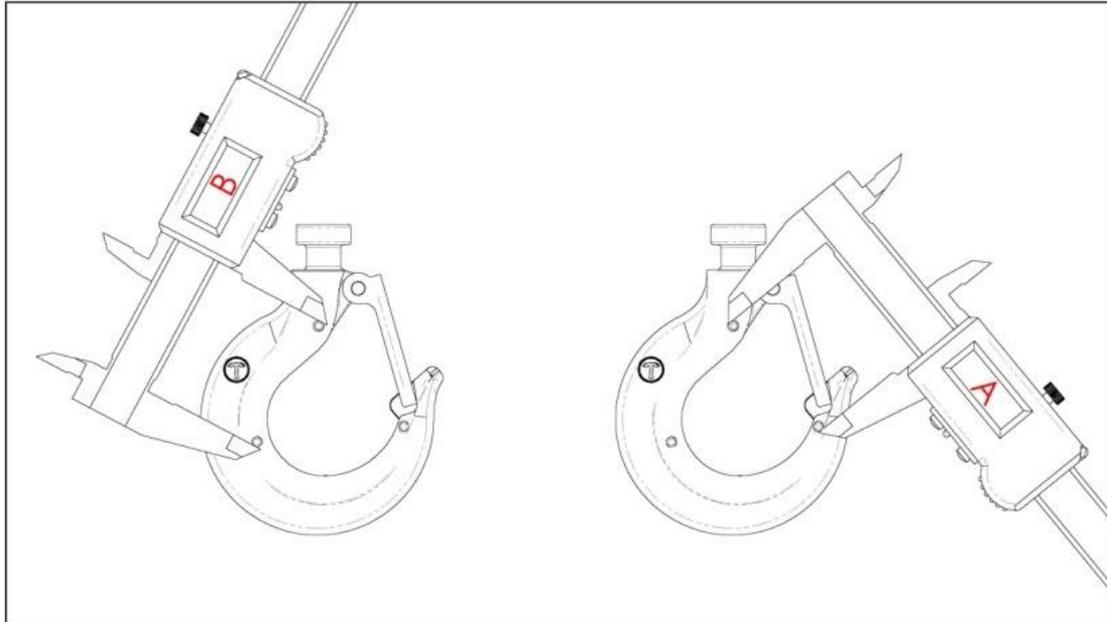


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Newer models are fitted with the patent pending Tiger “EZ check” 3 point marking system (excluding the 250kg model). With this system a quick check that the A and B measurements are the same (as shown in the diagram below) will indicate if the hooks have stretched. If $A \leq B$ the hook is fine; If $A > B$ the hook needs to be replaced:



New 500kg model



250kg model with bag

Due to our policy of continual product development, dimensions, weights and specifications may change without prior notice. Please check with your Tiger sales team when ordering.

