



Tiger

Product Catalogue

Tiger hoisting, clamping, winching, and height safety ranges

V1.0 | 2022 | tigerlifting.com

Air hoists



Tiger industrial air hoists are designed for, and proven in, many industries including mining, shipyards, offshore construction and power stations. They are also used for industrial and general engineering applications such as automotive plants, foundries, and heat treatment plants. The hoists operate at air pressures of between 4 and 6 bar. They comply with the requirements of ASME B30.16 and EN14492-2. Our manufacturing facility is ISO9001 certified.

- Range - 250kg to 20 tonne
- Reliable, fast, efficient, quiet and lightweight
- Greater than 5:1 factor of safety
- Suitable for Fleeting/Oblique pulling
- Certified for ATEX Category 3 as standard. Category 2 available on request

TAHS



250kg, 500kg, 1t & 2t

TAH21



1.5t, 2t & 3t

TAH33



3t, 6t & 10t

TAH52



5t, 10t, 16t & 20t

Pendant control

Our air hoists are supplied with either aluminium hard anodised controls which offer excellent corrosion protection or our Nickel plated SG iron option (for higher impact resistance combined with greater tensile strength and superior corrosion protection). Twist grip pendants are available as an option. Our new dual control pendant will operate two hoists with one pendant control. We also have a new remote control option available.



Aluminium hard anodised pendant



Nickel plated SG iron pendant



Optional twist grip pendant



New dual hoist pendant



New remote control

New

Load limiter

Integral differential pressure load limiting valve automatically prevents the operator lifting a load of more than 125 % of the working load limit. Load limiter is 100 % repeatable at all working pressures and does not wear or generate damaging heat.

Emergency stop

Pendant control hoists are supplied with a mains emergency stop valve. This shuts off the main air supply to the hoist when activated.

Temperature Range

Ambient temperature range -20°C to +70°C (for temperatures outside of this range please contact us for details).

Precise control

Accurate and precise positioning of loads is standard for both toggle and pendent control models.

Fail safe disc brake

Non-asbestos self-adjusting disc brake is applied automatically when the air supply to the hoist is shut off. The brake is self-adjusting for the life of the brake and can hold more than 125 % of the working load limit.

Fleeting, cross hauling or oblique pulling

This type of application is when the load deviates from the vertical position with a force acting directly between load hook and suspension point. Our air hoists can be used for fleeting and oblique pulling operations with no de-ration of the hoist. Cross hauling can be done with a single hoist, two hoists operated independently or with two hoists operated off one dual hoist pendant control.

Integral silencer

The exhaust air silencer is built into the hoist gearbox housing and limits the noise level to below 85dB(A).

Load chain

Grade 8 load chain ensures stringent high-speed duty cycles can be met. The load chain is in accordance with the requirements of EN818-7 Appendix B.

Vane motor

Assisted vane lifting ensures maximum starting torque when starting under load.

Sealed gearbox

The sealed planetary gearbox ensures that the most stringent duty cycles can be met. The gears are heat treated and mounted on high strength, low friction bearings.

Ease of maintenance

The modular design of the hoist allows easy access to internal components such as the motor, gearbox, brake and load limiter. Common parts are used throughout the range.

Optional chain carrier

Designed to carry and hold the length of load chain required for the operation, our stainless steel chain bucket is available in different size options. These chain carriers prevent loose chain from getting snagged during lifting or lowering operations and protect any loose chain during transit to and from the operational site.



ATEX

Manufactured in accordance with ATEX Directive 2014/34/EU and Machinery Directive 2006/42/EC and suitable for ATEX Category 3 – normal safety. Our products are assigned as follows: ATEX marking: : Ex II 3 GD c IIB T4 IIIB T135°C. Suitable for gas and dust hazardous areas: Zone 2 (gas) and Zone 22 (dust).

Ex II 3 GD c IIB T4 IIIB T135°C

II	3	GD	c	IIB	T4	IIIB	T135°C	
								T135°C Dust Temperature Class: Maximum external surface temperature 135°C
								IIIB Groups of Dust: Protected for group IIIC which includes groups IIIA
								T4 Gas Temperature Class: Maximum external surface temperature 135°C
								IIB Gas Explosion Group: Protected for group IIB which includes group IIA
								c Protection type: Design safety
								GD Ex Atmosphere: Gas and Dust
								3 Category: Normal Safety
								II Equipment Group: surface industries

Also available for ATEX Category 2 – high safety – please contact us for more information.

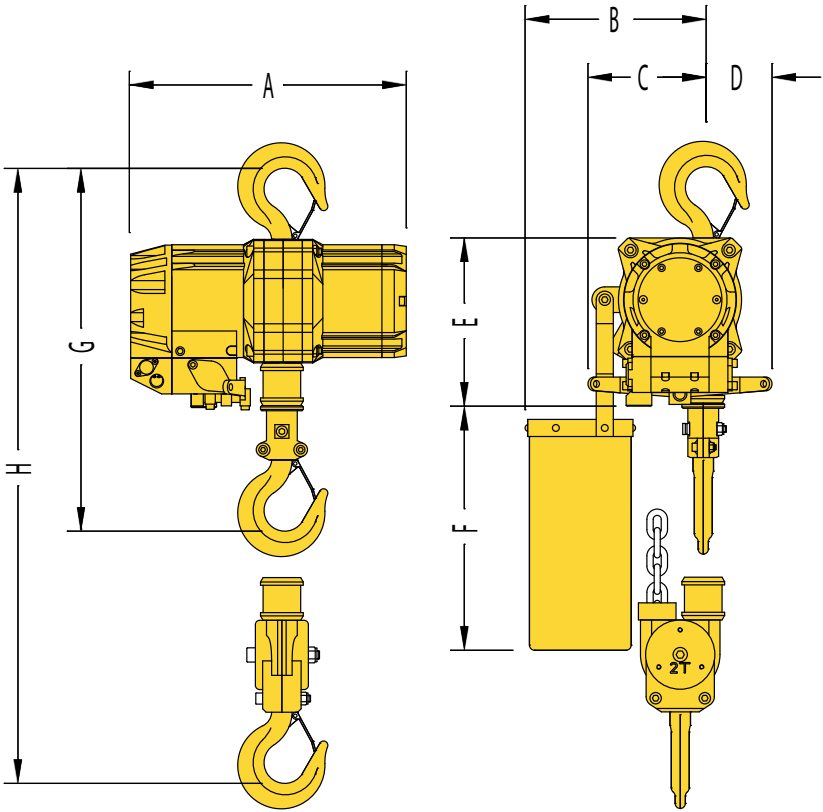
TAHS Range - 250kg, 500kg, 1.0, 2.0 tonne technical data (at 6 bar)

	AH-002	AH-005	AH-010	AH-020
Lifting Capacity (tonne)	0.25	0.5	1.0	2.0
Falls of Chain	1	1	1	2
Chain Size (mm)	7.1 x 21.2	7.1 x 21.2	7.1 x 21.2	7.1 x 21.2
Total Weight (kg)*	25.0	25.0	25.0	32.8
Full Load Lifting Speed (m/min)	22.5	15.0	7.5	3.8
No Load Lifting Speed (m/min)	32.0	29.5	16.0	8.0
Full Load Lowering Speed (m/min)	31.0	36.0	20.4	10.2
No Load Lowering Speed (m/min)	25.0	23.0	13.0	6.5
Air Consumption (m³/min)	2.1	2.1	2.1	2.1
Air Connection	G 1/2	G 1/2	G 1/2	G 1/2
Supply Hose (Inside ø) (mm)	16.0	16.0	16.0	16.0
Sound Level (dB(A))	76	76	76	76
Dimensions (mm): A	312	312	312	312
B	216	216	216	216
C	135	135	135	135
D	85	85	85	85
E	196	196	196	196
F (Min)	370	370	370	370
G (Min)	420	420	420	-
H (Min)	-	-	-	495

* Weight of TAHS model includes 3m lift, 2m toggle control. For longer lifts add 1.1kg for the AH-002, AH-005 and AH-010 models and 2.2kg for AH-020 per metre of lift. For pendant control add 0.8kg.



