

Year 2013/2014



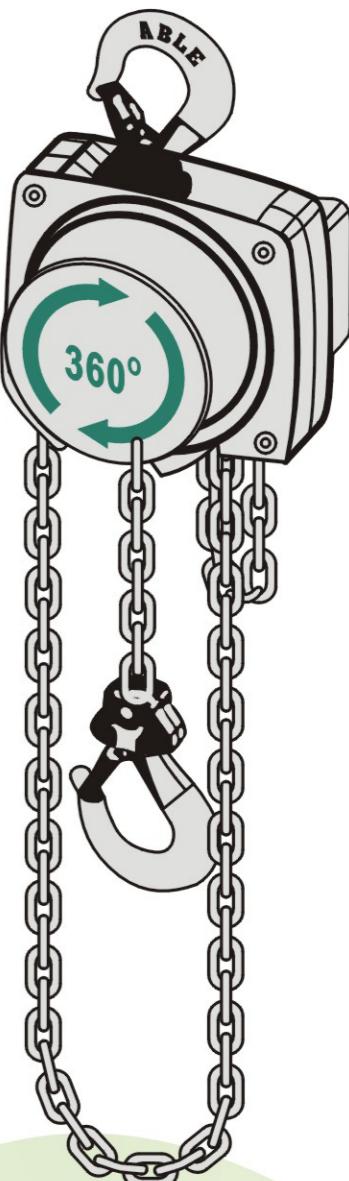
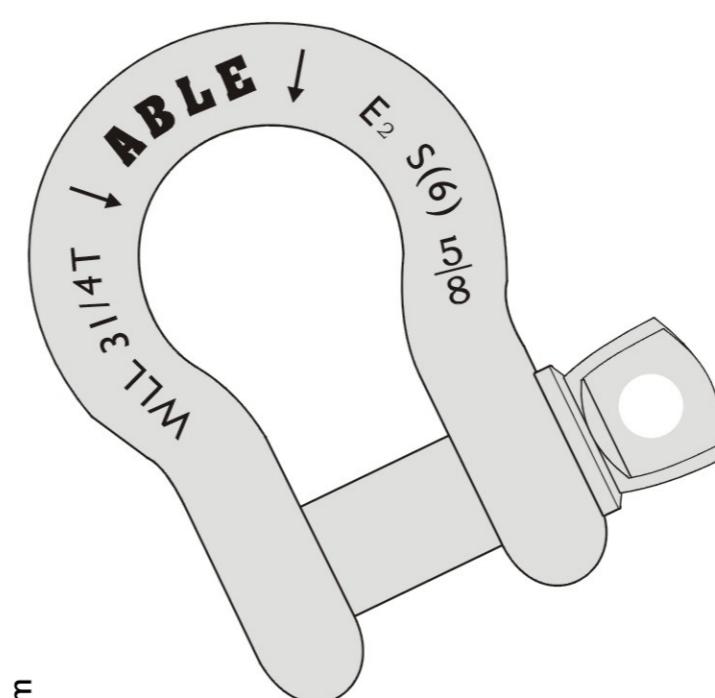
Ableforge Manufacturing Inc.

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Distribution Network



www.ablelatinoamerica.com

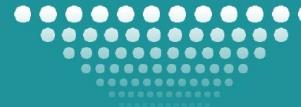


 **ABLE**
SAFETY LIFTING APPLICATIONS

The Independent Mark of Quality



Website: www.ableforge.com



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ABLEFORGE MFG INC. PRODUCTION BASE

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ABLE 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 industry 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

Company Profile

Ableforge Mfg Inc. is one of leading manufacturers of excellent Quality rigging and lifting products for heavy industry applications which is diversified into electric chain hoist, manual chain block, lever hoist, clamps, trolley, pullers, winches, bearing swivels, webbing sling, round sling, cargo lashing, chains, hooks and other rigging and material handling products etc. It is a multi national group company with 200,000 M2 most advanced Manufacturing Facility in United states. Current Operating Capital is US \$ 26,000,000 and encompasses poly sling system production, mould production, chain production, drop forge, finishing, stamping, heat treatment, powder coating, assembly and quality control lines.

your preferred partner

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

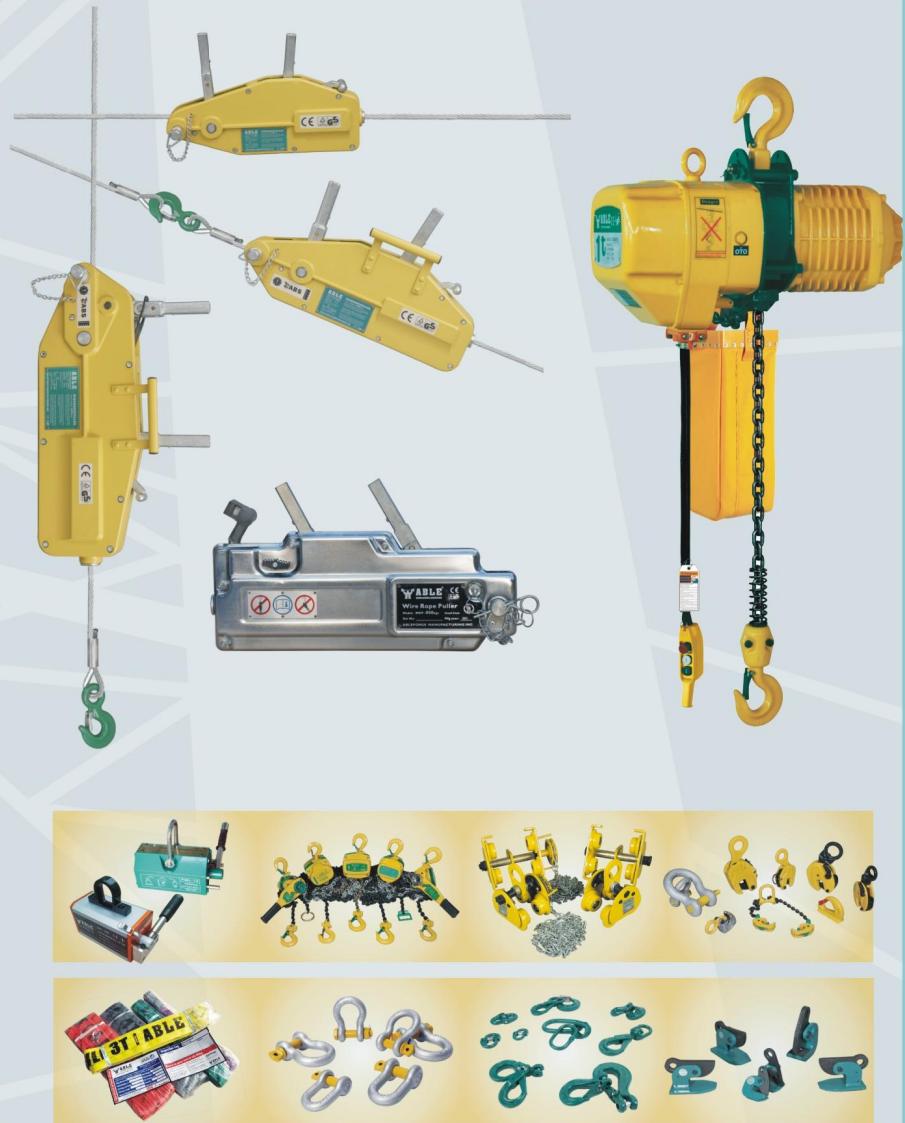
MANUFACTURING WARRANTY

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® products are tested to and fulfill international safety standards.



Page 1 of 1

Report no. 08-19611-SG-09	Project no. 1546233	Report date: 15 Mar. 2008	Office: Singapore
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REPORT OF ACTIVITY

General scope of activity: Document Review and Witness Load Test	Dates of all related activity: 12 March. 2008
Client: Company name: "Zentr Gruzopodemnogo Oborudovanja" Ltd Address: Republic of Belarus 223053, Minsk region Borovaya 3/37 Contact(s): Shuvalov Yury PO/shop/contract or job no: 00763	Supplier: PO/shop/contract or job no: ABLE08005
Component description(s): 1. ABLE LB-I Lever Hoist w/1.5mtr chain & hook, 3/4Ton	Results: Meets requirements Subject to condition(s) noted Does not meet requirements <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

This is to certify that the undersigned did at the request of "Zentr Gruzopodemnogo Oborudovanja" Ltd attend the Manufacturer on 06 Mar. 2008 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
- .2 Proof load test on the randomly selected Lever hoist to 1.5 times the WLL and found in good working condition.
- .3 Break Load Test
- .4 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

(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

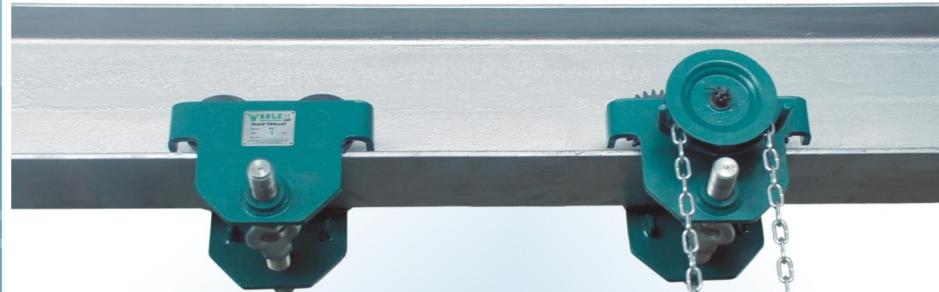
Attachment B Rev. 1



Ableforge Manufacturing Inc.

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Chain Blocks and Lever Hoists



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Website: www.ableforge.com



LEVER BLOCK LB-I SERIES

Technical Features

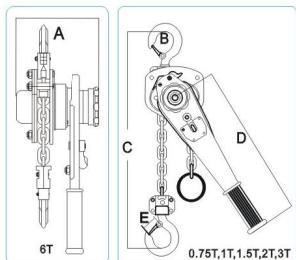
- One touch operation for free chain adjustment
- Grade 80 alloy load chain Iso and Jis standard
- Forged and HeatTreated load Hooks with batch traceability and stretch indicators

Idling operation

1. Depress the retaining pawl all the way and pull the grip ring towards you.
2. The chain can be adjusted up and down by hand.
3. To terminate the idling: Set the changelever 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 13157-2010.

Product code	Capacity Ton	Standard lift(m)	Test load Ton	Pulling Efforts		Chainfall NO .	Load chain Dia(mm)	Dimensions(mm)	Net weight kg			
				kg	No .							
LB-1050	0.50	1.5	0.75	11	1	6.0	148	128	295	255	45	6.1
LB-1075	0.75	1.5	1.13	15	1	6.3	148	128	295	255	45	6.9
LB-1100	1.00	1.5	1.50	16	1	6.3	152	128	310	255	48	7.0
LB-1150	1.50	1.5	2.25	18	1	7.1	161	148	335	368	52	9.6
LB-1200	2.00	1.5	3.00	24	1	8.0	168	148	350	368	60	10.1
LB-1300	3.00	1.5	4.50	38	1	9.0	191	180	405	368	66	15.9
LB-1600	6.00	1.5	9.00	39	2	9.0	191	180	550	368	80	25.7

Individually proof load tested with individual serial number



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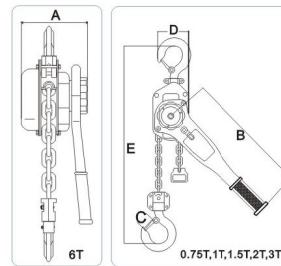
LEVER BLOCK LB-II SERIES

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.



Conform & tested acc to EN 13157-2010.

Product code	Capacity Ton	Standard lift(m)	Test load Ton	Pulling Efforts		Chainfall NO .	Load chain Dia(mm)	Dimensions(mm)	Net weight kg			
				kg	No .							
LB-II 050	0.50	1.5	0.75	10	1	6	148	280	45	96	325	5.9
LB-II 075	0.75	1.5	1.13	14	1	6	148	280	45	96	325	6.6
LB-II 100	1.00	1.5	1.50	16	1	6	148	280	48	96	325	6.8
LB-II 150	1.50	1.5	2.25	22	1	8	172	410	52	110	380	10.8
LB-II 200	2.00	1.5	3.00	26	1	8	172	410	60	110	380	11.1
LB-II 300	3.00	1.5	4.50	32	1	10	195	410	66	145	480	18.2
LB-II 600	6.00	1.5	9.00	34	2	10	195	410	80	145	480	28.1
LB-II 900	9.00	1.5	13.5	34	3	10	195	410	94	155	510	38.0

Individually proof load tested with individual serial number



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ROTATION CHAIN HOIST

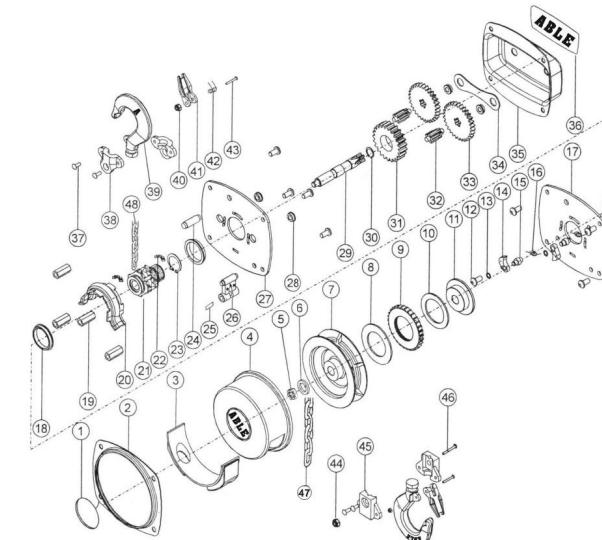
Chain Hoist Revolution

- 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
 1. Wheel cover with guide slots guard against jamming and slipping of chain.
 2. Forged swivel hooks and latches prevent twisting of chain and reduce unintentional unhooking of the unit or the load.
 3. Chain guide and stripper ensures proper fit of chain over pocket wheel.
 4. Two-stage gear reduction with hardened gears and pinion.



CB360 - NEW CONCEPTION CHAIN HOIST

Exploded spare parts drawing



ABLECB360
Chain Block

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 cover①	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 Plate①	24	1	Top hook shaft	40	2	Nut
9	1	Ratchet Disc	25	1	Sling plate pin	41	2	Safety Latch
10	1	Friction Plate②	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	Spined gear	47	1	Hand chain
16	2	Pawl spring	32	2	Pinion shaft	48	1	Load chain



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CHAIN BLOCK CB-I SERIES

Technical Benefits

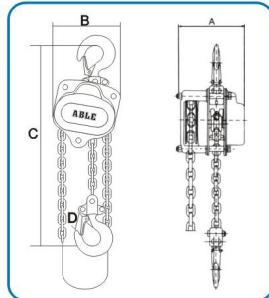
- High-tech load chains are approved by DIN 5684, one of the world's most rigid standards. This is the special heat treated load chain of ISO Grade T (900N/mm²) whose tensile strength far surpasses ISO T class.
- Double pawls supporting fail-safe brake mechanism. Even if by any chance one of the two 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 13157-2010.



Product code	Capacity Ton	Standard lift(m)	Test load Ton	Pulling Efforts kg	Chainfall NO.	Load chain Dia(mm)	Dimensions(mm) A	B	C	D	Net weight kg
CB-I005	0.5	3.0	0.75	16	1	5.0	127	144	285	27	9.1
CB-I010	1.0	3.0	1.50	24	1	6.3	147	157	315	30	12.0
CB-I015	1.5	3.0	2.25	28	1	7.1	179	174	340	34	13.8
CB-I020	2.0	3.0	3.00	32	1	8.0	179	204	380	37	21.6
CB-I020A	2.0	3.0	3.00	30	2	6.3	147	174	380	37	20.4
CB-I030	3.0	3.0	4.50	32	2	7.1	179	206	475	43	21.0
CB-I050	5.0	3.0	7.50	36	2	9.0	179	263	635	46	37.5
CB-I100	10.0	3.0	15.00	38	4	9.0	179	367	760	67	59.5
CB-I150	15.0	5.0	22.50	38×2	6	9.0	207	754	850	84	125.0
CB-I200	20.0	5.0	30.00	38×2	8	9.0	207	873	870	96	145.6

Individually proof load tested with individual serial number



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
 1. Wheel cover with guide slots guards against jamming and slipping of chain.
 2. Forged swivel hooks with latches prevent twisting of chain and reduce unintentional unhooking of the unit or the load.
 3. Chain guide and stripper ensure proper fit of chain over pocket wheel.
 4. Two-stage gear reduction with hardened gears and pinion.



