



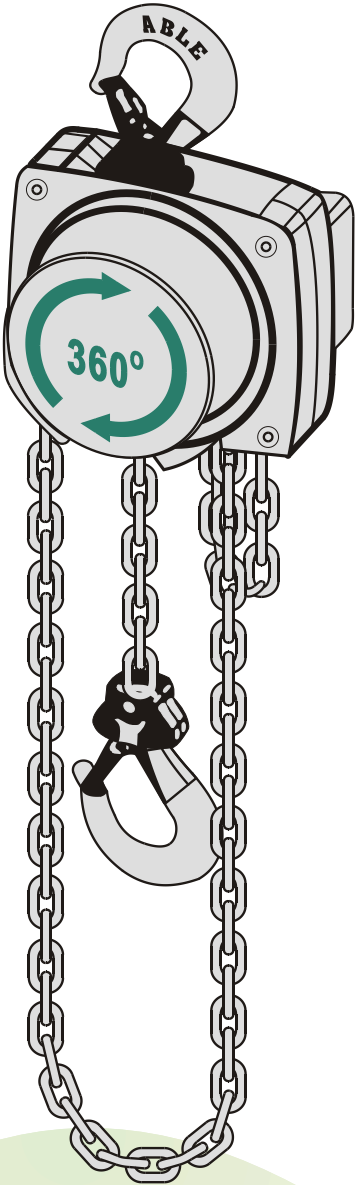
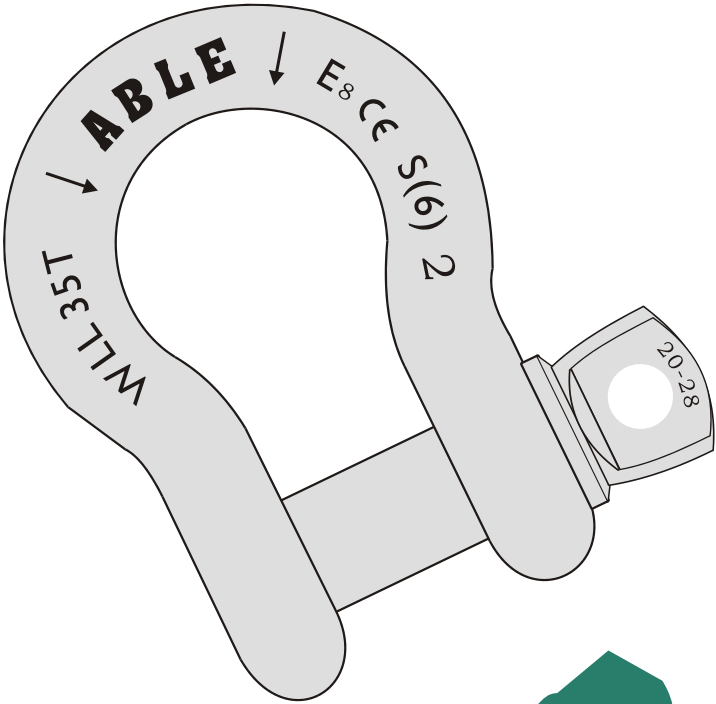
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**Distribution Network**



www.ableforge.com



The Independent Mark of Quality



Website: [www.ableforge.com](http://www.ableforge.com)



ABLEFORGE MFG INC. PRODUCTION BASE

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## ABLE Philosophy

There is hardly anything in the world that someone cannot make a little worse and sell a little cheaper, and the people who consider price alone are that person's lawful prey. It's unwise to pay too much, but it's worse to pay too little. When you pay too much, you lose a little money - that is all. When you pay too little, you sometimes lose everything, because the thing you bought is incapable of doing the thing it was bought to do. The common law of business balance prohibits paying little and getting a lot - it can't be done. If you deal with the lowest bidder, it is well to add something for the risk you run, and if you do that you will have enough to pay for something better.

OR

**YOU COULD JUST BUY ABLE FROM THE START.**

## Brand Introduction



The independent Mark of Quality in Lifting Equipment, Rigging gear, Cargo Lashing system. ABLE is a trademark registered in United States of America for rigging and lifting gears, equipment and products of Ableforge Mfg Inc. We design, manufacture and test our products to international safety standards. ABLE is currently used in heavy industries worldwide.

## Mission Statement

### ■ To our customer

A progressive company providing values enhancing highest performance material lifting parts, products and services in a professional and innovative manner.

### ■ To our employee

A forward looking company which rewards individuals of hard work and dedication and facilitate them to full potential.

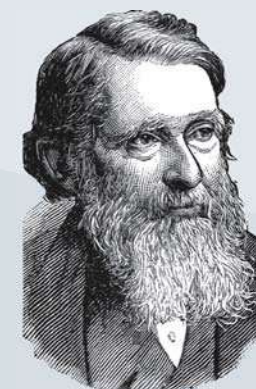
### ■ To our shareholders

A socially responsible company which yields better returns than other industry to shareholders in suitable ways.

## Message from the CEO

Our progressive company aims at providing the most valuable and highest performance material lifting parts, products and services to you, our value customers. We believe that we are elements of your competitiveness in the world professional attributes and innovative capability are completely integrated as well as bundled with our integrity in giving the excellent services and supports to you.

**Mr. Ben Lau**



*John Ruskin*

John Ruskin  
1819-1900

*Your preferred partner*

# Contents



## QUALITY MANAGEMENT SYSTEM

The company is committed to achieving high customer satisfaction through the four (4) pillars of our quality system :

### CUSTOMER SATISFACTION:

We believe the only way to guarantee Customer Satisfaction is to ensure Process Consistency. Today's quality product supply ensures tomorrow's repeat order. We know and understand the concept that Excellence requires Continuous Improvement.

### INTERNAL AUDITS:

Our Management Representative and Internal Quality Auditors plan and carry out auditing activities to ensure that the quality system is relevant and effective, Internal and External Audit Reports will be objectively analyzed and where applicable, have recommendations submitted for the continuous improvement of the Quality Management System.

### QUALITY:

We work closely with our steel suppliers in order to ensure that the raw material meets our stringent specification.

### PRODUCT IMPROVEMENT:

The Maintenance of Excellence requires Continuous Improvement - Ableforge will guarantee compliance to your country's National Standards - feel free to speak to us about your specific needs. All ABLE products are manufactured to ISO9001, ISO3077, EN13157, EN818-1 and Federal Specification.

## PRODUCT TRACEABILITY

All products manufactured, inspected, tested and sold by us are traceable to its respective date of production and material certification.

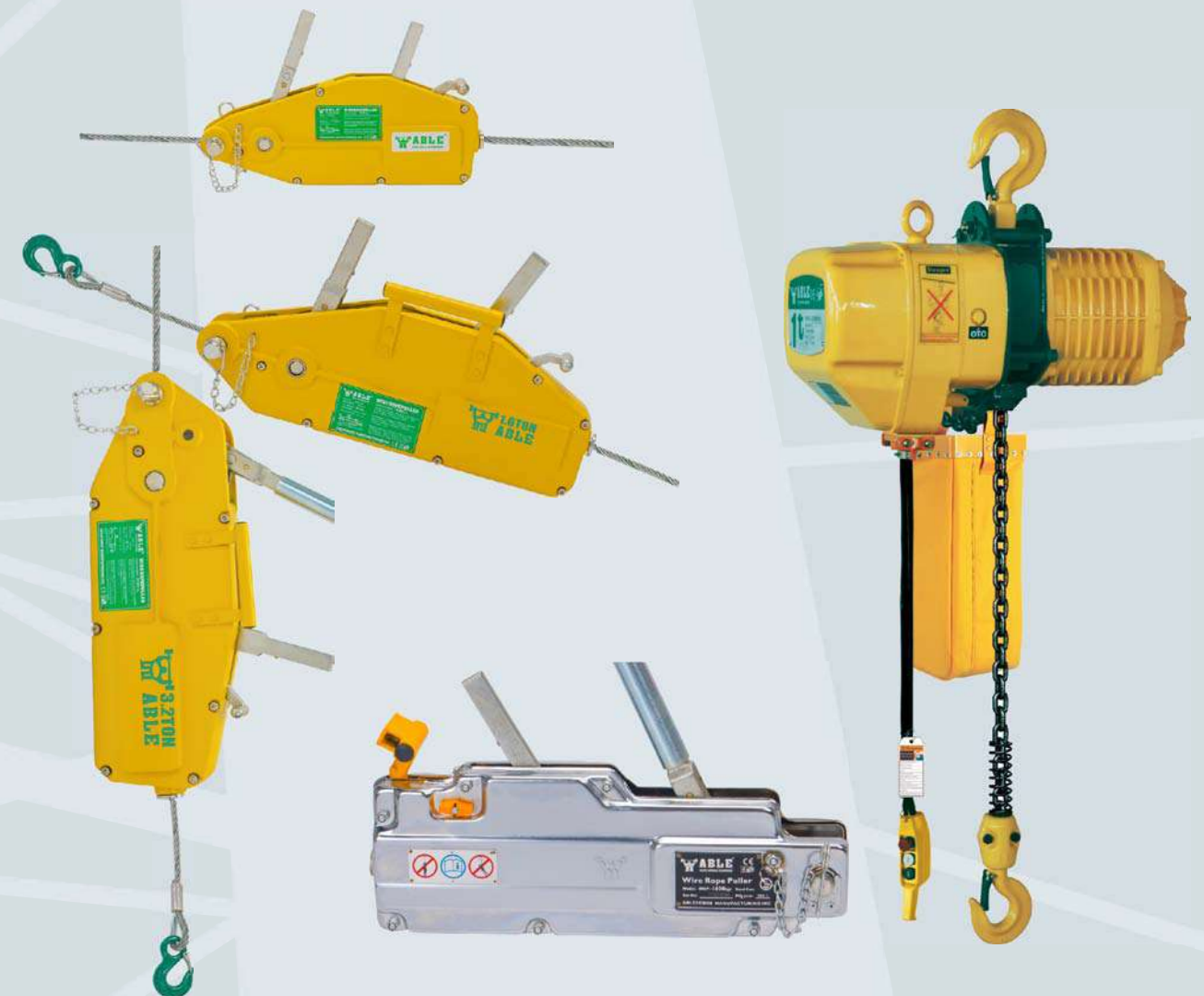
## MANUFACTURING WARRANTY

All products supplied and installed are warranted against defects in merchantable quality and workmanship. Our warranty is limited to replacement without charges and that the defect is not due to the negligence of damage to property, repair, incidental and consequential damages shall under no circumstances be entertained or allowed. We specifically disclaim and the customer any warranty of fitness of the product's purpose, intended use and latent defects.

## CERTIFICATION AND PROOF OF COMPLIANCE

All products, fittings and assemblies are factory tested and inspected according to stringent international standards. Quality Control is conducted, audited and certified by independent third party QC controllers and inspectors at every stage of the production cycle from raw material to finished product upon which our Certification of Test and Examination is issued. Certification by Classification Societies is also available upon request.

## CABLE PRODUCT PHOTO GALLERY



• All ABLE® product are tested to and fulfill international safety standards.



Report no. 19-19611-SG-09	Project no. 1546233	Report date: 15 Mar. 2019	Office: Singapore
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## REPORT OF ACTIVITY

<b>General scope of activity:</b> Document Review and Witness Load Test	<b>Dates of all related activity:</b> 12 March. 2019
<b>Client:</b> Company name: "Zentr Gruzopodernogo Oborudovanja" Ltd Address: Republic of Belarus 223053, Minsk region Borovaya 3/37 Contact(s): Shuvalov Yuri PO/shop/contract or job no: 00763 <b>Component description(s):</b> 1. ABLE LB-I Lever Hoist w/1.5mtr chain & hook, 3/4Ton	<b>Supplier:</b> PO/shop/contract or job no: ABLE19005  <b>Results:</b> Meets requirements <input checked="" type="checkbox"/> Subject to condition(s) noted <input type="checkbox"/> Does not meet requirements <input type="checkbox"/>

This is to certify that the undersigned did at the request of "Zentr Gruzopodernogo Oborudovanja" Ltd attend the Manufacturer on 06 Mar. 2019 and subsequent date(s) in order to carryout the scope of services described below.

### 1.0 Scope of service activity:

The scope of activity included the following:  
1 Document review and witness load test

### 2.0 Details:

- 1 Review of mill certificates and heat treatment records.
- 2 Proof Load Test to 1.5 times WLL
- 3 Break Load Test to 5.0 times WLL

### 3.0 Identification of item(s) verified:

- 1 ABLE LB-I Lever Hoist w/1.5mtr chain & hook, 3/4Ton
- 2 Quantity: 500 pieces
- 3 Serial Nos.: 8005P001-8005P500

### 4.0 Conclusion:

- 1 Proof Load Test  
Proof load test on the randomly selected Lever hoist to 1.5 times the WLL and found in good working condition.
- 2 Break Load test  
Break load test were carried out on one piece of the Lever hoist and the chain block tested did not break at the load of up to 5 times WLL indicated.

### 5.0 Attachments:

- 1 (NIL)

Report prepared and submitted without prejudice.  
SEOW Eng Geh

*(Signature)*  


(Full name of representative, print & sign)  
Technical Representative  
ABSG Consulting Inc., Singapore

This Report is granted subject to the condition that it is understood and agreed that nothing herein contained shall be deemed to relieve any designer, manufacturer, seller, supplier, repairer or operator of any warranty, express or implied and the liability of ABSG Consulting Inc. (hereinafter referred to as ABS Consulting) shall be limited to the acts or omissions of its employees, agents or subcontractors. Under no circumstances whatsoever shall ABS Consulting be liable for any injury or damage to any person or property occurring by reason of negligent operation or any defect in materials, machinery, equipment or other items other than such defects ascertainable by normally accepted testing standards and only upon those items actually inspected by ABS Consulting and which are covered by this Report.

Form IS-2  
Reporting, SIZ-102-99-P02

Attachment B Rev. 1

# Chain Blocks and Lever Hoists



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Model: LB-I

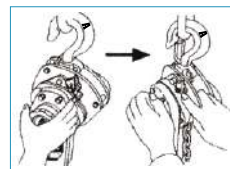
## LEVER BLOCK LB-I SERIES

### Technical Features

- One touch operation for free chain adjustment
- Grade 80 alloy load chain Iso and Jis standard
- Forged and Heat Treated load Hooks with batch traceability and stretch indicators

### Idling operation

- Depress the retaining pawl all the way and pull the grip ring towards you.
- The chain can be adjusted up and down by hand.
- To terminate the idling: Set the change lever in the down (↓) position. (See diagram as below). Then, depressing the retaining pawl as far as possible, push the grip ring gently so as to let the pawl engage the outer edge of the retaining plate. Next, grip the grip ring and handle with a single hand and push them while turning them counter-clockwise. The retaining pawl returns to its original position.

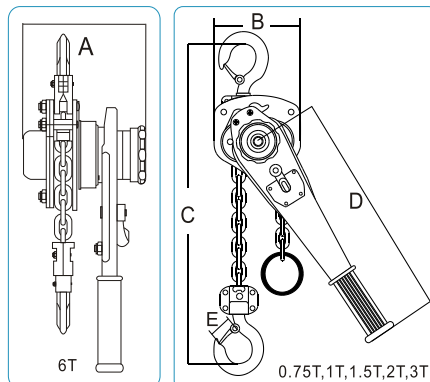


The specifications on this leaflet may be modified for improvement without notice.

Conform & tested acc to EN 13157:2004 +A1:2009, ANSI/ASME B30.21, AS1418.2 and SANS 1636.

Product code	Capacity Ton	Standard lift(m)	Test load Ton	Pulling Efforts kg	Chainfall NO .	Load chain Dia(mm)	Dimensions(mm)					Net weight kg
							A	B	C	D	E	
LB-I 050	0.50	1.5	0.75	11	1	6.3	148	128	295	256	30	6.6
LB-I 075	0.75	1.5	1.13	15	1	6.3	148	128	310	256	32	6.9
LB-I 100	1.00	1.5	1.50	16	1	6.3	148	128	310	256	32	6.9
LB-I 150	1.50	1.5	2.25	18	1	7.1	168	148	370	368	40	9.7
LB-I 200	2.00	1.5	3.00	24	1	8.0	168	148	370	368	40	10.1
LB-I 300	3.00	1.5	4.50	38	1	9.0	191	180	460	368	46	16.1
LB-I 600	6.00	1.5	9.00	39	2	9.0	191	236	600	368	54	26.1

Individually proof load tested with individual serial number



Model: LB-II

## LEVER BLOCK LB-II SERIES

### Technical Features

- Superior Grade 80 load chain-Wafios link, Din standard.
- Forged and Heat Treated load Hooks with batch traceability and stretch indicators
- 360° handle rotation with stroke to ratchet indicators
- Double pawl Brake system
- Asbestos free Brake Linings
- Forged Safety Latch
- Sealed Roller Bearings
- 100% Load Tested to 1.5xWLL
- MBL of 400% of WLL

**ABLE** offers products that are designed for longtime use, providing the lowest possible per-use cost.

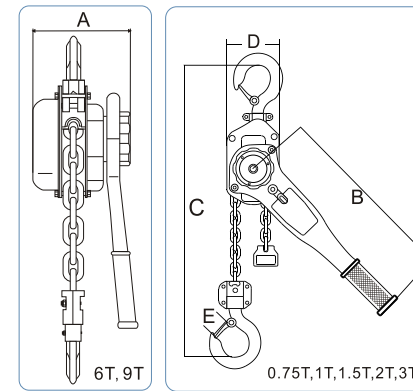


Hoist with the lift in extra lengths is available by extra cost upon request.

Conform & tested acc to EN 13157:2004 +A1:2009, ANSI/ASME B30.21, AS1418.2 and SANS 1636.

Product code	Capacity Ton	Standard lift(m)	Test load Ton	Pulling Efforts kg	Chainfall NO .	Load chain Dia(mm)	Dimensions(mm)					Net weight kg
							A	B	C	D	E	
LB-II 050	0.50	1.5	0.75	10	1	6	148	280	325	96	30	6.2
LB-II 075	0.75	1.5	1.13	14	1	6	148	280	340	96	32	6.5
LB-II 100	1.00	1.5	1.50	16	1	6	148	280	340	96	32	6.5
LB-II 150	1.50	1.5	2.25	22	1	8	172	410	380	110	40	11.0
LB-II 200	2.00	1.5	3.00	26	1	8	172	410	380	110	40	11.0
LB-II 300	3.00	1.5	4.50	32	1	10	195	410	500	145	46	18.7
LB-II 600	6.00	1.5	9.00	34	2	10	195	410	615	215	54	29.2
LB-II 900	9.00	1.5	13.5	34	3	10	195	410	710	325	64	41.0

Individually proof load tested with individual serial number





## ROTATION CHAIN HOIST

### Chain Hoist Revolution

- This innovative and patented hand chain hoist the Ableforge 360 is designed for heavy industrial applications.
- This 360° rotating hand chain guide allows hoist operations from various angles and helps **the operator stay out of the danger zone.**
- Premium brake system ensures safe operation, low maintenance and is extremely quiet.
- Sealed Roller Bearings

- Strength**  
Equipped with hardened load chain for optimum strength, flexibility and long wear life.
- Low maintenance**  
Enclosed housing allows outdoor use. The load brake requires no lubrication.
- Quality features**
  - Wheel cover with guide slots guard against jamming and slipping of chain.
  - Forged swivel hooks and latches prevent twisting of chain and reduce unintentional unhooking of the unit or the load.
  - Chain guide and stripper ensures proper fit of chain over pocket wheel.
  - Two-stage gear reduction with hardened gears and pinion.

### The black for entertainment industry



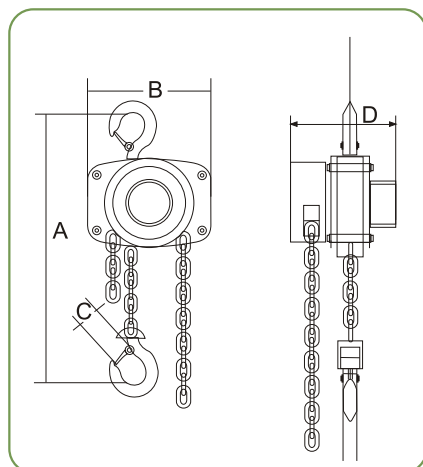
Rud chain can be assembled with extra cost upon request

Product Code	Capacity (Ton)	Lift (M)	Test Load (Ton)	Hand Chain Pull to Lift Rated Load (Kg)	Hand Chain Overhauled to Lift Load One Foot (M)	Dimensions(mm)				Net Weight (Kg)
						A	B	C	D	
CB360-010-025	1	2.5	1.5	25.00	14.93	356	169	32	136	10.71
CB360-010-030		3.0								11.61
CB360-010-060		6.0								16.51
CB360-020-025	2	2.5	3.0	32.00	21.64	430	198	40	150	15.33
CB360-020-030		3.0								16.93
CB360-020-060		6.0								23.13
CB360-030-025	3	2.5	4.5	28.00	43.28	560	225	46	150	22.59
CB360-030-030		3.0								24.39
CB360-030-060		6.0								35.19



Model: CB360

### The upfront

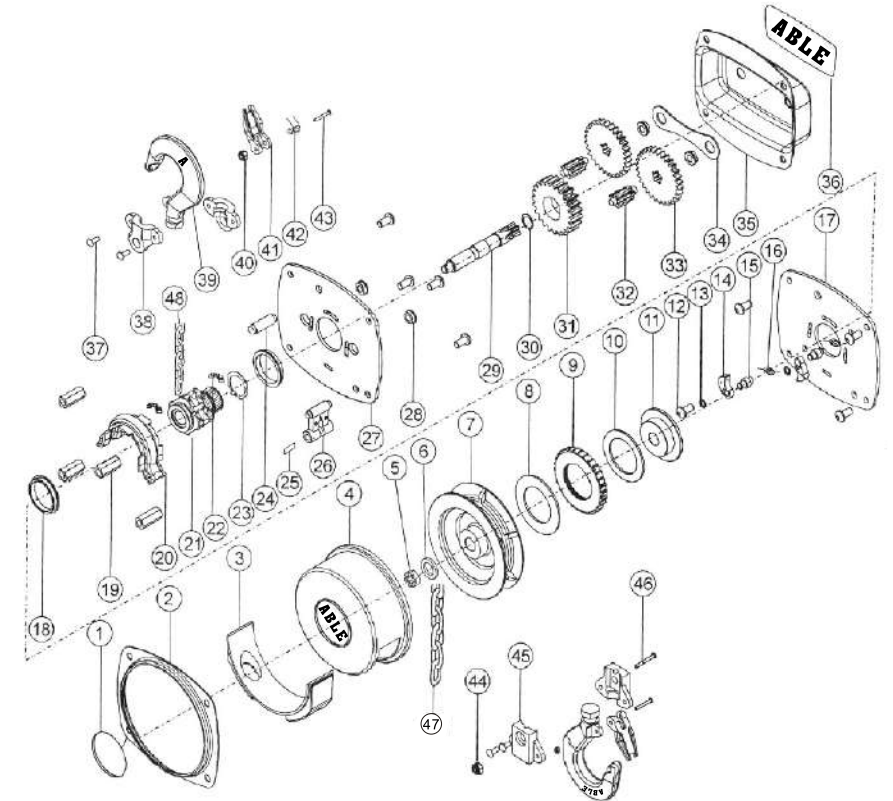


### The backward



## CB360 - NEW CONCEPTION CHAIN HOIST

### Exploded spare parts drawing



### CB360 Spare Parts List

No.	Quantity	Description	No.	Quantity	Description	No.	Quantity	Description
1	1	Name plate	17	1	Left side plate assembly	33	21	Disc gear assy
2	1	Chain wheel cover	18	2	Steel bush	34	1	Strengthen plate
3	1	Chain wheel cover ①	19	4	Stay pin	35	1	Sheet cover
4	1	Gear cover	20	1	Chain cover	36	1	Name Plate
5	1	Nut	21	1	Load chain sprocket	37	4	Hook rivet
6	1	Washer	22	1	Sealed roller bearing	38	2	Top Hook holder
7	1	hand wheel	23	1	Load chain sprocket	39	2	Hook
8	1	Friction Plate ①	24	1	Top hook shaft	40	2	Nut
9	1	Ratchet Disc	25	1	Sling plate pin	41	2	Safety Latch
10	1	Friction Plate ②	26	1	Sling plate	42	2	Spring
11	1	Brake seat	27	1	Right side plate assy.	43	2	Screw
12	8	Pin nut	28	4	Bearing race	44	1	Nut
13	2	Spring washer	29	1	Driving shaft	45	2	Bottom hook holder
14	2	Pawl	30	1	Spring washer	46	1	Bottom hook pin
15	2	Pawl pin	31	1	Splined gear	47	1	Hand chain
16	2	Pawl spring	32	2	Pinion shaft	48	1	Load chain





Model: CB-I

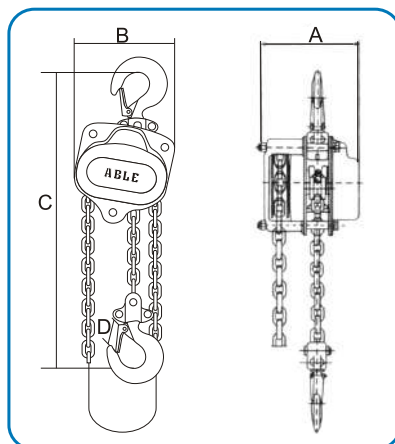
## CHAIN BLOCK CB-I SERIES

### Technical Benefits

- High-tech load chains are approved by DIN 5684, one of the world's most rigid standards. This is the special heat treated load chain of ISO Grade T (900N/mm<sup>2</sup>) whose tensile strength far surpasses ISO T class.
- Double pawls supporting fail-safe brake mechanism. Even if by any chance one of the two pawls becomes unserviceable, the other will still remain operative, and the brake system remains secure.
- Hooks of easier handling shape. The opening of the hooks has been made wider for easier handling and working. However if by any chance the hook is overloaded there is no fear of it breaking, it will simply gradually start straightening out, avoiding any load drop or personal injury.
- Tough framing. The tough gear case, reinforced with four ribs and four knock pins, provides accurate gear centering and high mechanical efficiency.
- Rolled-edge hand wheel cover. This provides smooth operation of the hand chain when pulled side ways. Strong and least corrosive electrostatic powder painting.
- Wet friction discs with longer life.
- Load sheave with sealed roller bearing.
- Anchor plate avoiding overlowering.



Sealed roller bearings inside



Hoist with the lift in extra lengths is available by extra cost upon request.

Conform & tested acc to EN 13157:2004 +A1:2009, ANSI/ASME B30.21, AS1418.2 and SANS 1636.

Product code	Capacity Ton	Standard lift(m)	Test load Ton	Pulling Efforts kg	Chainfall NO .	Load chain Dia(mm)	Dimensions(mm)				Net weight kg
							A	B	C	D	
CB-I 005	0.5	3.0	0.75	16	1	5.0	127	144	320	30	9.0
CB-I 010	1.0	3.0	1.50	24	1	6.3	147	157	345	32	11.9
CB-I 015	1.5	3.0	2.25	28	1	7.1	147	174	400	40	14.2
CB-I 020	2.0	3.0	3.00	32	1	8.0	179	204	415	40	20.2
CB-I 030	3.0	3.0	4.50	32	2	7.1	147	206	515	46	20.77
CB-I 050	5.0	3.0	7.50	36	2	9.0	179	263	650	54	37.26
CB-I 100	10.0	3.0	12.50	38	4	9.0	179	367	760	58	61.20
CB-I 150	15.0	5.0	18.75	38	6	9.0	210	460	900	68	122.48
CB-I 200	20.0	5.0	25.00	38×2	8	9.0	235	640	1000	80	175.35

Individually proof load tested with individual serial number



Model: CB-II

## CHAIN BLOCK CB-II SERIES

### Technical Benefits

- Superior Grade 80 load chain -Din standard. MBL is 400% of WLL, Elongation ≥10%.
- Forged and Heat Treated load Hooks with ABLE mark and stretch indicators
- Double Pawls supporting fail-safe brake mechanism. Even if by any chance one of the two pawls becomes unserviceable, the other will still remain operative, and the brake system remains secure.
- Asbestos free Brake Linings
- Individually proof load tested to 1.5×WLL with individual serial number
- Low maintenance. Enclosed housing allows outdoor use. The load brake requires no lubrication.
- Quality features
  - Wheel cover with guide slots guards against jamming and slipping of chain.
  - Forged swivel hooks with latches prevent twisting of chain and reduce unintentional unhooking of the unit or the load.
  - Chain guide and stripper ensure proper fit of chain over pocket wheel.
  - Two-stage gear reduction with hardened gears and pinion.



Chrome finish also available



Moving Products from one Place to another



Laying conduits and pipelines



Uprooting trees



Installing underwater pump

Hoist with the lift in extra lengths is available by extra cost upon request.

Product code	Capacity Ton	Standard lift(m)	Test load Ton	Pulling Efforts kg	Chainfall NO .	Load chain Dia(mm)	Dimensions(mm)					Net weight kg
							A	B	C	D	H	
CB-II 005	0.5	3.0	0.75	22	1	6	125	111	30	132	320	8.9
CB-II 010	1.0	3.0	1.50	31	1	6	147	126	32	154	350	11.4
CB-II 015	1.5	3.0	2.25	35	1	8	183	141	40	192	430	16.9
CB-II 020	2.0	3.0	3.00	41	1	8	183	141	40	192	430	17.1
CB-II 020A	2.0	3.0	3.00	31	2	6	147	126	40	154	455	14.8
CB-II 030	3.0	3.0	4.50	35	2	8	183	141	46	192	550	24.5
CB-II 050	5.0	3.0	7.50	39	2	10	215	163	54	224	660	38.8
CB-II 075	7.5	3.0	11.25	41	3	10	340	163	54	224	700	54.0
CB-II 100	10.0	3.0	12.50	41	4	10	378	163	77	224	810	84.0
CB-II 200	20.0	5.0	25.00	41×2	8	10	630	191	80	224	1000	185.0
CB-II 300	30.0	5.0	37.50	47×2	12	10	705	285	85	224	1380	263.4

Conform & tested acc to EN 13157:2004 +A1:2009, ANSI/ASME B30.21, AS1418.2 and SANS 1636.