250kg TAHS with toggle control (AH-002T)



250kg-2t

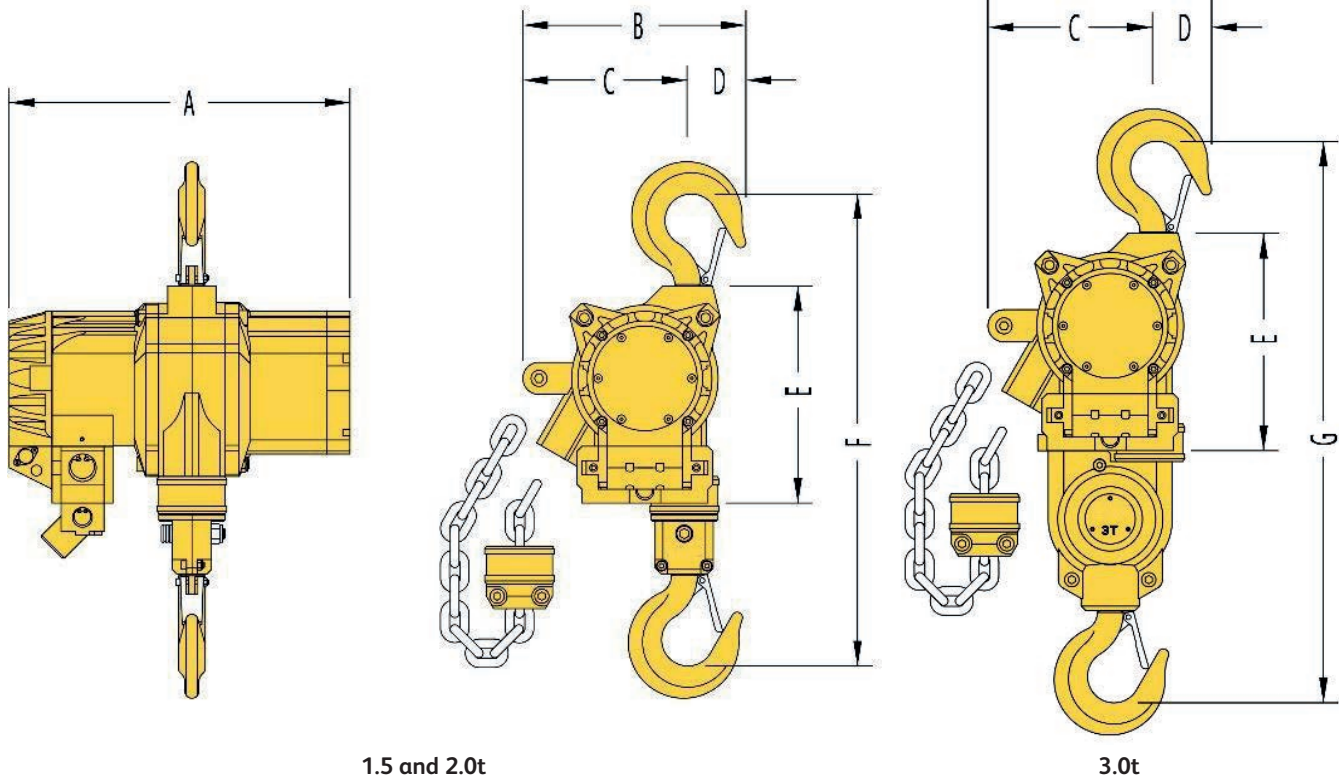
TAH21 Range - 1.5, 2.0, 3.0 tonne technical data

	AH-015	AH-021	AH-032
Lifting Capacity (tonne)	1.5	2.0	3.0
Falls of Chain	1	1	2
Chain Size (mm)	10 x 28	10 x 28	10 x 28
Total Weight (kg)*	55	55	67
Full Load Lifting Speed (m/min) @ 6 bar	6.2	5.3	3.1
Full Load lifting Speed (m/min) @ 4 bar	4.2	3.0	2.1
No Load Lifting Speed (m/min) @ 6 bar	8.7	8.7	4.3
Full Load Lowering Speed (m/min) @ 6 bar	8.6	9.0	4.3
No Load Lowering Speed (m/min) @ 6 bar	7.5	7.5	3.7
Air Consumption (m³/min) @ 6 bar	2.6	2.6	2.6
Air Consumption (m³/min) @ 4 bar	1.7	1.7	1.7
Air Connection	G 3/4	G 3/4	G 3/4
Supply Hose (Inside ø) (mm)	19	19	19
Sound Level (dB(A)) Full Load Lifting @ 6 bar	81	81	81
Full Load Lowering @ 6 bar	83	83	83
Dimensions (mm): A	382	382	382
B	250	250	250
C	184	184	184
D	66	66	66
E	213	213	213
F (Min)	515	515	-
G (Min)	-	-	610



2t TAH21 with E-stop pendant control (AH-021P)

* Weight of TAH21 model includes 3m lift, 2m toggle. For longer lifts add 2.2kg per metre of lift for the AH-015 and AH-021 and 4.4kg for the AH-032 per metre of lift. For pendant control add 0.4kg, for E/Stop pendant add 2.1kg.



1.5 and 2.0t

3.0t

TAH33 Range - 3.0, 6.0, 10.0 tonne technical data

	AH-030	AH-060	AH-103
Lifting Capacity (tonne)	3.0	6.0	10.0
Falls of Chain	1	2	3
Chain Size (mm)	13 x 36	13 x 36	13 x 36
Total Weight (kg)*	76.5	99.5	139.5
Full Load Lifting Speed (m/min)@ 6 bar	5.3	2.6	1.6
Full Load Lifting Speed (m/min) @ 4 bar	3.8	1.9	1.1
No Load Lifting Speed (m/min) @ 6 bar	7.5	3.7	2.4
Full Load Lowering Speed (m/min) @ 6 bar	8.3	4.1	2.6
No Load Lowering Speed (m/min) @ 6 bar	6.8	3.4	2.2
Air Consumption (m³/min) @ 6 bar	4.0	4.0	4.0
Air Consumption (m³/min) @ 4 bar	2.6	2.6	2.6
Air Connection	G 3/4	G 3/4	G 3/4
Supply Hose (Inside ø) (mm)	25	25	25
Sound Level (dB (A)):			
Full Load Lifting @ 6 bar	81	81	81
Full Load Lowering @ 6 bar	83	83	83
Dimensions (mm): A	466	466	466
B	254	223	366
C	185	137	243
D	N/A	86	123
E	N/A	259	315
F (Min)	538	N/A	N/A
G (Min)	N/A	630	786



3t TAH33 with E-stop pendant control (AH-030P)

* Weight of TAH33 model includes 3m lift, 2m toggle. For longer lifts add 3.8kg per metre of lift for the AH-030, 7.6kg for AH-060 and 11.4kg for the AH-103 per metre of lift. For pendant control add 0.8kg



3t



6t

10t

TAH52 Range - 5.0, 10.0, 16.0, 20.0 tonne technical data

	AH-050	AH-102	AH-160	AH-200
Lifting Capacity (tonne)	5.0	10.0	16.0	20.0
Falls of Chain	1	2	3	4
Chain Size (mm)	16 x 45	16 x 45	16 x 45	16 x 45
Total Weight (kg)*	106	152	245	288
Full Load Lifting Speed (m/min)@ 6 bar	3.0	1.5	0.9	0.7
Full Load Lifting Speed (m/min) @ 4 bar	1.9	0.9	0.6	0.4
No Load Lifting Speed (m/min) @ 6 bar	4.0	2.0	1.1	0.9
Full Load Lowering Speed (m/min) @ 6 bar	4.4	2.2	1.3	1.0
No Load Lowering Speed (m/min) @ 6 bar	3.3	1.7	1.0	0.8
Air Consumption (m ³ /min) @ 6 bar	4.0	4.0	4.0	4.0
Air Consumption (m ³ /min) @ 4 bar	2.6	2.6	2.6	2.6
Air Connection	G 3/4	G 3/4	G 3/4	G 3/4
Supply Hose (Inside ø) (mm)	25	25	25	25
Sound Level (dB(A)):				
Full Load Lifting @ 6 bar	82	82	82	82
Full Load Lowering @ 6 bar	83	83	83	83
Dimensions (mm): A	503	503	616	616
B	300	270	290	280
C	230	170	180	165
D	N/A	100	110	115
E	N/A	286	325	325
F (Min)	600	N/A	N/A	N/A
G (Min)	N/A	790	905	920



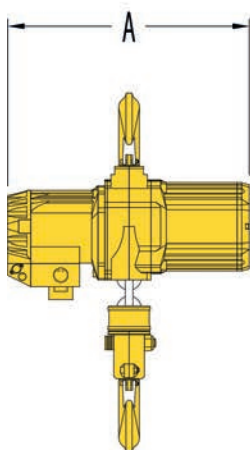
16t TAH52 with
toggle control
(AH-160T)

5t TAH52 with remote
control
(AH-050R)

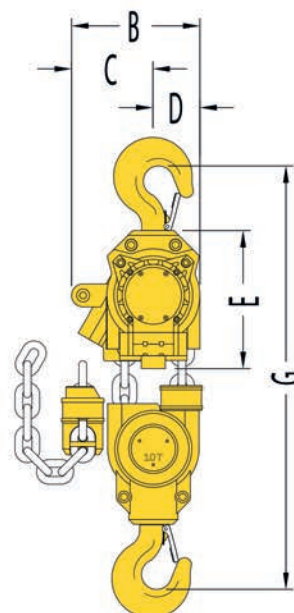
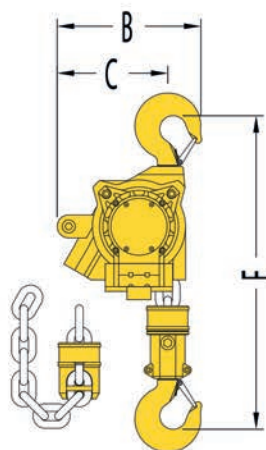
* Weight of TAH52 model includes 3m lift, 2m toggle control. For longer lifts add 5.7kg for the AH-050, 11.4kg for the AH-102, 17.1kg for the AH-160 and 22.8kg for the AH-200 per metre of lift. For pendant control add 0.8kg

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.

