



WORKMATES

SAFE LIFTING

SAFE LIFTING

GUANGDONG GONGYOU LIFT SLINGS MACHINERY CO.,LTD

BUSSINESS CENTER: Third Floor, Exhibition Center,
YanBu New Guangfo Hardware City, Guangfo RD,
FoShan, China

TEL:0086-20-81127188

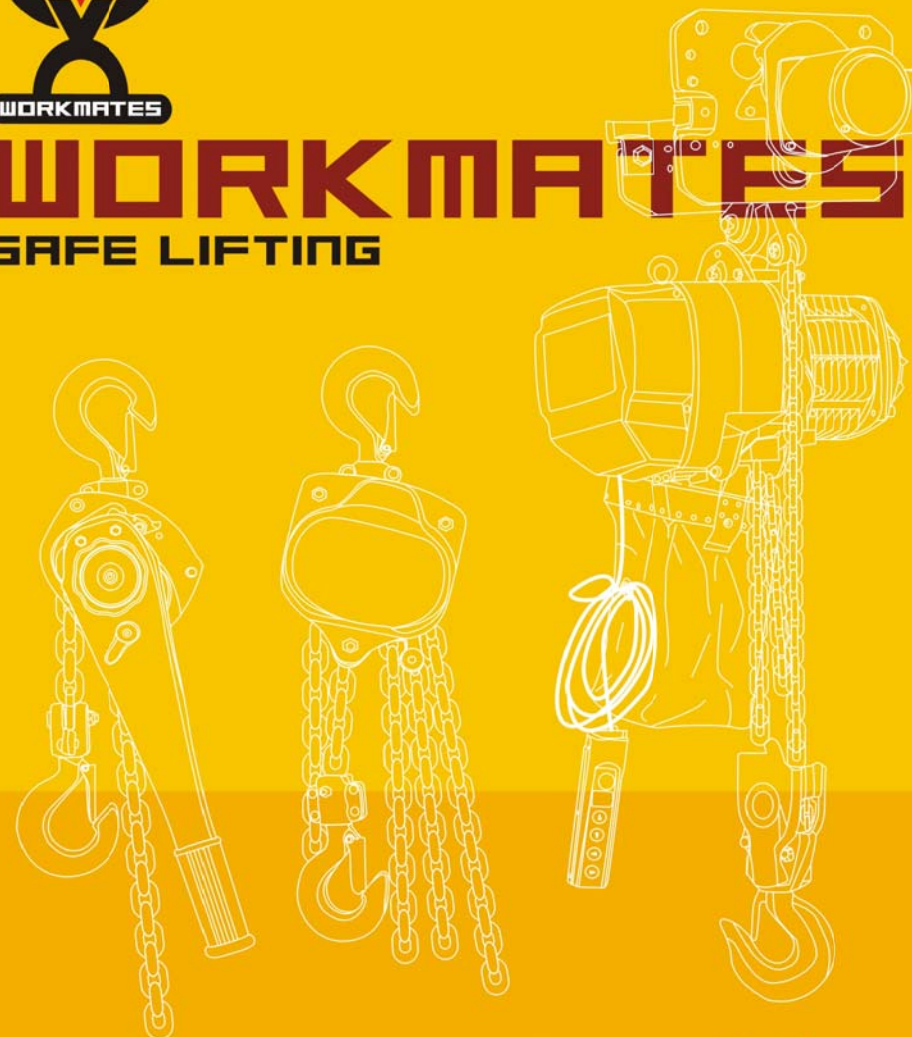
FAX:0086-20-89390709 MOB:+86-18902898151

FACTORY ADD: GONGYOU LIFTING bu
ssiness building , beicun road, huangqi town,
NanHai district, FoShan , China

HTTP://www.gongyougroup.com

EMAIL: ADMIN@GONGYOUGROUP.COM

Regional distributor:



GUANGDONG GONGYOU LIFT SLINGS MACHINERY CO.,LTD

SAFE LIFTING

Company Profile

GuangDong GongYou Lifting Slings Machinery Co.,Ltd was established in the beginning of 1995. We are located in the open city of GuangZhou China. It is a collective enterprise in research, production and sales of lifting machine.

GuangDong GongYou Lifting Slings Machinery Co.,Ltd is developed from former GuangZhou GongYou Lifting Factory. It is a modern enterprise in manufacturing of chain hoist, electric hoist, lifting slings, steel wire rope, rigging hardware and so on. The capability of production has reached more than 200,000 each year.