Model: CB250

## MINI CHAIN BLOCK

### Technical Benefits

- CB 250 Chain Block is an efficient and versatile lifting tool, which is capable of being widely applied in factory, power plants, laboratory, transport and the home for installing machines, repairing, lifting goods and dragging and securing loads etc. It is particularly used in the narrow places, overhead working and in the open air, stretching at the various angles with superior advantages.
- Superior Grade 100 load chain - Wafios link
- Forged and Heat Treated load Hooks with batch traceability and stretch indicators
- Double Pawl brake system
- Asbestos free Brake Linings
- 100% Load Tested to 1.5 X WLL
- Sealed Roller Bearings
- 2000 Cycle Batch Test
- MBL of 400% of WLL



Moving Products from one Place to another



Laying conduits and pipelines



Uprooting trees



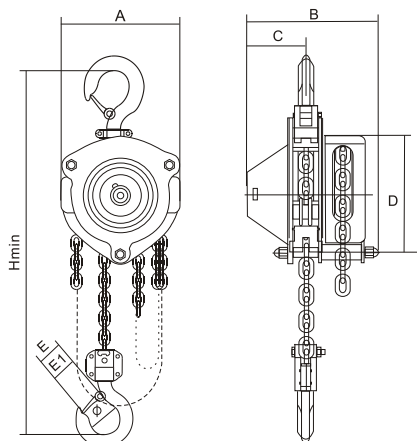
Installing underwater pump

### MINI CHAIN BLOCK SPECIFICATION

Product code	Capacity (kg)	Standard lift (m)	Test load (kg)	Headroom Hmin (mm)	Pulling Efforts (kg)	Load chain Dia×pitch (mm)	Chainfall NO .	Net weight kg
CB250	250	3.0	375	230	11.6	Φ 4×12	1	6.0

### Dimensions(mm)

Product code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	E <sub>1</sub> (mm)	Hand chain Dia×pitch (mm)
CB250	100	110	48.5	109	18	15.5	2.7×14.5



Model: LB250

## MINI LEVER HOIST

### Technical Features

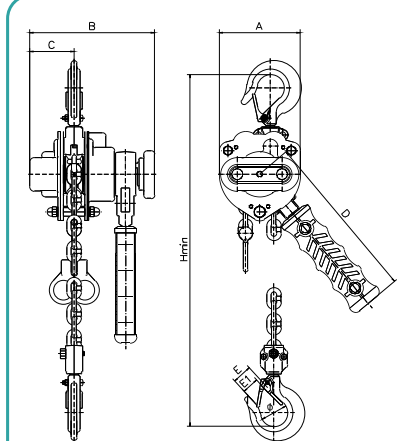
- LB 250 Lever Hoist is an efficient and versatile lifting tool, which is capable of being widely used in factory, power plants, communication, laboratory, transport and the home for installing machines, lifting goods, dragging loads and tightening goods etc.
- Superior Grade 100 load chain - chrome plated
- Forged and Heat Treated load Hooks with batch traceability and stretch indicators
- Double Pawl brake system
- Asbestos free Brake Linings
- 100% Load Tested to 1.5 X WLL
- Sealed Roller Bearings
- 2000 Cycle Batch Test
- MBL of 400% of WLL

#### Easy to attach Hook

The hook is locked into position, and can even be attached with just one hand.

#### One-Touch Adjustment

Chain length can be adjusted by simply setting the switching lever to the center (N) position.



### MINI LEVER HOIST SPECIFICATION

Product code	Capacity (kg)	Standard lift (m)	Test load (kg)	Headroom Hmin (mm)	Pulling Efforts (kg)	Load chain Dia×pitch (mm)	Chainfall NO .	Net weight kg
LB250	250	1.5	375	215	12.5	Φ 4×12	1	2.15

### Dimensions(mm)

Product code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	E <sub>1</sub> (mm)
LB250	75	116	41	157	18	15.5



Lifting



Lowering



Fastening



Pulling

Real Differences

#### 1 Easy Grip Handle

The handle shape is designed to not spread apart while being used, one-touch system keeps rainwater out to ensure long lever life.

#### 2 Completely Sealed Brake Section

For added safety, the brake section is completely sealed, protecting the brake pawl and brake plate from damage from foreign objects.

#### 3 Sealed Body

A sealed body means steady chain gripping, and a body that keeps out rain water, provides smooth operation, and is easy to handle.





## Certificate of Test & Inspection

It is hereby certified that this product was manufactured, tested & Inspected in accordance with Standards BS EN13157-2010 and ASI418.2 Compliance applies when fitted with Approved alloy hoisting chains EN818-7.

Product	:	Chain Block CB-I
Serial No.	:	C120000001

Date of Test:	Aug 10th, 2019	
Capacity:	1	Ton
Proof Load:	1.5	Ton
Lifting Height:	3	Mtrs
Dia. of Load Chain:	6.3	mm
Date of First Use:		

This hoist should be visually inspected prior to use and independently every 6 months, along with a proof test once a year.

I certify on behalf of the manufacturer that the items described herewith were tested and examined, the particulars of which appear correctly on this certificate.

### Ableforge Manufacturing Inc

Dallas 75229 - 1501, 11403 Mathis Dallas,  
Texas 75234 United States of America.  
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### Chief Quality Engineer

Howard Warner

Date: Aug 20th, 2019



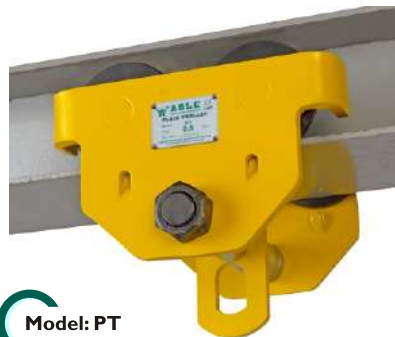
Dallas 75229 - 1501, 11403 Mathis Dallas,  
Texas 75234 United States of America.  
Tel : +1 215 657 3335  
Fax : +1 215 784 0343

## Plain Trolleys and Geared Trolleys



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Model: PT

- Heavy duty construction with premium quality
- Close headroom by design
- Choose from either push or hand geared travel
- Available to suit larger beam widths up to 310mm
- Can be coupled closely to most hoists
- Fitted with anti-drop plates for improved safety
- 30 tonnes capacity available in geared trolley
- Range of double pin trolleys also available



Model: GT



Model: PT-I

## Safety Trolley

- Extremely easy work-site installation.
- Compatible with I-beam and H-beam rail.
- High quality sealed ball bearings.
- Can be supplied with anti-drop plates and anti-tilt device.
- Easily travels over minor rail surface irregularities.
- For geared trolley, the standard operating chain length is 3m, other length is available upon request.



Model: GT-I

ABLE  
Push Trolley

### PLAIN TROLLEY PT SERIES SPECIFICATION

Product Code	Capacity (Ton)	Beam Flange Width (mm)	Dimensions(mm)										Net Weight Kg
			A	B	C	D1 φ	D2 φ	E	G	H	S	F	
PT05	0.5	35-140	208	192	175	84	60	23	37	95	25	1.5-3	4.8
PT10	1	80-146	230	213	191.4	84	60	24	38	107.4	21.4	1.5-3	7.3
PT20	2	80-168	245	255	233	102	75	29	45	128.5	29.5	1.5-3	12.6
PT30	3	88-168	250	320	282	120	90	36	65	153	22	1.5-3	20.8
PT50	5	100-170	280	380	343	141	110	45	75	218.4	31.4	1.5-3	34.1
PT100	10	122-203	320	454	477	189	150	70	110	262	32	1.5-3	97.0
PT200	20	122-203	380	580	567	225	168	76	115	315	40	1.5-3	-

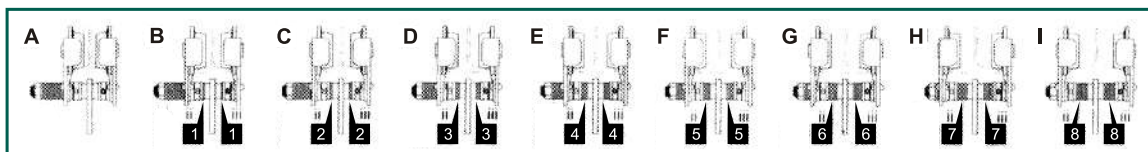
### GEARED TROLLEY GT SERIES SPECIFICATION

Product Code	Capacity (Ton)	Beam Flange Width (mm)	Dimensions(mm)										Net Weight Kg
			A	B	C	D1 φ	D2 φ	E	G	H	S	F	
GT05	0.5	35-140	250	192	175	84	60	23	37	95	25	1.5-3	9.9
GT10	1	80-146	272	213	191.4	84	60	24	38	107.4	21.4	1.5-3	10.6
GT20	2	80-168	280	255	233	102	75	29	45	128.5	29.5	1.5-3	16.0
GT30	3	88-168	314	320	282	120	90	36	65	153	22	1.5-3	23.9
GT50	5	100-170	345	380	343	141	110	45	75	218.4	31.4	1.5-3	37.1
GT100	10	122-203	375	454	477	189	150	70	110	262	32	1.5-3	99.5
GT200	20	122-203	453	580	567	225	168	76	115	315	40	1.5-3	180.3
GT300	30	122-203	467	630	644.5	255	196	90	130	418	38	1.5-3	-

Notes: the standard length of hand Pulley chain is 3 meters.

#### Adjusting the Trolley for the Rail Size

Load Capacity (t)	Washer Combination Category Corresponding to Rail Width(W) (mm)(See drawings below.)								
	A	B	C	D	E	F	G	H	I
0.5	35	90	122	128	134	140	-	-	-
1	80	116	122	128	134	140	146	-	-
2	80	112	144	150	156	162	168	-	-
3	88	126	132	138	144	150	156	162	168
5	100	140	146	152	158	164	170	-	-
10	122	143	163	173	183	193	203	-	-

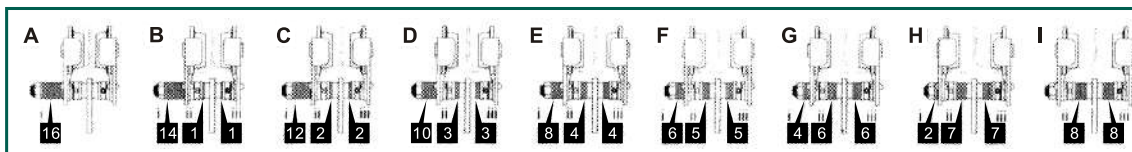


Washer combinations for 10-ton trolleys.			
	i	ii	iii
A	8	0	0
B	6	1	1
C	4	2	2
D	2	3	3
I	0	4	4

#### Adjusting the Trolley for the Rail Size

Load Capacity (t)	Washer Combination Category Corresponding to Rail Width(W) (mm)(See drawings below.)								
	A	B	C	D	E	F	G	H	I
0.5	75	81.3	87.5	93.8	100	106.3	112.5	118.8	125
1	75	81.3	87.5	93.8	100	106.3	112.5	118.8	125
2	100	106.3	112.5	118.8	125	131.3	137.5	143.8	150
3	100	106.3	112.5	118.8	125	131.3	137.5	143.8	150
5	125	131.3	137.5	143.8	150	156.3	162.5	168.8	175
10	150	156.3	162.5	168.8	-	-	-	-	175

Measure the rail width. Locate the rail width in the row corresponding to the trolley size to find the washer combination category (A to I) for that trolley size. Then refer to the illustration corresponding to the washer combination category for the number of washers and washer placement needed to adjust the trolley size. (See the separate table for 10-ton trolleys.)



Washer combinations for 10-ton trolleys.			
	i	ii	iii
A	8	0	0
B	6	1	1
C	4	2	2
D	2	3	3
I	0	4	4





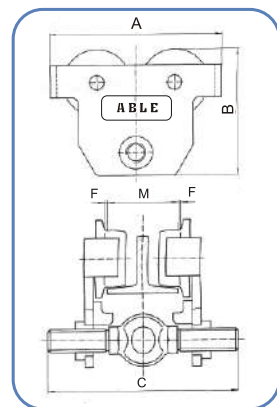
Model: PT-II

**Screw type PT-II** Plain trolley have 5 capacities from 1/2t to 5t. The plain trolley is moved by pushing the load lifted by the trolley, running on the bottom flange of monorail. With the screw hanger to adjust the width of I-beam. They are widely used in factories, mines, wharves, docks, warehouses and engine rooms for installation of equipment in places where no power supply is available.



Model: GT-II

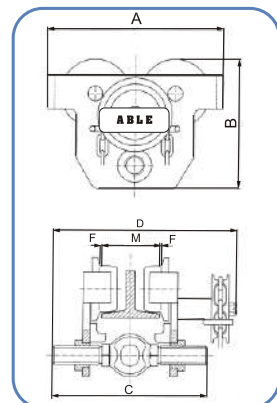
**Screw type GT-II** geared trolley have 5 capacities from 1/2t to 5t. The geared trolley is hand-operated by pulling the hand-chain running on the bottom flange of monorail. With the screw hanger to adjust the width of I-beam. They are widely used in factories, mines, wharves, docks, warehouses and engine rooms for installation of equipment and conveyance of goods. They are especially suitable for maintenance and repairing of equipment in places where no power supply is available.



■ Conform & tested acc to EN 13157:2004 +A1:2009

Product code	Capacity Ton	Test load Ton	Min Radius curve(m)	Min	Beam width(mm) M1	Max	Min	Max	M2	Dimensions (mm) A	B	C	C1	C2	F	NW (kg) W1	W2
PT-II 05	0.5	0.75	0.9	64	220	160	305	225	177	292	377	3	8.3	8.3			
PT-II 10	1.0	1.50	1.0	64	220	160	305	252	188	300	385	3	10.9	10.5			
PT-II 20	2.0	3.00	1.2	88	220	160	305	300	226	310	395	3	18.2	17.8			
PT-II 30	3.0	4.50	1.3	102	220	160	305	360	290	324	409	3	31.4	30.8			
PT-II 50	5.0	7.50	1.4	114	220	160	305	392	313	329	414	3	42.6	42.3			

Individually proof load tested with individual serial number



■ Conform & tested acc to EN 13157:2004 +A1:2009

Product code	Capacity Ton	Height Mtr	Test load Ton	Min Radius curve(m)	Min	Beam width(mm) M1	Max	Min	Max	M2	Dimensions (mm) A	B	C	C1	C2	D	D1	D2	NW (kg) W1	W2
GT-II 05	0.5	3.0	0.75	0.9	64	220	160	305	225	173	292	377	293	383	13.3	11.5				
GT-II 10	1.0	3.0	1.50	1.0	64	220	160	305	252	188	300	385	303	393	15.9	14.5				
GT-II 20	2.0	3.0	3.00	1.2	88	220	160	305	300	226	310	395	320	398	23.2	21.6				
GT-II 30	3.0	3.0	4.50	1.3	102	220	160	305	360	290	324	409	354	426	37.7	35.9				
GT-II 50	5.0	3.0	7.50	1.4	114	220	160	305	392	313	329	414	365	431	48.9	47.8				

Individually proof load tested with individual serial number

## Electric Chain Hoist



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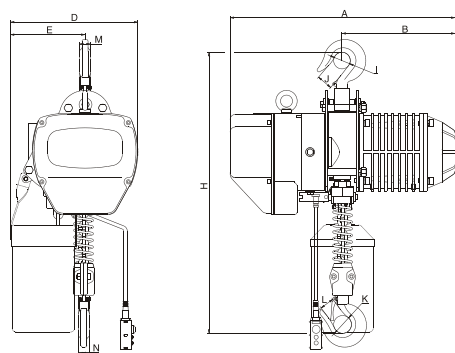


## Model: ECHK

## ELECTRIC CHAIN HOIST - 3 PHASES

- 3 phases, Single or Dual Speed
- For Heavy Industry USE
- Smooth & Ergonomic Operation
- Reliable and high Safety
- Enhanced Durability
- Easier Maintenance
- Environment Friendly

### Hoist with the Hook



■ Switch  
German Made

0.5t-5t



● Conform & tested acc to EN 13157:2004 +A1:2009 and AS1418.2

Product code	Capacity (Ton)	Lifting Height (m)	Lifting Speed (m/min)	Lifting Motor Specification					Operating Motor Specification					I-Beam (mm)	
				Power (Kw)	Rotation speed (r/min)	Phases	Voltage (V)	Frequency (Hz/s)	Power (Kw)	Rotation speed (r/min)	Operating speed (m/min)	Phases	Voltage (V)		Frequency (Hz/s)
ECHK0051	0.5	3~12	7.2	0.9	1440	3	220~440	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECHK0101	1	3~12	6.6	1.5	1440	3	220~440	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECHK0151	1.5	3~12	8.8	3.0	1440	3	220~440	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECHK0201	2	3~12	6.6	3.0	1440	3	220~440	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECHK0202	2	3~12	3.3	1.5	1440	3	220~440	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECHK0301	3	3~12	5.4	3.0	1440	3	220~440	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECHK0302	3	3~12	4.4	3.0	1440	3	220~440	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECHK0502	5	3~12	2.7	3.0	1440	3	220~440	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A

● OPERATING CONDITIONS: It is recommended for -20° to +40°C and humidity of 85% or lower.

Product code	Capacity (Ton)	H	Dimensions (mm)										Chain (mm)
			A	B	D	E	I	J	K	L	M	N	
ECHK0051	0.5	600	415	168	290	195	φ 34	28	φ 34	28	19	19	φ 6.3
ECHK0101	1	650	520	260	300	176	φ 42	32	φ 42	32	24	24	φ 7.1
ECHK0151	1.5	800	615	295	430	265	φ 49	40	φ 49	40	30	30	φ 10.0
ECHK0201	2	800	615	295	430	265	φ 49	40	φ 49	40	30	30	φ 10.0
ECHK0202	2	835	520	260	300	236	φ 49	40	φ 49	40	30	30	φ 7.1
ECHK0301	3	845	615	295	430	265	φ 59	48	φ 59	48	35	35	φ 11.2
ECHK0302	3	950	615	295	430	320	φ 59	48	φ 59	48	35	35	φ 10.0
ECHK0502	5	1030	615	295	430	325	φ 60	48	φ 60	48	43	43	φ 11.2

## 0.5t-5t

**Body Shell:** Light and sturdy from premium aluminum alloy material, and fit for the use in tough work environment with high heat dissipation rate and withstand repeated lifting cycles.

**Friction Clutch:** Overload Protection for safety and long time use.

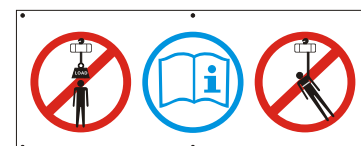
**Limit switch:** Over-travel Protection to stop hoist working automatically when the loading reaches the upper or lower travel limit.

**Gearing:** Precisely processed, induction-hardened and oil bath lubricated gear set free from operating noise and long time use.

**Magnetic brake:** It gives the instant brake in case of the power dump.

**Load Chain:** Ultra hardened and corrosion-resistant chain of grade 80, Japan made.

**Option extra:** Remote control|Overload limiter|Rain cover|Thermo switch are optional request for extra charge.



### Hoist with Electric Trolley

● Conform & tested acc to EN 13157:2004 +A1:2009 and AS1418.2

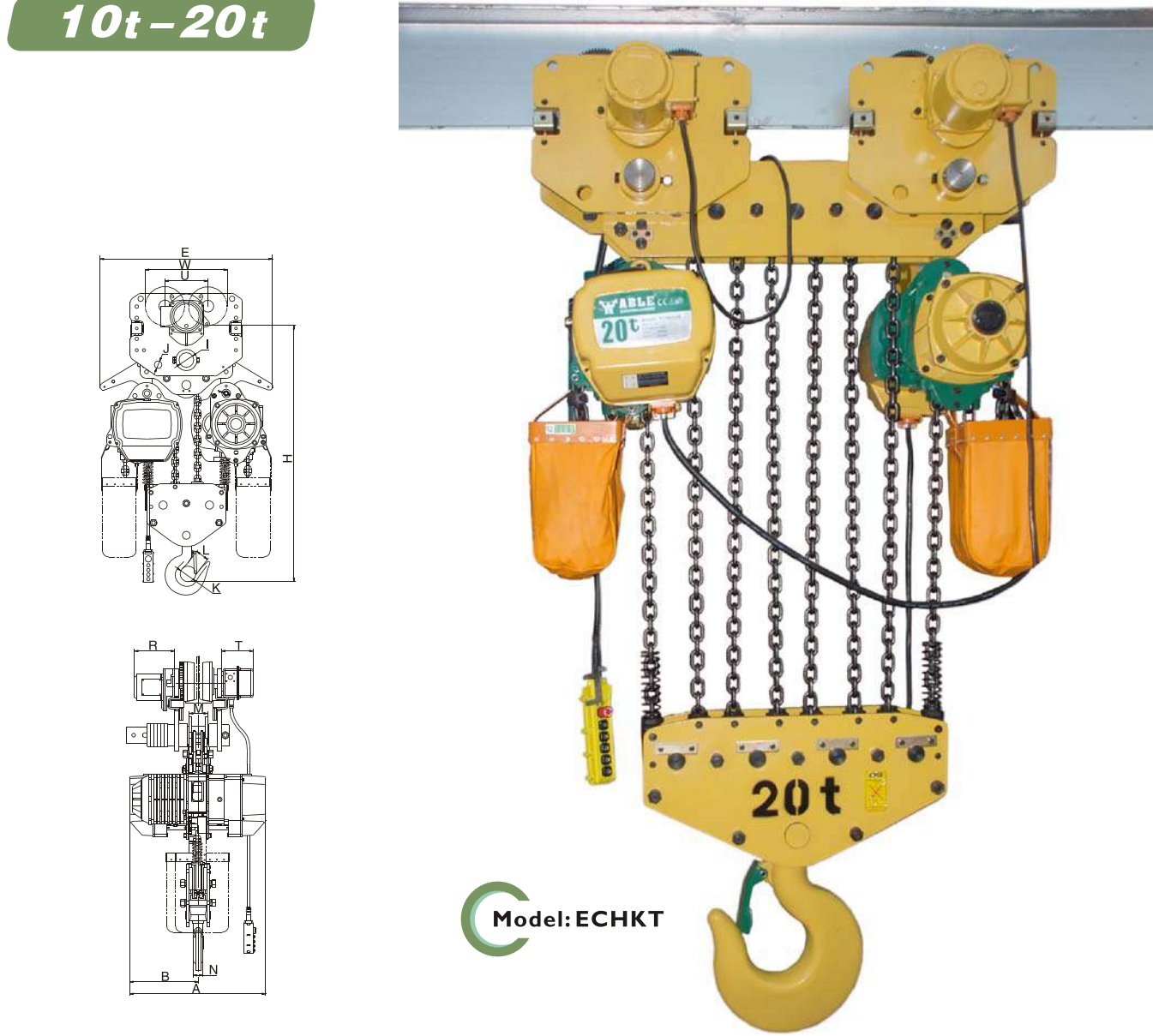
Product code	Capacity (Ton)	Lifting Height (m)	Lifting Speed (m/min)	Lifting Motor Specification					Operating Motor Specification					I-Beam (mm)	
				Power (Kw)	Rotation speed (r/min)	Phases	Voltage (V)	Frequency (Hz/s)	Power (Kw)	Rotation speed (r/min)	Operating speed (r/min)	Phases	Voltage (V)		Frequency (Hz/s)
ECHKT0051	0.5	3~12	7.2	0.9	1440	3	220~440	50	0.12	1440	12.2	3	220~440	50	58~153
ECHKT0101	1	3~12	6.6	1.5	1440	3	220~440	50	0.4	1440	11/21	3	220~440	50	58~153
ECHKT0151	1.5	3~12	8.8	3.0	1440	3	220~440	50	0.4	1440	11/21	3	220~440	50	82~178
ECHKT0201	2	3~12	6.6	3.0	1440	3	220~440	50	0.4	1440	11/21	3	220~440	50	82~178
ECHKT0202	2	3~12	3.3	1.5	1440	3	220~440	50	0.4	1440	11/21	3	220~440	50	82~178
ECHKT0301	3	3~12	5.4	3.0	1440	3	220~440	50	0.75	1440	11/21	3	220~440	50	100~178
ECHKT0302	3	3~12	4.4	3.0	1440	3	220~440	50	0.75	1440	11/21	3	220~440	50	100~178
ECHKT0502	5	3~12	2.7	3.0	1440	3	220~440	50	0.75	1440	11/21	3	220~440	50	100~178

● OPERATING CONDITIONS: It is recommended for -20° to +40°C and humidity of 85% or lower.

Product code	Capacity (Ton)	H	A	B	D	E	I	Dimensions (mm)							Chain (mm)
								K	L	N	W	U	R	T	
ECHKT0051	0.5	658	415	168	290	195	φ 34	φ 42	28	19	191	99	159	142	φ 6.3
ECHKT0101	1	650	520	260	300	176	φ 31	φ 42	32	24	206	111	142	231	φ 7.1
ECHKT0151	1.5	770	615	295	430	265	φ 36	φ 49	40	30	237	127	142	231	φ 10.0
ECHKT0201	2	770	615	295	430	265	φ 36	φ 49	40	30	237	127	142	231	φ 10.0
ECHKT0202	2	815	520	260	300	236	φ 36	φ 49	40	30	237	127	142	231	φ 7.1
ECHKT0301	3	830	615	295	430	265	φ 43	φ 59	48	35	265	140	142	231	φ 11.2
ECHKT0302	3	930	615	295	430	320	φ 43	φ 59	48	35	265	140	142	231	φ 10.0
ECHKT0502	5	1015	615	295	430	325	φ 54	φ 60	48	43	296	156	142	231	φ 11.2



10t – 20t



Hoist with Electric Trolley

● Conform & tested acc to EN 13157:2004 +A1:2009 and AS1418.2

Lifting Motor Specification										Operating Motor Specification						
Product code	Capacity (Ton)	Lifting Height (m)	Lifting Speed (m/min)	Power (Kw)	Rotation speed (r/min)	Phases	Voltage (V)	Frequency (Hz/s)		Power (Kw)	Rotation speed (r/min)	Operating speed (m/min)	Phases	Voltage (V)	Frequency (Hz/s)	I-Beam (mm)
ECHKT1004	10	3~12	2.7	3.0×2	1440	3	220~440	50		0.75	1440	11/21	3	220~440	50	150~220

● OPERATING CONDITIONS: It is recommended for -20° to +40°C and humidity of 85% or lower.

Dimensions (mm)																
Product code	Capacity (Ton)	H	A	B	E	I	J	K	L	M	N	W	U	R	T	Chain (mm)
ECHKT1004	10	1190	630	315	890	φ 70	φ 36	φ 85	80	85	55	366	191	231	142	φ 11.2

**Body Shell:** Light and sturdy from premium aluminum alloy material, and fit for the use in tough work environment with high heat dissipation rate and withstand repeated lifting cycles.

**Friction Clutch:** Overload Protection for safety and long time use.

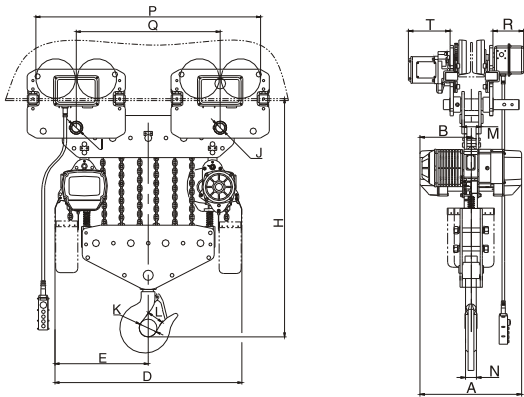
**Limit switch:** Over-travel Protection to stop hoist working automatically when the loading reaches the upper or lower travel limit.

**Gearing:** Precisely processed, induction-hardened and oil bath lubricated gear set free from operating noise and long time use.

**Magnetic brake:** It gives the instant brake in case of the power dump.

**Load Chain:** Ultra hardened and corrosion-resistant chain of grade 80, Japan made.

**Option extra:** Remote control|Overload limiter|Rain cover|Thermo switch are optional request for extra charge.



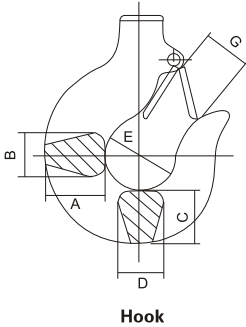
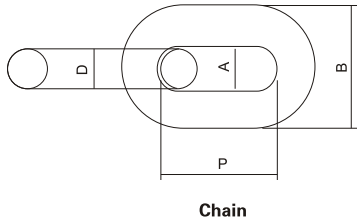
Hoist with Electric Trolley

● Conform & tested acc to EN 13157:2004 +A1:2009 and AS1418.2

Lifting Motor Specification										Operating Motor Specification						
Product code	Capacity (Ton)	Lifting Height (m)	Lifting Speed (m/min)	Power (Kw)	Rotation speed (r/min)	Phases	Voltage (V)	Frequency (Hz/s)		Power (Kw)	Rotation speed (r/min)	Operating speed (m/min)	Phases	Voltage (V)	Frequency (Hz/s)	I-Beam (mm)
ECHKT2008	20	3~12	1.4	3.0×2	1440	3	220~440	50		0.75×2	1440	11/21	3	220~440	50	150~220

● OPERATING CONDITIONS: It is recommended for -20° to +40°C and humidity of 85% or lower.