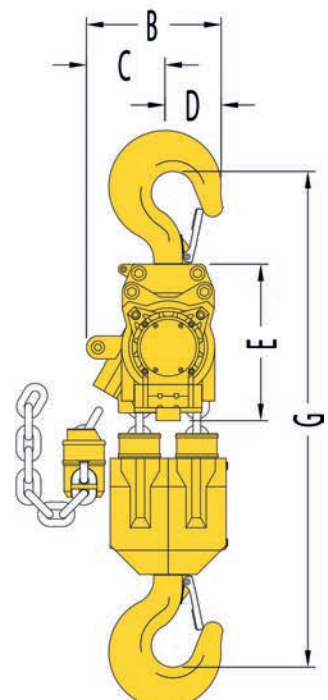
Bespoke designs available on request- contact info@tigerlifting.com for more information.



5t



10t



16.0t/20.0t

Air trolleys



T series trolleys are designed specifically for mining, industrial and general engineering applications. The trolleys are available in plain, geared and motorized versions and can be supplied with rigid or hook on adaptors. They have a minimum factor of safety of 5 at the maximum rated load and are therefore suitable for use with both manual and powered hoists. The trolleys comply with the requirements of SANS 1824, EN13157 and EN1449-2. The manufacturing facility producing the trolleys is ISO9001, ISO14001 & OHSAS18001 certified.

- 1, 3 and 6 tonne capacity units
- Low headroom, compact and versatile
- Available in plain, geared and motorized versions
- Greater than 5:1 factor of safety
- Anti-fall, anti-derailment and anti-tilt features as standard

Scan QR code for more technical information including drawings.



HOISTING

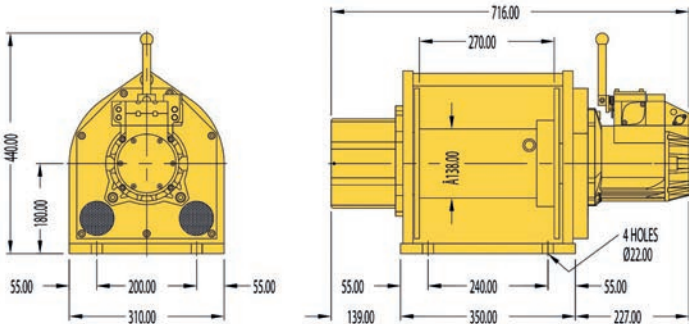
Product Code	Capacity (tonne)	Track width range (mm) A	Min. curve radius (mm)	Net Weight (kg)	Max. Traverse Speed (m/min) @ 6 bar
TA1000	1.0	73-152	900	30.5	22.0*
TG1000	1.0	73-152	900	21.2	-
TP1000	1.0	73-152	900	18.2	-
TA3000	3.0	89-184	950	44.0	28.0*
TG3000	3.0	89-184	950	34.7	-
TP3000	3.0	89-184	950	31.7	-
TA6000	6.0	128-184	1600	80.0	27.0*
TG6000	6.0	128-184	1600	72.0	-
TP6000	6.0	128-184	1600	69.0	-

Air winch



- Range - 0.5, 1, 2 & 3 tonne
- Reliable, fast efficient and quiet
- Compact design
- Extended drum versions available for increased rope capacity
- Easy to mount
- Greater than 5:1 factor of safety

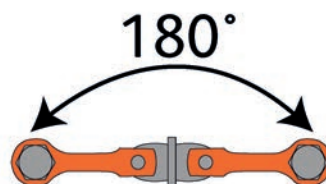
Technical Sepecifications at 6 bar	WAR500I	WAR1000I	WAR2000I	WAR3000I
Half Drum Line Pull (kg)	500	1000	2000	3000
Rope Speed at Rated Load (m/min)	28.10	13.90	6.70	4.60
Full Drum No Load Speed (m/min)	60.30	28.20	18.50	9.00
Air Consumption (m³/min)	4.0	4.0	4.0	4.0
Air Connection	G 3/4	G 3/4	G 3/4	G 3/4
Supply Hose (Inside ø) (mm)	25	25	25	25
Sound Level (dB(A))	80	80	80	80
Reccommended Rope Size (mm)	13.0	13.0	15.0	18.0
Rope Storage Length (m)- Standard Drum	80	80	59	52
Rope Storage Length (m)- Extended Drum	165	165	119	106
Weight without Wire Rope (kg) - Std	104	104	104	104



Adaptable chain blocks and lever hoists



360° rotation and 180° pivot for maximum flexibility



- Available for Tiger PROCB/SS20 chain blocks and PROLH/SS19 lever hoists
- All fittings meet the standards of EN1677 grade 100 at 400°C tempering
- Drop forged adaptor for maximum strength certified 4:1 FOS at all angles
- Self-locking (safety) hook, clevis shackle, reeable egg (master) link or sling hook fitting available
- Overload protection available
- For lifting at angles (cross hauling / fleeting / drifting) with no deration
- Chain Blocks – 500kg – 10t capacity
- Lever Hoists – 500kg – 10t capacity



Additional adaptable fittings for PROCB/SS20 chain blocks and PROLH/SS19 lever hoist. To replace the top hook, bottom hook or both hooks



Clevis self-locking hook



Clevis shackle



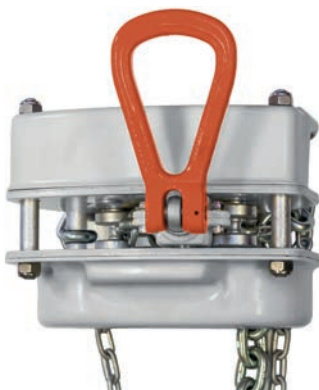
Clevis sling hook



Clevis reeveable egg/master link



500kg lever hoist with clevis self locking hook



Spark resistant chain blocks and lever hoists

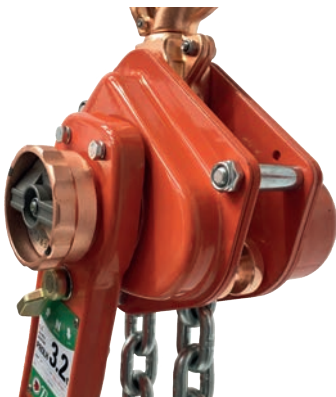


Ex II 2 GD c IIC T4 IIIC T135°C.

In many areas of industry, plants are operated with potentially explosive atmospheres. Due to the very high risk to personal and other assets, extremely strict guidelines and technical requirements are in place in explosive zones. Tiger Spark Resistant products are manufactured in accordance with ATEX Directive 2014/34/EU and the Machinery Directive 2006/42/EC. Our products are lightweight and durable with a proven track record.

Atex marking: Ex II 2 GD c IIC T4 IIIC T135°C. Suitable for gas and dust hazardous areas: Zone 1 & 2 (gas) and Zone 21 & 22 (dust).

We can supply chain blocks, lever hoists, beam clamps, trolleys and combination block and trolley units.



- Category II – high safety - Certification: Ex II 2 GD c IIC T4 IIIC T135°C
- Manufactured in accordance with ATEX Directive 2014/34/EU and Machinery Directive 2006/42/EC
- Developed for the use in potentially explosive atmospheres (ATEX zones)
- Special coated unit
- Different capacities and heights of lift to suit your specific requirements
- Available with stainless steel load chain
- Available with overload protection

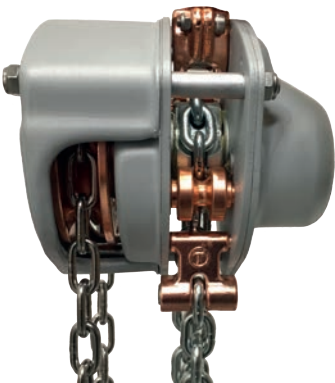
Note: It is the responsibility of the user to identify which explosion proof classification is required, not the hoist manufacturer or supplier.