Chrome finish also available



Moving products from one place to another



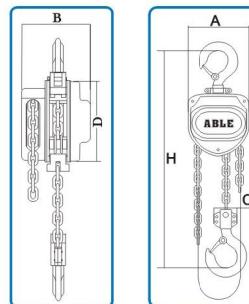
Laying conduits and pipelines



Uprooting trees



Installing underwater pump



Product code	Capacity Ton	Standard lift(m)	Test load Ton	Pulling Efforts kg	Chainfall NO.	Load chain Dia(mm)	Dimensions(mm) A	B	C	D	Net weight kg
CB-II 005	0.5	3.0	0.75	22	1	6	125	111	24	134	8.95
CB-II 010	1.0	3.0	1.50	31	1	6	147	126	28	154	11.2
CB-II 015	1.5	3.0	2.25	35	1	8	183	141	34	192	15.3
CB-II 020	2.0	3.0	3.00	30	1	8	215	163	38	224	18.5
CB-II 030	3.0	3.0	4.50	35	2	8	183	141	38	192	27
CB-II 050	5.0	3.0	7.50	39	2	10	215	163	48	224	42
CB-II 100	10.0	3.0	15.00	41	4	10	360	163	64	224	83
CB-II 200	20.0	5.0	30.00	41×2	8	10	585	191	82	224	197.4
CB-II 300	30.0	5.0	45.00	47×2	12	10	705	485	75	85	458.0
CB-II 500	50.0	5.0	75.00	47×2	24	10	746	660	110	128	~ 1300.0

■ Conform & tested acc to EN 13157-2010.



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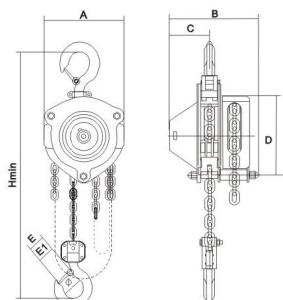


C
Model: CB250

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 HeatTreated load Hooks with batch traceability and stretch indicators
- Double Pawl brake system
- Asbestos free Brake Linings
- 100% Load Tested to 1.5 XWLL
- Sealed Roller Bearings
- 2000 Cycle Batch Test
- MBL of 400% ofVLL



ABLEFORGE MINI CB250 specification

Capacity	kg	250
Standard Lift	m	3.0
Test Load	kg	375
Headroom Hmin	mm	230
Pulling efforts	kg	11.6
Chainfall No.		1
Load chain (dia.×pitch)	mm	Φ4×12
Dimensions		
mm		
A	100	
B	110	
C	48.5	
D	109	
E	18	
E1	Φ4.5	
Net weight	kg	3.7



C
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.

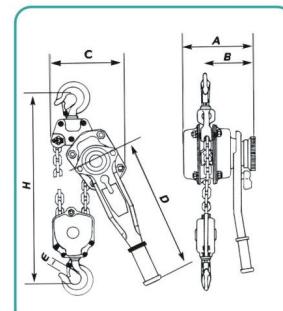
- Superior Grade 100 load chain - chrome plated
- Forged and HeatTreated load Hooks with batch traceability and stretch indicators
- Double Pawl brake system
- Asbestos free Brake Linings
- 100% Load Tested to 1.5 XWLL
- Sealed Roller Bearings
- 2000 Cycle Batch Test
- MBL of 400% ofVLL

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.



ABLEFORGE MINI LB250 specification

Capacity	kg	250
Standard Lift	m	1
Test Load	kg	375
Headroom (hook to hook)Hmin	mm	215
Pulling efforts	kg	12.5
Chainfall No.		1
Load chain(dia.×pitch)	mm	Φ4×12
Dimensions		
mm		
A	75	
B	116	
C	41	
D	157	
E	18	
E1	15.5	
Net weight	kg	2.15



Certificate of Test & Inspection

It is hereby certified that this product was manufactured, tested & Inspected in accordance with Standards BS EN13157-2010 and AS1418.2 Compliance applies when fitted with Approved alloy hoisting chains EN818-7.

Product :	Chain Block CB-I	
Serial No. :	C12000001	

Date of Test:	Aug 10th, 2013	
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.

Chief Quality Engineer

Howard Warner

Date: Aug 20th, 2013

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Plain Trolleys and Geared Trolleys



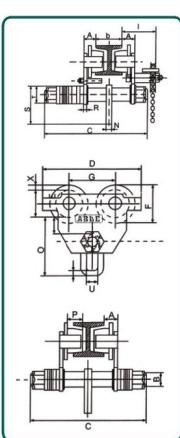
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Website: www.ableforge.com



- 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

**PLAIN TROLLEY PT SERIES SPECIFICATION**

Product Code	Capacity (Ton)	Beam Flange Width (mm)	Dimensions(mm)												Net Weight Kg					
			O	A	B	C	D	E	F	G	H	T	R	S	L	X	P	N	U	Weight
PT05	0.5	64-140	128	22	24	230	212	58	82	102	28	44	6	95	15	12	26	10	24	8.5
PT10	1	64-140	143	25	30	254	255	75	102	118	25	50	8	118	15	13.5	28	12	30.5	13.5
PT20	2	76-165	172	27	36	294	302	90	122	137	27	60	10	145	20	16	34	14	36	22
PT30	3	76-203	212	31	42	344	344	110	142	157	32	78	12	180	26	16	16	16	45	40
PT50	5	88-203	254	36	48	360	378	122	156	172	34	90	16	220	35	17	20	20	60	50
PT100	10	125-203	320	46	60	403	445	151	188	200	35	94	25	285	45	18	25	25	82	90
PT200	20	144-203	385	68	60	475	642	200	274	300	35	94	30	302	70	37	60	35	110	173

GEARED TROLLEY GT SERIES SPECIFICATION

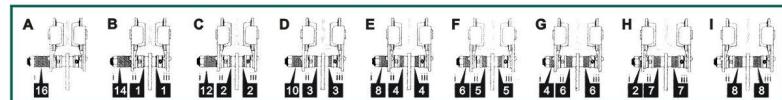
Product Code	Capacity (Ton)	Beam Flange Width (mm)	Dimensions(mm)												Net Weight Kg						
			O	A	B	C	D	E	F	G	H	T	R	S	L	X	P	N	U	Weight	
GT05	0.5	64-140	128	22	24	230	212	58	82	102	28	44	6	95	15	12	26	10	24	113.5	12
GT10	1	64-140	143	25	30	254	255	75	102	118	25	50	8	118	15	13.5	28	12	30.5	11.5	
GT20	2	76-165	172	27	36	294	302	90	122	137	27	60	10	145	20	16	34	14	36	28	
GT30	3	76-203	212	31	42	344	344	110	142	157	32	78	12	180	26	16	38	16	45	35	47
GT50	5	88-203	254	36	48	360	378	122	156	172	34	90	16	220	35	17	44	20	60	136	58
GT100	10	125-203	320	46	60	403	445	151	188	200	35	94	25	285	45	18	48	25	82	160	98
GT200	20	144-203	385	68	60	475	642	200	274	300	35	94	30	302	70	37	60	35	110	151.5	185

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.)												I	
	A	B	C	D	E	F	G	H	I	J	K			
0.5	64	81.3	87.5	93.8	100	106.3	112.5	118.8	140					
1	64	81.3	87.5	93.8	100	106.3	112.5	118.8	140					
2	76	106.3	112.5	118.8	125	131.3	137.5	143.8	165					
3	76	106.3	112.5	118.8	125	131.3	137.5	143.8	203					
5	88	131.3	137.5	143.8	150	156.3	162.5	168.8	203					
10	125	156.3	162.5	168.8										

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								



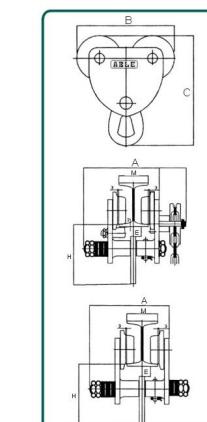
Website: www.ableforge.com

**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.



ABLE Push Trolley

**PLAIN TROLLEY PT-I SERIES SPECIFICATION**

Product Code	Capacity (Ton)	Compatible Rail Size(mm)			Dimensions(mm)												Min. Rotation Radius (mm)	N/W (kg)
		Min. W	Max. W	Height(H)	A	B	C	D	E	F	K	φ	φ					
PT-I 05	0.5	75	125	100	150	206	174	120	45	55	27	-	900	4.5				
PT-I 10	1	75	125	125	250	206	231	120	45	80	27	-	1300	7.5				
PT-I 20	2	100	150	150	400	241	271	155	60	100	33	-	1500	11.5				
PT-I 30	3	100	150	180	400	261	311	185	70	113	47	-	2000	21.0				
PT-I 50	5	125	175	250	450	294	351	220	80	125	53	-	2600	30.5				
PT-I 100	10	150	175	250	450	294	721	165	-	125	53	-	44.0					

GEARED TROLLEY GT-I SERIES SPECIFICATION

Product Code	Capacity (Ton)	Compatible Rail Size(mm)			Dimensions(mm)												Min. Rotation Radius (mm)	N/W (kg)
		Min. W	Max. W	Height(H)	A	B	C	D	E	F	K	φ	φ					
GT-I 10	1	75	125	125	250	206	231	120	45	80	27	117	1300	8.5				
GT-I 20	2	100	150	150	400	241	271	155	60	100	33	119	1500	13.0				
GT-I 30	3	100	150	180	400	261	311	185	70	113	47	134	2000	18.5				
GT-I 50	5	125	175	250	450	294	351	220	80	125	53	134	2600	32.0				
GT-I 100	10	150	175	250	450	294	721	165	-	125	53	134	-	46.0				

Adjusting the Trolley for the Rail Size

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



Website: www.ableforge.com



Screw type PT-II

Plain trolley have 5 specifications 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.

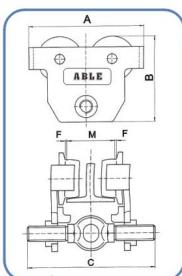
C Model: PT-II



C Model: GT-II

Screw type GT-II

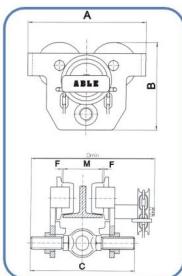
geared trolley have 5 specifications from 1/2t to 5t. The geared trolley is hand-operated by pulling the hand-chain, running on the bottom flange of monorail. With the screw hanger to adjust the width of I-beam. They are widely used in factories, mines, wharves, docks, warehouses and engine rooms for 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 13157-2010.

Product code	Capacity Ton	Test load Ton	Min Radius curve(m)	M Beam width(mm)				Dimensions (mm)				NW (kg)	
				M1 Min	M1 Max	M2 Min	M2 Max	A	B	C	C1 C2	F	W1 W2
PT-II05	0.5	0.75	0.9	64	220	160	305	225	177	292	377	3	8.3 8.7
PT-II10	1.0	1.50	1.0	64	220	160	305	252	188	300	385	3	10.9 11.4
PT-II20	2.0	3.00	1.2	88	220	160	305	300	226	310	395	3	18.2 19.0
PT-II30	3.0	4.50	1.3	102	220	160	305	360	290	324	409	3	31.4 32.5
PT-II50	5.0	7.50	1.4	114	220	160	305	392	313	329	414	3	42.6 44.0

Individually proof load tested with individual serial number



Conform & tested acc to EN 13157-2010.

Product code	Capacity Ton	Height Mtr	Test load Ton	Min Radius curve(m)	M Beam width(mm)				Dimensions (mm)				NW (kg)	
					M1 Min	M1 Max	M2 Min	M2 Max	A	B	C	C1 C2	D	W1 W2
GT-II05	0.5	3.0	0.75	0.9	64	220	160	305	225	173	292	377	293	13.3 13.7
GT-II10	1.0	3.0	1.50	1.0	64	220	160	305	252	188	300	385	303	15.9 16.4
GT-II20	2.0	3.0	3.00	1.2	88	220	160	305	300	226	310	395	320	23.2 24.0
GT-II30	3.0	3.0	4.50	1.3	102	220	160	305	360	290	324	409	354	426 37.7 38.8
GT-II50	5.0	3.0	7.50	1.4	114	220	160	305	392	313	329	414	365	431 48.9 50.3

Individually proof load tested with individual serial number



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Electric Chain Hoist



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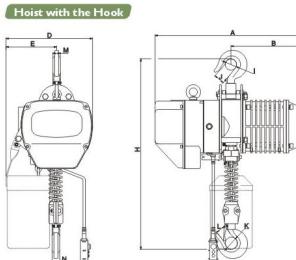


Website: www.ableforge.com



ELECTRIC CHAIN HOIST - 3 PHASES

- 3 phases, Single or Dual Speed
- For heavy Industry USE
- Smooth & Ergonomic Operation
- Reliable Safety
- Enhanced Durability
- Easier Maintenance
- Environmentally Friendly



0.5t-5t

● Technical Parameters

Product code	Capacity (Ton)	Lifting Height (m)	Lifting Speed (m/min)	Lifting motor				Operating motor				I-beam (mm)
				Power (Kw)	Rotation speed (r/min)	Phases	Voltage (V)	Power (Kw)	Rotation speed (r/min)	Operating speed (m/min)	Phases	
ECHK0051	0.5	3/9	6.8	0.9	1440	3	220-440	50	\	\	\	\
ECHK0101	1	3/9	6.6	1.5	1440	3	220-440	50	\	\	\	\
ECHK0151	1.5	3/9	8.8	3.0	1440	3	220-440	50	\	\	\	\
ECHK0201	2	3/9	6.6	3.0	1440	3	220-440	50	\	\	\	\
ECHK0202	2	3/9	3.3	1.5	1440	3	220-440	50	\	\	\	\
ECHK0301	3	3/9	5.4	3.0	1440	3	220-440	50	\	\	\	\
ECHK0302	3	3/9	4.4	3.0	1440	3	220-440	50	\	\	\	\
ECHK0502	5	3/9	2.7	3.0	1440	3	220-440	50	\	\	\	\

● Size specification

Product code	capacity (Ton)	Unit (mm)											
		H	A	B	D	E	I	J	K	L	M	N	
ECHK0051	0.5	600	415	168	290	195	φ34	28	φ34	28	19	19	φ6.3
ECHK0101	1	650	520	260	300	176	φ42	32	φ42	32	24	24	φ7.1
ECHK0151	1.5	800	615	295	430	265	φ49	40	φ49	40	30	30	φ10.0
ECHK0201	2	800	615	295	430	265	φ49	40	φ49	40	30	30	φ10.0
ECHK0202	2	835	520	260	300	236	φ49	40	φ49	40	30	30	φ7.1
ECHK0301	3	845	615	295	430	265	φ59	48	φ59	48	35	35	φ11.2
ECHK0302	3	950	615	295	430	320	φ59	48	φ59	48	35	35	φ10.0
ECHK0502	5	1030	615	295	430	325	φ60	48	φ60	48	43	43	φ11.2



Website: www.ableforge.com



0.5t-5t



ABLE
Electric Chain Hoist

Shell: Light aluminum alloy shell shall be adopted which is light but hard and fit for the use in the terrible work environment with a high heat dissipation rate and all tightness design.

Inverse phase sequence protecting device: It is the special electrical installation which control the circuit not to work in case of wiring error in the power supply.

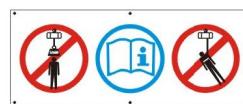
Limit switch: The limit switch device is installed where the weight is lifted on and off to make the motor to stop automatically so as to prohibit the chains from exceeding for safety.

24V/36V device: It is used to prohibit the emergencies from occurring in case of the leakage in the switch.

Side magnetic braking device: This device shall realize the instant brake in case of the power dump.

Chain bag: It shall be light, handsome and durable.

Chain: The chain shall adopt the imported FEC80 ultra heat-treatable aluminum alloy chain.