Dimensions (mm)																
Product code	Capacity (Ton)	H	A	B	D	E	I	J	K	L	M	N	P	Q	R	T
ECHKT2008	20	1470	630	315	1260	630	70	70	150	115	88	95	1106	740	142	231



Product code	Diameter (mm)D	Inside length (mm)P	Inside width (mm)A	Outside width (mm)B	Work load (Kg)	Guaranteed load (KN)	Break load (KN)
ECHK0031	6.1	19	7.5	20	1100	26.5	45
ECHK0051	6.3	19	7.9	22	1120	27	47
ECHK0101 ECHK0202	7.1	21	8.9	25	1600	37	61.6
ECHK0151 ECHK0201 ECHK0302	10.0	30	12.5	35	3200	76	125
ECHK0301 ECHK0502 ECHK0753 ECHK1004 ECHK1506 ECHK2008 ECHK2508	11.2	34	14	39	3800	92	154

Hook: It is hot forging with perfect strength that is hard to break. The operation safety of the lower hook is ensured by its 360 degrees rotation and safety tongue piece.

Product code	Load (T)	T	B	A	B	C	D	E	G
ECHK	0.3, 0.5	T	B	27	18	25	17	35	28
	1	T	B	34	24	30	24	42	32
	2	T	B	46	29	39	30	49	40
	3	T	B	56	35	49	34	59	48
	5	T	B	67	43	57	44	60	48
	7.5	T	B	82	55	80	48	85	80
	10	T	B	82	55	80	48	85	80
	15	T	B	110	78	120	80	120	96
	20, 25	T	B	142	95	155	98	150	115

T- upper hook / B- lower hook



Hoist Parameters of Dual Speeds

Item	Product code	Speed(m/min)	Power ( KW )	Frequency ( Hz)	Rotation Speed of Motor(r/min )	Remark
1	ECHK0101D	6.9/2.3	0.6/1.8	50	930/2830	
2	ECHK0151D	8.9/2.9	1.0/3.0	50	930/2830	
3	ECHK0201D	6.8/2.3	1.0/3.0	50	930/2830	
4	ECHK0202D	3.3/1.1	0.6/1.8	50	930/2830	
5	ECHK0301D	5.4/1.8	1.0/3.0	50	930/2830	
6	ECHK0302D	4.5/1.5	1.0/3.0	50	930/2830	
7	ECHK0502D	2.7/0.9	1.0/3.0	50	930/2830	
8	ECHK0753D	1.8/0.6	1.0/3.0	50	930/2830	
9	ECHK1004D	2.7/0.9	1.0x2/3.0x2	50	930/2830	
10	ECHK1506D	1.8/0.6	1.0x2/3.0x2	50	930/2830	
11	ECHK2008D	1.3/0.4	1.0x2/3.0x2	50	930/2830	
12	ECHK2508D	1.2/0.4	1.0x2/3.0x2	50	930/2830	
13	MT-010	20.0/5.0	0.1/0.4	50	750/2990	
14	MT-020	20.0/5.0	0.1/0.4	50	750/2990	
15	MT-030	20.0/5.0	0.18/0.75	50	750/2990	
16	MT-050	20.0/5.0	0.18/0.75	50	750/2990	
17	MT-075	20.0/5.0	0.18/0.75	50	750/2990	
18	MT-100	20.0/5.0	0.18/0.75	50	750/2990	

Hoist Parameters of Dual Speeds

Item	Product code	Speed(m/min)	Power ( KW )	Frequency ( Hz)	Rotation Speed of Motor(r/min )	Remark
1	ECHK0101D	8.2/2.7	0.6/1.8	60	1116/3360	
2	ECHK0151D	10.6/3.4	1.0/3.0	60	1116/3360	
3	ECHK0201D	8.1/2.7	1.0/3.0	60	1116/3360	
4	ECHK0202D	3.9/1.3	0.6/1.8	60	1116/3360	
5	ECHK0301D	6.4/2.1	1.0/3.0	60	1116/3360	
6	ECHK0302D	5.4/1.8	1.0/3.0	60	1116/3360	
7	ECHK0502D	3.2/1.0	1.0/3.0	60	1116/3360	
8	ECHK0753D	2.1/0.7	1.0/3.0	60	1116/3360	
9	ECHK1004D	3.2/1.0	1.0x2/3.0x2	60	1116/3360	
10	ECHK1506D	2.1/0.7	1.0x2/3.0x2	60	1116/3360	
11	ECHK2008D	1.5/0.5	1.0x2/3.0x2	60	1116/3360	
12	ECHK2508D	1.4/0.4	1.0x2/3.0x2	60	1116/3360	
13	MT-010	24/6	0.1/0.4	60	900/3580	
14	MT-020	24/6	0.1/0.4	60	900/3580	
15	MT-030	24/6	0.18/0.75	60	900/3580	
16	MT-050	24/6	0.18/0.75	60	900/3580	
17	MT-075	24/6	0.18/0.75	60	900/3580	
18	MT-100	24/6	0.18/0.75	60	900/3580	

Model: ECHK-L

ELECTRIC CHAIN HOIST

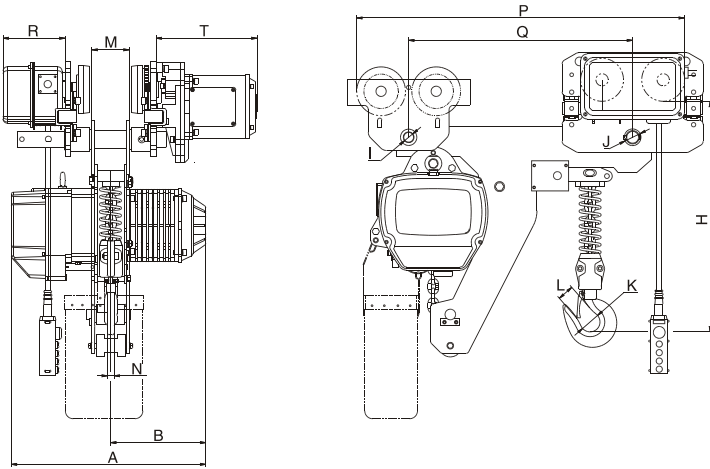


Super Low Headroom  
Electric Chain Hoist

1t-7.5t

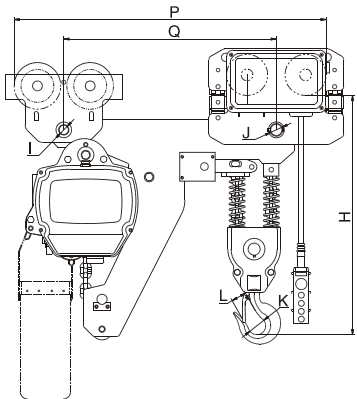
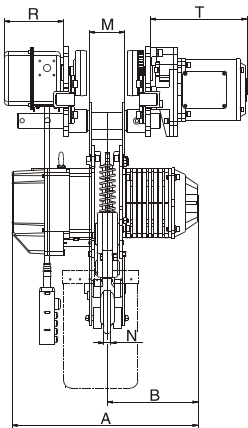
ABLE ECHK-L is a super Low Headroom chain hoist uniquely designed to have the shortest headroom than any other standard hoists. This hoist is most suitable for installation which requires a low ceiling of buildings or maximizes effective height of lift.

- OPTIONAL EXTRA
- Dual speed or curve beam is optional
  - Trolley can be sold separately as option





1t-7.5t



Model: ECHK-L

● Conform & tested acc to EN 13157:2004 +A1:2009 and AS1418.2

Product code	Capacity (Ton)	Lifting Height (m)	Lifting Speed (m/min)	Lifting Motor Specification				Operating Motor Specification							I-Beam (mm)
				Power (Kw)	Rotation speed (r/min)	Phases	Voltage (V)	Frequency (Hz/s)	Power (Kw)	Rotation speed (r/min)	Operating speed (m/min)	Phases	Voltage (V)	Frequency (Hz/s)	
ECHK0101L	1	3~12	6.6	1.5	1440	3	220~440	50	0.4	1440	11/21	3	220~440	50	58~153
ECHK0151L	1.5	3~12	8.8	3.0	1440	3	220~440	50	0.4	1440	11/21	3	220~440	50	82~178
ECHK0201L	2	3~12	6.6	3.0	1440	3	220~440	50	0.4	1440	11/21	3	220~440	50	82~178
ECHK0202L	2	3~12	3.3	1.5	1440	3	220~440	50	0.4	1440	11/21	3	220~440	50	82~178
ECHK0251L	2.5	3~12	5.4	3.0	1440	3	220~440	50	0.75	1440	11/21	3	220~440	50	100~178
ECHK0301L	3	3~12	5.4	3.0	1440	3	220~440	50	0.75	1440	11/21	3	220~440	50	100~178
ECHK0302L	3	3~12	4.4	3.0	1440	3	220~440	50	0.75	1440	11/21	3	220~440	50	100~178
ECHK0502L	5	3~12	2.7	3.0	1440	3	220~440	50	0.75	1440	11/21	3	220~440	50	100~178
ECHK0753L	7.5	3~12	1.8	3.0	1440	3	220~440	50	0.75	1440	11/21	3	220~440	50	100~178

● OPERATING CONDITIONS: It is recommended for -20° to +40°C and humidity of 85% or lower.

Product code	Capacity (Ton)	H	A	B	K	L	M	Dimensions (mm)								Chain (mm)
								N	I	J	P	Q	R	T		
ECHK0101L	1	480	520	260	φ 42	32	56	24	φ 26	φ 31	630	445	142	231	φ 7.1	
ECHK0151L	1.5	570	615	295	φ 49	40	66	30	φ 31	φ 36	720	505	142	231	φ 10.0	
ECHK0201L	2	570	615	295	φ 49	40	66	30	φ 31	φ 36	720	505	142	231	φ 10.0	
ECHK0202L	2	535	520	260	φ 49	40	56	30	φ 31	φ 36	665	444.5	142	231	φ 7.1	
ECHK0251L	2.5	640	615	295	φ 59	48	73	35	φ 36	φ 43	775	526	142	231	φ 11.2	
ECHK0301L	3	640	615	295	φ 59	48	73	35	φ 36	φ 43	775	526	142	231	φ 11.2	
ECHK0302L	3	685	615	295	φ 59	48	66	35	φ 36	φ 43	750	503	142	231	φ 10.0	
ECHK0502L	5	740	615	295	φ 60	48	73	43	φ 43	φ 54	825	541	142	231	φ 11.2	
ECHK0753L	7.5	890	615	295	φ 85	80	73	55	φ 43	φ 54	1020	730	142	231	φ 11.2	

Model: ECHK-01P



ELECTRIC CHAIN HOISTS - SINGLE PHASE

**ABLE ECHK-01P** single phase chain hoist ECHK-01P is an excellent solution for efficient lifting applications with fast lifting speed, convenient operation and professional appearance. The equipped devices of unique overload protection and over hot protection ensure a higher reliability of this equipment. It is now used worldwide for lifting in different industries and especially reliable when it is used in low-level space materials circulation system together with the aerial traveling crane equipment. ECHK-01P is an equipment to output the best work efficiency and best working conditions to the operators.

Product Code	Capacity (Ton)	Test Load (Ton)	Lifting Speed (m/min)	Lifting Height (M)	Chain Dia. (mm)	Motor Power (Kw)	Power Supply	Frequency	Rotation Speed (Reel/min)	Control Voltage
ECHK0051-01P	0.5	0.75	8.3	3~12	6.3	0.9	220V	50Hz/ 60Hz	1440	24V
ECHK0101-01P	1	1.5	6.3	3~12	7.1	1.5	220V	50Hz/ 60Hz	1440	24V
ECHK0202-01P	2	3	3.2	3~12	7.1	1.5	220V	50Hz/ 60Hz	1440	24V
ECHK0303-01P	3	4.5	2.4	3~12	7.1	3.0	220V	50Hz/ 60Hz	1440	24V

■ Conform & tested acc to EN 13157:2004 +A1:2009 and AS1418.2

Model: ECHK-01M



STAGE ELECTRIC CHAIN HOIST - 3PHASES

**ABLE ECHK-01M** stage chain hoists were designed using the latest technology for handling stage and theatrical equipment. These high quality, low-headroom, full-featured hoists provide reliable performance for use in theaters, concert halls, arenas and studios. The hoist has industry accepted speeds and conveniently fits in standard road cases.

- Capacities of 1/2 - 2 ton
- Light body premium Aluminum made
- Low headroom for max lifting height and space limit
- High efficiency in motor cooling system
- Specially designed for extreme quiet operating
- Remote control and Overload limiter are optional request for extra charge.

Product Code	Capacity (Ton)	Test Load (Ton)	Lifting Speed (m/min)	Lifting Height (M)	Chain Dia. (mm)	Motor Power (kw)	Power Supply	Frequency	Rotation Speed (Reel/min)	Control Voltage
ECHK050-01M	0.5	0.75	8.3	6~20	φ 6.3	0.9	220V-440V	50Hz/ 60Hz	1400	24V /36V
ECHK100-01M	1	1.5	6.3	6~20	φ 7.1	1.5	220V-440V	50Hz/ 60Hz	1400	24V /36V
ECHK200-01M	2	3.0	6.9	6~20	φ 10	3.0	220V-440V	50Hz/ 60Hz	1400	24V /36V

■ Conform & tested acc to EN 13157:2004 +A1:2009 and AS1418.2



## ABLE HAND PALLET TRUCKS

Model: HPT

### Technical Features

- Professional solution for the storage and transportation works.
- Material of wheel: PUR refer to polyurethane; PA refer to polyamide.
- Load roller is double roller, by size  $\Phi 80 \times 70\text{mm}$ .
- Minimum height refer to the distance from ground at the lowest position, which can be depended on pallet size.



### Designations

1.1 Manufacturer(abbreviation)			
1.2 Product code of manufacturer		HPT25D	HPT30D
1.3 Load capacity/load	WLL(ton)	2.5	3.0

### Wheels,transmission

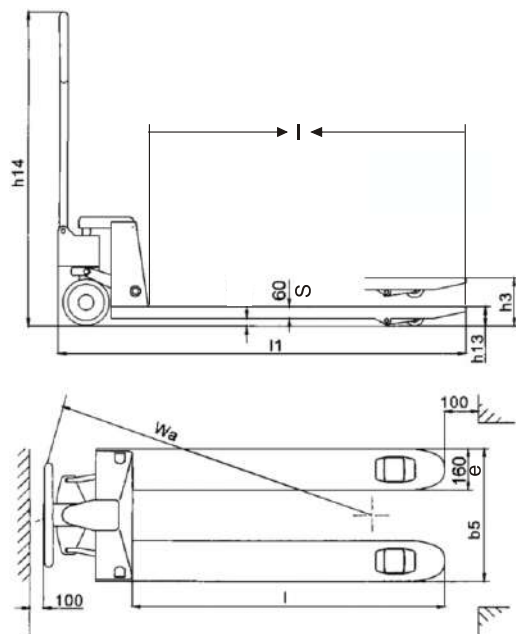
2.1 Tyres*		PUR/PA	PUR/PA
2.2 Steering wheel	mm	180x50	180x50
2.3 Tandem loading wheel	mm	80x70	80x70
2.4 Pump model		Integrated pump	Integrated pump

### Dimensions

3.1 Max. Fork Height	H3(mm)	200	200
3.2 Height of control handle in operation max	h14(mm)	1160	1160
3.3 Height lowered Max. Fork Height	h13(mm)	80	80
3.4 Overall length	l1(mm)	1570	1570
3.5 Thickness of mn plate	S(mm)	3.90	3.90
3.6 Fork length	l(mm)	1200	1200
3.7 Fork dimension	s/e(mm)	60x160	60x160
3.8 Outside width of forks	b5(mm)	550	685
3.9 Turning circle radius	Wa(mm)	1380	1380

### Weights

4.1 Net Weight	kg	74	82
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\*Polyamide(PA),polyurethane(PUR).

## TEST REPORT

REPORT NO: 2020 CB1004

PAGE : 4 OF 4

This Test Report refers only to samples submitted by the applicant to SIRIM QAS International Sdn. Bhd. And tested by SIRIM QAS International Sdn. Bhd. This test report shall not be reproduced,except in full and shall not be used for advertising purposes by any means or forms without written approval from Executive Director, SIRIM QAS International Sdn, Bhd. Please refer overleaf for Conditions Relating To The Use of Report.

Applicant	:	Ableforge Manufacturing Inc. P.O.Box 59508 Dallas 75229-1501. 11403 Mathis Dallas,Texas75234USA.
Manufacturer	:	Hang zhou Able Machinery Co.Ltd. 251, Qiaolin Road, Tongjun Lane, Tonglu, Hangzhou, Zhejiang, China.
Product	:	Chain Block CB-II
Reference Standard/ Method of test	:	Company' s Specification. - Breaking Load Test 4:1 (Adopted form MS 551:1978-Clause 4.2)
Description of sample	:	One no of Chain Block was received for testing. Brand: ABLE Size: 5Ton x 3Meters Chain Link Diameter: 10mm Chain Material: Grade 80 Alloy
Date received	:	12March 2020
Job no./Ref. no.	:	J202050401634/SQAS/CBMT/T.REC/LDL/OT
Conclusion.	:	Passed
Issued date	:	18 March 2020

### Approved Signatories

(DALHA RAHMAT)  
Senior Technical Executive



(MOHD. FAUZI ISMAIL)  
Senior Manager

Construction and Building Materials Testing Section  
Testing Services Department





Dallas 75229 - 1501, 11403 Mathis Dallas,  
Texas 75234 United States of America.  
Tel : +1 215 657 3335  
Fax : +1 215 784 0343



- 100% high tenacity polyester
- Single ply or double ply
- With reinforced lifting eyes
- Low elongation
- Length available: 1m to 12m
- Safety factor available: 7:1 & 8:1
- According to EN 1492-1:2000

WLL 2T ABLE



Model: ASW07

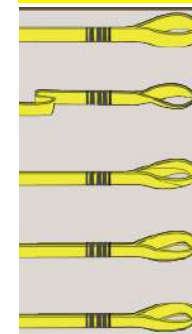
## ABLE EYE TO EYE WEBBING SLING



Webbing Width (mm)	Colour coded according to EN 1492-1	Working Load Limit with 1 webbing sling					Working Load Limit with 2 webbing sling			
		Straight lift	Choked lift	$\beta$			Straight lift up to 45°	Choked lift up to 45°	Straight lift 45°-60°	Choked lift 45°-60°
				0°-7°	7°-45°	45°-60°				
30	WLL1T	1.0	0.8	2.0	1.4	1.0	1.4	1.12	1.0	0.8
60	WLL2T	2.0	1.6	4.0	2.8	2.0	2.8	2.24	2.0	1.6
90	WLL3T	3.0	2.4	6.0	4.2	3.0	4.2	3.36	3.0	2.4
120	WLL4T	4.0	3.2	8.0	5.6	4.0	5.6	4.48	4.0	3.2
150	WLL5T	5.0	4.0	10.0	7.0	5.0	7.0	5.6	5.0	4.0
180	WLL6T	6.0	4.8	12.0	8.4	6.0	8.4	6.72	6.0	4.8
240	WLL8T	8.0	6.4	16.0	11.2	8.0	11.2	8.96	8.0	6.4
300	WLL10T	10.0	8.0	20.0	14.0	10.0	14.0	11.2	10.0	8.0

Notes: Bigger size up to 20T (12/16/20T) is available from our production upon demand.

### ABLE lifting eye types



- 1.flat eye
- 2.Reversed eye
- 3.Folded eye 1/2 width from 1 side
- 4.Folded eye 1/2 width from 2 side
- 5.Folded eye 1/3 width

### ABLE physical information chart

	polyester
Elongation at breaking force	ca. 12%
Elongation at WLL	ca. 3%
Elongation -resistance in wet condition	100%
Compared wear-resistance	80
Specific weight	1.38

### ABLE chemical resistance information chart

material	acids	alkalis	ether	aldehydes	alcohols	oils	organic solvents	water and seawater
polyester	ok	no	no	no	ok	ok	ok	ok

**ABLE PRODUCTS**  
W.L.L. XXXXkg  
Length in Meters  
S/N ASW3E11500  
Safety Factor: 7 to 1  
Webbing Sling

**ABLE PRODUCTS**  
Vertical Choke Basket 60°  
WLL: No 500kg No 500kg No 500kg  
No 500kg No 500kg No 500kg  
No 500kg No 500kg No 500kg

There is no guess work in safe lifting

1. Consult the load chart for configurations not shown on label.  
2. Do not use sling if the label is removed or missing.  
3. Inspect sling for damage before each use.  
4. Do not use sling if there is any sign of a cut cover, snagging, heat or chemical damage, excessive wear, damaged seams or any other defects.  
5. Do not tie knots in sling.

**Ableforge INDUSTRIES**  
Reliability, secured.

Ableforge Manufacturing Inc.  
Dallas 75229 - 1501, 11403 Mathis Dallas,  
Texas 75234 United States of America.  
www.ableforge.com  
Tel : +1 215 657 3335 Fax : +1 215 784 0343

6. Protect sling from sharp edges of load.  
7. Do not expose sling to temperatures above 90° celsius.  
8. Do not allow abrasive or other damaging grit to penetrate the fibers.  
9. Consult with manufacturers recommendations, before immersing a sling in a chemical solution.  
10. Keep away from: 'acids', 'alkalis', or 'phenolic compounds'.

**ABLE**  
SAFETY LIFTING APPLICATIONS  
www.ableforge.com

**PROOF TEST CERTIFICATE**

Webbing Sling ASW-07  
Safety Factor: 7 to 1

This is to certify that the webbing sling have been manufactured and proof tested not less than two times of WLL, to EN1492-1

Sling Material: 100% High Tenacity Polyester Fiber End Fittings: Eye & Eye

Serial Number/s: ASW3E11001 to ASW3E11500 Batch Number: LLA1029033

Working Load Limit: 3000kg Min. Breaking Load: 21000kg

Effective Length: 5 mtrs Quantity: 500 pcs

Date of Manufacturing: 24/05/2020 Date of Testing: 29/05/2020

Tested and Approved for ABLE Products in accordance with Standard EN1492-1  
Ableforge Mfg Inc-USA-ISO9001 Certified Group

**TESTING OFFICER**  
Howard Warner



## There is no guess work in safe lifting

1. Consult sling load chart for configurations not shown on label.
2. Do not use sling if the label is removed or missing.
3. Inspect sling for damage before each use.
4. Do not use sling if there is any sign of a cut cover, snagging, heat or chemical damage, excessive wear, damaged seams or any other defects.
5. Do not tie knots in sling.
6. Protect sling from sharp edges of load.
7. Do not expose sling to temperatures above 90° celsius.
8. Do not allow abrasive or other damaging grit to penetrate the fibers.
9. Consult with manufacturers recommendations, before immersing a sling in a chemical solution.
10. Keep away from: 'acids', 'alkalis', or 'phenolic compounds'.





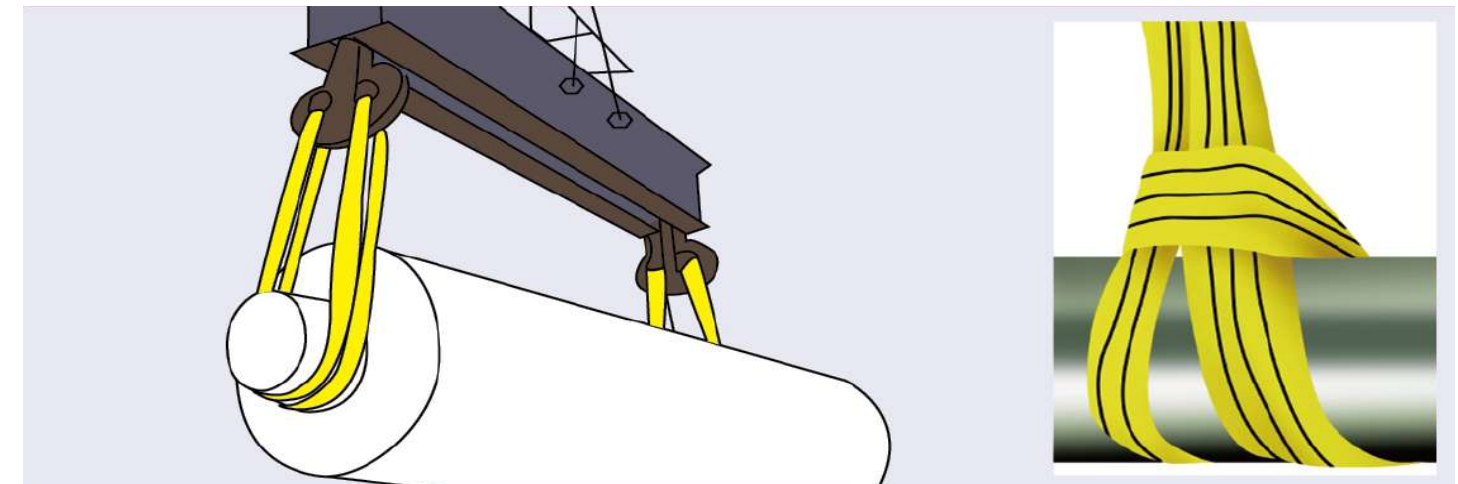
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Fax : +1 215 784 0343

- 100% high tenacity polyester of out sleeve and inner core
- With two ply woven heavy duty out sleeve
- Low elongation
- Each stripe is equal to 1 ton capacity
- Length available: 1m to 10m
- Safety factor available: 7:1 & 8:1
- According to EN 1492-2:2000



Model: ASR07

## ABLE ROUND SLING



Colour	Colourcoded according to EN 1492-1	Working Load Limit with 1 Round sling							Working Load Limit with 2 Round sling			
		Straight lift	Choked lift	$\beta$					Straight lift up to 45°	Choked lift up to 45°	Straight lift up to 45°-60°	Choked lift up to 45°-60°
				0°-7°	7°-45°	45°-60°	up to 45°	45°-60°				
		1.0	0.8	2.0	1.4	1.0	0.7	0.5	1.4	1.12	1.0	0.8
Purple	WLL1T	1.0	0.8	2.0	1.4	1.0	0.7	0.5	1.4	1.12	1.0	0.8
Green	WLL2T	2.0	1.6	4.0	2.8	2.0	1.4	1.0	2.8	2.24	2.0	1.6
Yellow	WLL3T	3.0	2.4	6.0	4.2	3.0	2.1	1.5	4.2	3.36	3.0	2.4
Grey	WLL4T	4.0	3.2	8.0	5.6	4.0	2.8	2.0	5.6	4.48	4.0	3.2
Red	WLL5T	5.0	4.0	10.0	7.0	5.0	3.5	2.5	7.0	5.6	5.0	4.0
Brown	WLL6T	6.0	4.8	12.0	8.4	6.0	4.2	3.0	8.4	6.72	6.0	4.8
Blue	WLL8T	8.0	6.4	16.0	11.2	8.0	5.8	4.0	11.2	8.96	8.0	6.4
Orange	WLL10T	10.0	8.0	20.0	14.0	10.0	7.0	5.0	14.0	11.2	10.0	8.0

Notes: Bigger size up to 200T (20/30/50/80/100/200T) is available from our production upon demand.

**ABLE PRODUCTS**  
W.L.L. xxxxxKg  
Length in Meters  
S/N: ASR3F11500  
Other: 12

Manufactured to comply with all relevant requirements of Standard EN1492-2:2000  
Safety Factor: 7 to 1  
**Round Sling**

**W.L.L. 3000Kg**  
www.ableforce.com

**ABLE PRODUCTS**  
Vertical Choke Basket U 45°  
WLL: kg 2000 3000 4000 5000 6000 7000 8000 9000 10000  
Length in Meters: 1 1.5 2 2.5 3 3.5 4 4.5 5 5.5 6 7 8 9 10 12

There is no guess work in safe lifting

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Tel : +1 215 657 3335 Fax : +1 215 784 0343

6. Protecting from sharp edges of load.  
7. Do not expose sling to temperatures above 70° Celsius.  
8. Do not use the sling as a hoist or other device to pull or push the load.  
9. Consult with manufacturer's recommendations, before attaching a sling to the load.  
10. Keep away from 'tools', 'shells', or 'shards' compound.

**ABLE**  
SAFETY LIFTING APPLICATIONS  
www.ableforce.com

**PROOF TEST CERTIFICATE**

**Round Sling**  
Type: ASR-07

This is to certify that the round slings have been manufactured and proof tested not less than two times of WLL, to EN1492-2:2000

Sling Material: 100% High Tenacity Polyester Fiber

End Fittings: x

Serial Number/s: ASR3F11001 to ASR3F11500

Batch Number: LLA1029034

Working Load Limit: 3000kg

Min. Proof Force: 21000kg

Effective Length: 6 mtrs

Quantity: 500 pcs

Date of Manufacturing: 24 / 05 / 2020

Date of Testing: 29 / 05 / 2020

Tested and Approved for ABLE Products in accordance with Standard EN1492-2:2000  
Ableforce Mfg Inc-USA-ISO9001 Certified Group

**TESTING OFFICER**  
Howard Warner



Model: ASR07

ABLE round slings are easy to use, efficient in operation and gentle on surface contact. All round slings are colour coded to give easy identification of the safe working load. They come with a label giving length and tonnage. The round sling inner core is made from high tensile polyester fibre which is wound continuously without a join to provide the maximum possible strength. This core is protected by a tough woven tubular sleeve also made from polyester without side stitch. It serves to protect both the inner core of the sling and the surface of the product when lifting.