- Stainless steel hand chain (chain blocks)
- Corrosion protected load chain
- Marine specific friction discs
- Brake chamber protection from outside contamination
- Copper plated suspension and load hooks, load chain guides, grip rings, hand wheels and end anchorage
- Stainless steel fixings and fasteners
- Lever hoist also available using our PROLH unit and standard load chain
- Operating temperature -40°C to +80°C (temperature range of -60°C to +80°C available as an option)



Combined chain blocks and trolleys available



Ex II 2 GD c IIC T4 IIIC T135°C

II	2	GD	c	IIC	T4	IIIC	T135°C	
								T135°C
								Dust Temperature Class: Maximum external surface temperature 135°C
								IIIC
								Groups of Dust: Protected for group IIIC which includes groups IIIA & IIIB
								T4
								Gas Temperature Class: Maximum external surface temperature 135°C
								IIC
								Gas Explosion Group: Protected for group IIC which includes groups IIA & IIB
								c
								Protection type: Design safety
								GD
								Ex Atmosphere: Gas and Dust
								2
								Category: High Safety
								II
								Equipment Group: surface industries

Lever hoists



All our lever hoists are manufactured from the highest quality materials precisely machined in our own factory, producing strong products with high resistance to impact damage. The hoists are finished in our high quality powder coat paint offering excellent corrosion protection. This all ensures they are ideal hoists for long-term use with less maintenance and servicing costs. The strong impact resistant gearbox housing, complete with close tolerance fit bearings that fully support the pinion shaft and planet gears, maintains smooth revolutions whilst under load. High gear ratios keep physical effort to a minimum; this provides maximum mechanical efficiency.

These units meet and exceed all the requirements within BS EN 13157: 2004+A1:2009, ANSI/ASME B30.21, AS1418.2 and SANS 1636.

Industrial TRLH



- Range from 750kg-6.0t
- Drop forged and heat treated alloy hooks
- Safe reliable twin pawl mechanical brake
- High quality alloy calibrated load chain
- Proof tested to 1.5 times rated capacity
- Guaranteed light load protection
- 1.5m height of lift as standard but can be chained to exact requirements
- Optional extra heavy duty chain end stop

Mini Series



- 250kg and 500kg units
- Safe and reliable twin pawl mechanical brake
- Rugged steel body construction
- Lightweight and portable
- 360 degree handle rotation
- Short stroke and low lever pulling effort
- Easy single-hand "freewheeling" operation
- Guaranteed light load protection
- Heat treated alloy steel triple spur gears and pinion shaft
- Operating temperature -40°C to +80°C (temperature range of -60°C to +80°C available as an option)
- Supplied with useful belt bags

Professional PROLH



UK Network Rail
PADS Certification

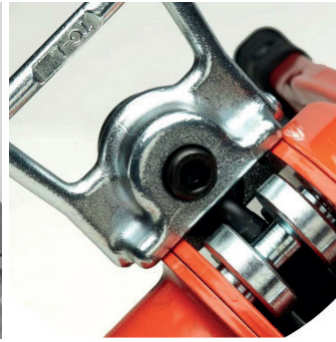
- Range from 800kg –20.0t
- Patented Quad Cam Pawl System
- DNV GL Verification tested according to NORSOK R-002
- Available with slipping clutch overload protection
- Available with forged clevis adaptor components
- Equipped with our unique torsion brake mechanism
- One piece construction pinion gear
- No requirement for preload tension to activate the ratchet mechanism
- Light load tested and certified at 2 % of the rated capacity
- Adaptable to use both inverted and horizontally
- Individual spares readily available
- Operating temperature -40°C to +80°C (temperature range of -60°C to +80°C available as an option)
- All major parts are heat treated and precisely machined
- Finished in high quality powder coat paint offering excellent corrosion protection
- Can be chained up to meet your exact requirements
- Phosphor bronze bearings
- Adjustable chain end anchorage available as an option
- Also available with stainless steel load chain or spark resistant hooks
- Available with shipyard hooks. in 1.6t & 3.2t capacities.
- Available with load bearing swivel hooks to meet relevant standards i.e. AS 1418.2



SS19 and PROLH gearboxes contain one-piece pinion gears giving unprecedented strength in the harshest environments.



8 point multi-start thread pinion shaft on all our lever hoists and chain blocks- doubles the lead distance compared with typical 4 point threaded shafts, increasing the brake efficiency by 100%.



User friendly heavy duty end stops on our PROLH (and as an option on our TR7) make it easy for the operator to position the chain while "freewheeling". Most importantly this "end stop" will hold a load of at least 2.5 times the rated capacity when supporting the full load without restraint from other components e.g. brake or gearing.



Tiger Professional and Specialist lever hoists have our unique rotational inertia driven torsion brake system. The unique brake system guarantees a light load protection at 2% of the rated capacity.

Specialist SS19

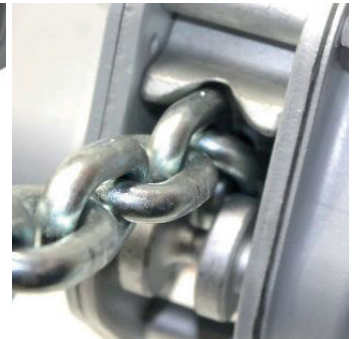


- Range from 800kg –20.0t
- All the features of the ProLH as well as the following:
- Suitable for use in multi-immersion applications (see p25)
- Meets and exceeds IMCA DO28 Rev 2 guidance notes for offshore lever hoists
- New even harder-wearing paint finish in accordance with ISO12944 C5M
- Marine specific friction discs
- Full face gasket provides brake chamber protection from outside contamination
- Fully corrosion protected body and components to ensure reliable long-term use
- Over 1500 hours protection to ASTM B117 conditions
- Adjustable chain end anchorage specifically designed to the contours of the hoist
- New technology high performance grease

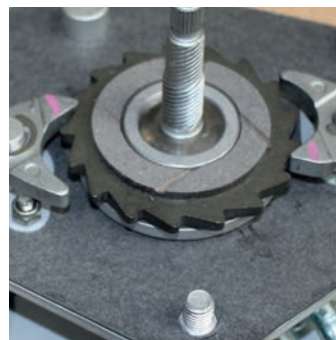
Download our technical sheet for more details:



Tiger have incorporated the ultimate safeguarding of a single point failure mode as described in IMCA DO28 Rev. 2 Note 7.2 by installing a specially designed adjustable chain end stop. Tiger have specifically profiled and manufactured this item to fit the contours of the SS hoist. This offers complete assurance to the operator, whilst maintaining the flexibility of "freewheeling" the chain to any required starting position.



The fluted chain stripper is specifically designed to guide the load chain safely onto or off the load sheave. The critical configuration of, and distance between, the chain stripper and the roller guide ensures alignment of the chain so it cannot snag or jam. This allows the safe use of the SS19/PROLH when used in any orientation.



The SS19 has bonded marine friction discs developed and designed for subsea use creating a highly efficient, reliable braking surface for use in the most extreme conditions.



Precisely engineered side plates and components protected by a full gasket give the SS19 brake chamber and contents maximum protection from external contamination. Phosphor bronze bearings are ideally suited to offshore marine environments.

Mini Series

Product Code	Capacity (tonne)	Effort (kg)	Dimensions (mm)							Load Chain		Standard HOL (m)	Weight @ std HOL (kg)	Weight for extra metre HOL (kg)
			A	B	C	D	E	F1	F2	Diameter (mm)	No. of falls			
LH-0025	0.25	30	60	168	245	85	66	22	31	4.0	1	1.5	2.0	0.3
LH-0050	0.50	30	89	168	280	113	70	24	38	4.0	1	1.5	3.0	0.3

Industrial TRLH

Product Code	Capacity (tonne)	Effort (kg)	Dimensions (mm)							Load Chain		Standard HOL (m)	Weight @ std HOL (kg)	Weight for extra metre HOL (kg)
			A	B	C	D	E	F1	F2	Diameter (mm)	No. of falls			
TRL-0075	0.75	22	128	240	275	158	99	24	38	6.3	1	1.5	7.5	0.9
TRL-0100	1.0	29	128	240	295	158	99	28	45	6.3	1	1.5	7.5	0.9
TRL-0150	1.5	26	154	360	320	172	104	34	51	7.1	1	1.5	10.0	1.1
TRL-0200	2.0	35	154	360	367	172	104	35	53	7.1	1	1.5	10.5	1.1
TRL-0300	3.0	38	182	360	400	195	108	36	56	10.0	1	1.5	18.0	2.2
TRL-0600	6.0	40	242	360	570	195	108	49	70	10.0	2	1.5	29.5	4.3