The great brands of our company that is WORKMATES, all the products series are warmly welcome in the world. Our products have been exported to more than 60 countries and regions throughout the world in Europe, America, Middle East, Australia, Southeast Asia, Africa etc. We have won a good reputation among our customers by providing high quality, safe and reliable products as well as fast and efficient services. All our products are produced under strict quality control. Most of our manufacturing plants are ISO9000 certified, and most of our products are TUV, CE, GS certified. We have been in this business for more than 10 years.

GongYou Theme: Quality first, takes innovative spirit, passionate service and high quality of products to our foreign customers.

CERTIFICATE



WORKMATES SERVICE & QUALITY CONTROL

Mission statement

1. To our customer

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

2. To our employee

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

3. 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.Zhao Zhen Jun

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 - WORKMATES will guarantee compliance to your country's National Standards - feel free to speak to us about your specific needs. All WORKMATES products are manufactured to ISO9001, ISO3077, EN13157, EN818-1 and Federal Specification.



WORKMATES BUSSINESS CENTER



WORKMATES SHOP



WORKMATES ELECTRIC CHAIN
HOIST



WORKMATES CHAIN BLOCK
HOIST



WORKMATES FACTORY



WORKMATES LIFTING SLING



WORKMATES WEBBING SLING

Directory

CHAIN HOIST 01-08



LEVER HOIST 09-12



ELECTRIC HOIST 13-19



LIFTING CLAMP 24-28



CRANE SCALE 50-52



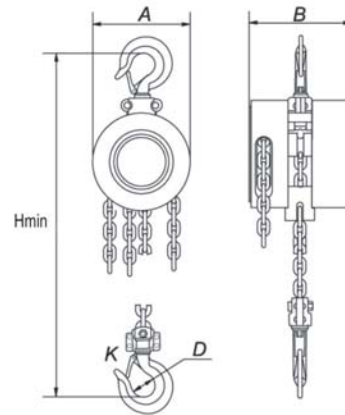
WORKMATES
SAFE LIFTING



CHAIN HOIST HSZ TYPE CHAIN HOIST

HSZ chain hoist is a kind of widely used and portable manual operating hoisting machine, it can be used in machine installation, products lifting, loading and unloading in industry, agriculture, construction and mineral production. It is suitable to be used in the open air and no electric power works.

Model: HSZ

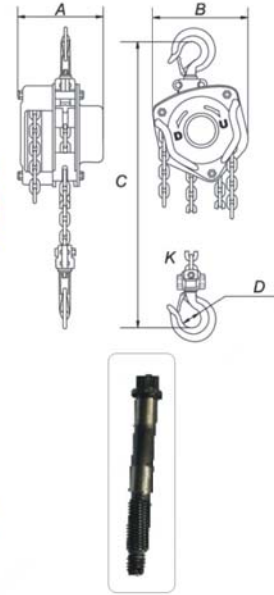


SPECIFICATION

Model	HSZ-0.5	HSZ-1	HSZ-1.5	HSZ-2	HSZ-3	HSZ-5	HSZ-10	HSZ-15	HSZ-20	HSZ-30
Capacity load(kg)	500	1000	1500	2000	3000	5000	10000	15000	20000	30000
Lifting height(m)	2.5	2.5	2.5	2.5	3	3	3	3	3	3
Number of falls	1	1	1	2	2	2	4	6	8	12
Load chain Diameter X Pitch	5x15	6x18	8x24	6x18	8x24	10x30	10x30	10x30	10x30	10x30
Force(n)	265	365	400	375	415	435	450	475	480	490
Net weight(kg)	8.6	12	17.5	20	35	40	75	117	164	400
Dimensions(mm)	A	122	146	175	192	205	282	358	415	705
	B	110	130	150	170	185	170	168	200	485
	K	24	28	33	36	39	45	65	85	85
	D	35	40	45	50	65	85	100	100	106
	Hmin	315	355	435	470	555	720	820	1040	1390

CHAIN BLOCK VC-A SERIES TECHNICAL BENEFITS

High-tech load chains are approved by DIN5684, 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. Bottom hook with thrust bearing. The thrust bearing enables the lifted load to be moved in any direction without subjecting it to stress. 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 sideways. Strong and least corrosive electrostatic powder painting. Wet friction discs with longer life. Meets requirement of EN13157. Load sheave with sealed roller bearing. Anchor plate avoiding overlowering.