Hoist with Manual Trolley

● Technical Parameters

Product code	Capacity (Ton)	Lifting Height (m)	Lifting Speed (m/min)	Lifting motor				Operating motor				I-beam (mm)
				Power (Kw)	Rotation speed (r/min)	Phases	Voltage (V)	Power (Kw)	Rotation speed (r/min)	Operating speed (m/min)	Phases	
ECHK0051	0.5	3/9	6.8	0.9	1440	3	220-440	50	\	\	\	50-102
ECHK0101	1	3/9	6.6	1.5	1440	3	220-440	50	\	\	\	68-130
ECHK0151	1.5	3/9	8.8	3.0	1440	3	220-440	50	\	\	\	82-153
ECHK0201	2	3/9	6.6	3.0	1440	3	220-440	50	\	\	\	82-153
ECHK0202	2	3/9	3.3	1.5	1440	3	220-440	50	\	\	\	82-153
ECHK0301	3	3/9	5.4	3.0	1440	3	220-440	50	\	\	\	82-153
ECHK0302	3	3/9	4.4	3.0	1440	3	220-440	50	\	\	\	82-153
ECHK0502	5	3/9	2.7	3.0	1440	3	220-440	50	\	\	\	100-178

● Size specification

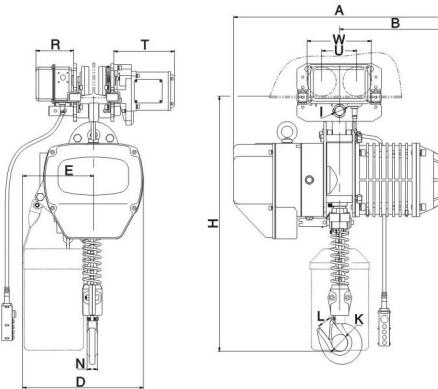
Product code	capacity (kg)	Unit (mm)											
		H	A	B	D	E	K	L	N	I	J	P	
ECHK0051	0.5	637	415	168	290	195	φ42	91	163	φ34	28	19	φ6.3
ECHK0101	1	635	520	260	300	176	φ42	32	24	φ26	115	221	φ7.1
ECHK0151	1.5	764	615	295	430	265	φ49	40	30	φ31	138	265	φ10.0
ECHK0201	2	764	615	295	430	265	φ49	40	30	φ31	138	265	φ10.0
ECHK0202	2	800	520	260	300	236	φ49	40	30	φ31	138	265	φ7.1
ECHK0301	3	854	615	295	430	265	φ59	48	35	φ36	157	277	φ11.2
ECHK0302	3	960	615	295	430	320	φ59	48	35	φ36	157	277	φ10.0
ECHK0502	5	1007	615	295	430	325	φ60	48	43	φ43	178	332	φ11.2



Website: www.ableforge.com



0.5t-5t



Hoist with Electric Trolley

● Technical Parameters

Product code	Capacity (Ton)	Lifting Height (m)	Lifting Speed (m/min)	Lifting motor				Operating motor				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)	
ECHK0051	0.5	3/9	6.8	0.9	1440	3	220-440	50	0.12	1440	12.2	3 58-153
ECHK0101	1	3/9	6.6	1.5	1440	3	220-440	50	0.4	1440	11/21	3 58-153
ECHK0151	1.5	3/9	8.8	3.0	1440	3	220-440	50	0.4	1440	11/21	3 82-178
ECHK0201	2	3/9	6.6	3.0	1440	3	220-440	50	0.4	1440	11/21	3 82-178
ECHK0202	2	3/9	3.3	1.5	1440	3	220-440	50	0.4	1440	11/21	3 82-178
ECHK0301	3	3/9	5.4	3.0	1440	3	220-440	50	0.75	1440	11/21	3 100-178
ECHK0302	3	3/9	4.4	3.0	1440	3	220-440	50	0.75	1440	11/21	3 100-178
ECHK0502	5	3/9	2.7	3.0	1440	3	220-440	50	0.75	1440	11/21	3 100-178

● Size specification

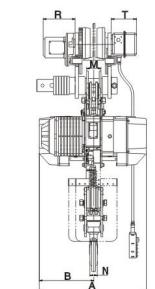
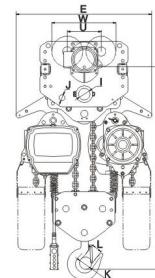
Product code	capacity (Ton)	Unit (mm)													
		H	A	B	D	E	I	K	L	N	W	U	R	T	
ECHK0051	0.5	658	415	168	290	195	φ34	φ42	28	19	191	99	159	142	φ6.3
ECHK0101	1	650	520	260	300	176	φ31	φ42	32	24	206	111	142	231	φ7.1
ECHK0151	1.5	770	615	295	430	265	φ36	φ49	40	30	237	127	142	231	φ10.0
ECHK0201	2	770	615	295	430	265	φ36	φ49	40	30	237	127	142	231	φ10.0
ECHK0202	2	815	520	260	300	236	φ36	φ49	40	30	237	127	142	231	φ7.1
ECHK0301	3	830	615	295	430	265	φ43	φ59	48	35	265	140	142	231	φ11.2
ECHK0302	3	930	615	295	430	320	φ43	φ59	48	35	265	140	142	231	φ10.0
ECHK0502	5	1015	615	295	430	325	φ54	φ60	48	43	296	156	142	231	φ11.2



Website: www.ableforge.com



10t-20t



Hoist with Electric Trolley

● Technical Parameters

Product code	Capacity (Ton)	Lifting Height (m)	Lifting Speed (m/min)	Lifting motor				Operating motor				I-Beam (mm)
				Power (Kw)	Rotation speed (r/min)	Phases	Voltage (V)	Power (Kw)	Rotation speed (r/min)	Operating speed (m/min)	Phases	
ECHK1004	10	3/9	2.7	3.0×2	1440	3	220-440	50	0.75	1440	11/21	3 150-220

● Size specification

Product code	capacity (Ton)	Unit (mm)													
		H	A	B	E	I	J	K	L	M	N	W	U	R	
ECHK1004	10	1190	630	315	890	φ70	φ36	φ85	80	85	55	366	191	231	φ11.2



Website: www.ableforge.com



Shell: Light aluminum alloy shell shall be adopted which is light but hard and fit for the use in the terrible work environment with a high heat dissipation rate and all tightness design.

Inverse phase sequence protecting device: It is the special electrical installation which control the circuit not to work in case of wiring error in the power supply.

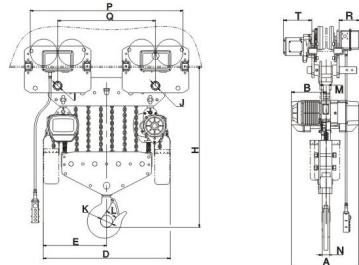
Limit switch: The limit switch device is installed where the weight is lifted on and off to make the motor to stop automatically so as to prohibit the chains from exceeding for safety.

24V/36V device: It is used to prohibit the emergencies from occurring in case of the leakage in the switch.

Side magnetic braking device: This device shall realize the instant brake in case of the power dump.

Chain bag: It shall be light, handsome and durable.

Chain: The chain shall adopt the imported FEC80 ultra heat-treatable aluminum alloy chain.



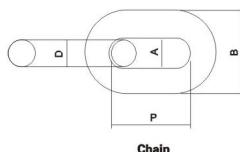
Hoist with Electric Trolley

● Technical Parameters

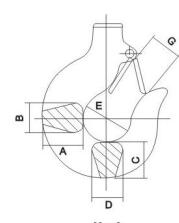
Product code	Capacity (Ton)	Lifting Height (m)	Lifting Speed (m/min)	Lifting motor					Operating motor					I-beam (mm)	
				Power (Kw)	Rotation speed (r/min)	Phases	Voltage (V)	Frequency (Hz/s)	Power (Kw)	Rotation speed (r/min)	Opening speed (m/min)	Phases	Voltage (V)	Frequency (Hz/s)	
ECHK2008	20	3/9	1.4	3.0×2	1440	3	220-440	50	0.75×2	1440	11/21	3	220-440	50	150-220

● Size specification

Product code	capacity (Ton)	Unit (mm)													Chain (mm)		
		H	A	B	D	E	I	J	K	L	M	N	P	Q	T		
ECHK2008	20	1470	630	315	1260	630	70	70	150	115	88	95	1106	740	142	231	φ11.2



Chain



Hook

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
ECHK1011 ECHK2022	7.1	21	8.9	25	1600	37	61.6
ECHK10151 ECHK2021 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



Website: www.ableforge.com



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	0.1/0.4	50	750/2990	
14	MT-020	20/0.5	0.1/0.4	50	750/2990	
15	MT-030	20/0.5	0.18/0.75	50	750/2990	
16	MT-050	20/0.5	0.18/0.75	50	750/2990	
17	MT-075	20/0.5	0.18/0.75	50	750/2990	
18	MT-100	20/0.5	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	



Website: www.ableforge.com



Website: www.ableforge.com



C
Model: ECHK-L

ELECTRIC CHAIN HOIST

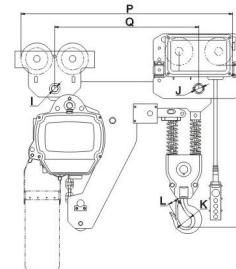
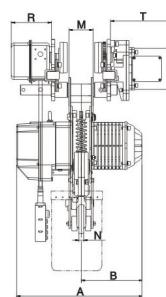
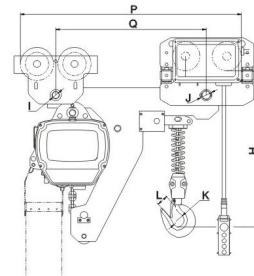
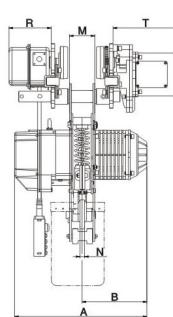


Super-low Lifting Loop Chain Electric Hoist

1t - 7.5t

Product Features:

It is typical of unique optimal structure in shortening the distance between the machine body and the beam tracks, applicable to operations inside fairy low buildings, especially suitable for use in temporarily erected plant buildings or on the sites where expansion of effective hoisting spaces inside the buildings is required.



C
Model: ECHK-L

ABLE
Electric Chain Hoist

● Technical Parameters

Product code	Capacity (Ton)	Lifting Height (m)	Lifting Speed (m/min)	Lifting motor					Operating motor					I-beam (mm)	
				Power (Kw)	Rotation speed (r/min)	Phases	Voltage (V)	Frequency (Hz/s)	Power (Kw)	Rotation speed (r/min)	Opening speed (m/min)	Phases	Voltage (V)	Frequency (Hz/s)	
ECHK0101L	1	3/9	6.6	1.5	1440	3	220-440	50	0.4	1440	11/21	3	220-440	50	58-153
ECHK0151L	1.5	3/9	8.8	3.0	1440	3	220-440	50	0.4	1440	11/21	3	220-440	50	82-178
ECHK0201L	2	3/9	6.6	3.0	1440	3	220-440	50	0.4	1440	11/21	3	220-440	50	82-178
ECHK0202L	2	3/9	3.3	1.5	1440	3	220-440	50	0.4	1440	11/21	3	220-440	50	82-178
ECHK0251L	2.5	3/9	5.4	3.0	1440	3	220-440	50	0.75	1440	11/21	3	220-440	50	100-178
ECHK0301L	3	3/9	5.4	3.0	1440	3	220-440	50	0.75	1440	11/21	3	220-440	50	100-178
ECHK0302L	3	3/9	4.4	3.0	1440	3	220-440	50	0.75	1440	11/21	3	220-440	50	100-178
ECHK0502L	5	3/9	2.7	3.0	1440	3	220-440	50	0.75	1440	11/21	3	220-440	50	100-178
ECHK0753L	7.5	3/9	1.8	3.0	1440	3	220-440	50	0.75	1440	11/21	3	220-440	50	100-178

● Size specification

Product code	Capacity (Ton)	Unit (mm)													Chain (mm)
		H	A	B	K	L	M	N	I	J	P	Q	R	T	
ECHK0101L	1	480	520	260	φ42	32	56	24	φ26	φ31	630	445	142	231	φ7.1
ECHK0151L	1.5	570	615	295	φ49	40	66	30	φ31	φ36	720	505	142	231	φ10.0
ECHK0201L	2	570	615	295	φ49	40	66	30	φ31	φ36	720	505	142	231	φ10.0
ECHK0202L	2	535	520	260	φ49	40	56	30	φ31	φ36	665	444.5	142	231	φ7.1
ECHK0251L	2.5	640	615	295	φ59	48	73	35	φ36	φ43	775	526	142	231	φ11.2
ECHK0301L	3	640	615	295	φ59	48	73	35	φ36	φ43	775	526	142	231	φ11.2
ECHK0302L	3	685	615	295	φ59	48	66	35	φ36	φ43	750	503	142	231	φ10.0
ECHK0502L	5	740	615	295	φ60	48	73	43	φ43	φ54	825	541	142	231	φ11.2
ECHK0753L	7.5	890	615	295	φ85	80	73	55	φ43	φ54	1020	730	142	231	φ11.2



Website: www.ableforge.com

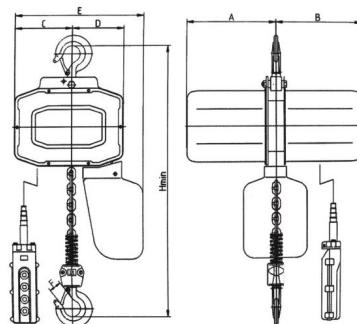


Website: www.ableforge.com



ELECTRIC CHAIN HOISTS - SINGLE PHASE

The single phase electric chain hoist ECHN 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 travelling crane equipment. ECHN is an equipment to output the best work efficiency and best working conditions to the operators worldwide. Wireless remote controller is an optional component with extra cost upon request.



Dimensions

Product Code	Dimensions (mm)					
	A	B	C	D	E	F
ECHN-025	210	210	116	104	262	24
ECHN-05S	210	210	92	128	262	24
ECHN-05	245	245	158	142	350	34
ECHN-10	245	245	158	142	350	34
ECHN-20	245	245	124	176	350	40
ECHN-30	245	245	124	176	350	45

C
Model: ECHN

Product Code	Capacity (ton)	Test load (ton)	Standard lift (m)	Lifting speed (m/min)	Motor Power (kw)	Power supply (IP/220V,50Hz)	Control voltage (V)	Insulation grade	Rating	Spec. of load chain	Chainfall Number	Working level	Minimum distance between hooks (mm)	Net weight (kg)	Extra meter of extra lift (kg)
ECHN-025	0.25	0.38	3	8	0.45	IP/220V,50Hz	24V	F	40%	Φ5x15	1	M4	430	22	0.55
ECHN-05S	0.5	0.75	3	4	0.45	IP/220V,50Hz	24V	F	40%	Φ5x15	2	M4	450	25	1.1
ECHN-05	0.5	0.75	3	7	0.8	IP/220V,50Hz	24V	F	40%	Φ7.1x21	1	M4	500	55	1.1
ECHN-10	1	1.5	3	6	1.2	IP/220V,50Hz	24V	F	40%	Φ7.1x21	1	M4	520	60	1.1
ECHN-20	2	3.0	3	3	1.2	IP/220V,50Hz	24V	F	40%	Φ7.1x21	2	M4	630	65	2.2
ECHN-30	3	4.5	3	2	1.2	IP/220V,50Hz	24V	F	40%	Φ7.1x21	3	M4	710	70	3.3

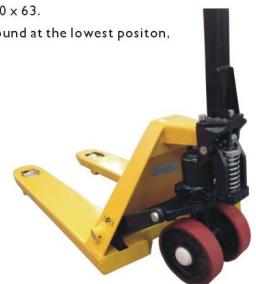


ABLE HAND PALLET TRUCKS

Technical Features

- Professional solution for the storage and transportation works.
- Material of wheel: PUR refer to polyurethane; PA refer to polyamide.
- Load roller is divided into single and double roller; please declare this at order. Single roller is $\Phi 80 \times 6$; double is $\Phi 80 \times 63$.
- Minimum height refer to the distance from ground at the lowest position, which can be depended on pallet size.