## CARGO LASHING STRAP

**Model: RST**  
EN12195-2; AS/NZS4380-2001



## Model: RST





### STANDARD CARGO LASHING STRAPS C/W JJ HOOK Certified & Approved to EN12195-2; AS/NZS4380-2001

Product Code	Size Descr.	WLL (kg)	M.B.S. (Kg)	Web Width (mm)	Web Length (M)	Web Color	PC/CTN	NW/CTN (kg)
RST0105	1T×5M	500	1000	25	5	blue	50pcs	19.0
RST0206	2T×6M	1000	2000	35	6	yellow	25pcs	23.0
RST0306	3T×6M	1500	3000	38	6	green	20pcs	25.0
RST0409	4T×9M	2000	4000	50	9	orange	10pcs	22.6
RST0508	5T×8M	2500	5000	50	8	orange	10pcs	23.0
RST0510	5T×10M	2500	5000	50	10	orange	10pcs	25.3
RST1010	10T×10M	5000	10000	100	10	yellow	3pcs	23.3
RST1012	10T×12M	5000	10000	100	12	yellow	3pcs	24.6



### Permissible pulling force(Ic) 10t, **two-piece** system 100-2-JD

 Fperm:5,000 daN	Tensioning element:pressure ratchet
 Fperm:10,000 daN	Standard length: 10.0m, of which fixed end (FE) : 0.7m



### Connecting element(VE) Part number

J Hook, double

100-2-JD



### Permissible pulling force(Ic) 5t, **two-piece** system 50A-2-JD

 Fperm:2,500 daN	Marked with 5 woven stripes
 Fperm:5,000 daN	Tensioning element:pressure ratchet
	Standard length:8.0m,of which fixed end (FE):0.5m

### Connecting element(VE) Part number

J Hook, double

50A-2-JD



J Hook, double with keeper

50A-2-JK





## Partners in Height Safety Solution

**Model: ULMP02**  
Safety Harness



# HEIGHT SAFETY

## ABLE MULTIPURPOSE HARNESS

### DESCRIPTION

ABLE Multi-Purpose Full Body Safety Harness

### CAPACITY AND COLOR

WLL600kg, in Blue & Green (MBS:1500kg)

### FEATURES AND BENEFITS

- 1 Medically designed for maximum moment of impact safety
- 2 Harness Design minimises wearer injury during and after fall
- 3 Pebble-weave Webbing Design provides maximum grip precluding incidental buckle slippage
- 4 Integrated Webbing strap and hardware placement minimises impact injury
- 5 Combined belay loop sub pelvic strap positioning reduces risk of throat and facial injury
- 6 Medically tested Standing Step alleviates the dangers of Suspension Trauma
- 7 Retro-reactivity built into webbing
- 8 High Tenacity Polyester Webbing for enhanced resistance to UV and common solvents (contact ABLE help line if in doubt)
- 9 160kg Wearer capacity (combined weight of wearer; clothes and tools) when used in conjunction with a ABLE Shock Absorbing Lanyard.
- 10 Articulated chest Strap and shoulder Adjustment points, designed for female users.

### APPLICATIONS

Fall Arrest, Construction, Ladder, Scaffolding, Warehouse, Conned Space, Positioning Restraint, Tower Work

### PRODUCT DETAILS

Quick-Fit adjustable Clip In Buckles  
Integrated Suspension Trauma Strap  
Shoulder Conned Space / Rescue Loops  
Large Pole Strap Side Dees  
Padded Shoulder Straps  
Tool Belt with Hi-Comfort kidney padding  
Padded legs for force dispersion at moment of fall impact

Webbing Material	Polyester; 45mm; UV Resilient; Solvent Resistant; Liqui-pel water guard option available
Buckle Material	Corrosion resistant electrophoresis; high tensile light weight alloy steel
Fall Arrest Hardware	Drop Forged corrosion resistant electrophoresis high strength alloy steel
Thread	Polyester; 9.81Newtons (10kg); Extension at break 19.5%
Stitch Pattern	THETA Pattern combines 313 stitches to exceed 28kN of strength. EN and ANSI compliant colour contrast
Plastic Material	UV stabilised high density polyethylene
Weight	2.45kg
Web Tenacity	Range- Min 28kN Max 30kN
Drop Forged Dee Rings	Alloy Steel (standard): 40kN; Aluminium or Stainless Steel (option): 22kN minimum
Buckle Strength	12 to 17kN model dependant; laser etch or hard marked on buckle
Standards Compliance	ANSI Z359; EN 361; AS/NZS 1891.1;
Padding Material	Neoprene Foam Laminate

Reading of ABLE instruction manual prior to use is mandatory

**Certified & approved to ANSI Z359; EN 361; AS/NZS 1891.1**

We utilise a continual improvement regime product spec subject to change without notice.



QR Buckles  
(Quick Release)





## Clamp, Crane Scale, Jack & Pulley Block



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Model: **SAL**

### ABLE Shock Absorbing Lanyards

Peak force <6kn <5.75m arresting distance



Code: **SNH01**

Shock Absorbing Lanyard  
Single leg  
Snap hook to Snap hook



Code: **SCH01**

Shock Absorbing Lanyard  
Single leg  
Snap hook to Scaffold hook



Code: **SNH01A**

Shock Absorbing Lanyard  
ADJUSTABLE Single leg  
Snap hook to Snap hook



Code: **SCH02**

Shock Absorbing Lanyard  
Double legged  
Snap hook to 2x Scaffold hooks



Code: **SNH02**

Shock Absorbing Lanyard  
Double legged  
Snap hook to 2x Snap hooks



Code: **SNH02A**

Shock Absorbing Lanyard  
ADJUSTABLE Double legged  
Snap hook to 2x Snap hooks

Certified & approved to the Standards EN354; EN355



Model: VLC

## SV PLUS VERTICAL LIFTING CLAMP

### BENEFITS

- Long product life
- Meets standard BS EN13155
- Guaranteed performance
- Embossed branding **ABLE**
- All forged and heat treated Parts
- Safety and Reliability with individual serial number
- Easily disassembled and reassembled
- Permanent PI code for good Traceability

### APPLICATIONS

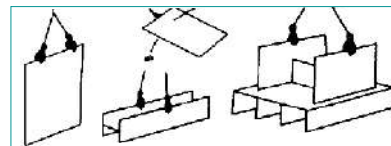
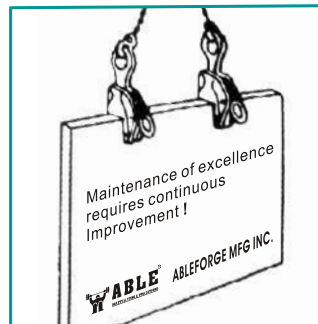
Standard VLC clamp is designed for vertical lifting and turning over of plates, the clamp possesses a safety device by which the lock is not disengaged even if the lifting rope is slackened. This clamp can be applied for a wide range of works which maintains a structure for safety against ground-touching shocks of the loads.

### WORKING FIELDS

- Shipyards
- Subway sites
- Construction sites
- Metal Production Workshop
- Max. load: 1- 5 tons Range
- Jaw Opening: 0 - 50 mm
- Safety factor: 6 times
- Safety latch mechanism

Subject to rigorous ABLE quality approval Inspection Procedures

- Vertical lifting of flat plates
- Turning over of flat plates
- Lifting of shaped steels



Product Code	WLL (ton)	Opening (mm)	Dimensions (mm)										Weight (kg)
			A	B	C	D	E	F	G	H	I	J	
VLC1	1	0-20	24	32	123	46	22	274	29	142	52	12	4.3
VLC2	2	0-30	35	42	152	50	25	302	38	188	63	14	7.1
VLC3	3	0-35	38	48	170	58	35	360	45	203	68	19	11.3
VLC5	5	0-50	52	54	220	62	58	458	58	236	76	20	17.4

Model: HLC

## SV PLUS HORIZONTAL LIFTING CLAMP

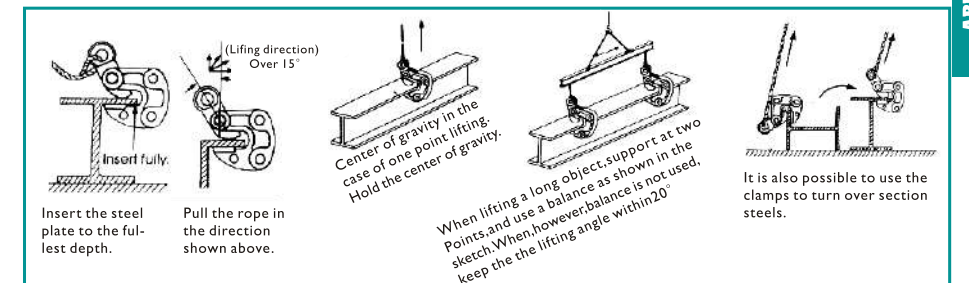
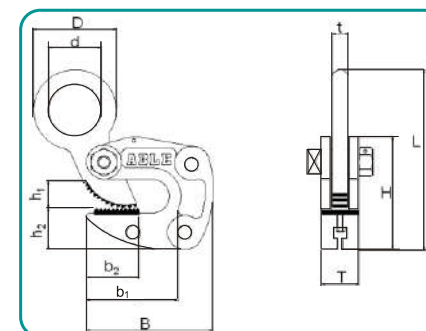
This HLC clamp is used for horizontal lifting and transfer of steel plates and is particularly suited to this application due to the special thin ground plate and buffer cams which facilitate easy insertion and removal under the plate being lifted. It can also be used hanging vertically under a spreader. These clamps are light in weight relative to their lifting capacity. Please note that the WLL of these clamps is given based on a pair. The clamps are suitable for surface hardnesses up to 37 RC (345, HB).



Jaw and floor Material: 20 CrMnTi  
Meets standard BS EN13155

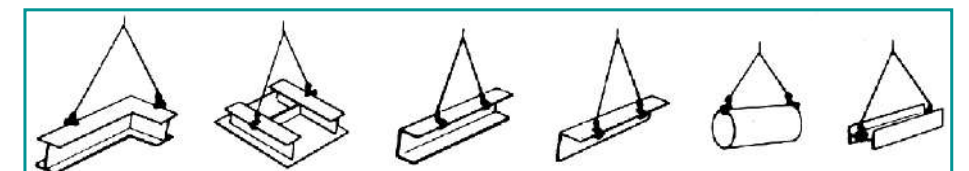
### WARNING

Inspection prior to use as per ABLE operating manual



### WORKING FIELDS

- At building construction field
- At ship building field
- Metal production workshop
- At subway construction (civil engineering construction) sites



### SAFETY TECHNICAL FEATURE

- Embossed branding, PI code for good traceability and quality guarantee
- All forged parts with stock availability at any time.
- High strength and durability with MBL of 500% of capacity, or better.

Product Code	WLL(Ton)		Opening (mm)	Dimensions(mm)												Weight (kg)
	Single	Double		L	t	T	H	h1	h2	B	b1	b2	D	d		
HLC1	1	2	1-13	166	12	32	100	22	36	102	64	42	70	46	2.1	
HLC2	2	4	3-22	235	16	40	132	33	46	130	84	56	92	56	4.8	
HLC3	3	6	12-35	276	18	44	178	40	66	172	92	70	82	42	8.5	



Model: PLC

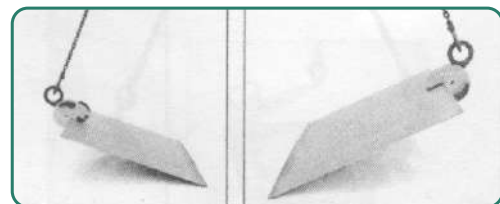
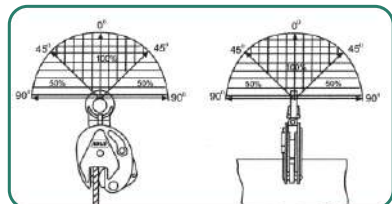
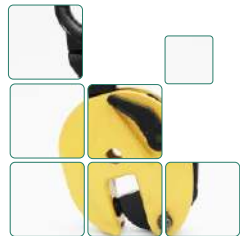
## PLATE LIFTING CLAMP Flexible Solution

### Technical Specialities

- The Universal vertical PLC clamp is designed to ensure that the load can be lifted and turned (180°) . Whilst at the same time ensuring that the load is positively retained.
- These clamps have a wide range of uses and are particularly suited for the lifting and turning of steel plates, ship sections and the extraction of pile sheets.
- Fitted with a hinged hoisting eye moving in all directions so as to enable the user to place and lift the load from any directions.
- Clamps are fitted with special hook-up facilities to enable easy fitment of the clamp in horizontal position.
- The new models have a greater jaw aperture enabling plates of varying thickness to be lifted with the same clamp.
- The clamp is fitted with a safety latch which ensures the proper use by means of a double locking device, both in open as well as closed position.
- This also guarantees a pre-load on the material being lifted.
- The clamps are suitable for surface hardnesses up to 37 Rc (345HB ).Small overall dimension with a relatively high lifting capacity.
- Overall forged structure with good traceability and the safety factor of 6 times.

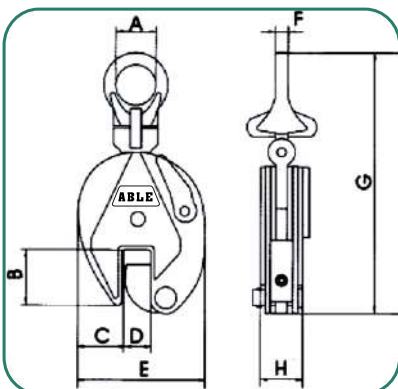


Jaw and floor Material: 20 CrMnTi  
Meets standard BS EN13155

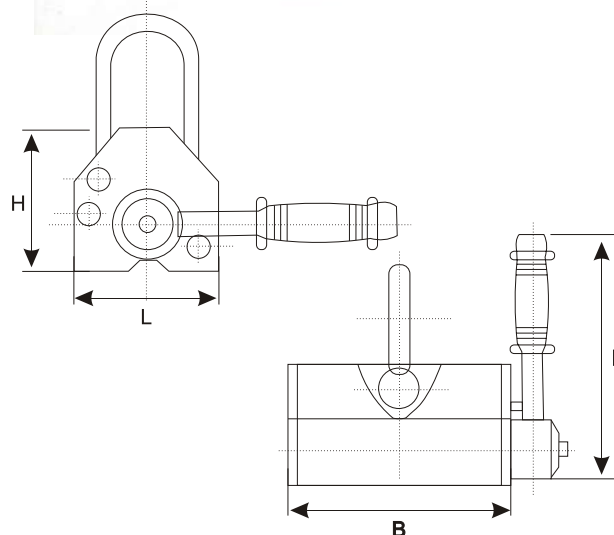
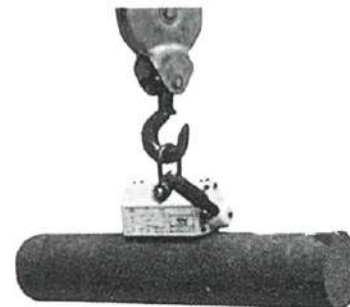


Working Load Limit (WLL)-for loading capacity please consult diagram as above

Product Code	Capacity Ton	Test Load Ton	A	B	Dimensions (mm)					H	Net weight kg
					C	D	E	F	G		
PLC 05	0.5	1.0	30	43	34.5	0-15	103	10	212	36	1.8
PLC 10	1.0	2.0	48	63	51	0-20	138	12	294	50	4.7
PLC 20	2.0	4.0	68	76	59	0-25	164	16	370	52	8.2
PLC 30	3.0	6.0	74	85	56	0-30	193	20	418	78	14.9
PLC 50	5.0	10.0	80	90	65	0-50	240	22	450	88	20.8
PLC 80	8.0	16.0	80	140	81	40-80	328	24	560	120	38.3



Model: PML



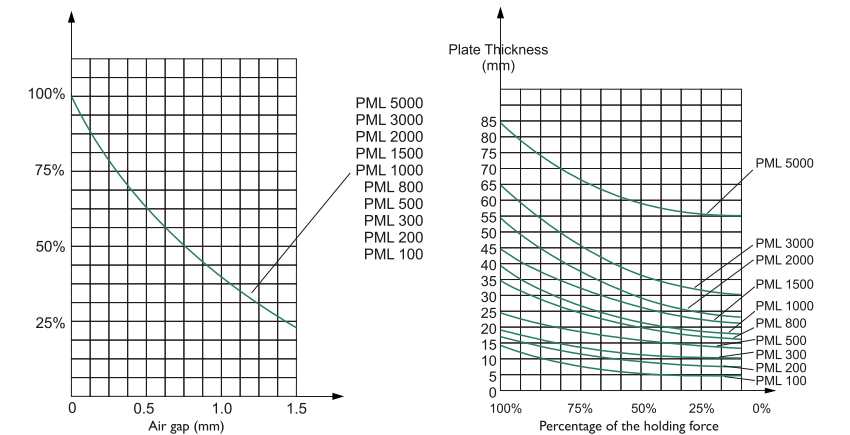
The Permanent Magnetic Lifter can be used in a variety of industries for the transportation and lifting of steel, engine parts, semi manufactured goods and moulds. Due to its magnetic force there is no need to use slings, clamps, or other holding devices eliminating damage to the surface of lifted goods.

### Special Features

- The Magnetic Lifter's highest pulling force is 3.0 times greater than the rated lifting capability.
- Work temperature: +80°C to -40°C
- Safe: NO electricity is needed to operate the Magnetic Lifter. Once operated there is less than 1% residual magnetism.
- The simple switch and safety button design allows for one handed operation.
- Larger sizes available, output up to 6000kg.

#### How to determine the right type of Magnetic Lifter for your application

- The capacity of the lifting magnet is determined by the thickness and surface quality of the component.
- Before operation it is necessary to find out the percentage of the steel thickness of the component and capacity curve.
- If the components surface roughness (Ra) is less than 6.3 um, the magnetic lifter surface gap will not exist, the lifting capacity will be 100%. If the surface roughness(Ra) is above or greater than 6.3um, the lifter gap should be estimated.



Product Code	Capacity (Flat) (kg)	capacity (Round) (kg)	Test Load (kg)	H (mm)	Dimension L (mm)	B (mm)	R (mm)	Weight (kg)
PML100	100	30	200	70	65	100	160	3.1
PML200	200	60	400	70	65	132	160	4.7
PML300	300	100	600	96	96	171	215	10.2
PML500	500	150	1000	115	125	223	215	20.7
PML600	600	200	1200	115	125	223	215	21.2
PML800	800	250	1600	140	138	271	313	34.1
PML1000	1000	300	2000	140	138	271	313	36.3
PML1500	1500	500	3000	140	138	341	313	43.4
PML2000	2000	600	4000	168	156	447	430	84.0
PML3000	3000	1000	6000	185	177	472	430	110.0
PML5000	5000	1500	10000	240	234	600	860	385.0



Model: SML

## ABLE SUPER MAGNETIC LIFTER

### The main uses and characteristics

High-performance Nd-Fe-B permanent magnetic materials composed of magnetic systems, by optimizing the magnetic circuit design and the overall steel structure, so that smaller and lighter weight, stronger sorption edge. Unique magnetic circuit design, remanence close to zero. High safety factor, the biggest force pull off are rated from 3.5 times of WLL. At the bottom of "V" shaped design for the sorption corresponding cylindrical objects, handle with safety switch button can be operated with one hand. It is applicable to factories, warehouses, terminals and transportation industry, etc.

Safety Factor: 3.5 to 1  
Super Magnet

### The main technical parameters

Product Code	Flat Load WLL (Kg)	Round Load WLL (Kg)	Proof Test Load (kg)	Plate Min Thickness (mm)	Round Min-Max Thickness (mm)	Work Max. Length (mm)	Operation temperature °C
SML-100	100	50	250	15	25-60	1500	-40 ~ +80
SML-300	300	150	750	20	50-100	1500	-40 ~ +80
SML-600	600	300	1500	30	100-180	2000	-40 ~ +80
SML-1000	1000	500	2500	40	150-350	2500	-40 ~ +80
SML-2000	2000	1000	5000	60	180-450	3500	-40 ~ +80

### Size specification

Product Code	Flat Load WLL (Kg)	Round Load WLL (Kg)	L mm	B mm	H1 mm	H2 mm	R mm	F mm	G mm	Weight kg
SML-100	100	50	137	62	66	45	119.5	31.5	21	3.9
SML-300	300	150	199	90	95	68	175.0	50.0	38	10.9
SML-600	600	300	263	115	107	78	224.5	58.0	42	21.0
SML-1000	1000	500	303	150	140	88	265.5	64.0	50	41.5
SML-2000	2000	1000	394	175	170	102	342.5	76.0	56	83.5



Model: LPC

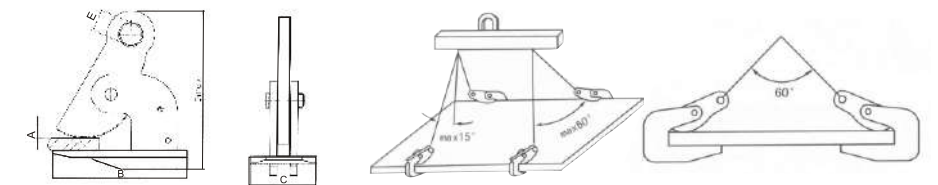


The LPC clamps are for Use in the lifting and transfer in horizontal Position of non-sagging materials or bundles of non-sagging material. These clamps must be used in pairs or more.

## LATERAL PLATE CLAMP LPC SERIES

### Technical specialities

- Hardened steel jaws for positive grip and locking mechanism.
- Drop forged alloy steel-Quenched and Tempered.
- 100% Proof load factory tested at 200% of capacity.
- Used in pairs, 2 or 4 pieces work together.
- Conforms to standard BS EN13155 and American Standard ANSI/ASME B30.20s.



Product Code	WLL(Ton) Single	WLL(Ton) Double	Test Load(Ton) Single	Test Load(Ton) Double	Jaw opening (mm)	A	B	C	D	E	Net weight kg
LPC 075	0.75	1.50	1.50	3.00	0~50	52	127	100	214	φ30	4.3
LPC 150	1.50	3.00	3.00	6.00	0~50	52	220	110	270	φ36	8.4
LPC 250	2.50	5.00	5.00	10.0	0~60	62	260	130	315	φ40	13.1
LPC 400	4.00	8.00	8.00	16.0	0~80	80	275	160	394	φ45	24.5

Model: HPC



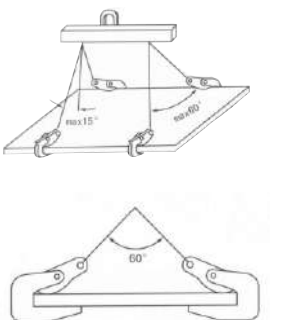
The HPC clamp is used for horizontal lifting and transfer of steel beams. The base is slotted to allow the clamps to be used from end of beams as well as from the flange.

## HORIZONTAL PLATE CLAMP HPC SERIES

### Technical Specialities

The HPC Horizontal Plate Clamps are for use in the lifting and transfer in horizontal position of non-sagging materials or of bundles of non-sagging material. These clamps must be used in pairs or more.

- Wide variety of jaw openings available: 0 to 40 mm.
- Individually proof tested to 200% of WLL with Certification.
- Each product is individually serialized, with IP, Logo, serial number and Proof Load Test date stamped on body. Serial number is included on the test certificate with maintenance and warranty logbook.
- Manufactured by an ISO 9001 facility.



Product Code	WLL(Ton) Single	WLL(Ton) Double	Test Load(Ton) Single	Test Load(Ton) Double	Jaw opening (mm)	A	B	C	D	E	Net weight kg
HPC 075	0.75	1.50	1.50	3.00	0~25	25	125	50	175	φ25	2.4
HPC 150	1.50	3.00	3.00	6.00	0~25	30	157	65	204	φ30	4.0
HPC 250	2.50	5.00	5.00	10.0	0~40	50	231	90	310	φ40	14.1



## Model: DHQ

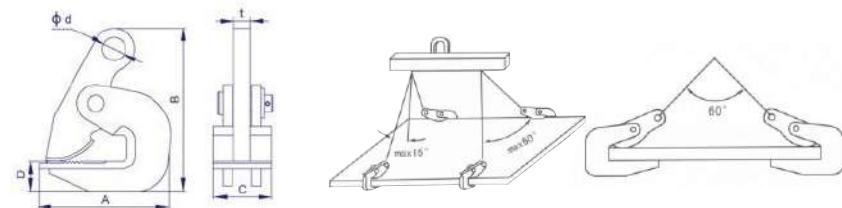


The DHQ clamps are for Use in the lifting and transfer in horizontal Position of non-sagging materials or bundles of non-sagging material. These clamps must be used in pairs or more.

## HORIZONTAL PLATE CLAMP DHQ SERIES

### Technical specialities

- Suitable for lifting and transport of steel plates, construction and profiled bar in horizontal position.
- Manufactured from high quality carbon steel.
- Avoid snatch or shock loading.
- The working load limit is the maximum load that the clamp are authorized to support when used in pairs with a lift angle of 60°. In lifting operations the clamps can be used in pairs or more.



Product Code	WLL(Ton)		Test Load(Ton)		Jaw opening (mm)	Dimensions (mm)				Net weight kg
	Single	Double	Single	Double		A	B	C	D	
DHQ 1	1.0	2	2	4	0~20	127	156	56	29	2.0
DHQ 1.5	1.5	3	3	6	0~30	152	190	64	31	3.2
DHQ 2.5	2.5	5	5	10	20~60	220	293	70	54	8.1
DHQ 4	4.0	8	8	16	50~100	277	375	86	59	16.5
DHQ 5	5.0	10	10	20	60~125	296	421	86	66	20.4

## CONCRETE PIPE LIFTING CLAMP LTC SERIES

The LTC Clamp for concrete Pipe sections or steel pipes. These Clamps are designed to lift concrete pipe sections in a vertical position. These clamps must be used in pairs for safe handling and can be supplied in either arrangement complete with chain.

- Three-legged lifting system for the safe and non-marring transport of concrete pipes up to a diameter of  $\phi$  2000mm and a load of up to 3t.
- Attachment and removal of the clamps can be done easily due to the handles that have been incorporated into each clamp.
- Batch tested at 4 to 1 against breakage
- For heavy duty use, but light weight design.
- For concrete pipes lifting application standard according to DIN 4034
- Lifting clamp for concrete pipe up diameter of  $\phi$  3000mm available upon request



Model: LTC



Product Code	WLL (T)	Jaw opening (mm)	Mouth Depth E (mm)	Pressure Line F (mm)	A (mm)	B (mm)	$\phi$ C (mm)	D (mm)	Weight (kg)
LTC1.5/120	1.5	40-120	165	100	135	75	18	180	35
LTC3.0/180	3	50-180	245	175	180	100	26	310	90
LTC3.0/220	3	90-220	245	175	180	100	26	310	94

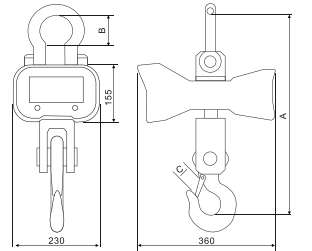
## Model: CSR-A CSR-B



## ABLE CRANE SCALE

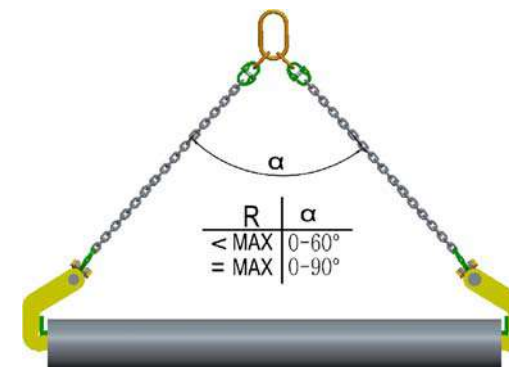
- CSR-A is LED display in red, for Indoor Use.
- CSR-B is LCD display in green, for Outdoor Use.

Weighing accuracy	Comply with OIML III
Operation time (with fully charged battery)	60hours
Safe over-load	15%FS
Damaging over-load	300%FS
Working temperature range	-10~50°C
Operation humidity	<90%R.H
Dimension of display	5 digits 30mm(1.2")
Stability time of reading	<5.0S
Remote distance	10-15m



Product Code	Max Cap (kg)	Min Division (kg)	A(mm)	B(mm)	C(mm)	N.W.(kg)
CSR-1-A/B	1000	1	505	58	35	11.5
CSR-2-A/B	2000	1	505	58	35	11.5
CSR-3-A/B	3000	1	505	58	35	11.5
CSR-5-A/B	5000	2	610	80	45	16.4
CSR-10-A/B	10000	5	650	90	45	21.0
CSR-15-A/B	15000	5	940	98	55	45.5
CSR-20-A/B	20000	10	1100	127	70	73.5

## Model: TPH

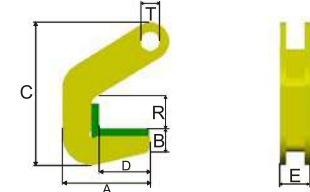


## ABLE PIPE LIFTING HOOK

TPH is designed for pipe lifting use, especially for steel pipe, aluminum pipe and stainless steel pipe, as well as concrete pipe, in high efficient manner.

### Special Features

- For Horizontal lifting and transporting pipes of various materials.
- Compact design & light weight outputting great lifting capacity.
- Unique plastic cover for protection with high durability, easy to be replaced.
- To be used in pair only (with lifting slings).