Sealed roller bearing inside

TESTED ACCORDING TO EN13157-2004

Product Code	Capacity (t)	Standard Lift(m)	Test Load (t)	Pulling Efforts (kg)	Chain Fall No.	Load Chain Dia.(mm)	Dimensions(mm)				Net Weight (kg)
							A	B	C	D	
VC-A005	0.5	3.0	0.75	16	1	5.0	127	144	285	27	9.1
VC-A010	1.0	3.0	1.50	24	1	6.3	147	157	315	30	12.0
VC-A015	1.5	3.0	2.25	28	1	7.1	179	174	340	34	13.8
VC-A020	2.0	3.0	3.00	32	1	8.0	179	204	380	37	21.6
VC-A020A	2.0	3.0	3.00	30	2	6.3	147	174	380	37	20.4
VC-A030	3.0	3.0	4.50	32	2	7.1	179	206	475	43	21.0
VC-A050	5.0	3.0	6.30	36	2	9.0	179	263	635	46	37.5
VC-A100	10.0	3.0	12.50	38	4	9.0	179	367	760	67	59.5
VC-A150	15.0	5.0	18.80	38x2	6	9.0	207	754	850	84	125.0
VC-A200	20.0	5.0	25.00	38x2	8	9.0	207	873	870	96	145.6

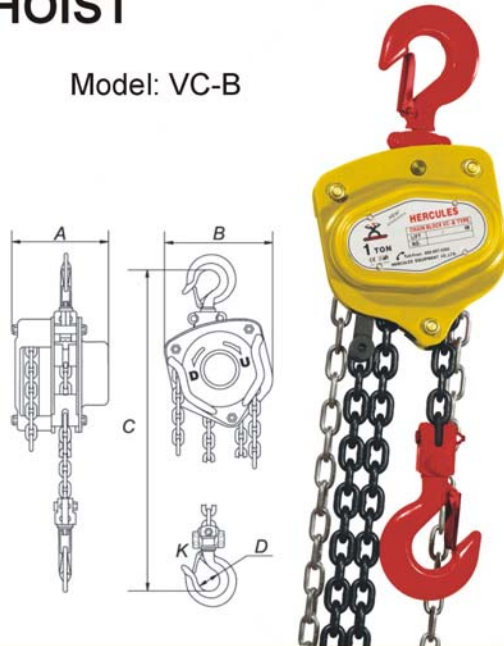
Individually proof load tested with individual serial number

VC-B TYPE CHAIN HOIST

One of best selling hoist
Capacity ranges from 0.5t to 20t, heavy duty 30t, 50t is available
Heavy duty and compact design to meet all pertinent work standard
Reliable disc brake, premium grade alloy load chain and zinc plated hand chain as standard
Drop-forged and expertly heat treated hooks for great strength and long wearing

1. Light weight robust construction;
2. Low effort to lift maximum load;
3. Fully forged hooks;
4. Fully machines lift wheel;
5. ISO high grade alloy chain;
6. Zinc plated hand chain as standard;
7. Double cover protection;
8. Durable baked enamel paint protection;
9. Overload protection device available upon request.

Model: VC-B



SPECIFICATION

Model	VC-B0.5	VC-B1	VC-B1.5	VC-B2	VC-B3	VC-B5	VC-B10	VC-B20	VC-B30	VC-B50
Capacity load(t)	0.5	1	1.5	2	3	5	10	20	30	50
Standard lift(m)	2.5	2.5	2.5	3	3	3	3	3	3	3
Running testload(kn)	7.5	15	22.5	45	45	62.5	125	250	375	625
Effort required to lift max load(N)	200(20.5)	320(32.5)	360(36.5)	365(37)	385(39)	435(44.3)	435(44.3)	435x2(44.3x2)	435x2(44.3x2)	435x2(44.3x2)
Load chain diameter number of falls(mm)	6.0x1	6.0x1	8.0x1	8.0x1	8.0x2	10.0x2	10.0x4	10.0x8	10.0x12	10.0x22
The distance of hand chain pulling when lifting height go up 1meter (mm)	32	40	72	72	144	158	316	636x2	948x2	1738x2
Net weight(kg)	8.4	11	16.2	18.5	25.6	42.8	79.5	193	220	1092
Extra weight meter of extra lift(kg)	1.7	1.7	2.3	2.3	3.7	5.6	9.7	19.4	26.4	48.4
Dimensions(mm) A	131	140	161	161	161	186	207	215	350	406
B	127	158	187	187	210	253	398	650	680	962
C	270	317	399	414	465	636	798	890	1380	2578
D	35	40	45	50	58	64	85	110	110	170
K	30	34	38	41	48	52	64	85	85	130
Packing measurement (L*W*H)(cm)	22x15x19.5	23x18x19.5	28x21x24	28x21x24	32x21x26	40x21x21	64x21x21	64x38x64	72x50x68	110x100x130