C
Model: HPT



Designations

I.1 Manufacturer(abbreviation)	HPT20S	HPT20D	HPT25D	HPT30D	HPT800S
I.2 Product code of manufacturer	2.0	2.0	2.5	3.0	2.5
I.5 Load capacity/load	Q(t)	600	600	600	400
I.6 Load centre	c(mm)	850	850	850	500
I.8 Load distance	x(mm)				
I.9 Wheelbase	y(mm)	1.205	1.205	1.205	855

Wheels, transmission

3.1 Tyres*	PUR/PA	PUR/PA	PUR/PA	PUR/PA	PUR/PA
3.2 Wheel size front	mm	180x50	180x50	180x50	180x50
3.3 Wheel size rear	mm	80x85	80x63	80x63	80x85
3.5 No. of wheels.front/rear(X=driven)		2/2	2/4	2/4	2/2
3.6 Track.front	mm	135	135	135	135
3.7 Track.rear	mm	370	370	370	370

Dimensions

4.4 MFH	h:(mm)	120	120	120	120	120
4.9 Height of control handle in operation max	h1:(mm)	1.230	1.230	1.230	1.230	1.230
4.15 Height lowered	h1:(mm)	80	80	80	80	80
4.19 Overall length	l1:(mm)	1.525	1.525	1.525	1.525	1.175
4.20 Length incl.Apron	l2:(mm)	375	375	375	375	375
4.21 Overall width	b / b:(mm)	520	520	520	520	520
4.22 Fork dimension	s/e(l):(mm)	50x150x1.150	50x150x1.150	50x150x1.150	50x150x1.150	50x150x800
4.25 Outside dimension of forks	b:(mm)	360/450 520/680	360/450 520/680	360/450 520/680	360/450 520/680	360/450 520/680
4.32 Ground clearance.wheelbase centre	m:(mm)	29	29	29	29	29
4.34 Aisle width pallet 800x1200.longitudinal	Ast:(mm)	1.832	1.832	1.832	1.832	1.484
4.35 Turning circle radius	WVa:(mm)	1.367	1.367	1.367	1.367	1.019

Weights

2.1 Net Weight	kg	72	73	74	94	65
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*Solid rubber(VG),polyamide(PA),polyurethane(PUR),Steel(S)



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 10m
- Safety factor available: 7:1 & 8:1
- According to EN 1492-1:2000



IS09001:2000



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Model: ASW07 ABLE EYE TO EYE WEBBING SLING

Webbing Width (mm)	Colourcoded according to EN 1492-1	Working Load Limit with 1 webbing sling			Working Load Limit with 2 webbing sling					
		Straight lift	Choked lift	β			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	1.000	0.800	2.000	1.400	1.000	1.400	1.120	1.000	0.800
60	WLL2T	2.000	1.600	4.000	2.800	2.000	2.800	2.240	2.000	1.600
90	WLL3T	3.000	2.400	6.000	4.200	3.000	4.200	3.360	3.000	2.400
120	WLL4T	4.000	3.200	8.000	5.600	4.000	5.600	4.480	4.000	3.200
150	WLL5T	5.000	4.000	10.000	7.000	5.000	7.000	5.600	5.000	4.000
180	WLL6T	6.000	4.800	12.000	8.400	6.000	8.400	6.720	6.000	4.800
240	WLL8T	8.000	6.400	16.000	11.200	8.000	11.200	8.960	8.000	6.400
300	WLL10T	10.000	8.000	20.000	14.000	10.000	14.000	11.200	10.000	8.000

ABLE lifting eye types

	1.flat eye	polyester
	2.Reversed eye	Elongation at breaking force ca. 12%
	3.Folded eye 1/2 width from 1 side	Elongation at WLL ca.3%
	4.Folded eye 1/2 width from 2 side	Elongation -resistance in wet condition 100%
	5.Folded eye 1/3 width	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



There is no guess work in safe lifting

1. Consult sling load chart for configurations not shown on label.
2. Do not expose sling to temperatures above 90° celsius.
3. Inspect sling for damage before each use.
4. Inspect 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 form 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'.



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 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



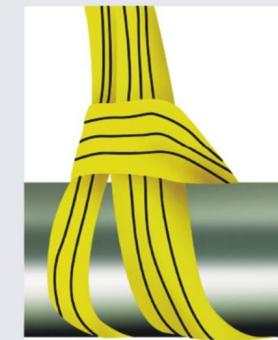
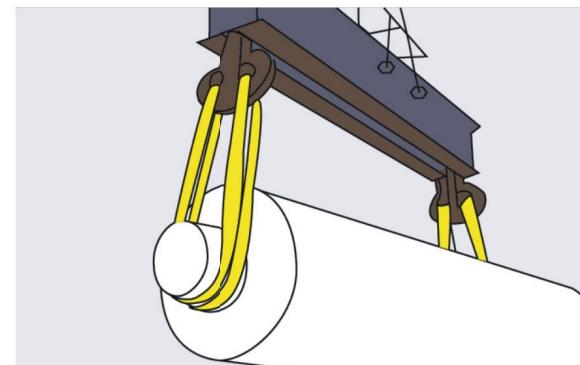
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Model: ASR07

ABLE ROUND SLING



Colour	Colour-coded according to EN 1492-1	β								Working Load Limit with 1 webbing sling			
		Straight lift		Choked lift		$0^\circ - 7^\circ$				$7^\circ - 45^\circ$		$45^\circ - 60^\circ$	
Purple	WLL1T	1.00	0.800	2.00	1.400	1.000	700	500	1.400	1.120	1.000	0.800	
Green	WLL2T	2.00	1.600	4.000	2.800	2.000	1.400	1.000	2.800	2.240	2.000	1.600	
Yellow	WLL3T	3.000	2.400	6.000	4.200	3.000	2.100	1.500	4.200	3.360	3.000	2.400	
Grey	WLL4T	4.000	3.200	8.000	5.600	4.000	2.800	2.000	5.600	4.480	4.000	3.200	
Red	WLL5T	5.000	4.000	10.000	7.000	5.000	3.500	2.500	7.000	5.600	5.000	4.000	
Brown	WLL6T	6.000	4.800	12.000	8.400	6.000	4.200	3.000	8.400	6.720	6.000	4.800	
Blue	WLL8T	8.000	6.400	16.000	11.200	8.000	5.800	4.000	11.200	8.960	8.000	6.400	
Orange	WLL10T	10.000	8.000	20.000	14.000	10.000	7.000	5.000	14.000	11.200	10.000	8.000	



Model: ASR07

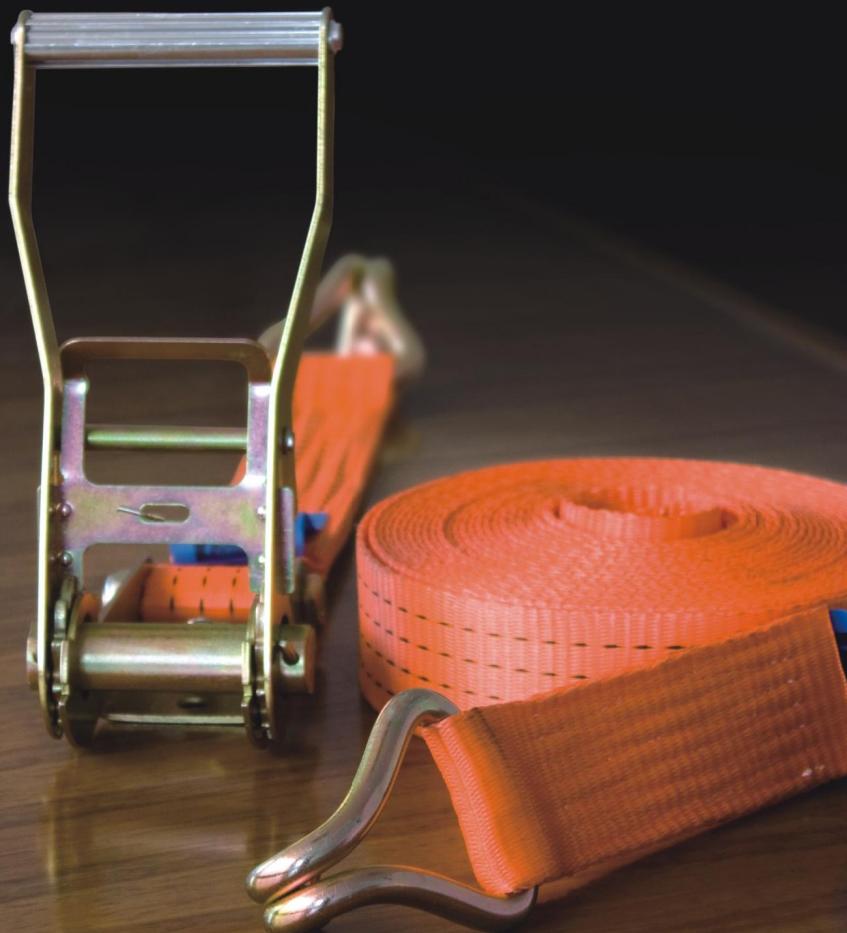
ABLE round slings are easy to use, efficient in operation and gentle on surface contact. All round slings are colour coded to give easy identification of the safe working load. They come with a label giving length and tonnage. The round sling inner core is made from high tensile polyester fibre which 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.



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CARGO LASHING

Model: RST



IS09001:2000

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Model: RST

ABLE CARGO LASHING STRAPS



Permissible pulling force(lc) 10t, two-piece system 75-2

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

Claw hook	75-2-CH	
J Hook, double	75-2-JD	
Flat hook	75-2-FH	



Permissible pulling force(lc) 5t, two-piece system 50A-2

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

Twisted snap hook	50A-2-TS	
J Hook, double	50A-2-JD	
J Hook, double with keeper	50A-2-JK	
Claw hook	50A-2-CH	



SIRIM QAS International Sdn.Bhd. (Company No. 410334-X)
No.1, Persiaran Dato' Menteri, P.O.Box 7035, Section 2,
40911 Shah Alam, Selangor Darul Ehsan, Malaysia
Tel.no: 03-55446451
Fax.no: 03-55446460



TEST REPORT

REPORT NO.: 2005CB1543

PAGE: 1 OF 4

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Applicant : Ableforge Manufacturing Inc
Dallas 75229-1501, 11403 Matais
Dallas, Texas 75234
United States of America

Product : Electric Chain Hoist

Reference Standard/
Method of test
Company's Specification - Breaking Load Test
(Adopted from MS 551:1978 - Clause 4.2)

Description of sample : One no. of Chain Sling was received for testing.
Brand : ABLE
Length : 12 feet
Chain Link Diameter : $\frac{1}{2}$ inch
Chain Material : Grade 80 Alloy

Date received : 24 November 2005

Job no./Ref. no. : J200550401475/SQAS/CBMT/T.REC/LDL/02

Issued date : 29 NOV 2005

Approved Signatories

(DALHA RAHMAT)
Senior Technical Executive



(MOHD. FAUZI ISMAIL)
Senior Manager
Construction and Building Materials Testing Section
Testing Services Department



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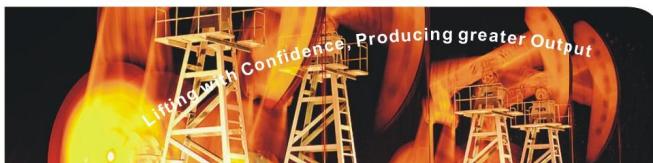
Clamp, Crane Scale, Jack & Pulley Block



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Website: www.ableforge.com



C
Model: VLC

SV PLUS VERTICAL LIFTING CLAMP

BENEFITS

- Long product life
- All forged and heat treated Parts
- Meets standard BS EN13155
- Safety and Reliability with individual serial number
- Guaranteed performance
- Easily disassembled and reassembled
- Embossed branding ABLE
- 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.

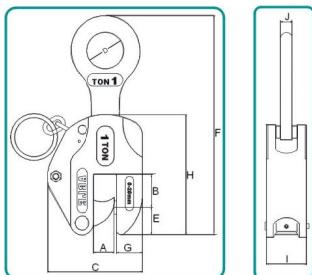
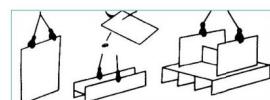
WORKING FIELDS

- 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	0-22	24	32	123	46	22	274	29	142	52	12	4.5
VLC2	2	0-32	35	42	152	50	25	302	38	188	63	14	7.0
VLC3	3	0-36	38	48	170	58	35	360	45	203	68	19	11.0
VLC5	5	0-50	52	54	220	62	58	458	58	236	76	20	17.2



Website: www.ableforge.com



C
Model: HLC

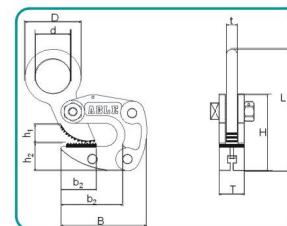
SV PLUS HORIZONTAL LIFTING CLAMP



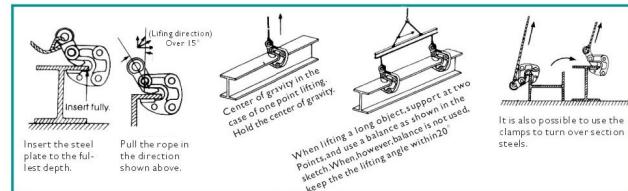
Jaw and floor Material: 20 CrMnTi
Meets standard BS EN13155

WARNING

Inspection prior to use as per ABLE operating manual



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).



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/pair	Opening (mm)	Dimensions(mm)										Weight (kg)
			L	T	T	H	H1	H2	B	B1	B2	D	
HLC1	1	1-13	166	12	32	100	22	36	102	64	42	70	4.6
HLC2	2	3-22	235	16	40	132	33	46	130	84	56	92	5.6
HLC3	3	12-35	276	18	44	178	40	66	172	92	70	82	4.2
													8.4



Website: www.ableforge.com



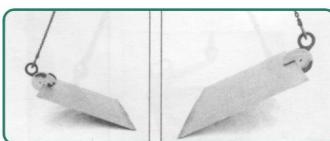
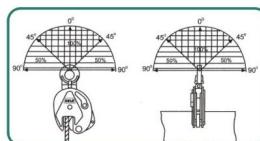
Jaw and floor Material: 20 CrMnTi
Meets standard BS EN13155



PLATE LIFTING CLAMP Flexible Solution

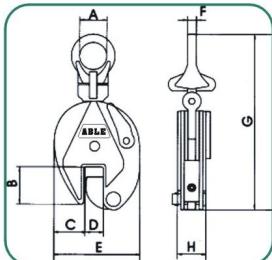
Technical Specialities

- 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.

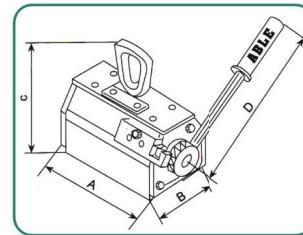


Working Load Limit (WLL)-for loading capacity please consult diagram as above

Product Code	Capacity Ton	Test Load Ton	A	B	C	D	E	F	G	H	Net weight kg
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	14.5
PLC 50	5.0	10.0	80	90	65	0-50	240	22	450	88	21.6
PLC 80	8.0	16.0	80	175	80	40-80	345	25	568	100	32.0



Website: www.ableforge.com



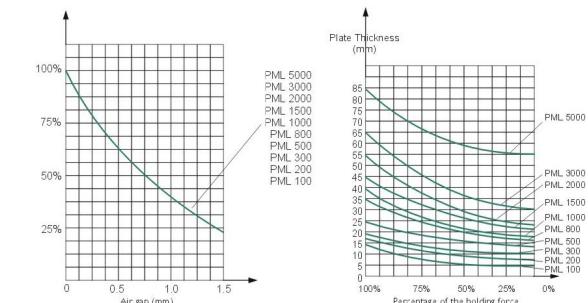
The Permanent Magnetic Lifter can be used in a variety of industries for the transportation and lifting of steel, engine parts, semi manufactured goods and moulds. Due to its magnetic force there is no need to use slings, clamps, or other holding devices eliminating damage to the surface of lifted goods.

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 (R_a) is less than 6.3 μm , the magnetic lifter surface gap will not exist, the lifting capacity will be 100%. If the surface roughness(R_a) is above or greater than 6.3 μm , the lifter gap should be estimated.



Product Code	Capacity (Flat) (kg)	capacity (Round) (kg)	Proof Load (kg)	A (mm)	Dimension C (mm)	D (mm)	Weight (kg)
PML100	100	30	300	122	69	185	160
PML200	200	60	600	162	79	190	160
PML300	300	100	900	192	95	255	250
PML500	500	160	1500	232	120	270	220
PML800	800	265	2400	302	154	320	450
PML1000	1000	300	3000	332	154	320	450
PML1500	1500	500	4500	382	170	370	450
PML2000	2000	600	6000	392	196	420	450
PML3000	3000	1000	9000	447	220	453	600
PML5000	5000	1500	15000	640	260	645	600



Website: www.ableforge.com



C
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 gravity. 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.

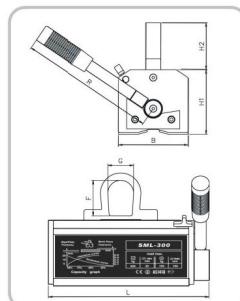
Safety Factor: 3.5 to 1
Super Magnet

■ The main technical parameters

Product Code	Flat Load WLL (Kg)	Round Load WLL (Kg)	Plate Min Thickness (mm)	Round Min-Max Thickness (mm)	Work Max. Length (mm)	Operation temperature
SML-100	100	50	15	25-60	1500	<80
SML-300	300	150	20	50-100	1500	<80
SML-600	600	300	30	100-180	2000	<80
SML-1000	1000	500	40	150-350	2500	<80
SML-1500	1500	700	50	150-380	3000	<80
SML-2000	2000	1000	60	180-450	3500	<80



■ Size specification



Product Code	Flat Load WLL (Kg)	Round Load WLL (Kg)	Dimensions(mm)						Weight kg	
			L mm	B mm	H1 mm	H2 mm	R mm	F mm		
SML-100	100	50	137	62	66	45	119.5	31.5	21	4.2
SML-300	300	150	199	90	95	68	175.0	50.0	38	10.8
SML-600	600	300	263	115	107	78	224.5	58.0	42	21.2
SML-1000	1000	500	303	150	140	88	265.5	64.0	50	42.0
SML-1500	1500	700	348	166	156	102	335.5	76.0	56	61.4
SML-2000	2000	1000	394	175	170	102	342.5	76.0	56	79.4



Website: www.ableforge.com



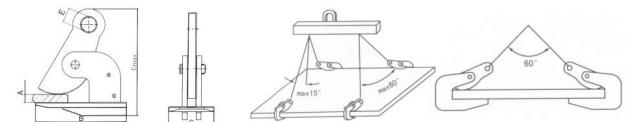
C
Model: LPC



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 EN 13155 and American Standard ANSI/ASME B30.20.s.