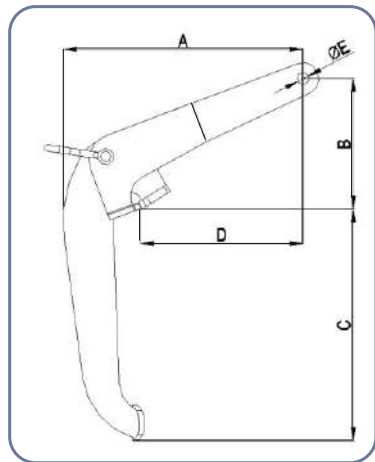
Product Code	WLL(Ton)		Opening (mm)	Dimensions(mm)						Weight (kg)
	Single	Double		A	B	C	D	E	T	
TPH1.5	0.75	1.5	40	122	30	195	70	39	φ 25	2.23
TPH3	1.5	3	40	122	30	195	70	39	φ 25	2.58
TPH4	2	4	50	122	30	215	70	39	φ 28	2.90
TPH6	3	6	50	122	30	215	70	39	φ 28	3.50
TPH8	4	8	70	126	30	240	70	39	φ 28	3.80
TPH12	6	12	70	160	30	260	90	45	φ 35	6.40
TPH16	8	16	70	168	30	272	90	50	φ 37	9.40



## Model: DLVC



**DLVC05** clamp is for vertical lift and transfer of drums. It allows drum to remain in an upright position during the lift and transfer by shackle eye lifting.



**LTVC05** clamp is for vertical lift and transfer of drums. It locks on drum automatically, and can be used alone or in pairs.

## VERTICAL DRUM LIFTING CLAMP

DESIGNED TO LIFT, MOVE AND TRANSFER 50-55 GALLON DRUMS WITH STEEL TOPS.

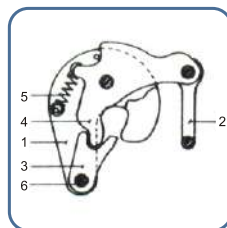
- Available in capacity of 0.5 metric tons.
- Welded alloy steel body for strength and smaller size. Forged alloy components, where required.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Company name (IP), logo, Working Load Limit and jaw opening permanently stamped on body.
- Each product is individually serialized, with the serial number and Proof Load test date stamped on body. Serial number is included on the test certificate with maintenance and warranty logbook.
- Maximum Breaking Strength is 500% of the WLL.
- Maintenance replacement kits are available.
- Manufactured by an ISO 9001 facility.

### Model: DLVC

Product Code	WLL (Ton)	Jaw Opening (mm)	Proof Load (Ton)	Dimensions (mm)					Weight (kg)
DLVC05	0.5	0 - 30	1.0	366	200	355	248	φ18	5.20

\* Ultimate load is 5 times the Working Load Limit.

- This ABLE clamp is designed for the lifting and transfer of steel drums carrying liquids.
- Please note this clamp is only suited for the lifting of steel drums.
- The LTVC clamp is supplied as standard with a locking device which is automatically applied when the clamp is attached to the drum.

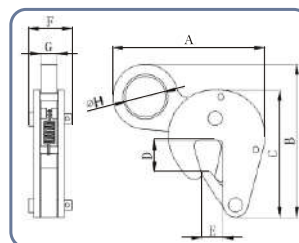


#### Components

- body complete
- shackle complete
- cam segment complete
- clamping arm complete
- spring
- body shaft

#### order no.

- 1041
- 1235
- 1234
- 0190
- 1063
- 0088



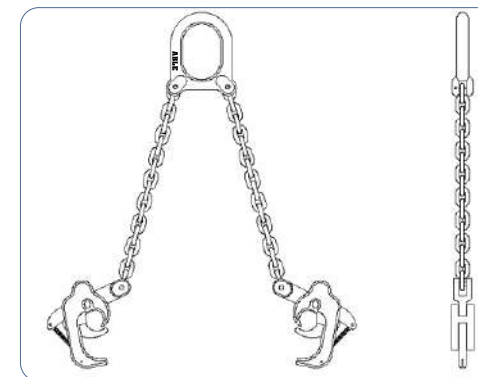
### Model: LTVC

Product Code	WLL (Ton)	Jaw opening (mm)	Proof Load (Ton)	Dimensions (mm)									Weight (kg)
LTVC05	0.5	0 - 17	0.75	150	150	125	31	21	43	16	40		1.50

\* Ultimate load is 4 times the Working Load Limit.



## Model: VDL

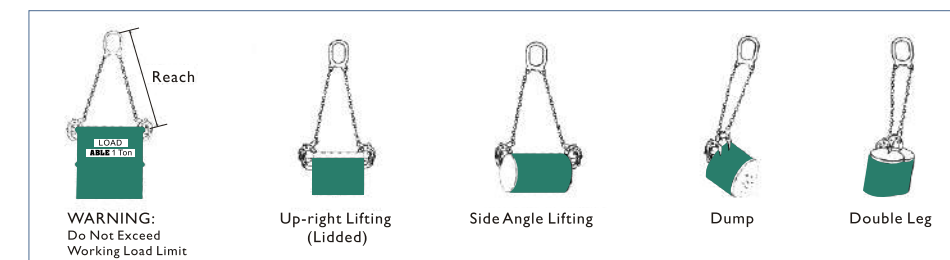
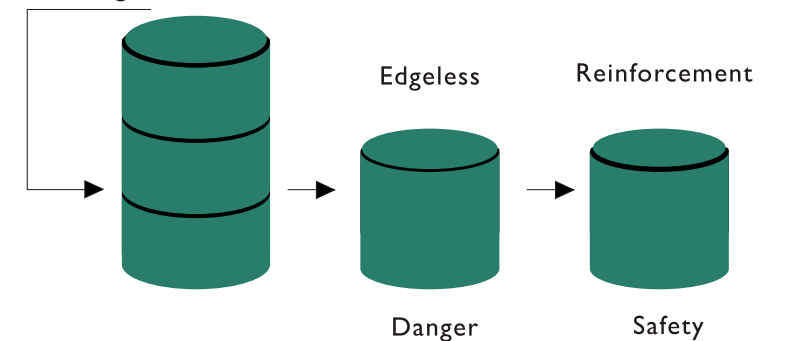


## UNIVERSAL CHAIN DRUM LIFTER

### Technical Specialities

- SafeliftVDL has similar application as crane, electric hoist and chain hoist.
- SafeliftVDL has various application for lifting of large and small steel drum without lid, or even for liquid or solid, the different shaped or transformed steel boxes.
- SafeliftVDL is perfectly suited for use in: Agriculture, Food Manufacturing, dock site, Hospitality, Cleaning, Chemical, Horticulture, Pool/Spa and General Manufacturing.
- Positive Lock - on rim grip action for hands free safety.
- As general usages, there is an example to use steel drum to cut half or adequate size to use. In such case of no edge (portion of drum) appearing on grip section, there is risk for GRABS to slip or come off. But in this case, grips edges would be welded or bolted reinforcements as shown below.

#### Cutting



Product Code	Working Load Limit		Proof Test Load	Chain Size		Ring Size			Total Reach	Weight
	Single	Double		Diameter	Length	Dia.	Inside	Outside		
VDLI	500kg	1000kg	2000kg	6.0mm	500mm	13mm	66mm	93mm	690m	3.6kg
	1100lbs	2200lbs	4400lbs	1/4"	20 1/3"	1/2"	2 3/5"	3 2/3"	27 1/6"	49lbs



## Model: HVP



### WARNING

Inspection prior to use as per ABLE operating manual



Ableforge HVP steel jack is designed And developed for heavy industrial lifting Applications, as per standards DIN 7355 and EN1494:2000+A1:2008.

## MECHANICAL STEEL JACK

### Technical specialities

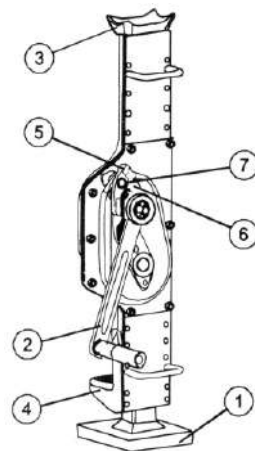
- Double pawl brake system - quick braking, safe and reliable.
- Low gearing tolerance - smooth transmissions, free of jerks.
- High efficiency and minimum turning force Less than 25 kgs is required to lift full load of all rated capacity.
- Sturdy structure, light weight and quick lift performance, high quality material CRS plate, carburized alloy steel gears.

Product Code	WLL (Ton)	Proof Load (Ton)	Height of Head at the Lowest (mm)	Height of Toe at the Lowest (mm)	Lifting Height Range (mm)	Net Weight (kg)
HVP-1.5	1.5	2.25	725	70	0 - 350	13.2
HVP-3	3.0	4.5	725	75	0 - 350	20.9
HVP-5	5.0	7.5	725	70	0 - 300	28.4
HVP-10	10	15	800	90	0 - 300	48.0
HVP-16	16	24	950	95	0 - 400	64.2
HVP-20	20	30	950	95	0 - 400	73.0

### Operation Guide

- Put the steel jack on even and solid ground. Then place the loads on the Toe Support stand(4) or the Head Support Stand(3). Shake the Lever(2) clockwise to lift the loads, vice verse, the loads are lowered down.

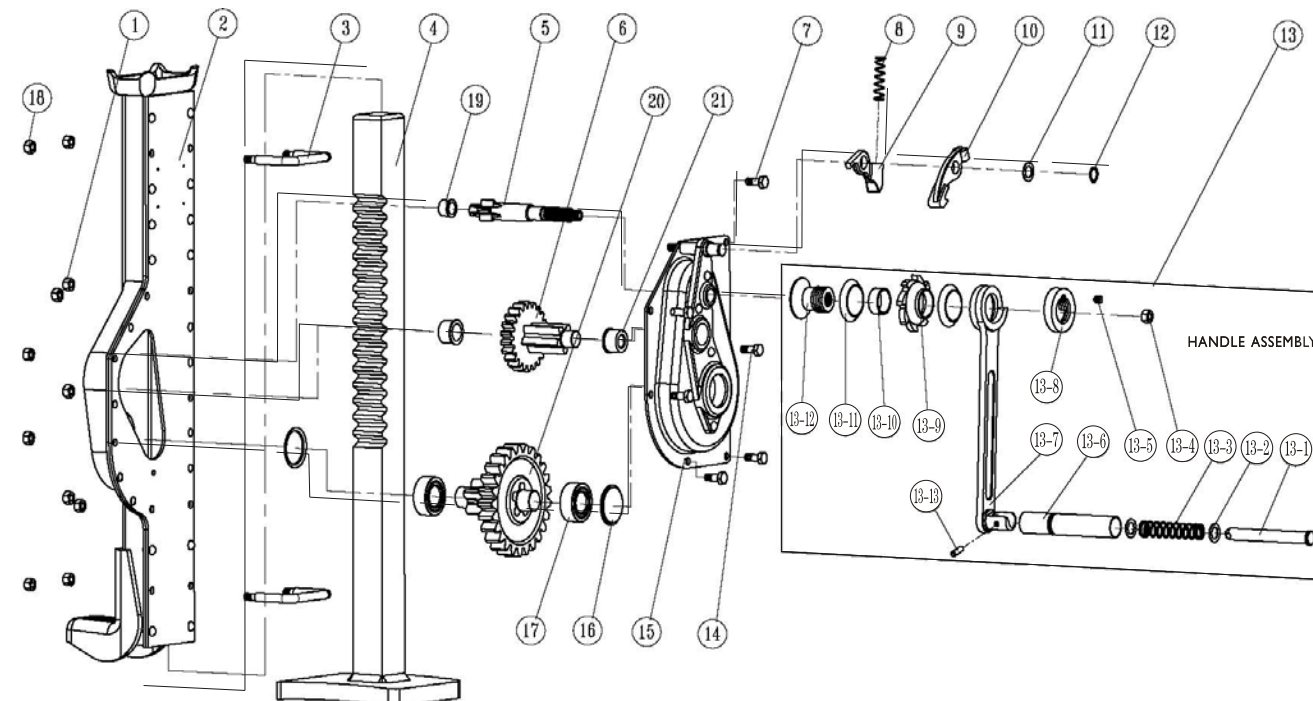
- (1) Base
- (2) Lever
- (3) Head Support Stand
- (4) Toe Support Stand
- (5) Upper Ratchet Pawl
- (6) Lower Ratchet Pawl
- (7) Axle Ring



### Attention

- Do not exceed the rated capacity. Overload is forbidden.
- Before operation, please check the flexibility of the Ratchet Pawls (5), (6)
- Please be sure the jack is on complete balance when operating. Do not put it on beveled, arc or uneven surfaces. The jack must be placed on hard plain grounds.
- Before lifting, please be sure the Support Stand (4) (3) supports the goods completely.
- When several jacks are used at the same time, please make sure they are at the same lift or lowering down. The whole operation course should be directed by compedent expert.
- It's forbidden putting any parts of the body under the lifted goods.
- If working force is abnormal in operation, please stop working immediately to inspect all related transmit components.
- Lubricate parts applied regularly.
- The Head Support Stand (3) should be on bottom position when the jack is not used.

## DETAILS OF SPARE PARTS DRAWING

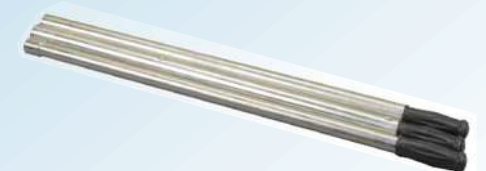


No.	NAME OF PARTS	QTY.	No.	NAME OF PARTS	QTY.
1	Hexagon locknut	6	13-5	Hexagon socket screws 8×8	1
2	Body assembly	1	13-6	Handle	1
3	Handle ring	2	13-7	Handle connecting rod	1
4	Rack assembly	1	13-8	Locknut	1
5	First driving shaft	1	13-9	Ratchet disk	1
6	First gear assembly	1	13-10	Brake spacer	1
7	Hexagon head bolts M8*20	4	13-11	Friction plate	2
8	Pawl spring	1	13-12	Brake	1
9	Under-pawl	1	13-13	Spring straight pin 6×20	1
10	Over-pawl	1	14	Fixed position bolts	2
11	Pawl washer	1	15	Shroud assembly	1
12	Circlips for shaft 14	1	16	Bearing cover	2
13	Handle assembly	1	17	Bearing assembly	2
13-1	Spring shaft	1	18	Hexagon locknut M6	4
13-2	Washer	2	19	First bearing race	1
13-3	Handle spring	1	20	Second gear assembly	1
13-4	Hexagon locknut M12	1	21	Second bearing race	2





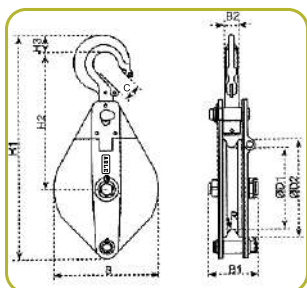
## Pullers, Winches & Bearing Swivels



### Model: HPB



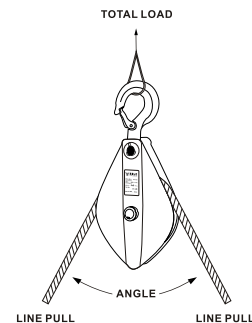
Single Sheave



## HAND PULLEY BLOCK champion block

### Technical features

- HPB, a U.K. design, is used to change the Load Line direction with a machined steel sheave.
- Drop forged, heat treated swivel hook and latch with stretch indicator and identity code.
- Can be furnished with bronze bushings or roller bearings.
- Opening feature permits quick insertion and positioning of rope on the sheave.
- Blocks can be securely locked by swinging the hook in the direction of pull.
- Groove and sheave is made from high quality machined alloy steel to suit its intended rope diameter.
- For Use with steel wire rope and/or fibre rope.
- Manufactured in accordance with European standard EN 13157:2003, and the machinery directive 98/37/EC.



The right chart indicates the factor to be multiplied by the line pull to obtain the total load on the block.

#### Example

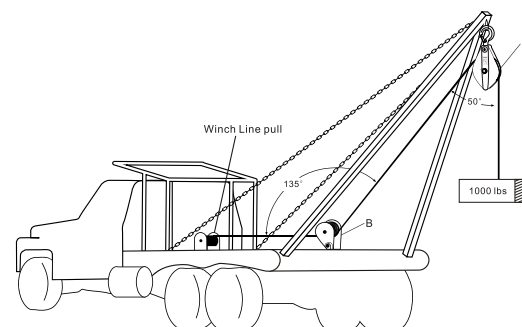
(Calculations for determining total load value on single line system.)

A gin pole truck lifting 1,000 lbs.

There is no mechanical advantage to a single part load line system, so winch line pull is equal to 1,000 lbs. or the weight being lifted.

To determine total load on snatch block A:  
**A = 1,000 lbs. x 1.81 = 1,810 lbs.**  
(line pull) (factor 50° angle)  
**B = 1,000 lbs. x .76 = 760 lbs**  
(line pull) (factor 135° angle)

Angle Factor Multipliers			
Angle	Factor	Angle	Factor
0°	2.00	100°	1.29
10°	1.99	110°	1.15
20°	1.97	120°	1.00
30°	1.93	130°	0.84
40°	1.87	135°	0.76
45°	1.84	140°	0.68
50°	1.81	150°	0.52
60°	1.73	160°	0.35
70°	1.64	170°	0.17
80°	1.53	180°	0.00
90°	1.41	—	—



Example

### Ableforge Hand Pulley Block Champion HPB Type

Product Code	Working Load Limit (Ton)	Hook Latch (mm)	Rope Diameter mm	Dimensions (mm)										Weight (kg)
				B	B1	B2	H1	H2	H3	C	D1	D2	R	
HPB 05	0.5	20	φ 5	95	62	16	260	190	20	20	75	88	3	2.0
HPB 10	1.0	23	φ 7	118	76	17	305	200	23	23	85	105	4	3.4
HPB 20	2.0	27	φ 13	199	92	24	425	263	30	27	150	190	7	8.0
HPB 32	3.2	32	φ 15	230	108	28	496	295	40	32	180	220	9	14.0
HPB 64	6.4	44	φ 18	270	116	35	655	375	47	44	210	260	10	24.0



## VALUE PLUS DESIGN THROUGH ABLEFORGE MFG INC.

**Adjustable handle**  
for easy operation

**Backward lever & Forward lever**  
placed in tandem providing a slim design and assuring power transfer along the center.

**Spare shear pins**  
Two spare shear pins located in the carrying handle.

**Built-in shearing pin**  
prevent overload. It functions at approx. 50% overload and the pins can be replaced without removing the load.

**Anchor bolt**  
offers numerous and versatile connection possibilities with load hooks, sling ropes and sling chains.

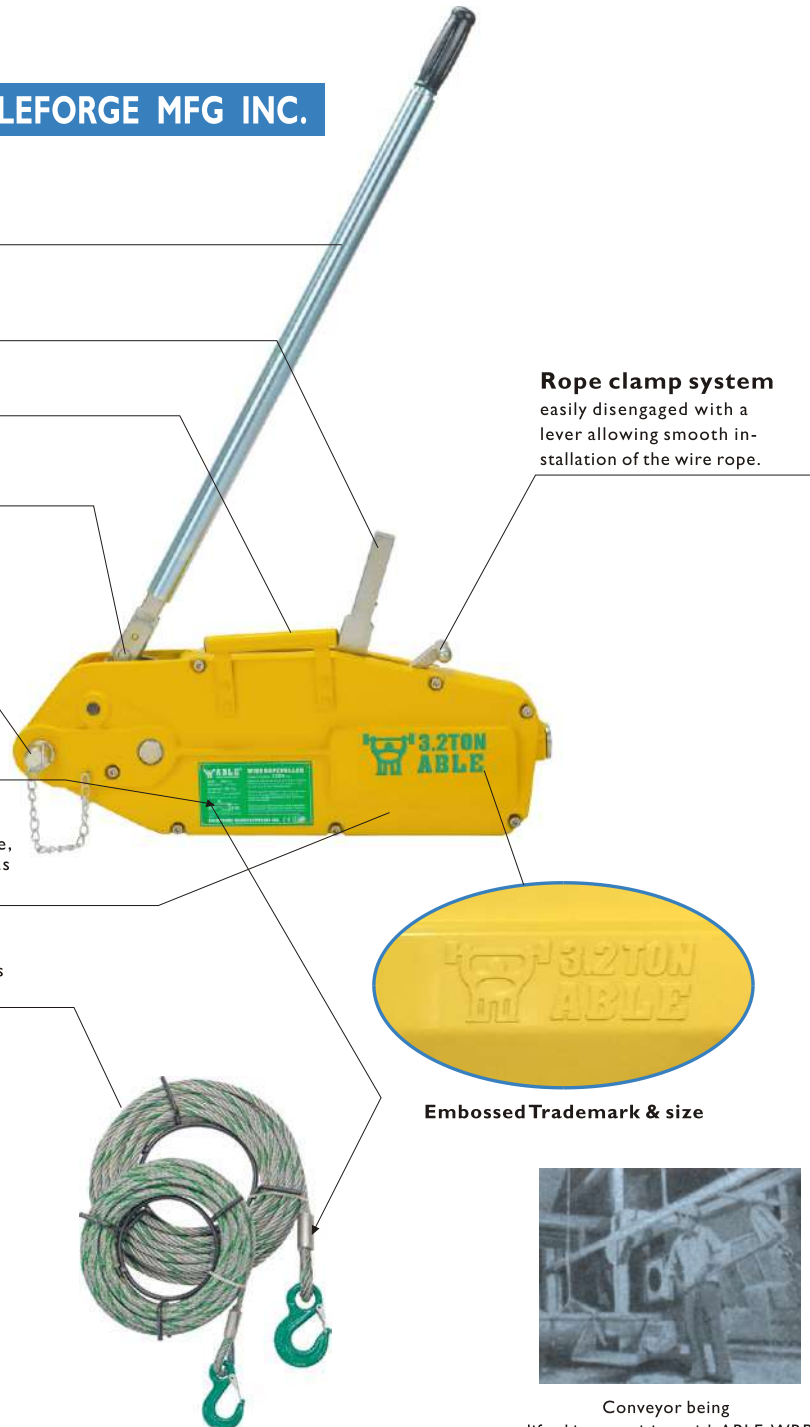
**Stamped serial number**  
for easy identification

**High strength cast aluminum alloy body**  
Light weight, simple to operate. Smooth contour design with large, flat bottom surface for increased stability in horizontal as well as vertical working position.

**Galv. steel wire rope mounted on a reel**  
every rope is operationally tested to 150% of the rated capacity and is issued with an individual test certificate

Light, powerful, easy to move and to use, these machines make it possible to solve the numerous pulling and lifting problems in a practical and safe manner.

- Construction**
  - dam structures-pulling of frame
  - laying of steel or concrete pipe
  - concrete pile laying
  - seat pile pulling
  - combine of fume tube
- Railway**
  - pulling of rail
  - removal of van or wagon
  - laying of track
  - shunting and maintenance of rolling stock
- Shipbuilding (Shipbuilding company)**
  - manoeuvring of ships
  - working of locks
  - stowing of cargo
  - shipping of dinghies
- Transport**
  - positioning of boiler
  - machines
  - maintenance
  - loading of car
  - emergency
  - loading and unloading of bulky and heavy packages



Embossed Trademark & size



Conveyor being lifted into position with ABLE WRP.



ABLE WRP in operation for the positioning of heavy machinery.



ABLE WRP used for steel alignment during erection.

## Model: WRP



### WRP WIRE ROPE PULLER DIMENSIONS

Product Code	WLL (Ton)	A	B	C	Dimensions(mm)		
					L1	L2	L3
WRP-08	0.8	426	238	64	N/A	N/A	800
WRP-16	1.6	545	284	97	692	1200	N/A
WRP-32	3.2	660	325	116	692	1200	N/A
WRP-54	5.4	930	480	152	680	1120	N/A

### WRP ALUMINUM WIRE ROPE PULLER SPECIFICATIONS

Conform & tested acc to EN13157+A1:2009

Product Code	Lifting Capacity (Ton)	Pulling Capacity (Ton)	Test Load (Ton)	Steel wire Rope dia. (mm)	SWR Lifting Safety Factor	SWR Breaking Strength (Ton)	SWR Travel Distance Per stroke (mm)	Safety Device	Net Weight (kg)
WRP-08-20	0.8	1.3	1.5	IWRC8.3	5 x WLL	5.43	52	Safety pins	15.7
WRP-16-20	1.6	2.8	3.0	IWRC11	5 x WLL	9.68	55	Safety pins	28.4
WRP-32-20	3.2	6.0	6.0	IWRC16	5 x WLL	17.20	28	Safety pins	55.2
WRP-54-20	5.4	10.1	10.1	IWRC20	5 x WLL	27.00	30	Safety pins	114.0

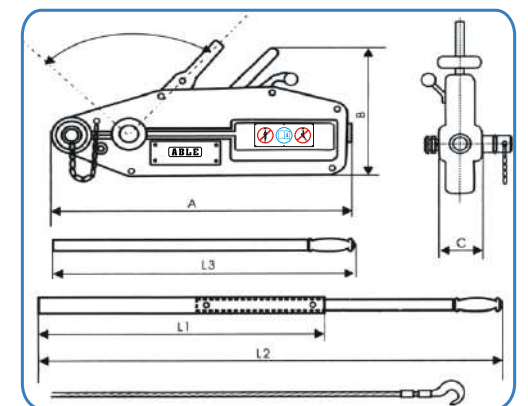
## WIRE ROPE PULLER WRP SERIES

### Mechanism:

**ABLE WRP** need not accompany a wire-drum for rolling up wire rope, and is therefore small in size, light in weight. By moving the handle, left and right, wire rope passes through. ABLE WRP as if it were hauled hand by means of two chucks equipped inside the body. This is very simply done and no experience is necessary.

### Features:

- Measures small and light.
- Equipped with two safety devices, and this guarantees safe operations.
- Wire rope is drawn out straight, by distant operations regardless of wire lengths.
- Transmission speed 3 meters per minute, and this is the fastest among all hand-driven hauling devices.
- Wire rope can be used at any working degrees.
- Equipped with a safety hook, preventing wire rope from coming off while operation.
- Most rationally planned, designed and durable.





## Model: RWP

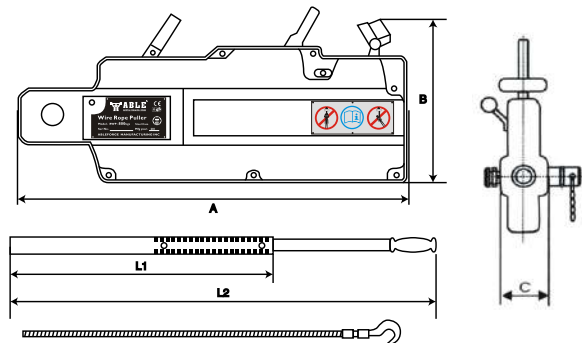
## ABLE STEEL WIRE ROPE PULLER

### Mechanism

RWP is a steel wire rope puller, which is small in size, light in weight. By moving the handle left and right, the wire rope passes through - lifting or lowering the load.

### Features

- Compact and light weight design
- Equipped with two safety devices, this guarantees safe user operation
- Wire rope is drawn out straight, regardless of wire lengths
- Transmission speed up to 3 metres per minute, dependant on effort and speed of operation
- Wire rope can be used at any working angle
- Equipped with a safety hook



Product Code	Lifting Capacity (Ton)	Pulling Capacity (Ton)	Travel per stroke (mm)	steel wire rope dia/length (mm)	safety factor	Net Weight (clw 20M SWR) (kg)
RWP-08-20	0.8	1.2	52	8.3 x 20m	5 x WLL	13.9
RWP-16-20	1.6	2.4	55	11 x 20m	5 x WLL	26.3
RWP-32-20	3.2	4.0	28	16 x 20m	5 x WLL	49.5

### Dimensions (mm)

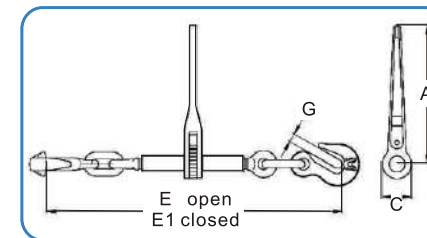
Product Code	A (mm)	B (mm)	Body Thickness C(mm)	L1 (mm)	L2 (mm)
RWP-08-20	440	265	63	N/A	80
RWP-16-20	550	300	77	80	120
RWP-32-20	690	350	91	80	120

## Model: FRB

## FORGED RATCHET LOAD BINDER

### Technical specialities

- Upgraded for use with grade 70,80 and 100 chain.
- One piece forged handle.
- Continuous take - up features provides finite adjustment to tie down load.
- Each binder individually proof tested.
- Easy operation positive ratchet



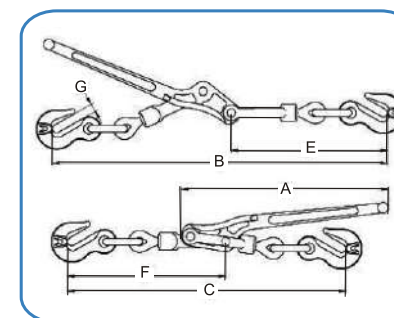
Product Code	SIZE (mm)	INCH SIZE	WLL (kg)	MBL (kg)	A	DIMENSION (mm)	WEIGHT (kg)
FRB-08	7.8	5/16-3/8	3800	8600	355	65 590 754 11	4.8
FRB-10	10	3/8-1/2	6000	12000	355	65 610 775 12	5.2
FRB-13	13	1/2-5/8	9000	18000	355	65 700 870 15	7.6

## Model: FLB

## FORGED LEVER LOAD BINDER

### Technical specialities

- Made from quenched and tempered alloy steel
- Extra heavy construction at leverage point to prevent spreading Heel of binder toggles away from load, permitting easy release.
- Ball and socket swivel joints at hook assemblies permit a straight line pull.
- Free 360 degree swivel hooks for easier handling.