Professional PROLH

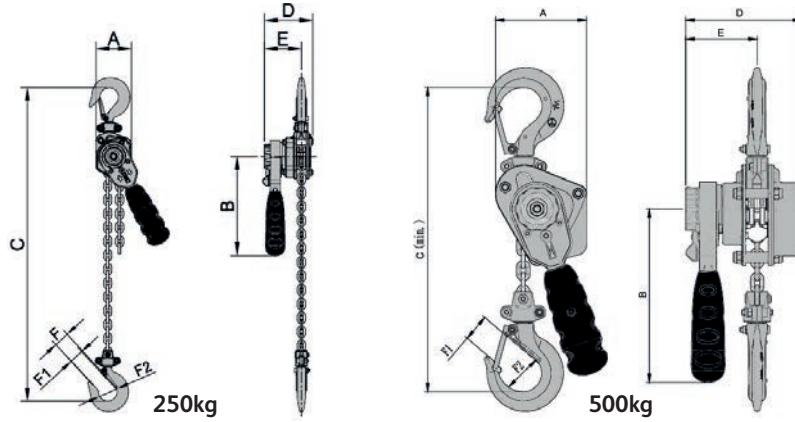
Product Code	Capacity (tonne)	Effort (kg)	Dimensions (mm)							Load Chain		Standard HOL (m)	Weight @ std HOL (kg)	Weight for extra metre HOL (kg)
			A	B	C	D	E	F1	F2	Diameter (mm)	No. of falls			
PLH-0080	0.8	23	128	240	295	158	99	28	45	6.3	1	1.5	7.5	0.9
PLH-0160	1.6	28	154	360	320	172	104	34	51	7.1	1	1.5	10.5	1.1
PLH-0320	3.2	40	182	360	400	195	108	36	56	10.0	1	1.5	18.0	2.2
PLH-0630	6.3	42	242	360	570	195	108	49	70	10.0	2	1.5	28.5	4.3
PLH-0800	8.0	38	379	360	580	195	108	51	78	10.0	3	1.5	43.0	6.5
PLH-1000	10.0	47	379	360	630	195	108	54	87	10.0	3	1.5	46.0	6.5
PLH-1500	15.0	44	566	360	840	195	108	59	81	10.0	5	1.5	112.0	10.8
PLH-2000	20.0	49	470	360	1050	250	160	81	110	10.0	6	1.5	156.0	13.1



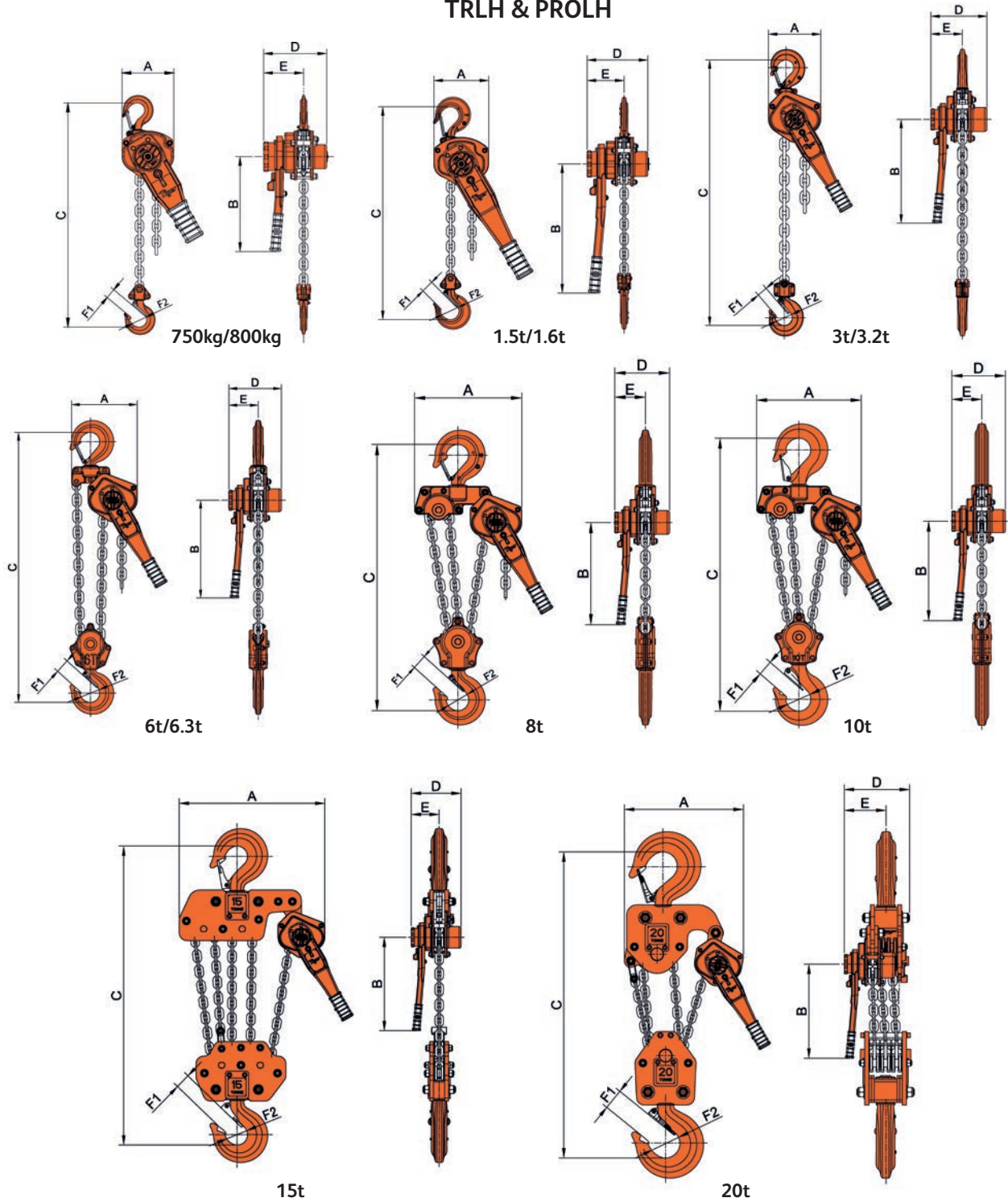
Available with clevis adaptor fittings (see page 16) and load limiters on request..