CHAIN BLOCK CK SERIES

TECHNICAL BENEFITS

Superior Grade 100 load chain-WAFIOS link, Din standard.

Forged and heat treated load hooks with batch traceability 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.

Forged safety latch with manufacture.

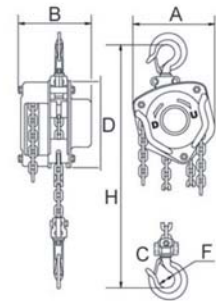
Individually proof load tested to 1.5xWLLwith individual serial number.

Light weight yet durable
Steel frame construction is rugged yet light weight and easy to handle.

Low maintenance
Enclosed housing allows outdoor use. The load brake requires no lubrication.



Model: CK



TESTED ACCORDING TO EN13157-2004

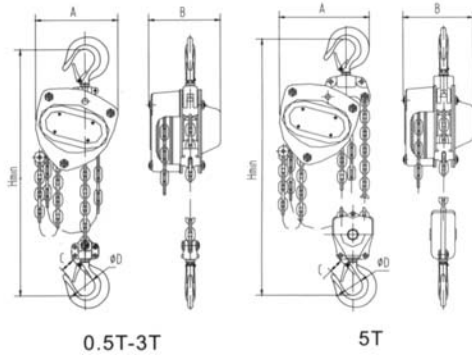
Product Code	Capacity (t)	Standard Lift(m)	Test Load (t)	Pulling Efforts (kg)	Chain Fall No.	Load Chain Dia.(mm)	Dimensions(mm)				Net weight (kg)
							A	B	C	D	
CK005	0.5	3.0	0.75	22	1	6	125	111	24	134	8.1
CK010	1.0	3.0	1.50	31	1	6	147	126	28	154	11.2
CK015	1.5	3.0	2.25	35	1	8	183	141	34	192	15.3
CK020	2.0	3.0	3.00	30	1	8	215	163	38	224	17.1
CK030	3.0	3.0	4.50	35	2	8	183	141	38	192	18.0
CK050	5.0	3.0	7.50	39	2	10	215	163	48	224	21.7
CK100	10.0	3.0	12.50	41	4	10	360	163	64	224	65.2
CK200	20.0	5.0	25.00	41x2	8	10	585	191	82	224	194.0
CK300	30.0	5.0	37.50	47x2	12	10	705	485	75	285	458.0

Tested according to EN13157-2004

VC-C TYPE CHAIN HOIST

1. Automatic double pawls braking system;
2. Brand light weight robust construction;
3. Low effort to lift maximum load;
4. Fully forged hooks;
5. Fully machines lift wheel;
6. ISO high grade alloy chain;
7. Zinc plated hand chain as standard;
8. Double cover protection;
9. Durable baked enamel paint protection;
10. Overload protection device available upon request.

Model: VC-C

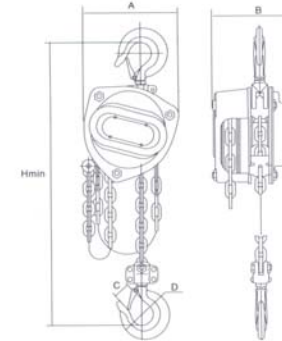


SPECIFICATION

Model	VC-C025	VC-C050	VC-C100	VC-C150	VC-C200	VC-C300	VC-C500
Capacity(kg)	250	500	1000	1500	2000	3000	5000
Lifting height(m)	2.5	2.5	2.5	2.5	2.5	3	3
No of falls of load chain	1	1	1	1	1	1	2
Load chain diameter & No. of falls(mm)	4x12	5x15	6x18	7x21	8x24	10x30	10x30
Hand chain	5x23.7-18						
Chainpull to lift full load(N)	235	240	250	265	335	372	380
Net weight(kg)	6.5	9.3	12.2	16.5	19.5	32	43
Dimensions (mm)	A	121	148	172	196	210	255
	B	114	132	151	173	175	189
	C	19	23	26	29.5	34	37.5
	D	31	35	40	45	50	55
Hmin	280	345	376	442	470	580	690