Product Code	SIZE (mm)	INCH SIZE	WLL (kg)	MBL (kg)	A	DIMENSION (mm)	WEIGHT (kg)
FLB-08	7.8	5/16-3/8	3800	8600	400	614 510 287 285 11	3.3
FLB-10	10	3/8-1/2	6000	12000	441	702 572 325 324 12	5.5
FLB-13	13	1/2-5/8	9000	18000	518	858 705 395 391 15	8.8



## Model: HRP



## MINI HAND RATCHET PULLER

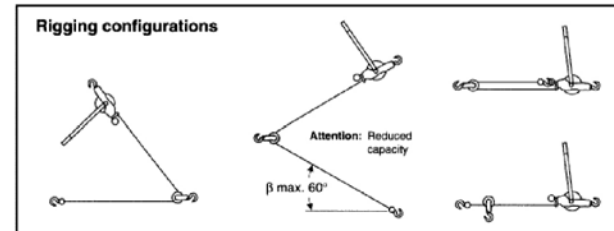
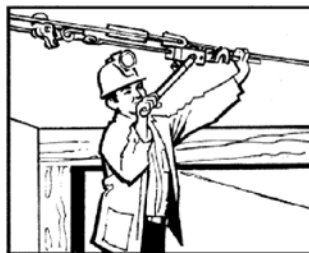
### Specialties

### INDUSTRIAL HAND RATCHET PULLER/HOIST

Designed for electric wire pulling at working fields of:

electric power, telephone line works, construction, farm and general purposes.

- UP and DOWN movement by moving the lever.
- Time - tested technique.
- Equipped with automatic mechanical brake and change pawl.
- More built - in safety factors than other brands
- Easily field repairable and inexpensive to maintain
- Solid ductile and malleable iron construction



Product Code	Tractor Capacity(Ton)	Wire Rope size	No. of Hook	N.W(kg)
HRP010	1.0	Φ 5mm×2.3mtr	Two	15(4pcs)
HRP015	1.5	Φ 6mm×2.3mtr	Two	16(4pcs)
HRP020	2.0	Φ 6mm×2.3mtr	Two	18(4pcs)

### UNSHELLED CABLE GRIPS

An ideal device for gripping, Pulling and tensioning of messenger wire ropes, cables and metal rods, depending in the diameter and surface up to a tensile strength of 1.770N/mm<sup>2</sup>

- The parallel jaws give a firm non - slip grip, not damaging the wire.
  - Guide prevents the grip from dropping off the wire and affords instant release.
  - Tight wire - gripping for Ratchet Puller (Pulley Tackle)
  - More built - in safety factors than other brands
  - Easily field repairable and inexpensive to maintain
  - Solid ductile and malleable iron construction
- Loading capacity from 500kgs to 3,000kgs

Product Code	S.W.L	Conductor dia Recommended	N.W.
B-0500	0.5ton	1-10mm	0.39kgs
B-1000	1.0ton	2-20mm	0.70kgs
B-2000	2.0ton	2-26mm	1.27kgs
B-3000	3.0ton	16-32mm	2.38kgs



## Model: UCG-B

## Model: BHW



## ABLE BRAKE HAND WINCH BHW SERIES

Lifting capacity - 180, 270, 410 and 600kg  
Manual wire rope winch with Spur gear drive

- Winch housing and rope drum from robust steel plate.
- Rope drum on bearings.
- Spur gear drive for optimal efficiency.
- Compact, lightweight and durable design.
- Automatic load pressure brake for safe holding and lowering of the load.

**NOTE:** HW-800 does not have an automatic brake fitted\*

The wire rope winch comes with high visibility, green powder coated finish as standard also available in stainless steel, A304 material.



## Model: BHW-S



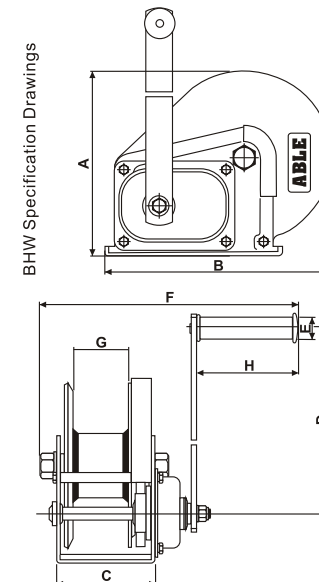
### STANDARD BRAKE HAND WINCH BHW SERIES

Product Code	Lifting Capacity, 1st rope layer	Pulling capacity 1st rope layer	Required Effort 1st rope layer	Drum Diameter (mm)	Gear Ratio	Rope Diameter	Rope Capacity total (m)	Number of rope Layers max.	N.W. c/w 5m SWR (kg)
HW- 800	180kg	370kg	14.5kg	21	3.7:1	4	27	TBA	3.1
BHW-1200	270kg	545kg	15.0kg	48	4.2:1	4	33	9	4.2
BHW-1800	410kg	820kg	22.0kg	60	5:1	5	47	TBA	8.6
BHW-2600	600kg	1200kg	19.0kg	75	10:1	5	47	7	10.9

### STAINLESS BRAKE HAND WINCH BHW-S SERIES

Product Code	Lifting Capacity, 1st rope layer	Pulling capacity 1st rope layer	Required Effort 1st rope layer	Drum Diameter (mm)	Gear Ratio	Rope Diameter (mm)	Rope Capacity total	Number of rope Layers max.	N.W. c/w 5m SWR (kg)
BHW-1200S	270kg	545kg	15.0kg	48	4.2:1	4	33	9	4.0
BHW-2600S	600kg	1200kg	19.0kg	75	10:1	5	47	7	10.3

BHW Specification Drawings



### BHW BRAKE HAND WINCH SPECIFICATIONS

Product Code	Lifting SWL (kg)	Pulling SWL (kg)	A	B	C	Dimensions (mm) D	E	F	G	H
BHW-1200(S)	270	545	156	184	88	210	27	272	51	109
BHW-1800(S)	410	820	203	256	107	319	27	283	60	109
BHW-2600(S)	600	1200	216	293	127	319	27	305	63	109

- Conform & tested acc to EN 13157:2004 +A1:2009
- AS1418.2 compliance applies when fitted with Approved wire Rope and Fittings.



## Model: PNW

### MANUAL WINCH PNW SERIES

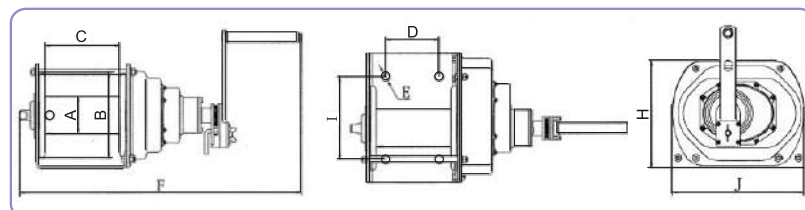


- Suitable for many lifting and lowering applications such as raising boats on davits or raising and lowering sailboat keels.
- Self - locking brake winches provide additional safety and control for many lifting and pulling jobs.
- The automatic friction brake supplies constant, positive holding action and prevents runaway load.
- Brake is fully automatic and the load remains in position anytime the handle is released.

Product code	Capacity SWL (Ton)	Wire Cable Dia.	Drum Diameter	Required Effort	Drum Capacity	Can Wind Per Turn	Working Handle Length	Reduction Gear Ratio	Net Weight
PNW-500	0.5	φ 6.3mm	60.5mm	12.0kg.	40m	48.4mm	350mm	4.33 : 1	14.4kgs.
PNW-1000	1	φ 8.0mm	76.3mm	12.0kg.	40m	21.7mm	350mm	12.19 : 1	19.8kgs.
PNW-2000	2	φ 9.0mm	89.1mm	13.0kg.	40m	13.6mm	350mm	22.68 : 1	25.2kgs.
PNW-3000	3	φ 12.5mm	101.6mm	18.0kg.	40m	18.0mm	350mm	22.16 : 1	44.5kgs.

#### PNW MANUAL WINCH SPECIFICATIONS

Product code	Capacity SWL (Ton)	Dimensions(mm)									
		A	B	C	D	E	F	H	I	J	
PNW-500	0.5	φ60	φ140	150	100	φ15	403	182	130	245	
PNW-1000	1	φ76	φ175	154	110	φ18	443	214	170	266	
PNW-2000	2	φ90	φ190	195	155	φ18	490	230	170	300	
PNW-3000	3	φ100	φ230	205	155	φ18	549	296	170	365	



## Model: BC

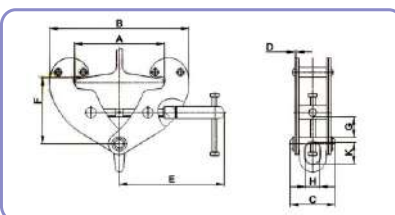
### UNIVERSAL BEAM CLAMP



- Conforms to ANSI/ASME safety standard
- Can be easily adjusted with threaded handle
- Clamp jaw is designed to reduce flange stress by distributing load away from I-Beam flange edge
- Fits a wide range of flange width and beams
- Suspension bar provides lower headroom

#### OPTIONAL EXTRA

- Can be supplied without Lifting Ring
- Special design with flattened, reinforced jaws



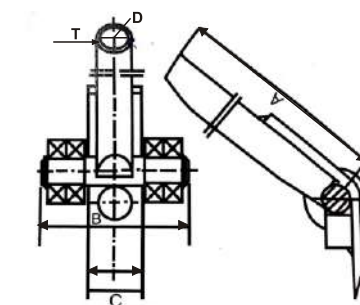
Product Code	Capacity (ton)	flange width (mm)	Dimensions(mm)											N.W. (Kg)
			A Max.	B Min.	B Max.	C	D	E	F Max.	F Min.	G	H	K	
BC1	1	75-230	240	192	367	94	4	218	155	103	20	30	45	4.0
BC2	2	75-230	240	192	367	102	6	218	155	103	20	30	45	4.8
BC3	3	80-320	330	243	491	132	8	258	223	157	47	45	63	9.8
BC5	5	80-320	330	243	491	142	10	258	223	157	47	45	63	11.1
BC10	10	90-320	330	259	501	180	12	293	235	175	56	64	95	17.8

## Model: RC



### ROLLER CROWBAR

A lever bar of strong steel tube on two smooth running steel rollers.



- Compact design
- Easy to use
- High efficiency
- Safe handle

Product code	Capacity (Ton)	Roller Skate Max.height Recommended (mm)	Tube Length (mm) A	Width (mm) B	Distance between two wheels (mm) C	Tube Size dia×thickness (mm) D×T	N.W. (kg)
RC 30	3	110	1400	136	50	φ34×4	7.0
RC 50	5	110	1500	162	68	φ38×5	10.5

## Model: RSA



### ROLLER SKATES

**Shifting skate** can be used wherever heavy objects have to be moved. The load can be lifted using either the roller crowbar or a jack, allowing the skates to be easily positioned. The large diameter sealed nylon roller ensure ease of movement and spread the load, protecting high quality floors from damage caused by high point loads and oil/grease contamination. The skates are maintenance free and are fitted with handles for ease of carrying and positioning.

Turnable with bearings; Friction Coefficient: 0.15 to 0.25

Product code	Capacity (Ton)	Wheel NO.	Length (mm)	Width (mm)	Height (mm)	Weight (Kg)
RSA 04	6	4	300	225	110	13.15
RSA 06	8	6	400	225	110	15.80
RSA 08	12	8	500	225	110	25.91
RSA 12	18	12	500	313	110	40.93

Minimum turning circle is 3 meters

## Model: RSO



Fixed skate type; Friction Coefficient: 0.15 to 0.25

Product code	Capacity (Ton)	Wheel NO.	Length (mm)	Width (mm)	Height (mm)	Weight (Kg)
RSO 04	6	4	300	225	100	11.89
RSO 06	8	6	400	225	100	14.55
RSO 08	12	8	500	225	100	24.65
RSO 12	18	12	500	313	100	39.67

Minimum turning circle is 3 meters





## Model: CTS

### TRANSPORT TROLLEY SKATES

#### ◆ Calculation of Maximum Capacity of CTS set

- 8 tonne = 1 x 4 tonne steering skate with turntable  
2 x 2 tonne trailing skates
- 16 tonne = 1 x 8 tonne steering skate with turntable  
2 x 4 tonne trailing skates
- 24 tonne = 1 x 12 tonne steering skate with turntable  
2 x 6 tonne trailing skates
- 32 tonne = 1 x 16 tonne steering skate with turntable  
2 x 8 tonne trailing skates
- 36 tonne = 1 x 18 tonne steering skate with turntable  
2 x 9 tonne trailing skates
- 48 tonne = 1 x 24 tonne steering skate with turntable  
2 x 12 tonne trailing skates
- 64 tonne = 1 x 32 tonne steering skate with turntable  
2 x 16 tonne trailing skates

#### ◆ Safe Use Guidance

- Never overload the skates.
- Always use the correct equipment to load the skates, such as ABLE HTJ toe jacks.
- When loading the skates set, make sure the load is distributed averagely onto every individual skates.
- Make sure the load will not slip over the skates.
- Make sure the load set stable on the skates and avoid any risk of the load tipping over or falling from the skate.
- Never use CTS skates on a floor of different levels.
- When moving loads on a floor that has a slope, make sure the means of controlling the movement of the load is secured once it starts moving.
- Always ensure the floor is clean and free from any objects that could damage the wheels of the skate.

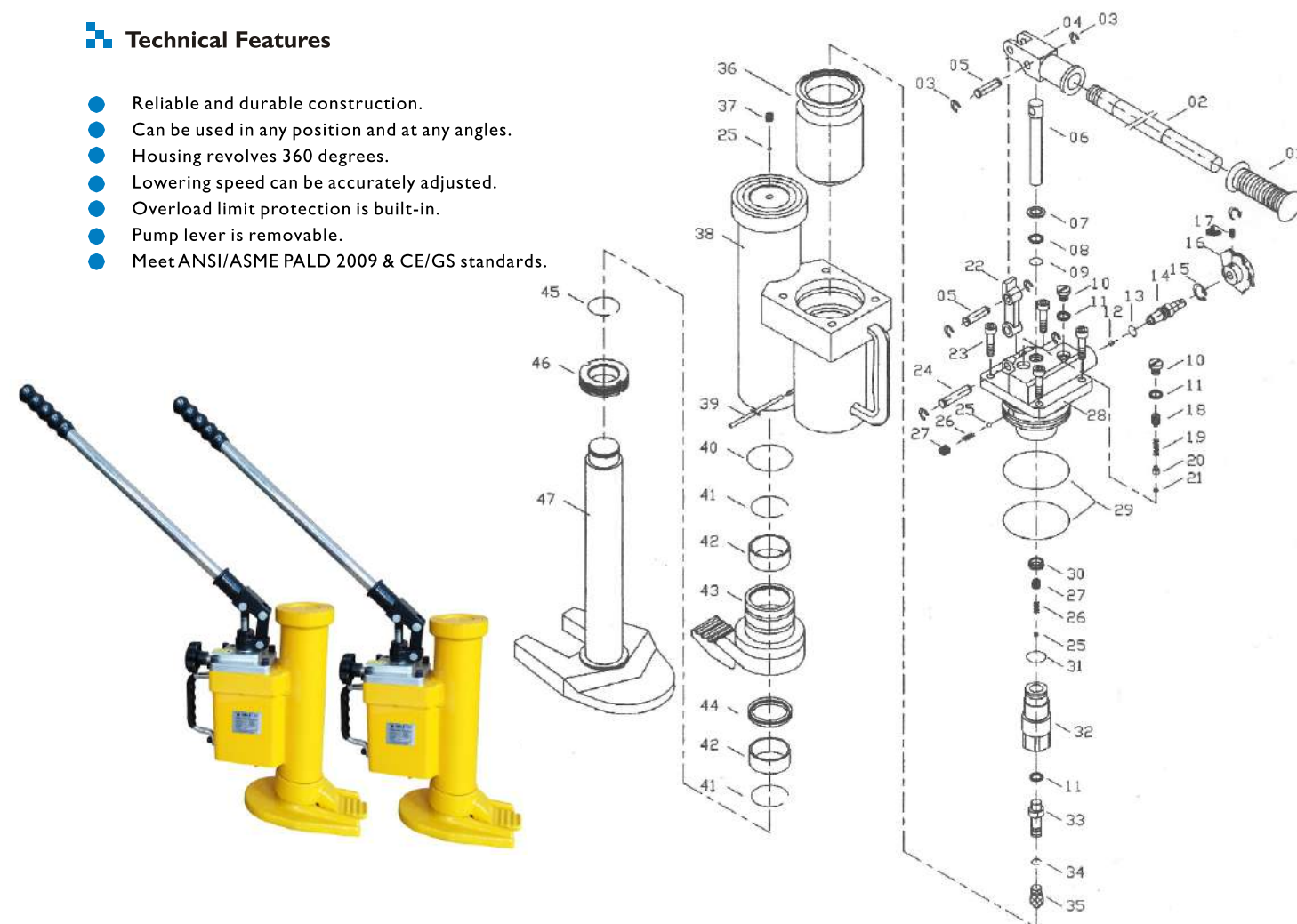
Product Code (Model)	Wheel Numbers (PCS)	Adjustable Length of the Handle (MM)	Outside Size Length x Width x Height (mm)	Capacity WLL (Ton)	Net Weight (kg)
CTS08 (X4+Y4)	X4	4	800	8	31
	Y4	4	300-1000		
CTS 16 (X8+Y8)	X8	8	1100	16	76
	Y8	8	400-1300		
CTS 24 (X12+Y12)	X12	12	1100	24	106
	Y12	12	400-1400		
CTS 32 (X16+Y16)	X16	16	1100	32	132
	Y16	16	400-1500		
CTS 36 (X18+Y18)	X18	18	1500	36	148
	Y18	18	400-1500		
CTS 48 (X24+Y24)	X24	12	1500	48	200
	Y24	12	400-1600		
CTS 64 (X32+Y32)	X32	16	1500	64	312
	Y32	16	500-2000		

## Model: HTJ

### HYDRAULIC TOE JACK

#### Technical Features

- Reliable and durable construction.
- Can be used in any position and at any angles.
- Housing revolves 360 degrees.
- Lowering speed can be accurately adjusted.
- Overload limit protection is built-in.
- Pump lever is removable.
- Meet ANSI/ASME PALD 2009 & CE/GS standards.



#### HTJ HYDRAULIC TOE JACK SPECIFICATIONS

Product Code	Capacity (ton) Toe Head	Min. Height (mm) Toe Head	Max. Height (mm) Toe Head	Max. Lever Force (kg)	Net Wght (kg)
HTJ-05	5	N/A	25 368	230 573	38 25
HTJ-10	10	N/A	30 420	260 650	40 35
HTJ-25	25	N/A	58 505	273 720	40 102

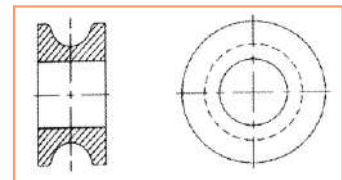
■ Work temperature: -20°C ~ +50°C



## ABLE VALUE PLUS BEARING SWIVELS

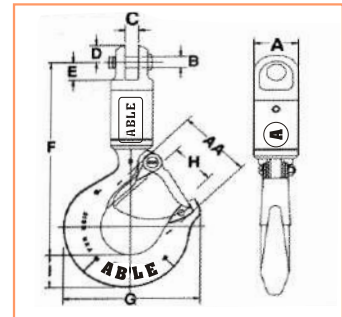


Swivel Pictures Display



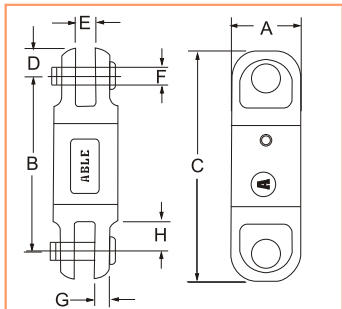
- Wide range of capacities available.
- Capacity: from 1 to 35tons.
- Wire Rope Sizes: " 7.0mm to 38.0mm"
- Individually Proof Tested to 125% of theWorking Load Limit with certification.
- MBL is designed to be 300% of WLL
- Entire swivel is Chrome plated to resist corrosion.
- Angular contact bearings maximize efficiency, reliability and service life of swivel and extend the life of the wire rope.

AV-20 Thimble Insert	
Wire Rope Size (mm)	AV-20 Stock No.
12.7	2011200
16.0	2011209
20.0	2011218
25.4	2011227
32.0	2011236
38.0	2011245



AV-1 Jaw & Hook		Dimensions (mm)											Deformation Indicator AA
AV-1 Product Code	Working Load Limit (Tons)*	Wire Line Size (mm)	Weight Each (kgs.)	A	B	C	D	E	F	G	H	I	
AV1-JH-010	1.0	7.0	1.8	48	18	16	22	25	161	80	25	21	1.50
AV1-JH-020	2.0	10.0	2.6	53	20	18	24	27	185	101	29	29	1.50
AV1-JH-030	3.0	12.7	4.2	63	22	23	30	33	225	123	36	36	2.50
AV1-JH-050	5.0	16.0	7.9	78	30	28	38	43	278	159	43	46	3.00
AV1-JH-085	8.5	20.0	14.1	98	33	38	47	54	328	190	55	54	4.00
AV1-JH-100	10	22.4	18.9	108	40	42	53	58	352	216	62	61	5.00
AV1-JH-150	15	25.4	28.3	117	45	45	65	70	422	260	70	76	5.00
AV1-JH-200	20	28.6	37.3	127	45	56	75	80	480	290	80	86	6.00
AV1-JH-250	25	32.0	48.1	137	50	62	85	90	532	348	96	103	6.50
AV1-JH-350	35	38.0	70.7	155	55	65	92	105	604	390	108	116	7.00

\* Ultimate Load is 3 times of the Working Load Limit.



AV-2 Jaw & Jaw				Dimensions (mm)							
AV-2 Product Code	AV-2 JAW&JAW			A	B	C	D	E	F	G	H
	Working Load Limit (Tons)*	Wire Line Size (mm)	Weight Each (kgs.)								
AV2-JJ-010	1.0	7.0	2.2	48	153	197	22	16	18	16	25
AV2-JJ-020	2.0	10.0	2.8	53	162	210	24	18	20	17	27
AV2-JJ-030	3.0	12.7	4.6	63	189	249	30	23	22	20	33
AV2-JJ-050	5.0	16.0	8.5	78	229	305	38	28	30	25	43
AV2-JJ-085	8.5	20.0	15.8	98	276	370	47	38	33	30	54
AV2-JJ-100	10	22.4	21.1	108	298	404	53	42	40	33	58
AV2-JJ-150	15	25.4	28.2	117	340	470	65	45	45	36	70
AV2-JJ-200	20	28.6	35.9	127	384	534	75	56	45	36	80
AV2-JJ-250	25	32.0	44.1	137	415	585	85	62	50	37	90
AV2-JJ-350	35	38.0	64.2	155	460	644	92	65	55	45	105

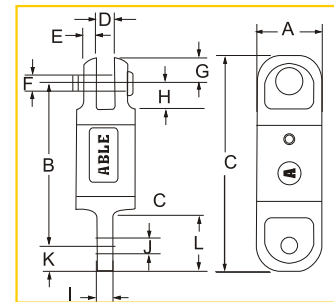
\* Ultimate Load is 3 times of the Working Load Limit.

## ABLE VALUE PLUS BEARING SWIVELS

- Designed for high rotation speed: Lower torque required to initiate rotation.
- Each swivel, 8.5 tons and larger is furnished with a pressure lubrication fitting.

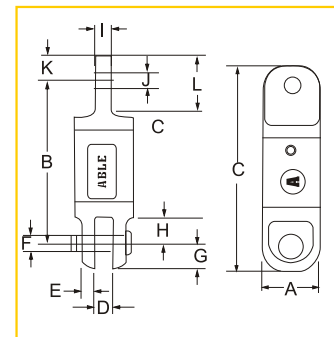
### AV-20 Thimble Insert

- When terminating with wire rope clips, we recommend the use of the Thimble Insert.
- The result will be extended wire rope use life.
- Allows standard swivel to be used in application requiring a thimble fitting.
- Machined from carbon steel. Chrome plated.



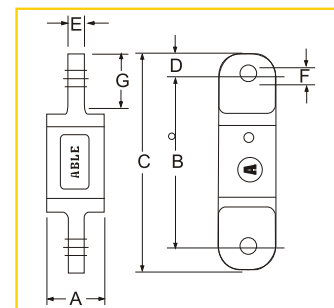
AV-3 Jaw & Eye		Dimensions (mm)													
AV-3 Product Code	Working Load Limit (Tons)*	Wire Line Size (mm)	Weight Each (kgs.)	A	B	C	D	E	F	G	H	I	J	K	L
AV3-JE-010	1.0	7.0	2	48	153	197	16	16	18	22	25	26	20	22	47
AV3-JE-020	2.0	10.0	2.8	53	162	210	18	17	20	24	27	23	22	24	51
AV3-JE-030	3.0	12.7	4.4	63	189	249	23	20	22	30	33	28	27	30	63
AV3-JE-050	5.0	16.0	8.6	78	229	305	28	25	30	38	43	38	37	38	81
AV3-JE-085	8.5	20.0	15.6	98	276	370	38	30	33	47	54	45	43	47	101
AV3-JE-100	10	22.4	21.4	108	298	404	42	33	40	53	58	52	50	53	111
AV3-JE-150	15	25.4	28.1	117	340	470	45	36	45	65	70	66	62	65	135
AV3-JE-200	20	28.6	36.9	127	384	534	56	36	45	75	80	74	71	75	155
AV3-JE-250	25	32.0	47.3	137	415	585	62	37	50	85	90	81	76	85	175
AV3-JE-350	35	38.0	66.8	155	460	644	65	45	55	92	105	90	85	92	197

\* Ultimate Load is 3 times of the Working Load Limit.



AV-4 Eye & Jaw		Dimensions (mm)													
AV-4 Product Code	Working Load Limit (Tons)*	Wire Line Size (mm)	Weight Each (kgs.)	A	B	C	D	E	F	G	H	I	J	K	L
AV4-EJ-010	1.0	7.0	2	48	153	197	16	16	18	22	25	16	20	22	47
AV4-EJ-020	2.0	10.0	2.8	53	162	210	18	17	20	24	27	23	22	24	51
AV4-EJ-030	3.0	12.7	4.4	63	189	249	23	20	22	30	33	28	27	30	63
AV4-EJ-050	5.0	16.0	8.6	78	229	305	28	25	30	38	43	38	37	38	81
AV4-EJ-085	8.5	20.0	15.6	98	276	370	38	30	33	47	54	45	43	47	101
AV4-EJ-100	10	22.4	21.4	108	298	404	42	33	40	53	58	52	50	53	111
AV4-EJ-150	15	25.4	28.1	117	340	470	45	36	45	65	70	66	62	65	135
AV4-EJ-200	20	28.6	36.9	127	384	534	56	36	45	75	80	74	71	75	155
AV4-EJ-250	25	32.0	47.3	137	415	585	62	37	50	85	90	81	76	85	175
AV4-EJ-350	35	38.0	66.8	155	460	644	65	45	55	92	105	90	85	92	197

\* Ultimate Load is 3 times of the Working Load Limit.



AV-5 Eye & Eye										
AV-5 Product Code	Working Load Limit (Tons)*	Wire Line Size (mm)	Weight Each (kgs.)	Dimensions (mm)						
				A	B	C	D	E	F	G
AV4-EE-010	1.0	7.0	1.8	48	153	197	22	16	20	47
AV4-EE-020	2.0	10.0	2.4	53	162	210	24	23	22	51
AV4-EE-030	3.0	12.7	4.2	63	189	249	30	28	27	63
AV4-EE-050	5.0	16.0	7.9	78	229	305	38	38	37	81
AV4-EE-085	8.5	20.0	14.5	98	276	370	47	45	43	101
AV4-EE-100	10	22.4	20.1	108	298	404	53	52	50	111
AV4-EE-150	15	25.4	28.2	117	340	470	65	66	62	135
AV4-EE-200	20	28.6	38.7	127	384	534	75	74	71	155
AV4-EE-250	25	32.0	48.1	137	415	585	85	81	76	175
AV4-EE-350	35	38.0	72.2	155	460	644	92	90	85	197

\* Ultimate Load is 3 times of the Working Load Limit.



# Chains and Chain Slings.

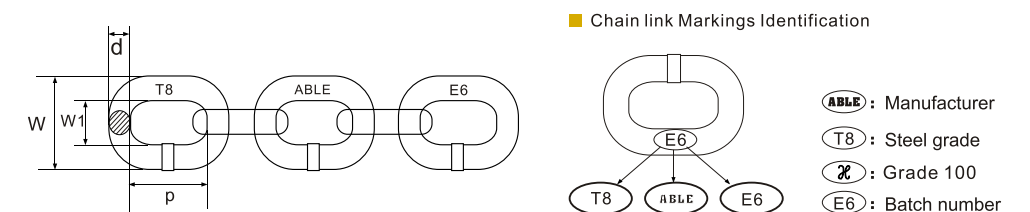


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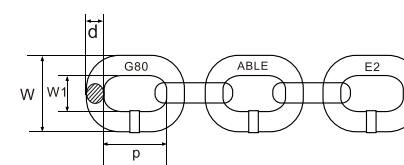


**Alloy chain** is designed and manufactured for superior performance and usage. It can easily withstand more abuse, abrasion resistance, greater load lifting per size and is lighter to handle for application.