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.

Product Code	WLL(Ton) Single Double	Test Load(Ton) Single Double	Jaw opening (mm)	Dimensions (mm) A	Dimensions (mm) B	Dimensions (mm) C	Dimensions (mm) D	Dimensions (mm) E	Net weight kg
LPC 075	0.75 1.50	1.50 3.00	0~50	52	127	100	218	Φ30	4.3
LPC 150	1.50 3.00	3.00 6.00	0~50	52	220	110	270	Φ36	7.7
LPC 250	2.50 5.00	5.00 10.0	0~60	62	260	130	315	Φ40	14.1

C
Model: HPC

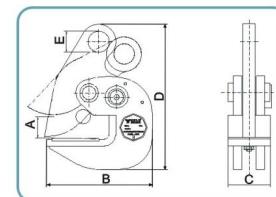
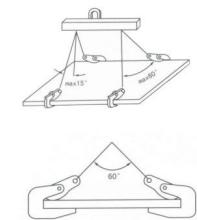


HORIZONTAL PLATE CLAMP HPC SERIES

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 Double	Test Load(Ton) Single Double	Jaw opening (mm)	Dimensions (mm) A	Dimensions (mm) B	Dimensions (mm) C	Dimensions (mm) D	Dimensions (mm) 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	3.9
HPC 250	2.50 5.00	5.00 10.0	0~40	50	231	90	310	Φ40	14.0



Website: www.ableforge.com



C
Model: DHQ

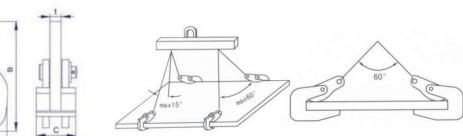


The DHQ clamps are for use in the lifting and transfer in horizontal position of non-sagging materials or bundles of non-sagging material. These clamps must be used in pairs or more.

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) Single Double	Test Load(Ton) Single Double	Jaw opening (mm)	Dimensions (mm)	Net weight kg
DHQ 2	1.0 2	2 4	0~20	127 156 56 29	2.12
DHQ 3	1.5 3	3 6	0~30	152 190 64 31	3.40
DHQ 5	2.5 5	5 10	20~60	220 293 70 54	8.50
DHQ 8	4.0 8	8 16	50~100	277 375 86 59	16.20
DHQ 10	5.0 10	10 20	60~125	296 421 86 66	20.20

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 Ø 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 Ø 3000mm available upon request



Product Code	WLL (T)	Jaw (mm)	Mouth Depth E (mm)	Pressure Line F (mm)	A (mm)	B (mm)	Ø C (mm)	D (mm)	Weight (kg)
LTC1.5/120	1.5	40-120	165	100	135	75	18	180	6
LTC3.0/180	3	50-180	245	175	180	100	26	310	18
LTC3.0/220	3	90-220	245	175	180	100	26	310	24



Website: www.ableforge.com

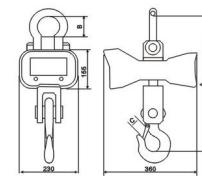


ABLE CRANE SCALE

C
Model: CSR-A CSR-B



- 30mm(1.2") LED display (CSR-A)
- 30mm(1.2") LCD display (CSR-B)
- HOLD function
- Gross/Net weight display convertible
- Weight accumulation function
- Auto shut function
- Remote control calibration
- Easy to replace battery
- AC/DC power adaptor: output DC9V/1.5A
- 6V/10Ah rechargeable scaled leadacid battery
- Remote distance: min. 10m

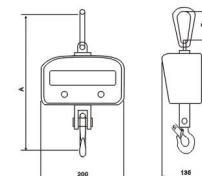


Product Code	Max Cap (kg)	Min Division (kg)	A (mm)	B (mm)	C (mm)	N.W.(kg)
CSR-1-A/B	1000	0.5	420	65	35	12
CSR-2-A/B	2000	1	600	80	45	14
CSR-3-A/B	3000	1	600	80	45	14
CSR-5-A/B	5000	2	730	100	55	24
CSR-10-A/B	10000	5	850	120	70	44
CSR-15-A/B	15000	5	900	140	70	60
CSR-20-A/B	20000	10	900	140	70	60

C
Model: CSR-M CSR-L



- 30mm(1.2") LED display (CSR-M)
- 30mm(1.2") LCD display (CSR-L)
- HOLD function
- Gross/Net weight display convertible
- Weight accumulation function
- Auto shut function
- Remote control calibration
- Easy to replace battery
- AC/DC power adaptor: output DC9V/1.5A
- 6V/10Ah rechargeable scaled leadacid battery
- Remote distance: min. 10m



Product Code	Max Cap (kg)	Min Division (kg)	A (mm)	B (mm)	C (mm)	N.W.(kg)
CSR-005-M/L	50	0.02	350	80	20	4
CSR-01-M/L	100	0.05	350	80	20	4
CSR-02-M/L	200	0.1	350	80	20	4
CSR-03-M/L	300	0.1	350	80	20	4
CSR-05-M/L	500	0.2	370	85	30	4.5
CSR-1-M/L	1000	0.5	370	85	30	4.5



Website: www.ableforge.com



Website: www.ableforge.com



C Model: DLVC



The DLVC drum clamp is for vertical lift and transfer. Allows drum to remain in an upright position during the lift and transfer using one clamp.

VERTICAL DRUM LIFTING CLAMP

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

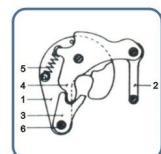
- Available in capacity of 0.5 metric tons.
- Welded alloy steel body for strength and smaller size. Forged alloy components, where required.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Company name (IP), logo, Working Load Limit and jaw opening permanently stamped 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.
- Minimum WLL of 10% of Maximum WLL
- Maintenance replacement kits are available.
- Manufactured by an ISO 9001 facility.

Model: DLVC

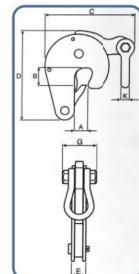
Product Code	Working Load Limit (t)*	DLVC Stock No.	Weight Each (lbs.)	Dimensions (in.)					
				Jaw A	B	C	D	E	F
DLVC05	0.5	2700118	15	12	14.77	11.42	1.97	5.94	0.47

* Ultimate load is 5 times the Working Load Limit.

- This ABLE clamp is designed for the lifting and transfer of steel drums carrying liquids. It comes complete with a shackle fitted for immediate use.
- 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		order no.
1.body complete	1041	
2.shackle complete	1235	
3.cam segment complete	1234	
4.clamping arm complete	0190	
5.spring	1063	
6.body shaft	0088	



Model: LTVC

Product Code	Working Load Limit (t)*	LTVC Stock No.	Weight Each (lbs.)	Dimensions (in.)						
				Jaw A	B	C	D	E	G	
LTV05	0.5	1230116	4	0.63	1.03	5.31	5.2	1.14	2.02	0.44

* Ultimate load is 5 times the Working Load Limit.

C Model: LTVC

The LTVC drum clamp is for vertical lift and transfer. Automatically locks on drum, and can be used alone or in pairs.



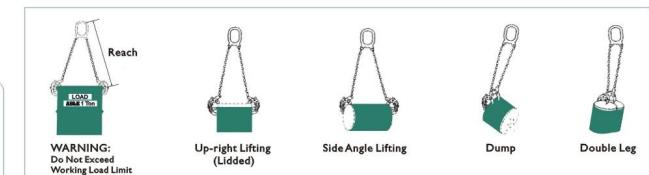
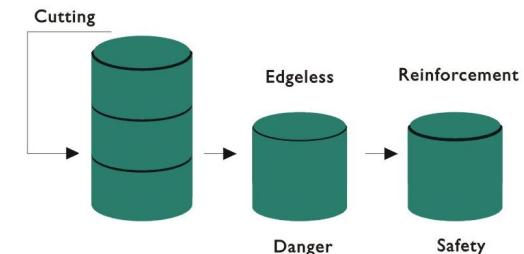
C Model: VDL



UNIVERSAL CHAIN DRUM LIFTER

Technical Specialities

- Safelift VDL has similar application as crane, electric hoist and chain hoist.
- Safelift VDL 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.
- Safelift VDL 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.



Product Code	Working Load Limit		Proof Test Load	Chain Size	Ring Size			Total Reach	Weight	
	Single	Double			Diameter	Length	Inside Dia.			
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



Website: www.ableforge.com



C
Model: HVP



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	Safe Working Load (Ton)	Height of Load (mm)	Lifting Height (mm)	Height of Claw in Lowest Position (mm)	Net Weight (kg)
HVP-1.5	1.5	725	350	70	13
HVP-3	3.0	725	350	75	20
HVP-5	5.0	725	300	70	27
HVP-10	10	800	300	90	47
HVP-16	16	950	400	95	64
HVP-20	20	950	400	95	73

WARNING

Inspection prior to use as per ABLE operating manual



The Ableforge steel Jack HVP is designed and developed for heavy industrial lifting applications, strictly in accordance with the latest safety standard DIN 7355.

Operation Guide

- Put the steel jack on even places. Then place the goods on the Lower Support Stand(4) or the Upper Support Stand (3). Shake the Level (2) clockwise to lift the goods, vice versa, the goods are lowered down.

(1) Base

(2) Level

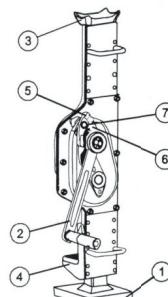
(3) Upper Support Stand

(4) Lower Support Stand

(5) Upper Ratchet Pawl

(6) Lower Ratchet Pawl

(7) Axle Ring



Attention

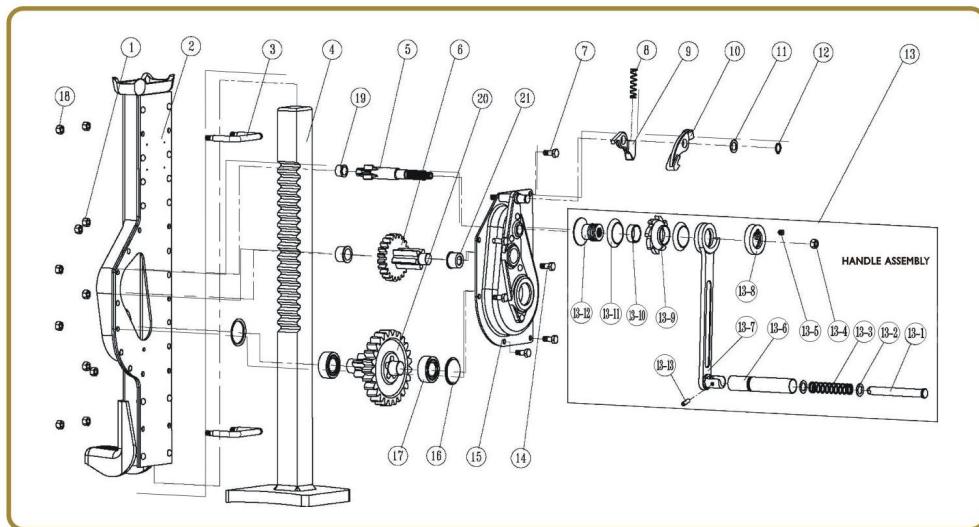
- Do not exceed the rated capacity. Overload is forbidden.
- Before operation, please check the flexibility of the Ratchet Pawls (5), (6).
- Please be sure the jack is on complete balance when operating. Do not put it on beveled, arc or uneven surfaces. The jack must be placed on hard plain grounds.
- Before lifting, please be sure the Support Stand (4) (3) supports the goods completely.
- When several jacks are used at the same time, please be sure of the same lift or down. The whole operation course should be directed.
- 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 Upper Support Stand (3) should be on bottom position when the jack is not used.



Website: www.ableforge.com



DETAILS OF SPARE PARTS DRAWING



ABLE
Mechanical Jack

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



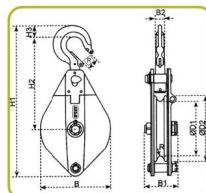
Website: www.ableforge.com



C
Model: HPB



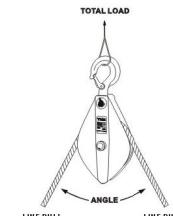
Single Sheave



HAND PULLEY BLOCK champin block

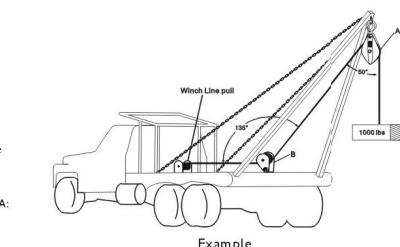
Technical features

- 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.

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

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 = 740 lbs.
 (line pull) (factor 135° angle)

Ableforge Hand Pulley Block Champin HPB Type

Product Code	Working Load Limit (Ton)	Hook Latch H mm	Rope Diameter mm	Dimensions mm								Weight kg	
				B	B1	B2	H1	H2	H3	D1	D2		
HPB 05	0.5	20	Φ5	95	62	16	260	190	20	75	83	3	2.0
HPB 10	1.0	23	Φ7	118	76	17	305	200	23	85	105	4	3.2
HPB 20	2.0	27	Φ13	119	92	24	425	263	30	150	190	7	7.3
HPB 32	3.2	31	Φ15	230	108	28	496	295	40	180	220	9	13.1
HPB 64	6.4	42	Φ18	270	116	35	655	375	47	210	260	10	22.1



Dallas 75229 - 1501, 11403 Mathis Dallas,
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Fax : +1 215 784 0343

Pullers, Winches & Bearing Swivels





Website: www.ableforge.com



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 aluminium 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



Conveyor being lifted into position with ABLE WRP.



ABLE WRP in operation for the positioning of heavy machinery.



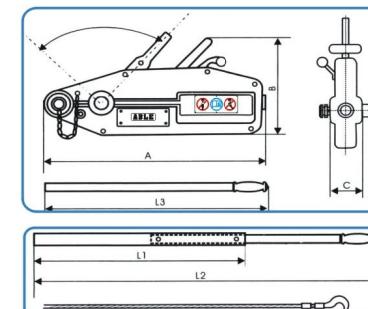
ABLE WRP used for steel alignment during erection.