VC-D TYPE CHAIN HOIST

1. VC-D type, robust all steel construction;
2. Capacity ranges from 0.5t to 10t;
3. Brand heavy duty and compact design to meet all pertinent world standard;
4. Reliable disc brake, premium grade alloy load chain and zinc plated hand chain as standard;
5. Drop-forged and expertly heat treated hooks for great strength and long wearing.



Model: VC-D



SPECIFICATION

Model	VC-D025	VC-D050	VC-D100	VC-D150	VC-D200	VC-D300	VC-D500	VC-D1000
Capacity(t)	0.25	0.5	1.0	1.5	2	3	5	10
Standard lift(m)	2.5	3	3	3	3	3	3	4
Running Testload(kn)	3.1	6.2	12.5	18.7	25	37.6	62.5	125
Chainpull to lift full load(N)	190	200	275	343	387	416	375	392
Number of falls of load Chain	1	1	1	1	1	2	2	4
Load chain diameter(mm)	4	5	6	7.1	7.1	8	9	9
Dimensions (mm)	A	104	117	133	178	155	164	164
	B	100	100	121	150	154	197	253
	C	230	285	325	390	395	450	768
	D	30	36	38	48	48	64	85
	K	23	27	28	35	40	50	64
Net weight(kg)	5	8.5	11	16	18.5	24	37	73.5
Packing measurement(L*W*H)(cm)	17x13x12	22x15x19.5	23x18x19.5	28x18x19.5	28x21x24	32x21x26	40x21x31	50x41x21
Extra weight per meter of extra lift(kg)	0.9	1.36	1.57	2.17	2.3	3.2	4.6	8.2

CHAIN BLOCK VE360° -NEW CONCEPTION CHAIN HOIST

Chain Hoist Revolution

1. This innovative and patented hand chain hoist the WORKMATES VE360° is designed for heavy industrial applications.

2. This VE360° rotating hand chain guide allows hoist operations from various angles and helps the operator stay out of the danger zone.

3. Premium brake system ensures safe operation, low maintenance and is extremely quiet.

4. Sealed roller bearings

Easy to install

Compact design and low headroom make the Series simple to install even in confined working areas. No adjustments necessary.

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 ensure proper fit of chain over pocket wheel.

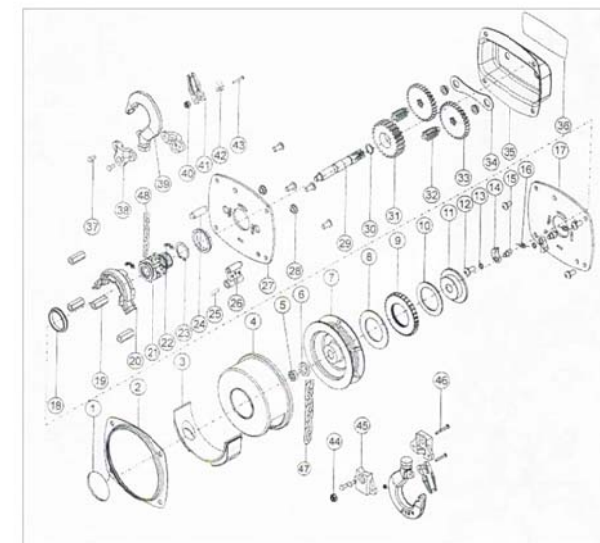
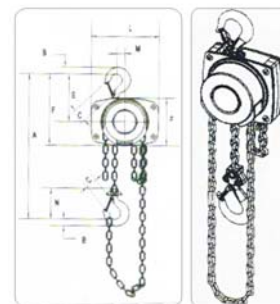
4. Two-stage gear reduction with hardened gears and pinion.