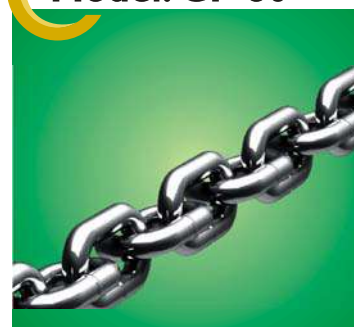
- Alloy steel Material, heat treated and proof tested
- Safety Factor 4:1(GR80) and 5:1(GR100)
- Produced from Quality Alloy Steel by our selected supplier
- Tougher and more reliable for lifting application
- Elongation Rate: 12%-20%
- Finish: Black Matted, Gold Galvanising or chrome coated
- Permanently Embossed with desired marking for easy identification and traceability
- German WAFIOS made all computerized automatic Knitting, Spot welding, calibrating and heat treatment machines and facilities are used for our daily Production.



## Model:AW-80



## Model: CF-80



## HOISTING CHAIN GRADE 80 TYPE AW-80

Certified & Approved to the Standard EN818-7

Product Code	CHAIN Dia (mm) d	Inside Length (mm) p	Outside Width (mm) W	Inside Width (mm) W1	WLL Ton	Breaking Load (Ton)	Weight App kg/m
AW-80-05	5	15.00	16.25	6.80	0.65	2.60	0.50
AW-80-06	6	18.00	19.50	8.00	1.00	4.00	0.75
AW-80-06.3	6.3	19.80	21.50	8.50	1.41	5.00	0.84
AW-80-07.1	7.1	21.30	24.00	9.30	1.60	6.40	1.05
AW-80-08	8	24.00	26.00	10.00	2.00	8.00	1.31
AW-80-09	9	27.00	29.25	12.20	2.50	10.00	1.70
AW-80-10	10	30.00	32.50	13.30	3.20	12.80	2.05
AW-80-11.2	11.2	34.00	36.00	13.70	3.80	15.20	2.57

\*Design Factor 4:1 proof tested and certified

## LIFTING SLING CHAIN GRADE 80 TYPE CF-80

Certified & Approved to the Standard EN818-2

Product Code	Chain Dia d mm	Inside Length p mm	Inside Width W1 mm	Outside Width W mm	WLL 4:1 Ton	Proof Load (MIN) KN	Breaking Load (Ton)	Weight App kg/m
CF-80-06	6.0	18.0	8.7	20.5	1.12	28.3	4.5	0.80
CF-80-07	7.0	21.0	10.0	24.0	1.5	38.5	6.0	1.10
CF-80-08	8.0	24.0	11.6	27.9	2.0	60.3	8.0	1.40
CF-80-10	10.0	30.0	14.6	34.9	3.15	78.5	12.6	2.20
CF-80-13	13.0	39.0	19.0	46.3	5.3	133	21.2	3.80
CF-80-16	16.0	48.0	22.5	55.8	8.0	201	32.0	5.70
CF-80-18	18.0	54.0	24.3	64.8	10.0	254	40.0	7.30
CF-80-20	20.0	60.0	27.0	69.0	12.5	314	50.0	9.00
CF-80-22	22.0	66.0	31.0	75.0	15.0	380	60.0	10.60
CF-80-26	26.0	72.0	35.0	87.0	21.2	531	84.8	15.10
CF-80-32	32.0	96.0	43.0	107.0	32.2	804	128.8	21.60

\*Design Factor 4:1 proof tested and certified



## GUIDE FOR SAFER AND LONGER USE OF ABLE CHAIN SLING

- Do**
1. Do select right capacity slings including angles of sling leg.
  2. Do ensure that the chain slings are not kinked and twisted.
  3. Do minimize shock loads to the chain slings, as shock loads may develop significant overload. Also do avoid impact loading or landing.
  4. Do lift uniformly the load in the multi-leg slings.
  5. Do protect the chain slings from sharp edges of an object by inserting protective pads between the chain and the object.
  6. Do have the chain slings inspected by an authorized person.

- Do Not**
1. Do not expose the chain slings to excessive heat, as working load limit is affected by the heat higher than the temperature in the table.
  2. Do not drag the chain slings on the ground.
  3. Do not heat the chain slings.
  4. Do not use slings when damaged (i.e. Worn, corroded, bent, Stretched).

## Care and Maintenance

Safe and efficient work begins with correct care and maintenance. Spend a little time before and after each use to check the slings. Such proper care and maintenance will assure you safety and long service life.

### 1. Daily and Periodical Check

Simple visual appearance inspection and physical checks for deformation, scratches, wear, elongation, and so forth, will assure you safe operation.

### 2. Stocking of spare Parts for Emergency Repair

ABLE recommends to stock replacement parts or spare chain slings for fast and optimum repair of chain slings. Never use fittings taken from other slings or smaller capacity slings even for a temporary use.

### 3. Keeping of Record of Chain Slings

ABLE recommends to keep historical records of each chain sling and to assign a specific chain sling safety controller.

### 4. The Grab Hook

The Grab Hook has a narrow jaw to accept a link of chain. However, the chain held by the grab hook under tension is not ideally supported in a straight line due to its shape and design. The chain slings complete with grab hooks must be de-rated by 30% at least. The grab hook should not be used for slings shortening purposes.

### Model: BC70



### TRANSPORT BINDER CHAIN GRADE 70 TYPE: BC70

Size	ASTM80			NACM90			NACM96			Pcs per Drum
	W.T. Kg	WLL lbs	MBS lbs	W.T. Kg	WLL lbs	MBS lbs	W.T. Kg	WLL lbs	MBS lbs	
1/4" x 14'	5.0	3,150	12,600	4.0	3,150	12,100	4.0	3,150	12,600	50
1/4" x 16'	6.0	3,150	12,600	5.0	3,150	12,100	5.0	3,150	12,600	40
5/16" x 14'	7.5	4,700	18,800	7.0	4,700	18,800	7.0	4,700	18,800	35
5/16" x 16'	8.5	4,700	18,800	8.0	4,700	18,800	8.0	4,700	18,800	30
5/16" x 18'	9.5	4,700	18,800	9.0	4,700	18,800	9.0	4,700	18,800	30
5/16" x 20'	10.5	4,700	18,800	10.0	4,700	18,800	10.0	4,700	18,800	25
5/16" x 25'	13.0	4,700	18,800	12.0	4,700	18,800	12.0	4,700	18,800	20
5/16" x 30'	15.5	4,700	18,800	14.5	4,700	18,800	14.5	4,700	18,800	20
3/8" x 14'	10.5	6,600	26,400	9.5	6,600	24,700	10.0	6,600	26,400	25
3/8" x 16'	12.0	6,600	26,400	11.0	6,600	24,700	11.5	6,600	26,400	20
3/8" x 20'	15.0	6,600	26,400	13.5	6,600	24,700	14.5	6,600	26,400	20
3/8" x 25'	18.5	6,600	26,400	16.5	6,600	24,700	18.0	6,600	26,400	15

### Model: TDC



### TIE DOWN CHAIN GRADE 80 TYPE: TDC

Product Code	Chain dia	Length	WLL 4:1 Ton	Proof Load (Ton)	Net Weight (Kg/pc)
TDC-071-09	7.1mm	9FT	1.5	3.0	3.3kgs
TDC-080-09	8.0mm	9FT	2.0	4.0	4.2kgs
TDC-100-09	10.0mm	9FT	3.2	6.4	6.5kgs
TDC-130-09	13.0mm	9FT	5.3	10.6	10.8kgs
TDC-071-18	7.1mm	18FT	1.5	3.0	6.3kgs
TDC-080-18	8.0mm	18FT	2.0	4.0	8.5kgs
TDC-100-18	10.0mm	18FT	3.2	6.4	13.2kgs
TDC-130-18	13.0mm	18FT	5.3	10.6	21.6kgs

## Shackles

**Safety Factor: 6 to 1**  
DNV & ABS Certified.



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APPLICATIONS

Shackles are used in lifting and static systems as removable links to connect (steel) wire rope, chain and other fittings. Screw pin shackles are used mainly for non-permanent applications. Safety bolt shackles are used for long-term or permanent applications or where the load may slide on the pin causing rotation of the pin.

Chain or dee shackles are mainly used on one-leg systems whereas anchor or bow shackles are mainly used on multi-leg systems.

General Notes

- a) Shackles should be inspected before use to ensure that:
  - the body and pin of the shackle are both identifiable as being of the same size, type and make
  - all markings are readable
  - the threads of the pin and the body are undamaged
  - the body and the pin are not distorted
  - the body and the pin are not unduly worn
  - the body and the pin are free from nicks, gouges, cracks and corrosion

Certification

Upon request at time of order, all load shackles can be supplied with any of the following documents or certificates:

- Manufacturer test certificate
- EC Declaration of Conformity
- ABS certificate
- DNV certificate

Instructions for use

Shackles should be inspected before use to ensure that:

- All markings are legible;
- the body and pin are both identifiable as being of the same size, type and make;
- the threads of the pin and the body are undamaged;
- never use a safety bolt type shackle without using a securing pin;
- the body and the pin are not distorted or unduly worn;
- the body and pin are free from nicks, gouges, cracks and corrosion;
- shackles may not be heat treated as this may affect their Working Load Limit;
- never modify, repair or reshape a shackle by machining, welding, heating or bending as this will affect the Working Load Limit.

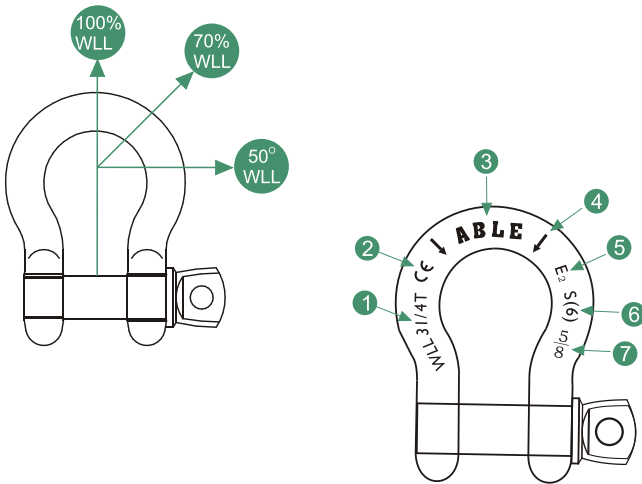
SIDE LOADS

Side loads should be avoided as well, as the products are not designed for this purpose. If side loads cannot be avoided, the following reduction factors must be taken into account:

**Reduction of Work Load Limits**  
Work load limits on shackles are subject to downward adjustment in case of side loading  
45° reduce to 70% of WLL  
90° reduce to 50% of WLL  
If extreme temperature conditions are applicable  
0 - 200° 1.00 x WLL  
201 - 300° 0.90 x WLL  
301 - 400° 0.75 x WLL  
above 400° do not use

Markings

All tested shackles come standard with the following markings:  
1. work load limit in tonnes  
2. CE mark  
3. Manufacturer's mark  
4. 45° angle mark  
5. batch mark  
6. grade of steel  
7. Size in Inches



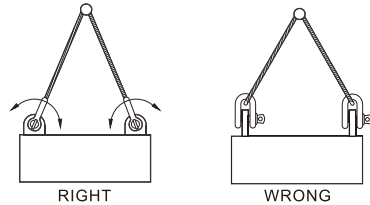
Assembly

Ensure that the pin is correctly screwed into the shackle eye, i.e. Tighten hand-tight, then secure using a wrench or other suitable tool so that the collar of the pin is fully seated on the shackle eye. Ensure that the pin is of the correct length so that it penetrates the full depth of the screwed eye and allows the collar of the pin to seat on the surface of the shackle eye.

Incorrect seating of the pin may be due to a bent pin, too tight fitting thread or misalignment of the pin holes. Do not use the shackle under these circumstances. Never replace a shackle pin except with one of the same size, type and make as it may not be suitable for the loads imposed.

Select the correct type of shackle and its Working Load Limit for the particular application. Should extreme circumstances or shock loading be applicable, this must be well taken into account on selecting the correct shackle. Please note that commercial shackles are not to be used for lifting applications.

Make sure that the shackle is supporting the load correctly, i.e. along the shackle body centreline, avoid introduction of bending loads, unstable loads and do not apply overloads.



Safe use and maintenance



Usage

- a) Select the correct type of shackle for a particular application.
- b) Shackles should not be used in a manner that imposes a side loading unless specifically permitted by the manufacturer. This means that the shackle body should take the load along the axis of its centreline.
- c) When using shackles in conjunction with multi-leg slings, due consideration should be given to the effect of the angle between the legs of the sling. As the angle increases so does the load in the sling leg and consequently in any shackle attached to the leg.
- d) When a shackle is used to connect two slings to the hook of a lifting machine. It should be a Bow type shackle assembled with the slings in the shackle body and the hook engaged with the shackle pin.
- e) To avoid eccentric loading of the shackle, a loose spacer may be used on either end of the pin. Do not reduce the width between the shackle jaws by welding washers or spacers to the inside faces of the eye, this will adversely effect the properties of the shackle.
- f) Avoid applications where due to movement the shackle pin can roll and possibly unscrew.
- g) In applications where the shackle is to be left in place for a prolonged period or where maximum pin security is required, use a safety pin.
- h) Avoid applications where the load is unstable
- i) Shackles should not be modified, heat treated, galvanized or subject to any plating process without the approval of the manufacturer.
- j) Shackles should not be immersed in acid solutions or exposed to acid fumes or other chemicals without Approval from the manufacturer.

Inspection

- a) Shackles in use should be subject to periodic examination by a competent person at intervals not exceeding three months.





**Model: SPB**

- Screw pin bow shackles meet the performance requirements of Federal Specification RR-C-271D Type IVA, Grade A, Class 2, except for those provisions required of the contractor.
- Capacities: from 1/2 to 55 metric tons.
- Forged - Quenched and Tempered, with alloy pin.
- Working Load Limit permanently shown on every shackle.
- Hot Dip galvanized body, Yellow Pin.
- Fatigue Rated.
- Shackles can be furnished proof tested with certificates to designated standards, such as ABS, DNV, Lloyds, or other certification. Charged for proof testing and certification available when requested at the time of order.
- Shackles are Quenched and Tempered and can meet DNV impact requirements of 42 joules at -20 degree C.



**Model: SPD**

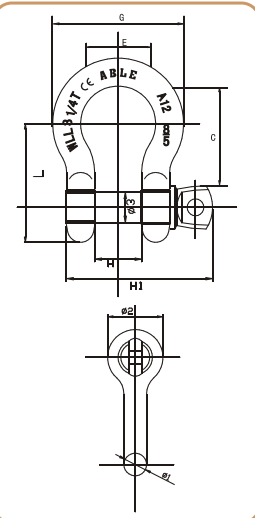


**Model: SBB**

- BoltTypeAnchor shackles with thin head bolt - nut with cotter pin. Meets the performance requirements of Federal Specifications RR-C-271D Type IVA, Grade A Class 3, except for those provisions required of the Contractor.
- Working Load Limit permanently shown on every shackle. Capacities from 1/2 to 85 metric tons.
- Forged, Quenched and Tempered, with alloy pins.
- Hot Dip galvanized body, Yellow Pin.
- Fatigue rated.
- ABLE Products meet or exceed all the requirements of ASME B30.26 including identification, ductility, design factor, proof load and work temperature requirements. Importantly, ABLE products meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.
- Shackles 55 metric tons and smaller can be furnished proof tested with certificates to designated standards, such as ABS, DNV, Lloyds, or other certification.

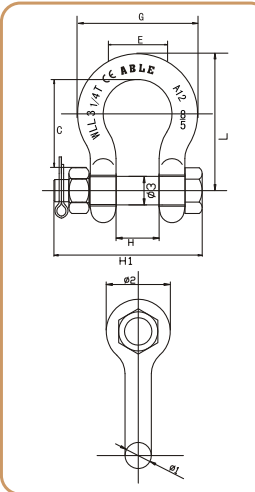


**Model: SBD**



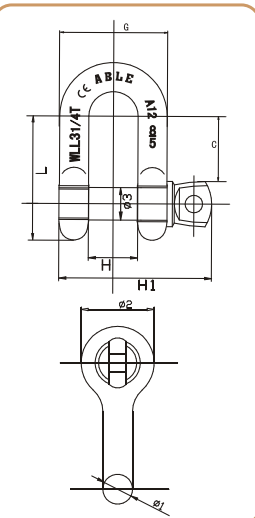
**Forged Screw Pin Bow Shackle Type: SPB**

Product Code	Nominal Size (in.)	WLL 6:1 Ton	Weight		Dimensions (mm)								Tolerance +/-	
			Kg	H	φ3	C	φ1	E	φ2	G	L	H1	C	H
SPB 006	1/4	1/2	0.05	13.00	8.00	29.00	6.80	20.00	17.50	33.60	31.75	38.00	3.30	1.50
SPB 008	5/16	3/4	0.08	13.50	9.50	31.00	8.00	21.50	21.00	37.50	35.50	42.50	3.30	1.50
SPB 009	3/8	1	0.15	17.00	11.20	36.50	10.00	26.20	25.00	46.20	41.50	53.50	3.30	1.50
SPB 011	7/16	1.1/2	0.20	18.50	12.70	42.90	11.30	29.50	27.00	52.10	48.00	59.00	3.30	1.50
SPB 013	1/2	2	0.30	20.60	15.80	47.80	12.70	33.30	31.00	58.70	54.50	70.00	3.30	1.50
SPB 016	5/8	3.1/4	0.63	27.00	19.00	60.00	16.00	43.00	40.00	75.00	68.00	87.50	6.35	1.50
SPB 019	3/4	4.3/4	1.02	32.00	22.00	71.50	19.00	51.00	48.00	89.00	81.00	101.00	6.35	1.50
SPB 022	7/8	6.1/2	1.51	37.00	25.00	84.50	22.00	58.00	54.00	102.00	95.00	116.00	6.35	1.50
SPB 025	1	8.1/2	2.27	43.50	28.00	96.30	26.50	68.50	60.00	121.50	106.00	135.50	6.35	1.50
SPB 028	1.1/8	9.1/2	3.38	48.00	32.00	109.00	29.00	75.00	68.00	133.00	121.50	145.00	6.35	1.50
SPB 032	1.1/4	12	4.60	53.00	35.00	120.50	32.00	84.00	76.00	148.00	134.00	160.00	6.35	1.50
SPB 035	1.3/8	13.1/2	5.84	59.00	38.00	134.00	35.00	94.00	84.00	164.00	148.00	178.00	6.35	3.30
SPB 038	1.1/2	17	7.80	62.00	42.00	148.50	38.00	99.00	92.00	175.00	166.00	194.00	6.35	3.30
SPB 044	1.3/4	25	12.33	75.00	50.00	178.00	45.00	128.00	106.00	218.00	192.00	228.00	6.35	3.30
SPB 050	2	35	18.54	84.00	56.00	197.00	52.00	148.00	122.00	252.00	212.00	255.00	6.35	3.30
SPB 064	2.1/2	55	37.60	107.00	70.00	269.50	63.50	186.00	145.00	313.00	284.00	317.00	6.35	3.30



**Forged Bolt Bow Shackle Type: SBB**

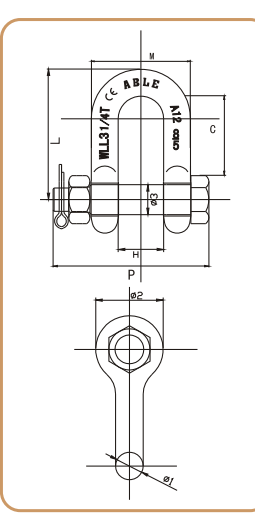
Product Code	Nominal Size (in.)	WLL 6:1 Ton	Weight		Dimensions (mm)								Tolerance +/-	
			Kg	H	φ3	C	φ1	E	φ2	L	G	H1	C	H
SBB 006	1/4	1/2	0.06	13.00	8.00	29.00	6.80	20.00	17.50	39.80	33.60	42.50	3.30	1.50
SBB 008	5/16	3/4	0.10	13.50	9.50	31.00	8.00	21.50	21.00	43.75	37.50	48.00	3.30	1.50
SBB 009	3/8	1	0.17	17.00	11.20	36.50	10.00	26.20	25.00	52.10	46.20	57.50	3.30	1.50
SBB 011	7/16	1.1/2	0.24	18.50	12.70	42.90	11.30	29.50	27.00	60.55	52.10	64.50	3.30	1.50
SBB 013	1/2	2	0.35	20.60	15.80	47.75	12.70	33.30	31.00	68.35	58.70	74.50	3.30	1.50
SBB 016	5/8	3.1/4	0.67	27.00	19.00	60.00	16.00	43.00	40.00	85.50	75.00	93.00	6.35	1.50
SBB 019	3/4	4.3/4	1.12	32.00	22.00	71.50	19.00	51.00	48.00	101.50	89.00	107.00	6.35	1.50
SBB 022	7/8	6.1/2	1.64	37.00	25.00	84.50	22.00	58.00	54.00	119.00	102.00	121.00	6.35	1.50
SBB 025	1	8.1/2	2.42	43.50	28.00	96.25	26.50	68.50	60.00	136.75	121.50	137.00	6.35	1.50
SBB 028	1.1/8	9.1/2	3.56	48.00	32.00	109.00	29.00	75.00	68.00	154.00	133.00	145.00	6.35	1.50
SBB 032	1.1/4	12	4.91	53.00	35.00	120.50	32.00	84.00	76.00	170.00	148.00	167.00	6.35	1.50
SBB 035	1.3/8	13.1/2	6.17	59.00	38.00	134.00	35.00	94.00	84.00	188.00	164.00	185.00	6.35	3.30
SBB 038	1.1/2	17	8.47	62.00	42.00	148.50	38.00	99.00	92.00	207.50	175.00	198.00	6.35	3.30
SBB 044	1.3/4	25	13.26	75.00	50.00	178.00	45.00	128.00	106.00	248.00	218.00	227.00	6.35	3.30
SBB 050	2	35	19.53	84.00	56.00	197.00	52.00	148.00	122.00	277.00	252.00	250.00	6.35	3.30
SBB 064	2.1/2	55	38.56	107.00	71.00	269.50	66.00	186.00	145.00	368.00	318.00	299.00	6.35	3.30
SBB077	3	85	63.11	127.00	80.00	330.50	76.00	200.00	165.00	587.50	365.00	392.00	6.35	3.30



**Forged Screw Pin Dee Shackle Type: SPD**

Product Code	Nominal Size (in.)	WLL 6:1 Ton	Weight		Dimensions (mm)								Tolerance +/-	
			Kg	H	φ3	C	φ1	φ2	G	L	H1	C	H	
SPD 006	1/4	1/2	0.05	13.00	8.00	22.00	6.80	17.50	26.60	28.25	38.00	3.30	1.50	
SPD 008	5/16	3/4	0.08	13.50	9.50	25.50	8.00	21.00	29.50	34.00	42.50	3.30	1.50	
SPD 009	3/8	1	0.13	17.00	11.20	30.90	10.00	25.00	37.00	40.50	53.50	3.30	1.50	
SPD 011	7/16	1.1/2	0.18	18.50	12.70	36.40	11.30	27.00	40.50	47.00	59.00	3.30	1.50	
SPD 013	1/2	2	0.28	20.60	15.80	41.40	12.70	31.00	46.00	54.50	70.30	3.30	1.50	
SPD 016	5/8	3.1/4	0.55	27.00	19.00	51.00	16.00	40.00	59.00	67.00	88.00	6.35	1.50	
SPD 019	3/4	4.3/4	0.91	32.00	22.00	63.00	19.00	48.00	70.00	82.00	101.00	6.35	1.50	
SPD 022	7/8	6.1/2	1.40	37.00	25.00	72.00	22.00	54.00	81.00	93.00	117.00	6.35	1.50	
SPD 025	1	8.1/2	2.10	43.50	28.00	81.80	26.50	60.00	96.50	104.00	137.00	6.35	1.50	
SPD 028	1.1/8	9.1/2	3.10	48.00	32.00	94.00	29.00	68.00	106.00	120.00	145.50	6.35	1.50	
SPD 032	1.1/4	12	4.10	53.00	35.00	102.00	32.00	76.00	117.00	131.00	160.00	6.35	1.50	
SPD 035	1.3/8	13.1/2	5.30	59.00	38.00	113.50	35.00	84.00	129.00	145.00	178.00	6.35	3.30	
SPD 038	1.1/2	17	7.10	62.00	42.00	123.00	38.00	92.00	138.00	159.00	194.50	6.35	3.30	
SPD 044	1.3/4	25	11.10	75.00	50.00	148.00	45.00	106.00	165.00	188.50	228.00	6.35	3.30	

■ Minimum breaking strength is 6 times the working load limit



**Forged Bolt Dee Shackle Type: SBD**

Product Code	Nominal Size (in.)	WLL 6:1 Ton	Weight		Dimensions (mm)								Tolerance +/-	
			Kg	H	φ3	φ1	φ2	C	L	M	P	C	H	
SBD 006	1/4	1/2	0.05	12.00	8.50	6.80	15.00	15.00	32.00	25.00	40.00	3.30	1.50	
SBD 008	5/16	3/4	0.08	13.00	9.50	8.00	18.00	20.00	40.00	30.00	50.00	3.30	1.50	
SBD 009	3/8	1	0.14	17.00	11.20	10.00	25.00	30.90	59.00	37.00	57.50	3.30	1.50	
SBD 011	7/16	1.1/2	0.21	18.50	12.70	11.30	27.00	36.40	67.30	40.50	64.50	3.30	1.50	
SBD 013	1/2	2	0.32	20.60	15.80	12.70	31.00	41.40	77.50	46.00	74.50	3.30	1.50	
SBD 016	5/8	3.1/4	0.61	27.00	18.80	16.00	40.00	51.00	96.50	59.00	93.00	6.35	1.50	
SBD 019	3/4	4.3/4	1.04	32.00	22.00	19.10	48.00	63.00	117.00	70.00	107.00	6.35	1.50	
SBD 022	7/8	6.1/2	1.53	37.00	25.00	22.00	54.00	72.00	133.50	81.00	121.00	6.35	1.50	
SBD 025	1	8.1/2	2.26	43.50	28.00	26.50	60.00	81.80	150.80	93.50	137.00	6.35	1.50	
SBD 028	1.1/8	9.1/2	3.37	48.00	32.00	29.00	68.00	94.00	173.00	106.00	145.00	6.35	1.50	
SBD 032	1.1/4	12	4.41	53.00	35.00	32.00	76.00	102.00	189.50	117.00	167.00	6.35	1.50	
SBD 035	1.3/8	13.1/2	5.86	59.00	38.00	35.00	84.00	113.50	209.50	129.00	185.00	6.35	3.30	
SBD 038	1.1/2	17	7.55	62.00	42.00	38.00	92.00	123.00	228.00	138.00	198.00	6.35	3.30	
SBD 044	1.3/4	25	11.77	75.00	50.00	45.00	106.00	148.00	271.00	165.00	227.00	6.35	3.30	

■ Minimum breaking strength is 6 times the working load limit



## Applications

Wire rope clips are used on wire rope eye-loop connections or complete loops, end-to-end connections where socketing or splicing is not feasible or when a temporary joint is required.

## Range

Ableforge offers a wide range of wire rope clips, specifically standardized models such as EN13411-5 and DIN wire rope clips.

## Design

Ableforge wire rope clips are drop forged and have a bridge with grooves to tighten the wire rope properly in the clip; the DIN wire rope clips have a malleable base, without grooves.

## Finish

The finish is hot dipped galvanized.

## Certification

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

## Instructions for use

Wire rope clips should be inspected before use to ensure that:

- . all markings are legible;
- . a wire rope clip with the correct dimensions has been selected;
- . the nuts or any other locking system cannot vibrate out of position;
- . the wire rope clip is free from nicks, gouges and cracks;
- . never modify, repair or reshape a wire rope clip by machining, welding, heating or bending as this may affect their performance.

The wire rope clip should be fitted to the wire rope as shown in below figures. The bridge of the wire rope clip should always be placed on the load bearing part of the rope. The U-bolt of the clip should be placed on the rope tail, also known as the dead end of the rope.

Turn back enough wire rope length so that the required minimum number of clips can be installed according to the instructions below.

The first clip must be placed one bridge width from the turned-back rope tail or dead end of the rope, according to figure 1. Tighten the nuts to the specified torque.



figure 1

The second clip must be placed immediately against the thimble. Take care that the correct tightening of the clip does not damage the outer wires of the wire rope (figure 2). Tighten the nuts firmly but not yet to the specified torque.



Figure 2

The following clips should be placed on the wire rope between the first and second clip in such a way that they are separated by at least 1.1/2 times the clip-width with a maximum of 3 times the clip-width, according to figure 3.

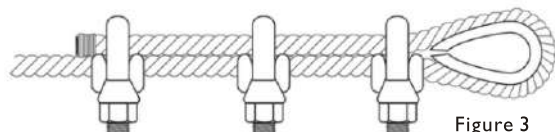


Figure 3

Apply light tension on the rope and tighten all nuts evenly, alternating until reaching the specified torque.

After assembly and before the rope is taken into service, the nuts must be tightened further to the prescribed torque. After the load has been applied to the assembly for the first time, the torque value must be checked and corrected if necessary. Re-tightening of the nuts must be done at 10.000 cycles (heavy usage), 20.000 cycles (moderate usage) or 50.000 cycles (light usage). If cycles are unknown, a competent person could fix a time period, e.g. every 3 months, 6 months, annually.

The torque values and the minimum number of clips to be applied for a particular rope size are given in the following tables.