Website: www.ableforge.com



C Model:WRP



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:

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

ABLE
Wire Puller

ABLEFORGEWRP SPECIFICATIONS

Product Code	WRP08	WRP16	WRP32	WRP54
Lifting Capacity (kg)	800	1600	3200	5400
Pulling Capacity (kg)	1300	2800	6000	10125
Test Load (kg)	1500	3000	6000	10125
Steel wire rope dia. (mm)	IWRC8.3	IWRC11	IWRC16	IWRC20
Wire rope safety factor load capacity (mm)	5 x WLL	5 x WLL	5 x WLL	5 x WLL
Breaking strength of wire Rope (kg)	5430	9680	17200	27000
Overall structure breaking Strength	4 x WLL	4 x WLL	4 x WLL	4 x WLL
Transmission speed rate per min.	3mtrs	3mtrs	3mtrs	3mtrs
Safety device	safety pins	safety pins	safety pins	safety pins
Net weight (without wire Rope) (kg)	6.4	12	23	56.5



Website: www.ableforge.com



C Model: RWP

ABLE STEEL WIRE ROPE PULLER

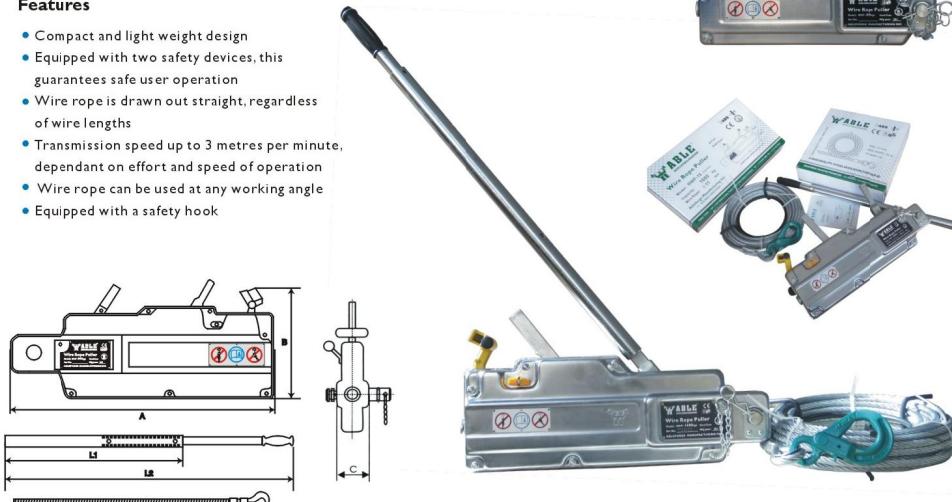
Mechanism

RWP is a 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 (kg)	Pulling Capacity (kg)	Travel per stroke (mm)	steel wire rope dia/length (mm)	safety factor	Net Weight without rope (kg)
RWP-08-20	800	1200	52	8 x 20m	5 x WLL	8
RWP-16-20	1600	2400	55	11 x 20m	5 x WLL	15
RWP-32-20	3200	4000	28	16 x 20m	5 x WLL	28

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



Website: www.ableforge.com

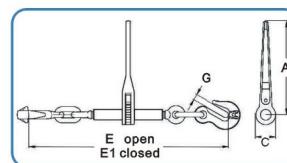


C Model: FRB

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



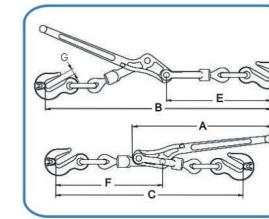
Product Code	SIZE (mm)	INCH SIZE	WLL (kg)	MBL (kg)	A	C	EI	E	G	WEIGHT (kg)
FRB-08	7.8	5/16-3/8	3800	8600	355	65	590	754	11	4.9
FRB-10	10	3/8-1/2	6000	12000	355	65	610	775	12	5.4
FRB-13	13	1/2-5/8	9000	18000	355	65	700	870	15	7.5

C 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	B	C	E	F	G	WEIGHT (kg)
FLB-08	7.8	5/16-3/8	3800	8600	400	614	510	287	285	11	3.85
FLB-10	10	3/8-1/2	6000	12000	441	702	572	325	324	12	5.80
FLB-13	13	1/2-5/8	9000	18000	518	858	705	395	391	15	9.35



Website: www.ableforge.com

Lifting with Confidence, Producing greater Output



Website: www.ableforge.com



C Model: HRP

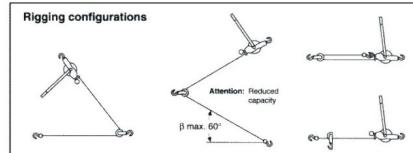


MINI HAND RATCHET PULLER

Specialties

INDUSTRIAL HAND RATCHET PULLER/HOIST

- Designed for electric wire pulling for field needs:
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(kg)	Wire Rope size	No. of Hook	N.W(kg)
HRP010	1000	Ø 5mm × 2.3mtr	Two	15(4pcs)
HRP015	1500	Ø 6mm × 2.3mtr	Two	16(4pcs)
HRP020	2000	Ø 6mm × 2.3mtr	Two	24(4pcs)

UNSHIELLED 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/mm²

- -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

C Model: UCG-A/B



Product Code	S.W.L	Conductor dia Recommended	N.W.
A-0500	0.5ton	1-10mm	0.25kgs
A-1000	1.0ton	5-20mm	0.35kgs
A-2000	2.0ton	7-20mm	1.20kgs
A-3000	3.0ton	16-32mm	2.50kgs

Product Code	S.W.L	Conductor dia Recommended	N.W.
B-0500	0.5ton	1-10mm	0.32kgs
B-1000	1.0ton	2-20mm	0.70kgs
B-2000	2.0ton	2-20mm	1.30kgs
B-3000	3.0ton	16-32mm	2.30kgs

C Model: BHW



ABLE BRAKE HAND WINCHES

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: BHW-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.



ABLE Hand Winches

C Model: BHW-S



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)
BHW- 800	180kg	370kg	14.5kg	21	3.7:1	4	36	TBA	3.0
BHW-1200	270kg	545kg	15.0kg	48	4.1:1	5	23	9	3.7
BHW-1800	410kg	820kg	22.0kg	60	5:1	7	24	TBA	8.1
BHW-2600	600kg	1200kg	19.0kg	75	10:1	8	18	7	10.3

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 (m)	Number of rope layers max.	N.W. c/w 5m SWR (kg)
BHW-1200S	270kg	545kg	15.0kg	48	4.1:1	5	23	9	3.3
BHW-2600S	600kg	1200kg	19.0kg	75	10:1	8	18	7	10.3

C Model: WH



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 AWSAS.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	0.40
WH30	3000	5	130 × 35	24 29 8 105 28	1.45
WH50	5000	5	160 × 45	30 37 10 132 47	2.50
WH80	8000	7	170 × 50	40 47 10 138 50	3.85



Website: www.ableforge.com



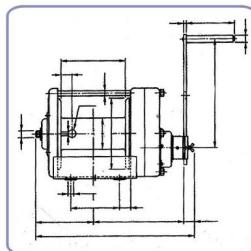
C Model: PNW



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.

Chrome Finish



Product code	Wire Cable Dia.	Capacity on/off layer	Drum Diameter	Required Effort	Drum Capacity	Can Wind Per Turn	Working Handle Length	Reduction Gear Ratio	Net Weight
PNW-100	φ 5.0mm	100kg.	48.0mm	11.5kg.	30m	166.5mm	240mm	1 : 1	6.9kgs.
PNW-300	φ 6.3mm	300kg.	60.5mm	11.0kg.	30m	72.8mm	350mm	2.88 : 1	11.6kgs.
PNW-500	φ 6.3mm	500kg.	60.5mm	12.0kg.	40m	48.4mm	350mm	4.33 : 1	13.0kgs.
PNW-1000	φ 8.0mm	1,000kg.	76.3mm	12.0kg.	40m	21.7mm	350mm	12.19 : 1	18.1kgs.
PNW-2000	φ 9.0mm	2,000kg.	89.1mm	13.0kg.	40m	13.6mm	350mm	22.68 : 1	24.0kgs.
PNW-3000	φ 12.5mm	3,000kg.	101.6mm	18.0kg.	40m	18.0mm	350mm	22.16 : 1	42.6kgs.

C Model: BC

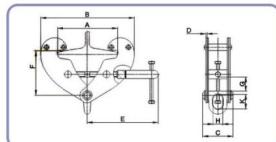


UNIVERSAL BEAM CLAMP

- 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	B	C	D	E	F	G	H	K			
BC1	1	75-230	240	192	367	94	4	218	155	103	20	30	45	4.2
BC2	2	75-230	240	192	367	102	6	218	155	103	20	30	45	5.1
BC3	3	80-320	330	243	491	132	8	258	223	157	47	45	63	10.4
BC5	5	80-320	330	243	491	142	10	258	223	157	47	45	63	12.2
BC10	10	90-320	330	259	501	180	12	293	235	175	56	64	95	18.8



Website: www.ableforge.com

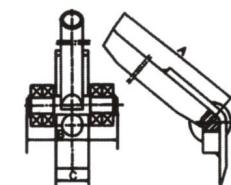


C Model: RC



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 (T)	Length	Max. Skate height	Roller diameter	Roller width	N.W. (kg)
RC 30	3	1400	110	50	33.5	7.0
RC 50	5	1500	110	71.5	38	11.0

ROLLER SKATES

C Model: RSA



Turnable with bearings; Friction Coefficient: 0.15 to 0.25

Product code	Capacity (T)	Wheel Number	N.W. (Kg)
RSA04	6	4	13.10
RSA06	8	6	15.80
RSA08	12	8	19.05
RSA12	18	12	38.10

Minimum turning circle is 3 meters

C Model: RSO



Fixed skate type; Friction Coefficient: 0.15 to 0.25

Product code	Capacity (kg)	Wheel Number	N.W. (Kg)
RSO 04	6	4	11.85
RSO 06	8	6	14.55
RSO 08	12	8	17.80
RSO 12	18	12	36.50

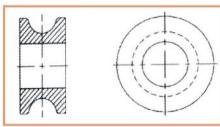
Minimum turning circle is 3 meters



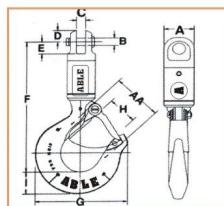
Website: www.ableforge.com



Swivel Pictures Display

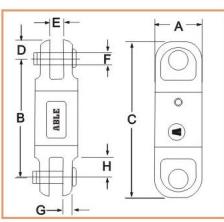


AV-20 Thimble Insert	AV-20 Stock No.
Wire Rope Size (mm)	
12.7	2011200
16.0	2011209
20.0	2011218
25.4	2011227
32.0	2011236
38.0	2011245



Working Load Limit (Tons)*	AV-1 JAWHOOK	Dimensions (mm)									Deformation Indicator AA		
		Wire Line Size (mm)	AV-1 Product Code	Weight Each (kgs.)	A	B	C	D	E	F	G	H	
1.0	7.0	AV1-JH-010	.69	33	09	08	11	14	138	80	25	21	1.50
2.0	10.0	AV1-JH-020	1.06	41	13	13	17	20	161	101	29	29	1.50
3.0	12.7	AV1-JH-030	2.99	50	19	19	24	30	221	123	36	36	2.50
5.0	16.0	AV1-JH-050	5.93	64	22	25	29	39	272	159	43	46	3.00
8.5	20.0	AV1-JH-085	12.14	76	30	39	34	53	347	219	61	66	4.00
10	22.4	AV1-JH-100	24.38	101	38	44	44	89	456	263	81	76	5.00
15	25.4	AV1-JH-150	24.38	101	38	44	44	89	456	263	81	76	5.00
25	32.0	AV1-JH-250	44.62	127	50	50	60	94	530	346	82	92	6.50
35	38.0	AV1-JH-350	64.40	127	50	50	60	94	610	357	76	116	7.00

* Ultimate Load is 2 times the Working Load Limit.



Working Load Limit (Tons)*	AV-2 JAW&JAW	Dimensions (mm)									Deformation Indicator HH	
		Wire Line Size (mm)	AV-2 Product Code	Weight Each (kgs.)	A	B	C	D	E	F	G	H
1.0	7.0	AV2-JJ-010	.41	33	90	113	11	8.0	9.0	06	14	
2.0	10.0	AV2-JJ-020	.92	41	103	138	17	13	13	07	20	
3.0	12.7	AV2-JJ-030	2.25	50	159	206	24	19	19	09	30	
5.0	16.0	AV2-JJ-050	4.41	64	197	270	29	25	22	13	39	
8.5	20.0	AV2-JJ-085	7.27	76	245	313	34	39	30	14	53	
10	22.4	AV2-JJ-100	18.40	101	355	444	44	44	38	20	89	
15	25.4	AV2-JJ-150	18.40	101	355	444	44	44	38	20	89	
25	32.0	AV2-JJ-250	35.88	127	404	525	60	50	50	29	94	
35	38.0	AV2-JJ-350	56.00	127	404	2069	60	50	50	29	94	

* Ultimate Load is 2 times the Working Load Limit.

ABLE VALUE PLUS BEARING SWIVELS

- Wide range of capacities available.
- Capacity: 1.0 through 35tons.
- Wire Rope Sizes: " 7.0mm to 38.0mm"
- Individually Proof Tested to 125% of the Working Load Limit with certification.
- MBL is designed to be 200% 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.



Website: www.ableforge.com

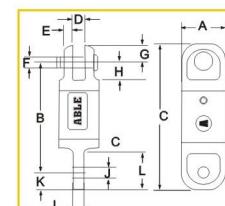


ABLE VALUE PLUS BEARING SWIVELS

- Designed for high rotation speed: Lower torque required to initiate rotation.
- Forged and Heat Treated load Hook with ABLE markings. Batch traceability and stretch indicators.
- Each swivel, 8.5 tons and larger is furnished with a pressure lubrication fitting.

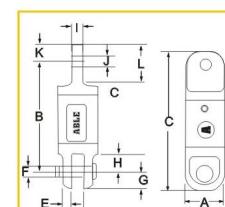
AV-20 Thimble Insert

- When terminating with wire rope clips, we recommend the use of the Thimble Insert.
- The result will be extended wire rope life.
- Allows standard swivel to be used in application requiring a thimble fitting.
- For use with our Bullet Style (AV-7) and Jaw Style (AV-1, AV-2, AV-3&AV-4) swivels.
- Machined from carbon steel. Chrome plated.



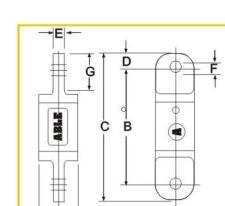
Working Load Limit (Tons)*	AV-3 JAW&EYE	Dimensions (mm)													
		Wire Line Size (mm)	AV-3 Product Code	Weight Each (kgs.)	A	B	C	D	E	F	G	H	I	J	K
1.0	7.0	AV3-JE-010	.34	33	94	116	8.0	6.0	9.0	11	14	8.0	9.0	11	22
2.0	10.0	AV3-JE-020	.87	41	106	138	13	7.0	13	17	20	13	17	16	35
3.0	12.7	AV3-JE-030	2.12	50	157	206	19	9.0	19	24	30	19	23	25	50
5.0	16.0	AV3-JE-050	4.18	64	200	259	25	13	22	29	39	25	32	30	67
8.5	20.0	AV3-JE-085	7.18	76	241	311	39	14	30	34	53	32	36	38	80
10	22.4	AV3-JE-100	17.94	101	349	440	44	20	38	44	89	50	41	46	119
15	25.4	AV3-JE-150	18.40	101	341	440	44	20	38	44	89	50	41	46	119
25	32.0	AV3-JE-250	35.88	127	406	527	50	29	50	60	94	57	59	60	133
35	38.0	AV3-JE-350	54.00	127	406	527	50	29	50	60	94	57	59	60	132

* Ultimate Load is 2 times the Working Load Limit.



Working Load Limit (Tons)*	AV-4 EYE&JAW	Dimensions (mm)													
		Wire Line Size (mm)	AV-4 Product Code	Weight Each (kgs.)	A	B	C	D	E	F	G	H	I	J	K
1.0	7.0	AV4-EJ-010	.34	33	94	116	8.0	6.0	9.0	11	14	8.0	9.0	11	22
2.0	10.0	AV4-EJ-020	.87	41	106	138	13	7.0	13	17	20	13	17	16	35
3.0	12.7	AV4-EJ-030	2.12	50	157	206	19	9.0	19	24	30	19	23	25	50
5.0	16.0	AV4-EJ-050	4.18	64	200	259	25	13	22	29	39	25	32	30	67
8.5	20.0	AV4-EJ-085	7.18	76	240	311	39	14	30	34	53	32	36	38	80
10	22.4	AV4-EJ-100	17.94	101	359	440	44	20	38	44	89	50	41	46	119
15	25.4	AV4-EJ-150	18.40	101	351	440	44	20	38	44	89	50	41	46	119
25	32.0	AV4-EJ-250	34.50	127	404	527	50	29	50	60	94	57	59	60	133
35	38.0	AV4-EJ-350	54.00	127	404	527	50	29	50	60	94	57	59	60	132

* Ultimate Load is 2 times the Working Load Limit.

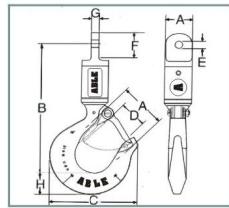


Working Load Limit (Tons)*	AV-5 EYE&EYE	Dimensions (mm)											
		Wire Line Size (mm)	AV-5 Product Code	Weight Each (kgs.)	A	B	C	D	E	F	G	H	
1.0	7.0	AV4-EE-010	.34	33	95	118	11	8.0	9.0	22			
2.0	10.0	AV4-EE-020	.87	41	472	141	17	13	17	35			
3.0	12.7	AV4-EE-030	2.12	50	156	206	24	19	23	50			
5.0	16.0	AV4-EE-050	4.18	64	197	270	29	25	32	67			
8.5	20.0	AV4-EE-085	7.18	76	236	313	34	32	36	80			
10	22.4	AV4-EE-100	17.94	101	353	444	44	44	50	41	119		
15	25.4	AV4-EE-150	18.40	101	336	444	44	44	50	50	119		
25	32.0	AV4-EE-250	34.50	127	406	527	60	57	59	59	133		
35	38.0	AV4-EE-350	52.00	127	457	527	60	57	59	59	133		

* Ultimate Load is 2 times the Working Load Limit.