Mini Series

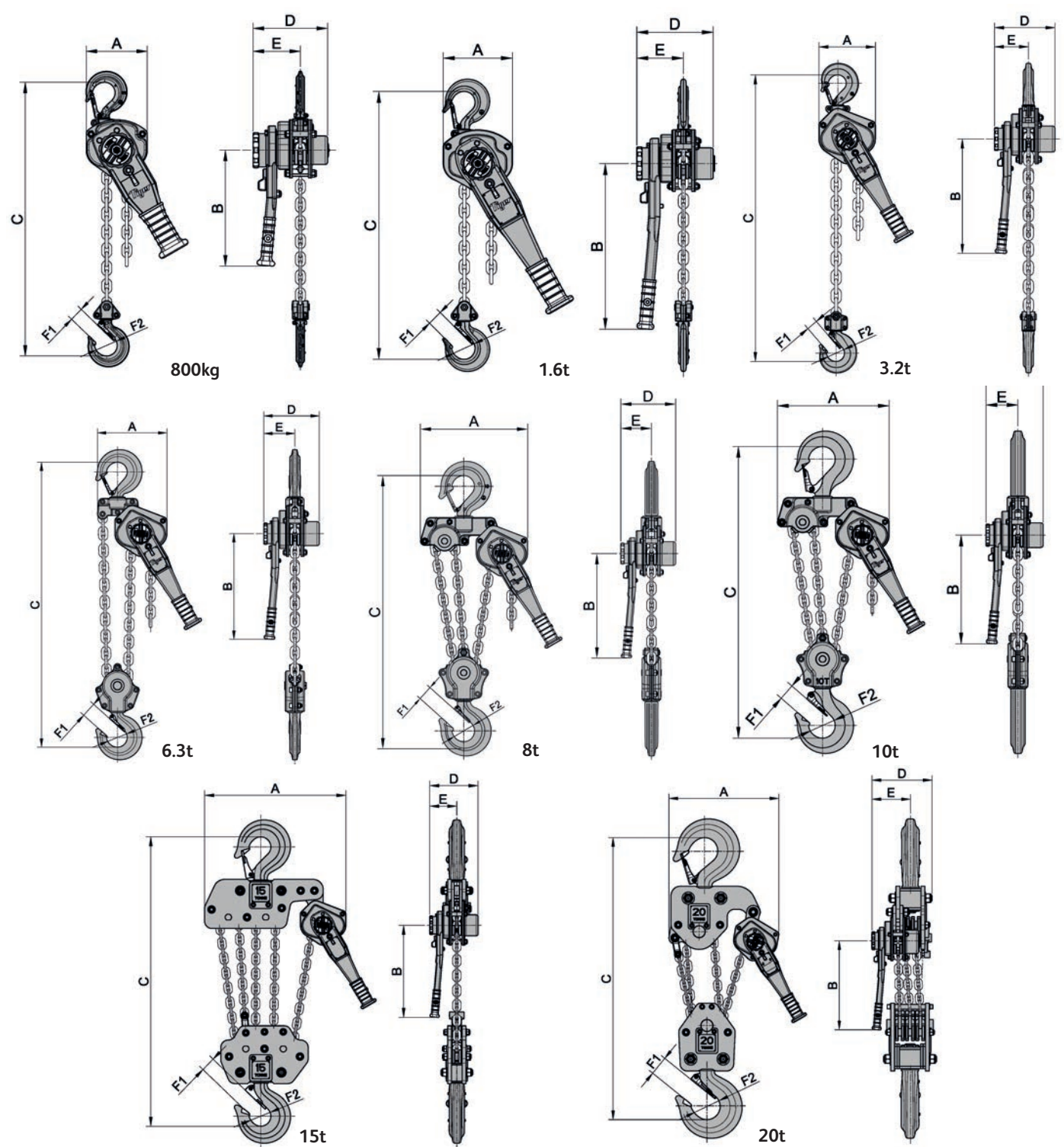


TRLH & PROLH



Specialist SS19

Product Code	Capacity (tonne)	Effort (kg)	Dimensions (mm)							Load Chain		Standard HOL (m)	Weight @ std HOL (kg)	Weight for extra metre HOL (kg)
			A	B	C	D	E	F1	F2	Diameter (mm)	No. of falls			
SS-0080	0.8	23	128	243	295	158	99	28	45	6.3	1	3	9.0	0.9
SS-0160	1.6	28	154	370	320	172	104	34	51	7.1	1	3	12.5	1.1
SS-0320	3.2	40	182	370	400	195	108	36	56	10.0	1	3	22.0	2.2
SS-0630	6.3	42	242	370	570	195	108	49	70	10.0	2	3	34.5	4.3
SS-0800	8.0	38	379	370	580	195	108	51	78	10.0	3	3	52.0	6.5
SS-1000	10.0	47	379	370	630	195	108	54	87	10.0	3	3	55.0	6.5
SS-1500	15.0	44	566	370	840	195	108	59	81	10.0	5	3	128.0	10.8
SS-2000	20.0	49	470	370	1050	250	160	81	110	10.0	6	3	174.0	13.1



Subsea & multi-immersion



After successfully completing a series of third party verification and testing programmes, our latest being a multi-immersion programme of tests over 54 days developed and agreed by industry professionals and independently carried out and verified at ORE Catapult in the UK (a leading technology innovation and research centre for offshore renewable energy), we can state that the Tiger SS range of lever hoists and chain blocks are suitable for use in multi-immersion applications providing the timescales, pre-use testing, maintenance and service requirements as detailed in Tiger document Multi-Immersion Instruction Manual are strictly followed.



We used a subsea dock including a replica seabed



Saltwater was pumped in from the Blyth Estuary (North Sea)



HOISTING

We have also carried out intensive internal testing to ensure we achieved over 1500 hours protection to ASTM B117 conditions. This ensures the performance of the SS ranges has been fully challenged in natural environments similar to the conditions they will be exposed to.

Tiger SS19 and SS20 hoists are completed with a two-stage finish combining electroplating as a base layer and then finished with a very hard-wearing sand texture powder coating paint which offers excellent corrosion protection and high impact protection ideally suited for multi-immersion applications. Paint finish in accordance with ISO12944 C5M.

We use new-technology, wide temperature range, high performance premium grease. It contains no heavy metals or other harmful or environmentally undesirable additives. This selection achieves the correct viscosity to prevent the grease migrating from the area of application. Even when mixed with 50 % high water absorption it has excellent adhesion and no sign of breakdown after 100,000 strokes and remains unchanged with no slump or breakdown unlike other "premium" greases. Load carrying ability, mechanical stability, corrosion protection, water resistance and increased operating temperature ranges are all improved by the using only the very best lubricant.

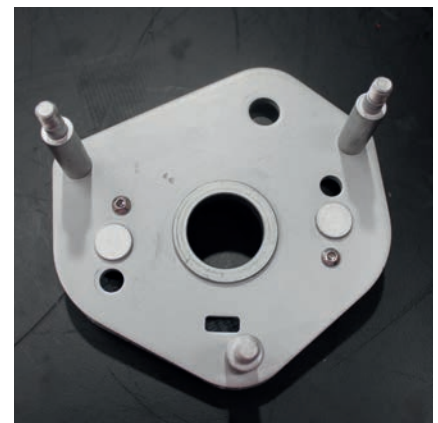
Standard operating temperature range -40°C to +80°C - far exceeding the requirements of current standards. Ultra-low operating temperature units also available to -60°C.



We have incorporated DU® self-lubricating metal polymer bearings into our multi chain fall load sheaves. Their high wear resistance and extremely low friction properties makes them ideally suited to hoists used subsea.



Our latest forged latches incorporate a new wing design making them easier to operate in the operation area (e.g. wet gloved hands for offshore or subsea use).



Tiger only utilise phosphor bronze bearings on hoists. The tin content increases the corrosion resistance and strength of the alloy, the phosphorus increases the wear resistance and stiffness of the alloy. This makes them ideally suited for subsea environments.

Chain blocks



All chain blocks are manufactured from the highest quality materials precisely machined in our own factory, offering a lightweight, compact and rugged construction; producing an exceptionally strong product resistant to impact damage. The especially low headroom allows for easy installation in the most restricted environments and all units come with drop forged and heat treated alloy hooks. The highly efficient brake systems work instantly when the operation is stopped and securely holds the load. Loads are lowered under perfect control, allowing for precise operations. Tiger chain blocks easily pass the brake lock out test as per BS 3243:1990 with a 2% load of the rated capacity. PROCB and SS20 are available with forged clevis adaptor components. They can be chained to any height of lift to meet exact requirements and individual spares are readily available. The PROCB/SS20 chain block top hook can be replaced by a competent person so the block can be directly fitted to our beam trolley range of the equivalent capacity achieving the lowest possible headroom. All chain blocks meet or exceed all international standards within BS EN 13157:2004+A1:2009, ANSI/ASME B30.16, AS1418.2 and SANS 1594.

Industrial TRCB



- Range from 500kg-5.0t
- Safe and reliable twin pawl mechanical brake
- Operating temperature -25°C to +80°C
- Double cover protection for break cover



250kg PROCB

Professional PROCB



- Range from 250kg-35.0t
- Patented Quad Cam Pawl System
- DNV GL Verification tested according to NORSOK R-002
- Operating temperature -40°C to +80°C (temperature range of -60°C to +80°C available as an option)
- Double cover protection for break cover
- Tested and certified for “fleeting” “drifting” and “cross-hauling” applications up to 45° from the vertical without deration
- Suitable for underground mining use
- Available with slipping clutch overload protection
- Optional chain carrier
- Phosphor bronze bearings

Specialist SS20



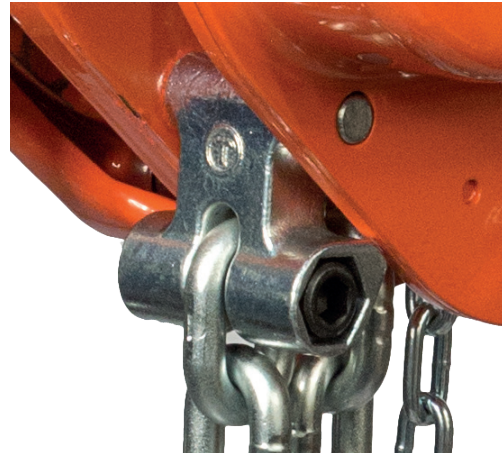
- Range from 500kg-35.0t
- All the features of the PROCB as well as the following additional features:
- Suitable for use in multi-immersion applications (see p21)
- Corrosion protected load and hand chain
- Marine specific friction discs
- Marine chain bags available on request
- Fully corrosion protected body and components to ensure reliable long term use
- Stainless steel fixings and fasteners
- New technology high performance grease
- Winged design latches for easier operation
- Ultra-low operating temperature units available

See our technical sheet for full details:





Double Cover Protection on all our chain blocks: both the hand chain wheel cover and the ratchet brake cover are designed to offer protection to the brake chamber in the harshest environments from foreign objects.



Our chain end anchors will hold a load of at least 2.5 times the rated capacity when supporting the full load without restraint from other components e.g. brake or gearing. This prevents accidents, by acting as a stop when the lift length of the load chain is exceeded when lowered. The image shows our special strong and contoured design used on our PROCB and SS20 ranges.



For chain blocks to be used up to an angle of 45 degrees, it's critical that the hand chain leaves and enters the hand wheel without twisting, snagging or jamming. Thanks to our specially designed deep-profile chain block hand wheel this is achievable as it helps to seat the chain no matter what angle or direction of pull.



Our specialist SS20 has unique corrosion protection of all the internal parts including load and hand chain, ensuring over 1500 hours continuous protection under ASTM B117 Salt spray conditions.



Recessed forgings offer full protection to the load chain anchor bolts on all our bottom hooks. Load sheave protected design on all multi fall hooks.



Optional chain carrier.

Available with clevis adaptor fittings (see page 16) and load limiters on request.