Model: VE360°

Item No.	Load Rating (t)	Lift (m)	Net Weight (kg)	Hand Chain Pull to lift Rated Load (kg)	Hand Chain Overhauled Lift Load One Foot(m)	Dimensions(mm)					
						A	B	C	D	E	F
2623	1/2	2.50	8.9	19.95	9.14	300	17.5	25	12	160	134
2624		3.00	9.5								
2625		6.00	10.8								
2626	1	2.50	13.0	24.49	14.93	355.6	22.2	28.6	14.3	176	155.6
2627		3.00	13.9								
2628		6.00	15.8								
2629	2	2.50	20.0	33.56	21.64	395	30	35	20.6	203	182.6
2630		3.00	21.6								
2631		6.00	24.6								
2635	3	2.50	27.1	41.73	26.51	520	38	39.7	25.4	224	220
2636		3.00	30.6								
2637		6.00	35.9								

Exploded spare parts drawing



VE360° 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	Stay pin	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	2	Nut
13	2	Spring washer	29	1	Driving shaft	45	1	Bottom hook holder
14	2	Pawl	30	1	Spring washer	46	2	Bottom hook pin
15	2	Pawl pin	31	1	Splined gear	47	1	Hand chain
16	2	Pawl spring	32	2	Pinion shaft	48	1	Load chain

MINI LEVER HOIST

Technical Benefits

HSH 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 machine, lifting goods, dragging loads and tightening goods etc.

1. Superior Grade 100 load chain-chrome plated
2. Forged and heat treated load hooks with batch traceability and stretch indicators
3. Double pawls brake system
4. Asbestos free brake linings
5. 100% load tested to 1.5xWLL
6. Sealed roller bearings
7. 2000 cycle batch test
8. MBL of 400% of WLL

Real Differences

1. Easy Grip Handle

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

2. Completely Sealed Brake Section

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

3. Sealed Body

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

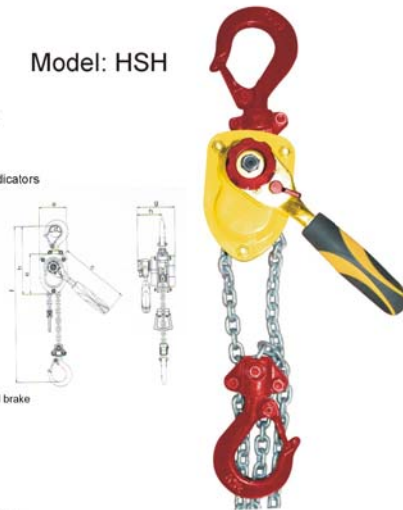
4. Easy to attach Hook

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

5. One-Touch Adjustment

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

Model: HSH



MINI HSH Specification

	250	500	750
Capacity (kg)	250	500	750
Standard lift (m)	1.5	1.5	1.5
Test load (kg)	375	750	1125
Hand-pull to lift (N)	260	260	200
Extra weight for one meter chain added (kg/m)	0.346	0.346	0.541
Load chain (dia X pitch) (mm)	4x12	4x12	5x15
Dimensions (mm)			
A	62	70	92
B	158	194	230
C	156	156	232
D	30	35	38
E	84	105	136
F	240	300	350
G	96	116	128
H	77	79	84
N.W./G.W. (kg)	2.15/2.2	3.1/3.2	4.75/4.85

VL LEVER HOIST SERIES

Technical Features

- One touch operation free chain adjustment
- Grade 80 alloy load chain ISO and JIS standard
- Forged and heat treated load hooks with batch traceability and stretch indicators

Idling operation

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 change lever in the down position. 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 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.



Model: VL



TESTED ACCORDING TO EN13157-2004

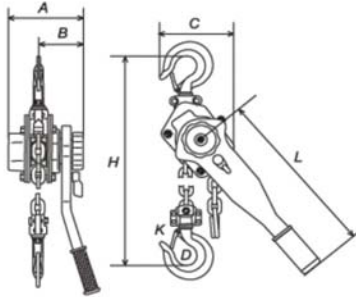
Product Code	Capacity (t)	Standard Lift (m)	Test Load (t)	Pulling Efforts (kg)	Chain fall No.	Load Chain Dia. (mm)	Dimensions (mm)					Net Weight (kg)
							A	B	C	D	E	
VL005	0.50	1.5	0.75	11	1	5	148	128	295	256	45	6.1
VL010	0.75	1.5	1.13	15	1	6.3	148	128	295	256	45	6.9
VL015	1.00	1.5	1.50	20	1	6.3	152	128	310	256	48	7.0
VL020	1.50	1.5	2.25	18	1	7.1	161	148	335	368	52	9.6
VL030	2.00	1.5	3.00	24	1	7.1	168	148	350	368	60	10.1
VL050	3.00	1.5	4.50	38	1	9	191	180	405	368	66	15.9
VL100	6.00	1.5	9.00	39	2	9	191	180	550	368	80	25.7