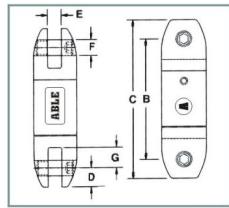
Website: www.ableforge.com



AV-6 Eye & Hook

Working Load Limit (Tons)*	Wire Line Size (mm)	AV-6 Product Code	Weight Each (kgs.)	Dimensions (mm)								Deformation Indicator AA
				A	B	C	D	E	F	G	H	
1.0	7.0	AV6-EH-010	.69	33	141	80	25	9.0	22	8.0	21	1.50
2.0	10.0	AV6-EH-020	1.33	41	158	101	29	17	35	13	29	1.50
3.0	12.7	AV6-EH-030	2.85	50	219	123	36	23	50	19	36	2.50
5.0	16.0	AV6-EH-050	5.70	64	273	160	43	32	67	25	46	3.00
8.5	20.0	AV6-EH-085	10.81	76	343	212	61	35	80	32	56	4.00
10	22.4	AV6-EH-100	23.92	101	459	263	81	41	119	50	76	5.00
15	25.4	AV6-EH-150	24.38	101	448	263	81	50	119	50	76	5.00
25	32.0	AV6-EH-250	43.24	127	530	346	82	59	133	57	91	6.50
35	38.0	AV6-EH-350	63.48	127	609	357	76	59	133	57	116	7.00

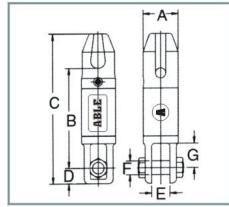
* Ultimate Load is 2 times the Working Load Limit.



AV-7 Bullet Style Jaw & Jaw

Working Load Limit (Tons)*	Wire Line Size (mm)	AV-7 Product Code	Weight Each (kgs.)	Dimensions (mm)							
				A	B	C	D	E	F	G	
1.0	7.0	AV7-BJJ-010	.50	33	90	113	11	8.0	9.0	9.0	14
2.0	10.0	AV7-BJJ-020	.83	41	103	132	16	13	11	20	
3.0	12.7	AV7-BJJ-030	1.75	50	138	179	25	19	16	22	
5.0	16.0	AV7-BJJ-050	3.68	64	197	255	30	25	22	39	
8.5	20.0	AV7-BJJ-085	6.67	76	238	314	38	33	25	54	
10	22.4	AV7-BJJ-100	18.40	101	334	425	46	44	38	82	
15	25.4	AV7-BJJ-150	20.00	101	334	425	54	44	38	82	
25	32.0	AV7-BJJ-250	38.64	127	404	527	60	60	50	94	
35	38.0	AV7-BJJ-350	55.00	127	404	527	60	60	50	94	

* Ultimate Load is 2 times the Working Load Limit.

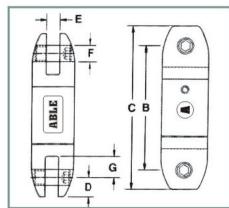


AV-11 Thimble & Jaw

Working Load Limit (Tons)*	Wire Line Size (mm)	AV-11 Product Code	Weight Each (kgs.)	Dimensions (mm)							
				A	B	C	D	E	F	G	
8.5	20.0	AV11-TJ-085	8.28	76	220	330	34	39	42	53	
15	25.4	AV11-TJ-150	19.32	101	296	445	44	45	38	89	

* Ultimate Load is 2 times the Working Load Limit.

- The ABLE AV-17 Slurry Swivel is a chrome plated Bullet Type Swivel(AV-7), designed with two rubber lip style seals about the shaft. The threaded cap is sealed with a silicone sealant and secured with a set screw. The swivels are provided with an Alemite grease fitting for easy lubrication.



AV-17 Bullet Style Jaw & Jaw Slurry Swivel

Working Load Limit (Tons)*	Wire Line Size (mm)	AV-17 Product Code	Weight Each (kgs.)	Dimensions (mm)							
				A	B	C	D	E	F	G	
8.5	20.0	AV17-BJJ-085	6.67	.76	2.57	3.21	.32	.33	.25	.54	
15	25.4	AV17-BJJ-150	18.40	1.01	3.43	4.32	.44	.44	.38	.82	
25	32.0	AV17-BJJ-250	38.64	1.27	4.10	5.31	.60	.50	.50	.94	
35	38.0	AV17-BJJ-350	52.00	1.27	4.10	5.31	.60	.50	.50	.94	

* Ultimate Load is 2 times the Working Load Limit.



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Chains and Chain Slings.



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Website: www.ableforge.com

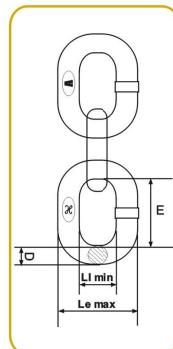


C Model: AW-8



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: 1.5%-20%
- Finish: Black Matted, Gold Galvanising or chrome coated
- Permanently Embossed with desired marking for easy identification and traceability



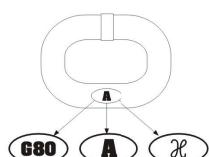
ALLOY CHAINS GR80

Product Code	CHAIN Dia (mm.) D	Inside Length (mm.) E	Outside Width (mm.) G	Inside Width (mm.) H	WLL Ton	Ultimate Load (Ton)	Weight App kg
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	0.80
AW-80-063	6.3	19.80	21.50	8.50	1.41	5.00	0.84
AW-80-07	7	21.00	22.75	9.00	1.41	5.00	1.10
AW-80-071	7.1	21.30	24.00	9.30	1.60	6.40	1.15
AW-80-08	8	24.00	26.00	10.00	2.00	8.00	1.40
AW-80-09	9	27.00	29.25	12.20	2.50	10.00	1.82
AW-80-10	10	30.00	32.50	13.30	3.20	12.80	2.20
AW-80-112	11.2	34.00	36.00	13.70	3.80	15.20	2.70
AW-80-13	13	39.00	42.25	17.50	5.00	20.00	3.70
AW-80-16	16	48.00	52.00	21.50	8.00	32.00	5.60

- German WAFIOS made all computerized automatic Knitting, Spot welding, calibrating and heat treatment machines and facilities are used for our daily Production.



Chain Link Mark options



G80 : Grade 80

A : ABLE brand

H : Grade 100

SUPER HIGH STRENGTH CHAIN GR.100

Product Code	CHAIN Dia (mm.) D	Inside Length (mm.) E	Outside Width (mm.) G	Inside Width (mm.) H	WLL Ton	Ultimate Load (Ton)	Weight App kg
AW-100-05	5	1/5	15.00	16.25	10.00	0.65	3.25
AW-100-06	6	1/4	18.00	19.50	12.00	1.00	5.00
AW-100-08	8	5/16	24.00	26.00	16.00	2.00	10.0
AW-100-10	10	3/8	30.00	32.50	20.00	3.20	16.0
AW-100-13	13	1/2	39.00	42.25	26.00	5.00	25.0



Website: www.ableforge.com



C Model: A-168



ABLE 8®Transport Boomer Chains

- Ends fitted with ABLE A-330 Quenched and Tempered alloy clevis grab hook.
- Finish - Self Colored or Black Matted.
- Meets or exceeds DOT and CVSA Cargo Securement Tie-Down Guidelines, November 2003.

Chain Size (in.)	A-168 Stock No	Working Load Limit (lbs.)	Standard Length (ft.)	Weight Each (lbs.)
1/4	168576	3150	20	16
5/16	168585	4700	20	25
3/8	168594	6600	20	34
7/16	168601	8750	20	45
1/2	168610	11300	20	60

C Model: A-188



ABLE 8®Alloy Boomer Chains

- Heat treated alloy steel.
- Ends fitted with ABLE A-330 Quenched and Tempered alloy clevis grab hook.
- Finish - Self Colored or Black Matted.
- Meets or exceeds DOT and CVSA Cargo Securement Tie-Down Guidelines, November 2003.

Chain Size (in.)	A-188 Stock No	Working Load Limit (lbs.)	Standard Length (ft.)	Weight Each (lbs.)
3/8	188889	7100	20	30.28
1/2	188898	12000	20	54.04

C Model: A-108



Winchline Tail Chains

- Hooks are Forged - Quenched and Tempered.
- Individually Proof Tested.
- ABLE 4® High Test Carbon Steel from 5/16" thru 5/8".
- ABLE 8® Alloy Steel from 3/4" thru 1-1/8".
- Meets or exceeds DOT and CVSA Cargo Securement Tie-Down Guidelines, November 2003.

Wire Rope Diameter (in.)*	A-108 Stock No	Working Load Limit (lbs.)	Length (in.)	No.of Links	Weight Each (lbs.)
5/16-3/8	1081473	5400	18	11	3.0
1/2-5/8	1081482	13000	18	7	6.2
3/4-7/8	1081511	34200	24	8	18.2
1-1 1/8	1081516	47700	18	5	21.2
1-1 1/8	1081525	47700	24	7	23.3



Website: www.ableforge.com



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.

- 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.



BINDER CHAIN GRADE 70 Type: BC70

Size	ASTM80			NACM90			MACM96			Pcs per Drum
	W.T. kg	WLL Id	MBS Id	W.T. kg	WLL Id	MBS Id	W.T. kg	WLL Id	MBS Id	
1/4" x 14'	5.0	3,150	12,600	4.5	3,150	12,100	4.5	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



TIE DOWN CHAIN Gr80, Type:TDC

Product Code	Chain dia	Length	N.W.
TDC-071-09	7.1mm	9FT	3.3kgs
TDC-080-09	8.0mm	9FT	4.2kgs
TDC-100-09	10.0mm	9FT	6.5kgs
TDC-130-09	13.0mm	9FT	10.8kgs
TDC-071-18	7.1mm	18FT	6.3kgs
TDC-080-18	8.0mm	18FT	8.5kgs
TDC-100-18	10.0mm	18FT	13.2kgs
TDC-130-18	13.0mm	18FT	21.6kgs

Model:TDC



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Tel : +1 215 657 3335
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Shackles

Safety Factor: 6 to 1
DNV & ABS Certified.



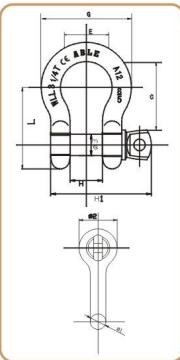


Website: www.ableforge.com



- 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 1/3 thru 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 impacte requirements of 42 joules at -20°C.

C Model: SPB

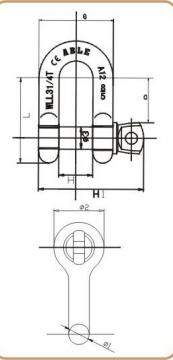


Forged Screw Pin Bow Shackle Type:SPB

Product Code	Nominal Size (in.)	WLL 6:1 Ton	Weight Kg	Dimensions (mm)								Tolerance +/−		
				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	0.09	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	0.14	17.00	12.30	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	0.22	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	0.33	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	0.62	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	1.07	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	1.64	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	2.30	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	4.31	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	6.01	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	8.03	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	13.79	75.00	50.00	178.00	45.00	128.00	121.00	218.00	192.00	228.00	6.35	3.30
SPB 050	2	35	20.43	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	40.00	107.00	70.00	269.50	63.50	186.00	145.00	313.00	284.00	317.00	6.35	3.30



C Model: SPD



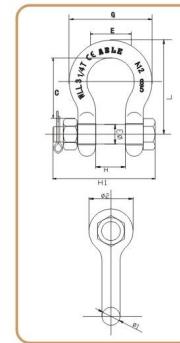
Forged Screw Pin Dee Shackle Type:SPD

Product Code	Nominal Size (in.)	WLL 6:1 Ton	Weight Kg	Dimensions (mm)								Tolerance +/−	
				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	378.00	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	0.20	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	0.30	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	0.58	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	1.02	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	1.43	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	2.16	43.50	31.75	81.80	26.50	60.00	96.50	104.00	137.00	6.35	1.50
SPD 028	1.1/8	9.1/2	3.06	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	4.11	53.00	35.00	102.00	32.00	76.00	117.00	131.00	160.00	6.35	1.50
SPD 038	1.1/2	17	7.24	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	12.14	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



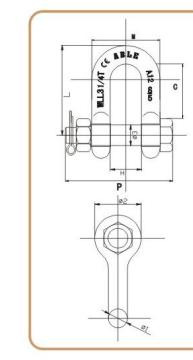
C Model: SBB



Forged Bolt Bow Shackle Type:SBB

Product Code	Nominal Size (in.)	WLL 6:1 Ton	Weight Kg	Dimensions (mm)								Tolerance +/−		
				H	φ3	C	φ1	E	φ2	G	L	H1	C	H
SBB 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
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	0.15	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	0.23	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	0.36	20.60	15.80	47.80	12.70	33.30	31.00	68.35	58.70	74.50	3.30	1.50
SBB 016	5/8	3.1/4	0.76	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	1.23	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	1.79	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	2.57	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	3.75	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	5.32	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	7.18	59.00	38.00	134.00	35.00	94.00	84.00	188.00	164.00	185.00	6.35	3.30
SBB 044	1.3/4	25	15.39	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	23.73	84.00	56.00	197.00	52.00	148.00	122.00	277.00	252.00	260.00	6.35	3.30
SBB 064	2.1/2	55	44.00	107.00	71.00	269.50	66.00	186.00	145.00	368.00	318.00	399.00	6.35	3.30
SBB 077	3	85	76.00	127.00	80.00	330.50	76.00	200.00	165.00	587.50	365.00	92.00	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 Kg	Dimensions (mm)								Tolerance +/−			
				H	φ3	C	φ1	φ2	C	L	M	P	C	H	
SBD 006	1/4	1/2	0.06	12.00	8.50	6.50	15.00	15.00	32.00	25.00	40.00	40.00	50.00	3.30	1.50
SBD 008	5/16	3/4	0.10	13.00	9.50	8.50	18.00	18.00	40.00	33.00	40.00	30.00	53.00	3.30	1.50
SBD 009	3/8	1	0.15	17.00	11.20	10.00	25.00	25.00	52.10	46.20	57.50	37.00	57.50	3.30	1.50
SBD 011	7/16	1.1/2	0.22	18.50	12.70	11.30	27.00	27.00	63.40	56.00	67.30	40.50	64.50	3.30	1.50
SBD 013	1/2	2	0.34	20.60	15										



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Hook Riggings & Connecting Link



Ableforge Greenline Riggings

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Website: www.ableforge.com



Model: MLW



MASTER LINK MLW

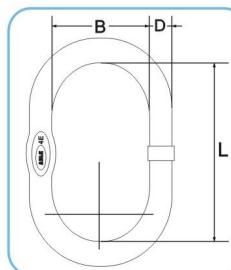
- High grade Alloy Steel (Quenched and Tempered) material
- Design Factor of 4 to 1 for chain and 5 to 1 for wire rope.
- Individually Proof Tested to 2.5 times the Working Load Limit (4:1), unless otherwise noted, with certification.
- Each link has a Product Identification Code (PIC) for material traceability, 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

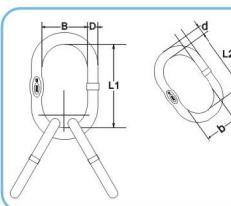
■ Use with 1 leg or 2 legs alloy chain grade 80



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-8-13	7	6	13	110	60	1.60	0.35
MLW-8-16	8	7	16	110	60	2.12	0.55
MLW-8-18	10	8	18	135	75	3.15	0.84
MLW-8-22	13	10	22	160	90	5.30	1.50
MLW-8-26	16	13	26	180	100	8.20	2.32
MLW-8-32	18	16	32	200	110	11.2	3.95
MLW-8-36	20	18	36	260	140	14.0	6.35
MLW-8-40	22	20	40	300	160	17.0	8.96
MLW-8-45	26	22	45	340	180	21.2	12.80
MLW-8-50	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-8-18	6 or 7	18	135	75	13	38	60	3.15	1.25
MLA-8-22	8	22	160	90	16	34	70	4.25	2.20
MLA-8-26	10	26	180	100	18	40	85	6.70	3.40
MLA-8-32	13	32	200	110	22	50	115	11.2	6.15
MLA-8-36	16	36	260	140	26	65	140	17.0	9.98
MLA-8-40	18	40	300	160	30	140	270	20.0	18.5
MLA-8-45	20	45	340	180	32	100	180	22.0	19.2
MLA-8-50	22	50	350	190	36	100	180	31.5	25.2



Website: www.ableforge.com



Website: www.ableforge.com



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



C Model: HSE

Technical Features

- Material is high grade alloy steel (quenched and tempered)
- Used with alloy chain grade 80 for lifting application
- Marked with Brand, WLL, Batch No. and Size
- 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



C Model: HSC

ABLEFORGED ALLOY SWIVEL HOOK, CONNECTING LINK

This Swivel hooks have all the features of an Ableforge Safety Hook, but with the added bonus of its swivel function. The swivel assists in the removal of sling leg twist, making it particularly suitable for high-rise lifting. The Able C Link's simple design allows instant assembly, dismantling and reassembly of dependably safe slings. Assembly only one chain or fitting to each C link body half. When reassembly a C link, we recommend you use a new pin and stud assembly. These are inexpensive and readily available.