Industrial TRCB

Product Code	Capacity (tonne)	Effort (kg)	Dimensions (mm)							Load Chain		Standard HOL (m)	Weight @ std HOL (kg)	Weight for extra metre HOL (kg)
			A	B	C	D	E	F1	F2	Diameter (mm)	No. of falls			
TRC-0050	0.5	21	93	66	305	52	78	24	38	6.3	1	3	10.5	1.9
TRC-0100	1.0	25	93	66	340	63	87	28	45	6.3	1	3	11.5	1.9
TRC-0150	1.5	32	98	73	385	78	102	34	51	7.1	1	3	16.0	2.1
TRC-0200	2.0	34	101	79	420	87	113	35	53	8.0	1	3	20.0	2.4
TRC-030T	3.0	34	98	73	488	60	148	36	56	7.1	2	3	23.0	3.2
TRC-0500	5.0	37	101	79	575	122	209	49	70	8.0	3	3	37.5	5.2

Professional PROCB

Product Code	Capacity (tonne)	Effort (kg)	Dimensions (mm)							Load Chain		Standard HOL (m)	Weight @ std HOL (kg)	Weight for extra metre HOL (kg)
			A	B	C	D	E	F1	F2	Diameter (mm)	No. of falls			
CB-0025	0.25	17	64	40	240	36	60	22	31	4.0	1	3	3.8	0.5
CB-0050	0.5	21	93	66	305	52	78	24	38	6.3	1	3	10.5	1.9
CB-0100	1.0	25	93	66	340	63	87	28	45	6.3	1	3	11.5	1.9
CB-0150	1.5	32	98	73	385	78	102	34	51	7.1	1	3	16.0	2.1
CB-0200	2.0	34	101	79	420	87	113	35	53	8.0	1	3	20.0	2.4
CB-020L	2.0	42	98	73	399	78	102	35	53	7.1	1	3	16.5	2.1
CB-0300	3.0	38	109	84	500	98	157	36	56	10.0	1	3	30.5	3.2
CB-030T	3.0	34	98	73	488	60	148	36	56	7.1	2	3	23.0	3.2
CB-0500	5.0	37	101	79	575	122	209	49	70	8.0	3	3	37.5	5.2
CB-0600	6.0	38	109	84	635	86	220	49	70	10.0	2	3	45.5	5.3
CB-0800	8.0	34	109	84	610	153	263	51	78	10.0	3	3	61.0	7.5
CB-1000	10.0	40	109	84	660	153	263	54	87	10.0	3	3	64.0	7.5
CB-1500	15.0	41	109	84	840	225	378	59	81	10.0	5	3	128.5	11.8
CB-2000	20.0	43	161	90	1050	148	360	81	110	10.0	6	3	178.5	14.2
CB-200T	20.0	43	161	161	1050	383	383	81	110	10.0	6	3	210.5	15.2
CB-3000	30.0	42	220	220	1200	390	390	91	135	10.0	10	3	307.0	23.8
CB-3500	35.0	40	240	240	1200	390	390	91	135	10.0	12	3	365.0	27.0

Specialist SS20 (also used for ROV compatible chain block)

Product Code	Capacity (tonne)	Effort (kg)	Dimensions (mm)							Load Chain		Standard HOL (m)	Weight @ std HOL (kg)	Weight for extra metre HOL (kg)
			A	B	C	D	E	F1	F2	Diameter (mm)	No. of falls			
SCB-0050	0.5	21	93	66	305	52	78	24	38	6.3	1	3	10.5	1.9
SCB-0100	1.0	25	93	66	340	63	87	28	45	6.3	1	3	11.5	1.9
SCB-0150	1.5	32	98	73	385	78	102	34	51	7.1	1	3	16.0	2.1
SCB-0200	2.0	34	101	79	420	87	113	35	53	8.0	1	3	20.0	2.4
SCB-0300	3.0	38	109	84	500	98	157	36	56	10.0	1	3	30.5	3.2
SCB-0500	5.0	37	101	79	575	122	209	49	70	8.0	3	3	37.5	5.2
SCB-0600	6.0	38	109	84	635	86	220	49	70	10.0	2	3	45.5	5.3
SCB-0800	8.0	34	109	84	610	153	263	51	78	10.0	3	3	61.0	7.5
SCB-1000	10.0	40	109	84	660	153	263	54	87	10.0	3	3	64.0	7.5
SCB-1500	15.0	41	109	84	840	225	378	59	81	10.0	5	3	128.5	11.8
SCB-2000	20.0	43	161	90	1050	148	360	81	110	10.0	6	3	178.5	14.2
SCB-3000	30.0	42	220	220	1200	390	390	91	135	10.0	10	3	307.0	23.8

Wire rope puller



The manual wire rope puller is a hand operated lifting and pulling device. The puller could also be used for lowering, tensioning and guying which makes it a versatile, portable and multipurpose tool.

The principle function of the wire puller is that the rope passes through mechanical jaws rather than being reeled on a drum of a puller or conventional winch.

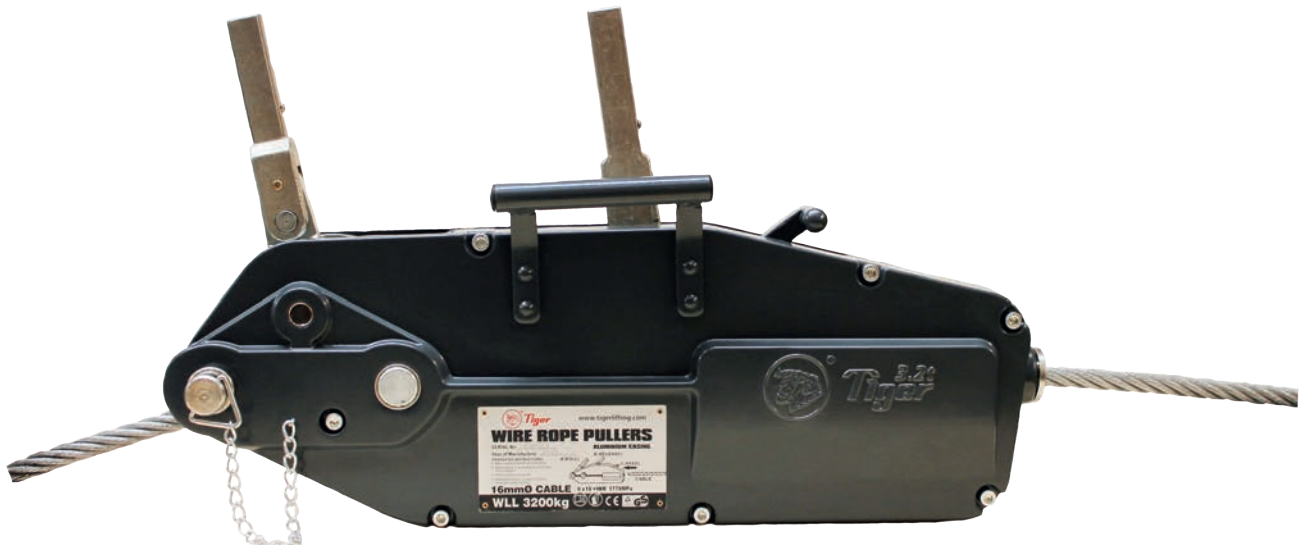
The tension of the rope is applied by means of two pairs of self-energised jaws which apply a grip onto the wire rope in sections.

The effort is transferred to the jaws by two parallel levers, one for forward operation and the other for reverse operation. A telescopic bar, fitted to either the forward or reverse lever, transmits the effort to the jaw mechanism.

This parallel clamping system provides an evenly distributed grip at a lower force, resulting in less rope wear. The load is held securely at all times.



TRPA (Steel)



TRPA (Aluminium)

- Range from 800kg to 5400kg (Lifting Capacity)
- Lightweight manual pulling machines - simple and safe to operate
- Corrosion free aluminium alloy casing
- Steel versions also available
- Rope clamp system easily disengaged with a lever allowing smooth installation of wire rope
- Individually serial numbered for traceability
- Usable at horizontal, vertical and angled working positions
- Equipped with an anchor bolt offering numerous connection possibilities
- Supplied with relevant certification and user instructions
- Compact high-strength
- 20m steel wire with eye hook as standard
- Overload protection built in, with a shearing pin in the forward lever
- Shear pins can be replaced without removing the load
- Spare shear pins supplied
- Parallel clamping system providing evenly distributed grip at a lower force, resulting in less rope wear

Tiger wire rope pulling machines are suitable for pulling, lifting, tensioning and releasing in any direction.

They are available in light and compact aluminium or pressed steel construction for applications where aluminium is not recommended.

The wire rope puller comes with a telescopic operating handle* and 20 metres of wire rope fitted with an eye-type hook as standard. Any length of rope can be supplied to your requirements. Alternatively the wire rope puller is available as a machine only, without wire rope. (*the operating handle with the 800kg TRPA/TRPS is not telescopic)

These units meet and exceed all the requirements within BS EN 13157:2004+A1:2009.