Product code	Diameter wire rope inch	Diameter wire rope mm	min. no of clips required	length of rope to turn back mm	torque value Nm	torque value Ft.Lbs
WRC 004	1/8	3-4	2	85	6.1	4.5
WRC 005	3/16	5	2	95	10.2	7.5
WRC 007	1/4	6-7	2	120	20.3	15
WRC 008	5/16	8	3	133	40.7	30
WRC 010	3/8	9-10	3	165	61	45
WRC 011	7/16	11-12	3	178	88	65
WRC 013	1/2	13	3	292	88	65
WRC 015	9/16	14-15	3	305	129	95
WRC 016	5/8	16	3	305	129	95
WRC 020	3/4	18-20	4	460	176	130
WRC 022	7/8	22	4	480	305	225
WRC 026	1	24-26	5	660	305	225
WRC 030	1 1/8	28-30	6	860	305	225
WRC 034	1 1/4	32-34	7	1120	488	360
WRC 036	1 3/8	36	7	1120	488	360
WRC 040	1 1/2	38-40	8	1370	488	360
WRC 042	1 5/8	41-42	8	1470	583	430
WRC 046	1 3/4	44-46	8	1550	800	590
WRC 052	2	48-52	8	1800	1017	750
WRC 058	2 1/4	56-58	8	1850	1017	750
WRC 065	2 1/2	62-65	9	2130	1017	750

Table 1, Ableforge wire rope clips generally to EN 13411-5 Type B, required number and torque value

Diameter wire rope mm	min. no of clips required	torque value Nm	torque value Ft.Lbs
5	3	2	1.5
6.5	3	3.5	2.6
8	4	6	4.4
10	4	9	6.6
12	4	20	14.8
13	4	33	24.3
14	4	33	24.3
16	4	49	36
19	5	68	50
22	5	107	79
26	5	147	108
30	6	212	156
34	6	296	218
40	6	363	268

Table 2, Wire rope clips generally to EN 13411-5 Type A, required number and torque value

The efficiency of a wire rope termination made with wire rope clips depends on the correct placement of the clips on the rope and on correct fitting and tightening of the clips. With inadequately tightened nuts or with an insufficient number of wire rope clips the rope end may slide through the clips during use.

The fitting of the clips on the ropes may be affected by various circumstances, such as:

- . the nut may be tight on the thread, yet not tight against the bridge;
- . contamination of the thread by dirt, oil or corrosion products, which may prevent correct tightening of the nut.

Forged wire rope clips provide greater bearing surface and more consistent strength than malleable cast iron clips.

Suitable applications of wire rope clips to EN13411-5 standards include suspending static loads and single use lifting operations which have been assessed by a competent person taking into account appropriate safety factors.

Wire rope clips should not be used in following applications:

- . hoist ropes in mines;
- . rope drives for cranes in steel works and rolling mills;
- . permanent fastening of ropes in other rope drives;
- . rope terminations for load suspension devices in the operation of lifting appliances, except in the case of lifting tackles where these are produced for a special application and used only once.

Wire rope clips 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 products are used in severe operating conditions.





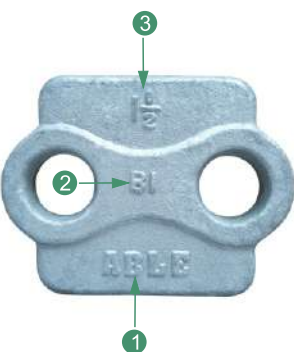
## Ableforge wire rope clips

generally to EN 13411-5 Type B

Material	: Bridge	: drop forged high tensile steel SAE 1045
	U-bolt	: SAE 1015
Standard	: EN 13411-5 Type B	Formerly U.S. Federal Specification FF-C-450D
Finish	: Hot dipped galvanized	
Certification	: 2.1	U-bolt and/or nuts for diameter bow 5, 6, 8 and 10mm are electro galvanized

Product code	Diameter wire rope	Diameter	length bow	width inside	length thread	Length base	thickness base	height base	Weight per 100 pcs
	mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
WRC 004	4	5	24	12	11	24	21	10	2
WRC 005	5	6	31	15	13	29	24	13	4
WRC 007	7	8	34	19	13	37	30	18	8
WRC 008	8	10	45	22	19	43	33	19	13
WRC 010	10	11	49	26	19	49	42	25	19
WRC 011	11	12	60	30	25	58	46	26	33
WRC 013	13	13	61	30	25	58	48	31	34
WRC 015	15	14	72	33	32	63	52	31	45
WRC 016	16	14	74	33	32	64	54	36	45
WRC 020	20	16	86	38	37	72	57	38	68
WRC 022	22	19	98	45	41	80	62	40	108
WRC 026	26	19	108	48	46	88	67	47	113
WRC 030	30	19	117	51	51	91	73	48	140
WRC 034	34	22	130	59	54	105	79	56	207
WRC 036	36	22	140	60	59	108	79	58	234
WRC 040	40	22	147	66	60	112	85	64	254
WRC 042	42	25	161	70	67	121	92	67	329
WRC 046	46	29	174	78	70	134	97	76	441
WRC 052	52	32	195	86	78	150	113	85	603
WRC 058	58	32	213	98	81	162	116	100	707
WRC 065	65	32	227	105	87	168	119	113	806

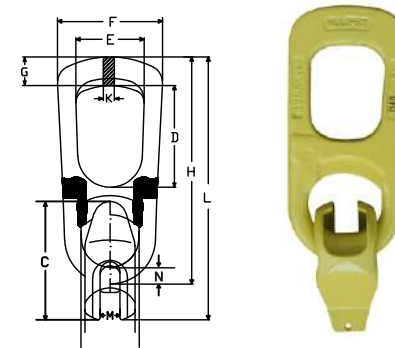
Product code	Diameter wire rope	Diameter	length bow	width inside	length thread	Length base	thickness base	height base	Weight per 100 pcs
	inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
WRC 004	1/8	3/16	15/16	15/32	7/16	15/16	13/16	13/32	4.4
WRC 005	3/16	1/4	1 7/32	19/32	1/2	1 5/32	15/16	1/2	8.8
WRC 007	1/4	5/16	1 11/32	3/4	1/2	1 15/32	1 3/16	23/32	17.6
WRC 008	5/16	13/32	1 25/32	7/8	3/4	1 11/16	1 5/16	3/4	28.7
WRC 010	3/8	7/16	1 15/16	1 1/32	3/4	1 15/16	1 21/32	31/32	42
WRC 011	7/16	15/32	2 3/8	1 3/16	31/32	2 9/32	1 13/16	1 1/32	73
WRC 013	1/2	1/2	2 13/32	1 3/16	31/32	2 9/32	1 7/8	1 7/32	75
WRC 015	9/16	9/16	2 27/32	1 5/16	1 1/4	2 15/32	2 1/16	1 1/32	99
WRC 016	5/8	9/16	2 29/32	1 5/16	1 1/4	2 17/32	2 1/8	1 13/32	99
WRC 020	3/4	5/8	3 3/8	1 1/2	1 15/32	2 27/32	2 1/4	1 1/2	150
WRC 022	7/8	3/4	3 27/32	1 25/32	1 5/8	3 5/32	2 7/16	1 9/16	238
WRC 026	1	3/4	4 1/4	1 7/8	1 13/16	3 15/32	2 5/8	1 7/8	249
WRC 030	1 1/8	3/4	4 19/32	2	2	3 19/32	2 7/8	1 7/8	309
WRC 034	1 1/4	7/8	5 1/8	2 5/16	2 1/8	4 1/8	3 1/8	2 7/32	456
WRC 036	1 3/8	7/8	5 1/2	2 3/8	2 5/16	4 1/4	3 1/8	2 9/32	516
WRC 040	1 1/2	7/8	5 25/32	2 19/32	2 3/8	4 13/32	3 11/32	2 17/32	560
WRC 042	1 5/8	31/32	6 11/32	2 3/4	2 5/8	4 3/4	3 5/8	2 5/8	725
WRC 046	1 3/4	1 5/32	6 27/32	3 1/16	2 3/4	5 9/32	3 13/16	3	972
WRC 052	2	1 1/4	7 11/16	3 3/8	3 1/16	5 29/32	4 7/16	3 11/32	1329
WRC 058	2 1/4	1 1/4	8 3/8	3 27/32	3 3/16	6 3/8	4 9/16	3 15/16	1559
WRC 065	2 1/2	1 1/4	8 15/16	4 1/8	3 7/16	6 5/8	4 11/16	4 7/16	1777



### Markings

All tested clips come standard with the following markings:

1. Manufacturer's mark
2. Batch mark
3. Size in Inches



Regularly Check Table		
WLL(T)	M max(mm)	N min(mm)
1.3	13	5.5
2.5	18	5.5
5	25	8
10	32	12
20	46	18
32	58	24

ABLE Mushroom Clutch should be checked regularly as per the Regularly Check Table.



## ANCHOR AND CLUTCH MUST BE MATCHED.

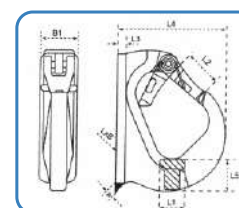
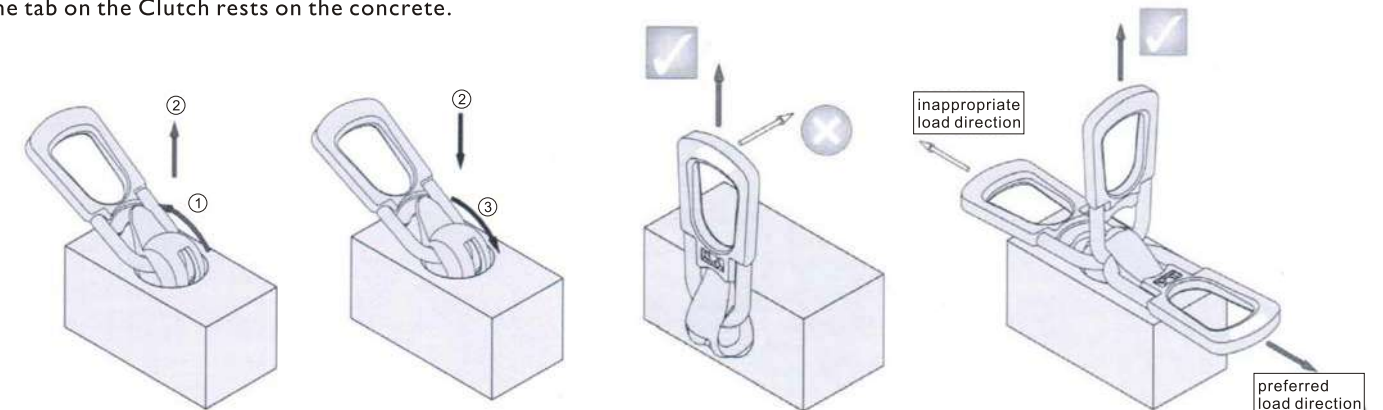
ABLE Mushroom Clutch are a versatile lifting product for lifting pre-cast concrete products such as construction panels, pipes, columns etc.

- Marked with workload limit, serial number and ABLE branded.
- Made from G80 alloy steel with a safety factor of 5 to 1.
- Conforms to AS3850, Test Certificates available with each unit.

Product code	WLL tonne	Wt. kg	C mm	D mm	DIMENSIONS				
					E mm	F mm	H mm	M mm	L mm
MC01	1.3	0.89	80.4	70.5	45	73	157	11.5	181
MC02	2.5	1.3	99	85	57	88	190	16	220
MC05	5	3.24	133	88	69	110	233	22	271
MC10	10	10	176	116	83	161	336.5	30	386
MC20	20	20.37	228	133.5	107.5	182	437	42	497
MC32	32	47	325	188	160	272	555	52	760

## ABLE MUSHROOM CLUTCH INSTALLATION AND CORRECT LIFT DIRECTION

Rotate the slot in the Clutch into the void and over the head of the Anchor until the tab on the Clutch rests on the concrete.



## WELD ON HOOK WH SERIES

**Manufactured** from treated alloy steel, these Weld-On Hooks are the solution to lifting and spreader beam attachment Problems or for any fixed anchor points. Designed with safety in mind, the hook allows for axial loading and positive locking of the safety latch which incorporates a stainless steel spring. Ensure welding instructions are followed.



Inspection prior to use as per ABLE operating manual

- Welding surfaces must be cleaned thoroughly.
- Welding operations must be continuous.
- Preheat welding surfaces if temperature below 10°C
- Use basic coated electrodes AS 1553.1: E4848 Grade 4-6 AWS A5.1: E7018-1 or equivalent.

Product Code	Capacity (kg)	Welding Size a (mm)	Dimensions (mm)					Weight (kg)
			L×B	L1	L2	L3	L4	L5
WH10	1000	4	90×25	17	24	6	76	22
WH30	3000	5	130×35	24	29	8	105	28
WH50	5000	5	160×45	30	37	10	132	47
WH80	8000	7	170×50	40	47	10	138	50



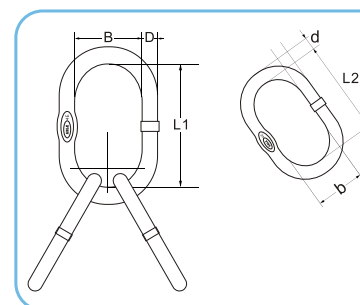
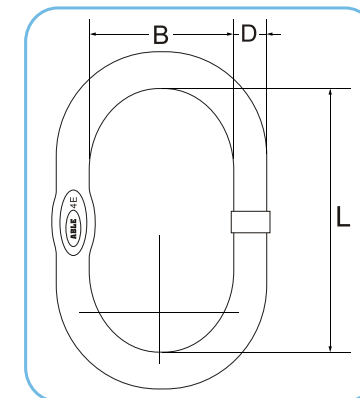
# Hook Riggings & Connecting Link



## Model: MLW



MASTER LINK MLW



- High grade Alloy Steel (Quenched and Tempered) material
- Design Factor of 4 to 1 for chain and 5 to 1 for wire rope.
- Individually Proof Tested to 2.5 times the Working Load Limit (4:1), unless otherwise noted, with certification.
- Each link has a Product Identification Code (PIC) for material traceability, along with the size and the manufacture mark.
- Larger inside width and length for use with thimble.
- Fatigue rated at 1.5 times the WLL with 20,000 cyclic test

## Model: MLA



SUB MASTER LINK MLA

### ■ Use with 1 leg or 2 legs alloy chain grade 80

ALLOY MASTER LINK GRADE 80 WELDED TYPE: MLW							
Product code	1 leg use chain dia. (mm)	2 leg use chain dia. (mm)	Size (D) mm	L mm	B mm	WLL 4:1 ton	weight kg
MLW-07-06	7	6	13	110	60	1.60	0.34
MLW-08-07	8	7	16	110	60	2.12	0.54
MLW-10-08	10	8	18	135	75	3.15	0.83
MLW-13-10	13	10	22	160	90	5.30	1.47
MLW-16-13	16	13	26	180	100	8.20	2.19
MLW-18-16	18	16	32	200	110	11.2	3.92
MLW-20-18	20	18	36	260	140	14.0	6.28
MLW-22-20	22	20	40	300	160	17.0	8.96
MLW-26-22	26	22	45	340	180	21.2	12.90
MLW-32-26	32	26	50	350	190	31.5	16.55

### ■ Use with 3 legs or 4 legs alloy chain grade 80

ALLOY MASTER LINK ASSEMBLY GRADE 80 WELDED TYPE: MLA									
Product code	Chain dia. (mm)	Size (D) mm	L1 mm	B mm	d mm	b mm	L2 mm	WLL 4:1 ton	weight kg
MLA-06	6 or 7	18	135	75	13	38	60	3.15	1.24
MLA-08	8	22	160	90	16	34	70	4.25	2.21
MLA-10	10	26	180	100	18	40	85	6.70	3.24
MLA-13	13	32	200	110	22	50	115	11.2	6.09
MLA-16	16	36	260	140	26	65	140	17.0	9.98
MLA-18	18	40	300	160	30	140	270	20.0	19.01
MLA-20	20	45	340	180	32	100	180	22.0	20.24
MLA-22	22	50	350	190	36	100	180	31.5	25.00





## ABLEFORGED ALLOY STEEL SAFETY HOOKS

The unique design of the Ableforge Safety Hook allows it to be easily closed with one hand, or will close itself when the load is engaged. Once under load, it will not disengage even if the load is temporarily set down. When the load is released, the latch is simply opened by pressing the release trigger, and stays open, making the hookup very easy.

### Eye Safety Hook



Model: HSE

### Technical Features

- Material is high grade alloy steel (quenched and tempered)
- Used with alloy chain grade 80 for lifting application
- Batch Number, Size, CE, G80/T8, ABLE & Product Code embossed
- 100% 2.5 times of capacity proof load tested
- Ultimate load is 4 times of capacity
- Fatigue rated is 1.5 times the WLL at 20,000 cycles
- Lock Latch provides Automatic Locking when Hook is loaded

### Clevis Safety Hook



Model: HSC

### Swivel Safety Hook



Model: HSA

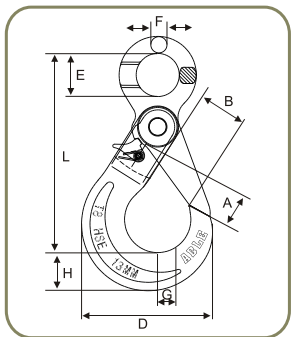
### Technical Features

- Material is high grade alloy steel (quenched and tempered).
- Rated for both chain grade 80 and wire rope for lifting application.
- Positive Lock Latch is Self-Locking when hook is loaded.
- Batch Number, Size, CE, G80/T8, ABLE & Product Code embossed
- 100% 2.5 times of capacity proof load tested.
- Ultimate load is 4 times of capacity.
- Fatigue rated is 1.5 times the WLL at 20,000 cycles.

### Connecting Link

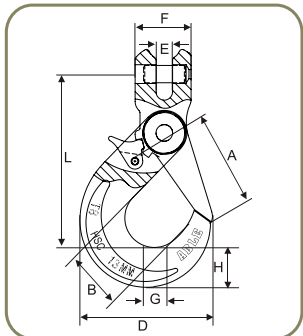


Model: LCT



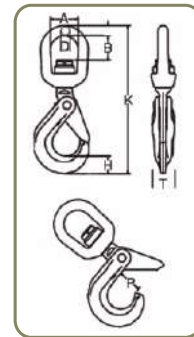
#### ALLOY EYE SAFETY HOOK GRADE 80 TYPE: HSE

Product Code	For GR80 Chain Dia. (mm)	L mm	A mm	B mm	D mm	E mm	F mm	G mm	H mm	WLL 4:1 Ton	Weight kg
HSE 006	6	107	28	28	73	21	10.5	15	20	1.2	0.50
HSE 008	7,8	136	31	36	91	25	12	20	26	2.0	0.88
HSE 010	10	168	48	45	106	35	15	26	30	3.2	1.58
HSE 013	13	206	60	52	142	41	20	33	40	5.4	3.00
HSE 016	16	254	73	63	170	50	23	38	51	8.2	5.90
HSE 020	18,20	278	77	85	187	64	27	50	56	12.5	7.00
HSE 022	22	319	90	76	204	72	30	52	65	15.0	12.3



#### ALLOY CLEVIS SAFETY HOOK GRADE 80 TYPE: HSC

Product Code	For GR80 Chain Dia. (mm)	L mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	WLL 4:1 Ton	Weight kg
HSC 006	6	99	35	26	7.8	73	8.5	32	15	20	1.2	0.44
HSC 008	7,8	117	39	36	9.2	91	9	37	20	26	2.0	0.80
HSC 010	10	140	48	44	13.2	107	12	47.5	26	30	3.2	1.38
HSC 013	13	180	60	52	16.3	142	15	60	33	40	5.4	2.81
HSC 016	16	225	65	63	20.2	166	18	77	38	51	8.2	6.00
HSC 020	18,20	238	85	76	24.3	186	25	77	50	55	12.5	7.25
HSC 022	22	277	83	80	28.2	204	25.5	98	52	67	15.0	12.8



#### ALLOY SWIVEL SAFETY HOOK TYPE: HSA

Product Code	For GR80 Chain Dia. mm	K mm	P mm	B mm	A mm	D mm	T mm	H mm	WLL 4:1 Ton	Weight kg
HSA 006	6	149	29	25	33	12	15	20	1.2	0.70
HSA 008	7,8	186	34	29	36	14	20	26	2.0	1.15
HSA 010	10	220	44	34	42	16	26	30	3.2	1.86
HSA 013	13	267	52	41	50	22	34	40	5.4	3.51
HSA 016	16	328	63	58	70	24	41	51	8.2	7.30
HSA 020	18,20	377	85	63	72	26	48	55	12.5	10.4
HSA 022	22	466	76	98	97	33	49	67	15.0	17.5

#### ALLOY CONNECTING LINK GRADE 80 TYPE: LCT

Product Code	For GR80 Chain Dia. mm	K mm	A mm	D mm	B mm	WLL 4:1 Ton	Weight kg
LCT 006	6	44	15	7	17	1.2	0.08
LCT 007	7	55	20	8	20	1.5	0.14
LCT 008	8	59	18	9	22	2.0	0.16
LCT 010	10	68	25	12	26	3.2	0.30
LCT 013	13	87	30	16	35	5.4	0.65
LCT 016	16	108	36	19	38	8.2	1.15
LCT 020	18,20	122	42	23	46	12.5	2.10
LCT 022	22	142	49	26	60	15.0	2.87
LCT 026	26	158	57.5	31	62	21.2	4.50
LCT 032	32	205	67.5	38	79	31.5	8.21



## ABLEFORGED ALLOY STEEL GRAB HOOKS

With its reinforced saddle for firmer hookups, less wear and with its nearly round section to resist bending, the **ABLE Grab Hooks** are particularly suitable for back-hooking.

### Clevis Grab Hook



Narrow gap allows for full engagement in hook to prevent slip-off

### Technical Specialities

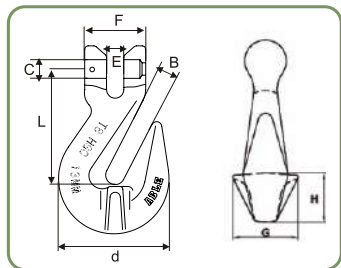
- Material is high grade alloy steel (quenched and tempered)
- Used with alloy chain grade 80 for lifting application
- Batch Number, Size, CE, G80/T8, ABLE & Product Code embossed
- Ultimate load is 4 times of capacity
- Proof load is 2.5 times of work load Limit
- Fatigue rated is 1.5 times the WLL at 20,000 cycles
- Clevis opening only allows correct size of Chain to be fitted
- Narrow gap allows for full engagement in hook to prevent slip - off

### Eye Grab Hook

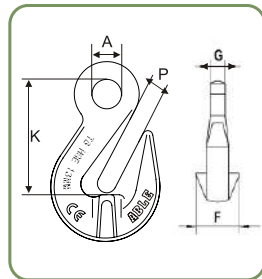


No reduction of working load limit, thanks to supporting wings which prevent chain link deformation.

### Model: HGC



### Model: HGE



#### Alloy Clevis Grab Hook Grade 80 Type: HGC

Product Code	For GR80 Chain Dia. (mm)	L mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	WLL 4:1 Ton	Weight kg
HGC 006	6	45	8	7.6	42	8	32	21.5	17.7	1.2	0.20
HGC 008	7,8	53.5	10.8	9.0	53	9.5	35	33.5	19	2.0	0.30
HGC 010	10	75	13.5	12.8	71	12.5	42.5	46	29	3.2	0.73
HGC 013	13	91	16.5	15.8	90	15	53	57.5	43	5.4	1.66
HGC 016	16	100	19.2	20.0	113	18.5	65	74	46	8.2	2.80
HGC 020	18,20	135	24	24.3	143	23	77	74	56	12.5	5.00
HGC 022	22	153	27	26.3	160	27	91	90	68.5	15.0	6.30

#### Alloy Eye Grab Hook Grade 80 Type: HGE

Product Code	For GR80 Chain Dia. (mm)	P mm	A mm	G mm	K mm	F mm	WLL 4:1 Ton	Weight kg
HGE 006	6	8	13	8	51	21.5	1.2	0.20
HGE 008	7,8	10	18	9	60	30	2.0	0.30
HGE 010	10	13	20	13	80	46	3.2	0.65
HGE 013	13	16	25	15	100	57.5	5.4	1.30
HGE 016	16	19	30	20	106.5	72	8.2	2.10
HGE 020	18,20	24	37.5	23	140	74	12.5	4.40
HGE 022	22	27	44	26	165	90	15.0	8.20

## ABLEFORGED ALLOY STEEL SLING HOOKS

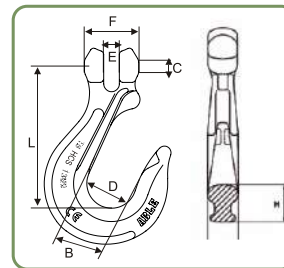
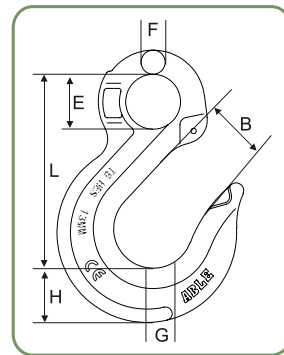
The **Ableforged Sling Hook** is a versatile, general purposed hook suitable for most slinging applications and has the added advantage of safety latch kits, readily available, for converting it into an **Ableforge safety hook**.

### Eye Sling Hook



The Spring is made of Stainless Steel Material to prevent rust

### Model: HES



### Technical Specialities

- Material is forged alloy steel (quenched and tempered)
- Large throat opening
- Anti - fouling due to carefully designed contours.
- Used with alloy chain grade 80 and wire rope for lifting application
- Batch Number, Size, CE, G80/T8, ABLE & Product Code embossed
- 100% 2.5 times of capacity proof load tested
- Ultimate load is 4 times of capacity
- Fatigue rated is 1.5 times the WLL at 20,000 cycles

### Clevis Sling Hook



Clevis opening only allows correct size of chain to be fitted. Latch incorporated to provide additional lifting safety and the spring is made of Stainless Steel Material to prevent rust.

### Model: HCS

#### ALLOY EYE SLING HOOK GRADE 80 TYPE: HES

Product Code	For GR80 Chain Dia. (mm)	L mm	B mm	E mm	F mm	G mm	H mm	WLL 4:1 Ton	Weight kg
HES 006	6	80	20.5	20	9	13.5	19	1.2	0.3
HES 008	7,8	98	26	25	11	18	24	2.0	0.4
HES 010	10	120	26	38	15	22	32	3.2	0.9
HES 013	13	152	39	43	19	32	42	5.4	2.0
HES 016	16	185	40	50	23	36	46	8.2	3.0
HES 020	18,20	219	43	62	24	42	58	12.5	5.8
HES 022	22	241	68	62	32	44	75.5	15.0	9.2
HES 026	26	279	82	64	35	60	88	20.6	13.1

#### ALLOY CLEVIS SLING HOOK GRADE 80 TYPE: HCS

Product Code	For GR80 Chain Dia. (mm)	L mm	B mm	C mm	D mm	E mm	F mm	H mm	WLL 4:1 Ton	Weight kg
HCS 006	6	76	26	7.6	35	8.0	32.0	20.5	1.2	0.35
HCS 008	7,8	94	29	9.0	37	9.5	37.0	22.0	2.0	0.56
HCS 010	10	111	39	12.7	46	13.0	49.0	29.5	3.2	1.07
HCS 013	13	139	47	16.0	56	16.5	56.5	38.0	5.4	1.88
HCS 016	16	163	55	21.0	60	18.5	74.0	48.6	8.2	3.47
HCS 020	18,20	198	61	24.0	79	24.0	81.5	71.0	12.5	7.42





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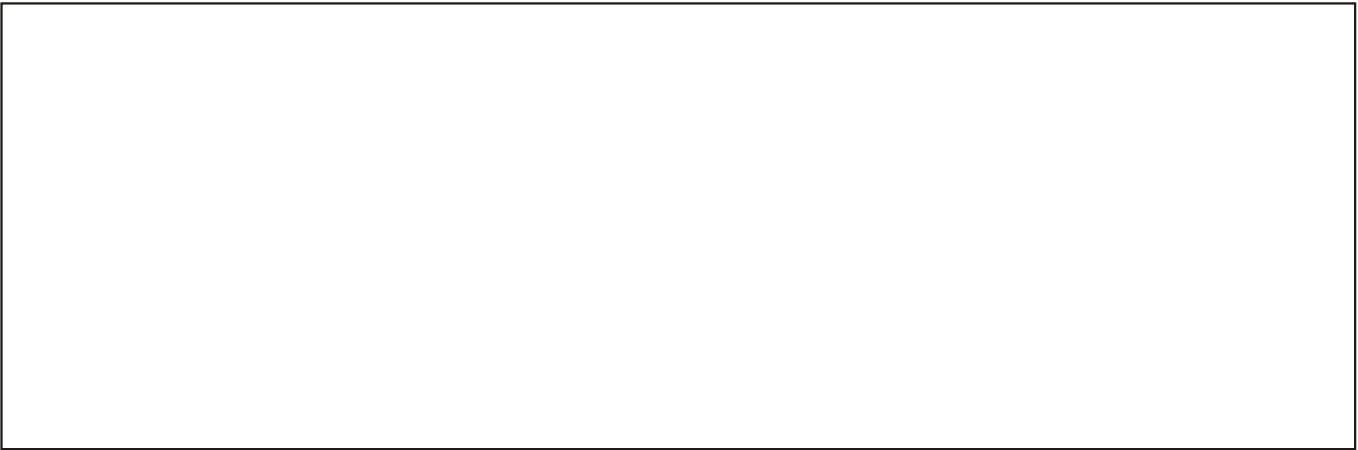
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