Swivel Hook



C 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.
- Marked with ABLE, traceability, WLL, Batch No. and Size.
- 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.

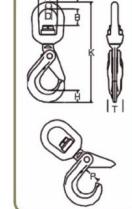
Connecting Link



C Model: LCT

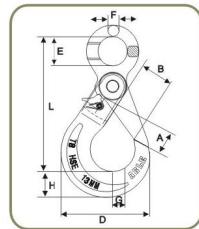
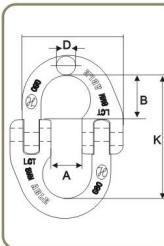
ALLOY SWIVEL SAFETY HOOK TYPE: HSA

Product Code	Working load limit	For grade 80 chain						Dimensions(mm)				N.W. kg
		Tonnes*	mm	K	P	B	A	D	T	H	kg	
HSA 006	1.2	6	149	29	22	31	12	15	21	0.6		
HSA 008	2.0	8	186	34	29	36	14	20	25	1.1		
HSA 010	3.2	10	220	44	34	40	16	26	31	2.0		
HSA 013	5.4	13	267	52	43	46	22	34	40	4.0		
HSA 016	8.0	16	328	60	52	60	24	41	52	6.8		
HSA 018	12.5	18,20	388	90	82	75	26	48	62	11.6		
HSA 022	15.0	22	457	80	95	97	33	49	63	16.0		



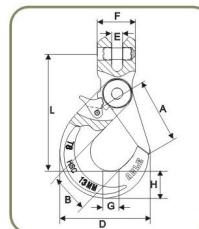
ALLOY CONNECTING LINK GRADE 80 TYPE: LTC

Product Code	Working load limit	For grade 80 chain						Dimensions(mm)				N.W. kg
		Tonnes*	mm	K	A	D	B	kg				
LCT 006	1.2	6	44	15	7	17	0.1					
LCT 008	2.0	8	59	18	9	22	0.2					
LCT 010	3.2	10	68	25	13	26	0.3					
LCT 013	5.4	13	91	30	16	35	0.7					
LCT 016	8.0	16	100	36	19	38	1.1					
LCT 018	12.5	18,20	122	42	23	46	1.7					
LCT 022	15.0	22	152	49	24	60	3.0					
LCT 026	21.2	26	162	55	31	62	4.6					
LCT 032	31.5	32	202	69	38	79	8.6					



ALLOY EYE SAFETY HOOK GRADE 80 TYPE: HSE

Product Code	Size mm	L mm	A mm	B mm	D mm	E mm	F mm	G mm	H mm	WLL 1:1 Ton	Weight kg
HSE 006	6	107	28	28	70	22	10.5	16	22	1.2	0.5
HSE 008	8	132	31	36	88	25	12	20	24	2.0	0.8
HSE 010	10	164	48	41	106	32	15	26	30	3.2	1.5
HSE 013	13	206	60	52	138	40.5	20	32	40	5.4	3.2
HSE 016	16	249	73	60	170	55	23	40	51	8.2	6.1
HSE 018	18	270	77	79	187	64	27	45	56	12.5	7.5
HSE 022	22	310	90	88	204	70	30	52	65	15.0	13.4

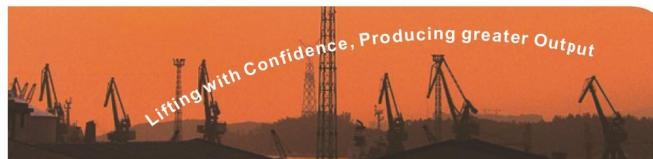


ALLOY CLEVIS SAFETY HOOK GRADE 80 TYPE: HSC

Product Code	Size mm	L mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	WLL 1:1 Ton	Weight kg
HSC 006	6	95	31	26	7.8	70	8.5	32	16	22	1.2	0.45
HSC 008	8	117	39	36	9.2	89	9	37	20	24	2.0	0.85
HSC 010	10	140	52	44	13.2	107	12	47.5	26	30	3.2	1.45
HSC 013	13	76	65	52	16.3	139	15	60	32	40	5.4	2.90
HSC 016	16	210	75	63	20.2	166	18	73	40	51	8.2	5.60
HSC 018	18	232	83	76	24.3	186	25	81	45	56	12.5	6.50
HSC 022	22	265	88	80	28.2	204	25.5	98	52	65	15.0	16.00



Website: www.ableforge.com



Website: www.ableforge.com



ABLEFORGED ALLOY STEEL GRAB HOOKS

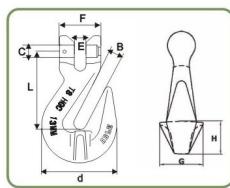
with its reinforced saddle for firmer hookups, less wear and with its nearly round section to resist or bending. The ABLE Grab Hook is particularly suitable for back - hooking.

Clevis Grab Hook



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

Model: HGC



Alloy Clevis Grab Hook Grade 80 Type: HGC

Product Code	Size mm	L mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	4:1 Ton	Weight kg
HGC 006	6	45	8	6.8	45.5	8	32	26.7	16	1.2	0.28
HGC 008	8	53.5	10.8	7	50	9.5	35	33.5	19	2.0	0.32
HGC 010	10	75	13.5	12.8	72	12.5	42.5	46	29	3.2	0.57
HGC 013	13	91	16.5	16.2	97	15	53	57.5	43	5.4	1.56
HGC 016	16	100	19.2	20	113	19.5	65	74	46	8.2	2.56
HGC 020	20	135	24	24.3	143	24	77	74	56	12.5	4.85
HGC 022	22	153	27	26.3	160	27	91	90	68.5	15.0	6.19

Technical Specialities

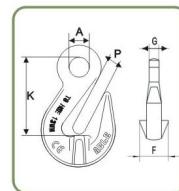
- Material is high grade alloy steel (quenched and tempered)
- Used with alloy chain grade 80 for lifting application
- Embossed with ABLE Traceability code,WLL & Product Code.
- Working load limit is 4:1
- Proof load is 2.5 times of work load Limit
- Fatigue rated is 1.5 times the WLL at 20,000 cycles
- 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: HGE



Alloy Eye Grab Hook Grade 80 Type: HGE

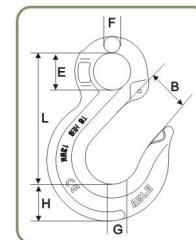
Product Code	Working load limit	For grade 80 chain	Dimensions(mm)				N.W.	
	Tonnes*	mm	P	A	G	K	F	kg
HGE 006	1.2	6	8	13	8	E1	30	0.2
HGE 008	2.0	8	10	15	9	60	30	0.2
HGE 010	3.2	10	12	20	13	84	41	0.6
HGE 013	5.4	13	16	25	15	102	52	1.2
HGE 016	8.0	16	20	30	20	114	57	2.3
HGE 020	12.5	18,20	23	36	23	132	98	4.6
HGE 022	15.0	22	27	38	26	157	110	8.2

Eye Sling Hook



The Spring is made of Stainless Steel Material to prevent rust

Model: HES



ABLEFORGED ALLOY STEEL SLING HOOKS

The Ableforged Sling Hook is a versatile, general purpose 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.

Technical Specialities

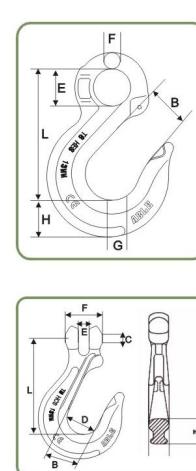
- Material is forged alloy steel (quenched and tempered)
- Large throat opening
- Anti - fouling due to carefully designed contours.
- Used with alloy chain grade 80 and wire rope for lifting application
- Embossed with ABLE, traceability, WLL, Batch Number and Size
- 100% 2.5 times of capacity proof 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	Size mm	L mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	WLL 4:1 Ton	Weight kg
HES 006	6	80	24	20	9	16.5	19	1.2	0.3		
HES 008	8	98	30	25	11	19.5	24	2.0	0.4		
HES 010	10	120	34	38	15	20	32	3.2	0.8		
HES 013	13	150	39	43	19	31	42	5.4	1.7		
HES 016	16	185	46	50	23	36	46	8.2	3.2		
HES 018	18	217.5	40	62	24	52	58	12.5	5.1		
HES 022	22	241	71	62	32	54	75.5	15.0	8.0		
HES 026	26	355	102	88	37	60	88	20.6	13.4		

ABLE Sling Hooks

ALLOY CLEVIS SLING HOOK GRADE 80 TYPE: HCS

Product Code	Chain Size mm	L mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	WLL 4:1 Ton	Weight kg
HCS 006	6	76	26	7.6	35	8.0	32.0	23.0	1.12	0.32	
HCS 008	8	85.5	29	9.0	37	9.5	37.0	32.5	2.0	0.52	
HCS 010	10	104	39	12.7	46	13.0	49.0	35.0	3.15	1.05	
HCS 013	13	128	47	16.0	56	16.5	56.5	42.5	5.3	2.0	
HCS 016	16	150	55	21.0	60	21.5	70.5	54.0	8.0	3.7	
HCS 018	18	180	61	24.0	79	24.0	77.0	58.0	12.5	6.0	
HCS 022	22	213	72	26.0	101	27.0	91.0	62.0	15.0	10.4	



Website: www.ableforge.com



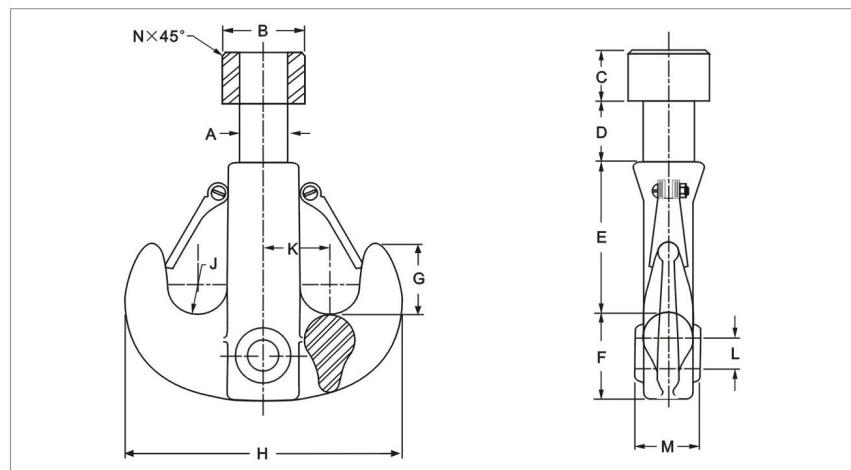
ABLE® Duplex Hook Assemblies

Forged alloy steel Cr40.

Available in cast alloy steel upon normal request.

Can be machined to optional dimensions upon request.

Furnished complete with two flipper latches.



Stock No. Hook Assembly	Size (tons)	ABLE Hook with Nut and Latches Dimensions (in.)												Weight Each (lbs.)	Replacement Latch Kit Stock No.	
		A	B	C	D	E	F	G	H	J	K	L	M			
127384	25	2.50	4.00	2.50	3.00	7.50	4.31	3.50	13.75	1.50	3.25	2.06	2.75	.12	62	1090143
126802	50	3.00	4.88	3.00	3.25	10.00	5.50	5.00	18.50	2.00	4.25	2.81	3.75	.25	136	1090189
137373	75	4.00	7.50	4.00	4.00	13.50	8.00	6.50	25.00	2.50	5.50	3.31	4.62	.25	311	1090223
137364	100	5.00	9.00	5.00	5.50	16.00	9.00	9.00	30.00	3.00	6.75	3.81	5.00	.25	532	1090223
137266	125	5.00	9.00	5.00	5.50	19.00	10.00	9.00	31.50	3.00	7.50	4.31	5.25	.25	844	1090223
137355	150	6.00	10.00	6.00	6.00	19.00	10.00	9.00	31.50	3.00	7.50	4.31	5.25	.12	844	1090223
137346	200	7.00	12.00	6.00	8.25	20.50	12.75	10.50	36.50	3.50	8.00	4.81	6.75	.25	1085	1090241
137337	250	8.00	14.00	7.00	9.00	23.75	14.00	11.75	40.00	3.75	8.75	5.12	8.00	.25	1635	1090241
137328	350	8.00	15.50	8.00	10.00	24.00	16.00	12.00	42.25	4.25	10.25	7.16	9.50	.25	2423	143080
2022897	500	10.00	18.00	8.25	16.75	26.50	18.50	12.25	45.00	4.50	10.00	7.16	9.50	.25	3300	8022575
137319	600	10.00	18.00	8.25	8.75	25.00	18.00	14.00	51.00	5.00	11.00	7.94	9.75	.25	3120	143071

For additional information concerning the demand of ABLE products, contact:

In South American region ----ABLE Latin America at 00511 2033888 e-mail:action@ablelatinoamerica.com

In Belarus ----ABLE Minsk at (+375)1716-7-56-69

In Europe ----N.VABLE Europe at 90-216-446-76-75

In Russia -----ABLE Samara at (846) 262-49-02 Fax:(846) 262-48-94

In Iran -----ABLE Tehran at 98-21-667-39-595 Fax:98-21-667-39-777

In Asia -----ABLE Singapore at 65-6259-9011 Fax:65-6259-8919

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In Australia -----ABLE Australia at(+61)73274 2700 Fax:(+61)73274 2600

In Peru -----ABLE Lima at (+51)12033888 e-mail:gaa@iftsaperu.com

In Ecuador -----ABLE Quito at (+593)225 0731 Fax:(+593)2256 6568



Website: www.ableforge.com



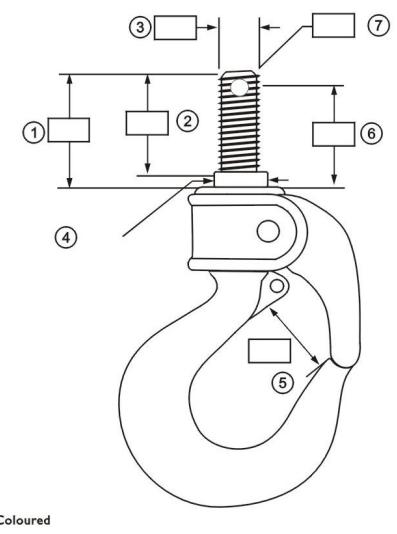
HOOK DATA FORM

Hook Size:	Name of Person Completing Form:
Sales Order:	
Working Load Limit (Tons)	Telephone:
Hoist Name and Model:	Distributor:
Top Hook <input type="checkbox"/>	Bottom Hook <input type="checkbox"/>
Is Self - Closing Gate Required? Yes <input type="checkbox"/> No <input type="checkbox"/>	
Accurate dimensions are important. If you have any questions, contact your authorized ABLE Distributor.	

■ Shank Length

1. Measure total US ABLE shank length from top of hook shank to top of gate assembly. Gate assembly is not considered part of the USABLE shank. When measure from the manufacturer's hooks, measure from the top of the hook shank to the hook shoulder.

2. Measure threaded portion (enter BLANK if threads not required).
NOTE: Hook is supplied with Steel Hex - Load Nut and Bronze Load Washer. Hook and Nut threads are National Coarse. If a SPECIAL Load Nut or Load Washer is required, attach a drawing to this form.



■ Shank Diameter

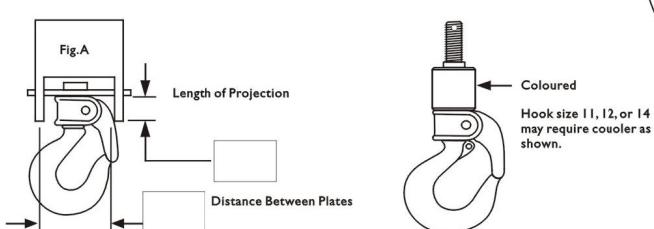
3. Measure width of threaded portion.
4. Measure width of blank portion.

■ Throat Opening

5. ONLY measure throat opening if this distance is critical to customer's operation.

■ Cross Hole in Shank Hooks (complete only if required)

6. Measure shank length from center of hole to top of gate assembly.
7. Measure diameter of hole.



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