Product Code (ALUMINIUM CASING)	WLL (kg)	Pulling Capacity (kg)	Rope Diameter (mm)	Breaking Strain (kN)	Effort (kg)	Advance/ Pull (mm)	Net Weight (kg)	Overall Length (mm)	Overall Height (mm)	Overall Width (mm)
TRPA-08	800	1200	8.3	43	35	52	6.0	426	235	64
TRPA-16	1600	2400	11	120	41	55	11.0	545	280	97
TRPA-32	3200	4800	16	162	45	28	22.0	660	325	116
TRPA-54	5400	8000	20	264	76	30	59.0	930	480	152

Product Code (STEEL CASING)	WLL (kg)	Pulling Capacity (kg)	Rope Diameter (mm)	Breaking Strain (kN)	Effort (kg)	Advance/ Pull (mm)	Net Weight (kg)	Overall Length (mm)	Overall Height (mm)	Overall Width (mm)
TRPS-08	800	1200	8.3	43	35	52	8.0	440	265	63
TRPS-16	1600	2400	11	120	41	55	14.5	550	300	77
TRPS-32	3200	4800	16	162	45	28	28.0	690	350	91

Increase the pulling and lifting capacity:

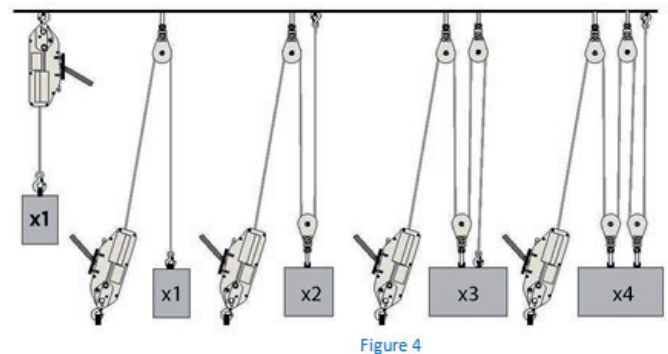
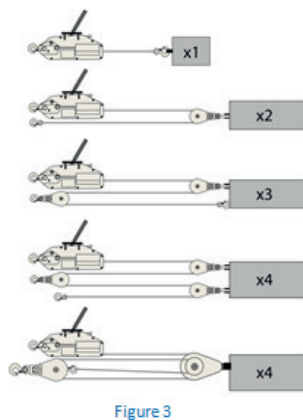
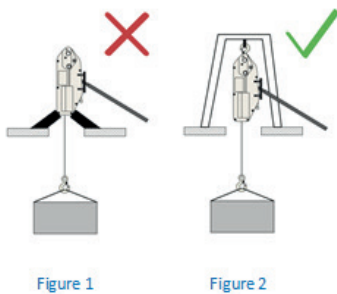
Various methods of rigging are shown. For the correct and incorrect method refer to figures 1 and 2. Other methods of rigging will increase the capacity of the machine – refer to figures 3 and 4.

In examples 3 and 4 the maximum working load limit (WLL) of the pulley and anchor point shall be equal to or greater than two times the WLL.

NOTE: When the wire rope puller is anchored directly to a fixed point, ensure that there are no obstructions around the machine which could prevent the wire rope, puller and anchor from operating in a straight line.

It is recommended to use a sling of similar capacity between the anchor point and the unit.

WARNING: Any rigging configuration which requires the calculation of forces applied should be checked by a competent engineer, with special attention to the strength of the fixed point used.



Brake hand winch BHW



The Tiger Brake Winch is a high quality multi-purpose winch used for a wide variety of lifting and hoisting applications. The automatic brake ensures the load remains suspended when the crank is released and avoids unchecked descent of the load; there is no freewheeling making the hand winch extremely safe to operate. All the mechanical components are enclosed for protection against dust, dirt and rain contamination. This equipment has a lifting capacity ranging from 800lbs to 2600lbs. The BHW is compact and lightweight yet rugged and durable. These units meet and exceed all the requirements within BS EN 13157:2004+A1:2009.

- The original brake hand winch
- High quality multi-purpose winch
- Automatic load-actuated brake can hold the load in any position
- Compact, light-weight and rugged construction
- Gears and brakes fully covered to prevent dust, dirt and rain contamination
- Heat treated gears
- Very low operator effort required for easy operation
- Dual handle pinion shaft option available on all models, allows handle to be fitted on both sides
- Universal mounting plate
- Available as 800lb, 1200lb, 1800lb and 2600lb models.
- For cable and strap
- Finished in high quality powder coat paint offering excellent corrosion protection
- Noiseless 1200lb model available
- Fully corrosion protected versions available
- 3D Drawings available on full range for project planning
- Operating temperature of -40°C to +80°C (temperature range of -60°C to +80°C available as an option)



Dual Handle Option



Noiseless 1200lb model (BHW-1200-N)

Product Code	Pulling capacity (lbs/kg)	Lifting capacity (lbs/kg)			Gear ratio	Hub dia Ø (mm)	Handle length (mm)	Unit weight (kg)	Cable diameter (mm/inch)	Cable storage cap. (m)	Strap storage cap. (m)
		1st Layer	Mid Layer	Last Layer							
BHW-0800	800/370	800/370	560/254	400/185	4.1:1	Ø40	160	3.0	Ø4/Ø5/32	36	9.1
BHW-1200	1200/550	1200/550	864/392	600/275	4.1:1	Ø50	210	3.5	Ø5/Ø3/16	23	8.5
BHW-1200-N	1200/550	1200/550	864/392	600/275	4.1:1	Ø50	210	4.0	Ø5/Ø3/16	23	8.5
BHW-1800	1800/820	1800/820	1239/562	900/410	5:1	Ø70	320	8.0	Ø6/Ø1/4	24	14.1
BHW-2600	2600/1200	2600/1200	1861/844	1300/600	10:1	Ø82	320	10.5	Ø8/Ø5/16	18	10.6

Corrosion resistant version

This model has a fully corrosion protected body and components to ensure reliable long-term use. The external coating is completed with a two-stage finish combining electroplating as a base layer and then finished with a very hard-wearing sand texture powder coating paint which offers excellent corrosion protection and high impact protection. This coating has been proven to be effective through at least 1500 hours of the ASTM B 117 Salt Spray Test and gives the properties of stainless steel without the cost implications.



Ceiling mounted winches



Ceiling Mounted Winch SF-5000 (wire)/SF-5000-S (strap)

- 5000lb/2270kg capacity
- Split reel, which allows for operation of two cables
- Loop drive allows the winch to be mounted out of reach and operated with an extension pole fitted to engage the loop
- Various loop sizes available
- Positive load-actuated brake can hold the load in any position
- Gears and brake are fully covered to prevent dust, dirt and rain contamination
- Very low operator effort is required for easy operation



SF-5000



SF-5000-S

Electric Ceiling Mounted Winch SF-5000E (wire)/SF-5000E-S (strap)

- 5000lb/2270kg capacity
- Compact and light weight
- Split reel, which allows for operation of two cables
- Completely sealed to prevent dust, dirt and rain contamination
- Brake motor for quick and safe stopping
- Very low operator effort is required for easy operation
- Powerful and smooth
- Can be operated manually during power failure (option)
- Widely used in the poultry industry
- Multiple winches can be linked to control boxes as an option



SF-5000E



WL-4600

Heavy Duty Worm Gear Winch WL-4600

- 4600lb/2090kg capacity
- Self-braking
- Available in regular or split reel, which allows for operation of two line or cables for greater versatility
- Completely sealed to prevent dust, dirt and rain contamination

Hand winches



General Purpose Hand Winch
HW-2000

- 2000lb/900kg capacity
- Available in regular or split reel, which allows for operation of two line or cables for greater versatility
- Available in handle or loop drive models
- Can be ceiling mounted with loop drive

General Purpose Hand Winch
HW-1200

- 1200lb/545kg capacity
- Ability to disengage the gear to allow fast pay out of the cable

General Purpose Hand Winch
HW-0600

- 600lb/270kg capacity
- Ability to disengage the gear to allow fast pay out of the cable

Operating temperature -40°C to +80°C (temperature range of -60°C to +80°C available as an option)

Product Code	Split Reel	Pulling Capacity (lbs/kg)	Hand Force Required (kg)	Gear Ratio	Hub Diameter (mm)	Handle Length (mm)	Unit Weight (with handle) (kg)	Unit Weight (with loop) (kg)	Cable Diameter (mm/inch)	Cable Storage Cap. (m)
HW-0600		600/270	7	3.1:1	Ø19	175	2.2	N/A	Ø4.0/ Ø5/32	28
HW-1200		1200/545	20	4.1:1	Ø50	210	2.8	N/A	Ø4.8/ Ø3/16	29
HW-2000-S	Yes	2000/900	4.5	41:1	Ø48	190	5.7	5.4	Ø4.8/ Ø3/16	8.8 per side
HW-2000		1000/450	2.25	41:1	Ø48	190	5.5	5.2	Ø4.8/ Ø3/16	17.6

For winches with split reels, each side has half the capacity