Individually proof load tested with individual serial number

VA LEVER HOIST SERIES

Technical Features

1. Superior Grade 100 load chain-WAFIOS link, Din standard.
2. Forged and heat treated load hooks with batch traceability and stretch indicators
3. 360° handle rotation with stroke to ratchet indicators
4. Double pawl brake system
5. Asbestos free brake Linings
6. Forged safety latch
7. Sealed roller bearings
8. 100% load tested to 1.5xWLL
9. MBL of 400% of WLL
10. 2000 cycle batch test



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

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

TESTED ACCORDING TO EN13157-2004

Product code	Capacity (t)	Standard Lift(m)	Test Load (t)	Pulling Efforts (kg)	Chain fall No.	Load Chain Dia.(mm)	Dimensions(mm)					Net Weight (kg)
							A	L	K	C	H	
VA050	0.50	1.5	0.75	10	1	5	148	280	45	96	325	5.9
VA075	0.75	1.5	1.13	14	1	6	148	280	45	96	325	6.6
VA100	1.00	1.5	1.50	16	1	6	148	280	48	96	325	6.6
VA150	1.50	1.5	2.25	22	1	8	172	410	52	110	380	10.8
VA200	2.00	1.5	3.00	26	1	8	172	410	60	110	380	11.1
VA300	3.00	1.5	4.50	32	1	10	195	410	66	145	480	18.2
VA600	6.00	1.5	9.00	34	2	10	195	410	80	145	480	28.1

Individually proof load tested with individual serial number

Model: VA



VALUE PLUS DESIGN THROUGH WORKMATES JHSS

Model: JHSS

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 vertical working position.

Galvanized steel wire rope mounted on a reel

Every rope is operationally tested to 150% of the rated capacity and issued with an individual test certificate.



Rope clamp system

Easily disengaged with a lever allowing smooth installation of the wire rope.

JHSS Specification

Item No.	JHSS08	JHSS16	JHSS32	JHSS54
Lifting capacity(kg)	800	1600	3200	5400
Pulling capacity(kg)	1300	2800	6000	10125
Tested to(kg)	1500	3000	6000	10125
Steel wire rope dia. (mm)	IWRC8.3	IWR11	IWRC16	IWRC20
Wire rope safety factor load capacity(kg)	5xWLL	5xWLL	5xWLL	5xWLL
Breaking strength of wire rope(kg)	5430	9680	17200	27000
Overall structure breaking strength(kg)	4xWLL	4xWLL	4xWLL	4xWLL
Transmission speed rate per min(m)	3	3	3	3
Safety device	Safety pins	Safety pins	Safety pins	Safety pins
Net weight (without wire Rope)(kg)	6.4	12	23	28

ELECTRIC HOIST

CD1 WIRE ROPE

ELECTRIC HOIST

1. Reducer: Third-class dead axel helical gear transmission structure is adopted; gear and gear axel are made of heat treated alloy steel; case and case cover with precise assembly and good seal are made of quality cast iron. The reducer is independent, so it's easy to load and unload it.
2. Control Box: It has device with up and down stroke protection of break off limiter and can cut off main circuit in an emergency, which ensures safe operation of electric block electric elements are of long service life and operational safety.
3. Steel wire rope: It uses GB1102-74(6x37+1) hoist steel wire rope which is durable in use.
4. Conical Motor: The hoist motor uses conical rotors of relatively stronger starting torque to brake asynchronous motor and F grade insulation and its grade of protection is IP44/IP54.
- 5 Button Switch: It's hand-operated, easy to handle, and has two modes of cord operation and cordless remote control.



Model: CD1

SPFCIFICATION

CD1/MD1(CD1Y/MD1Y)

Capacity(t)	0.5						1						2						3						5						10					
Jnorm Working Level	M3						M3						M3						M3						M3						M3					
Hoisting Height(m)	6	9	12	18	24	30	6	9	12	18	24	30	6	9	12	18	24	30	6	9	12	18	24	30	6	9	12	18	24	30						
Hoisting Speed (m/min)	8(8/0.8)						8(8/0.8)						8(8/0.8)						8(8/0.8)						8(8/0.8)						7(7/0.7)					
Operating speed (suspended type)(m/min)	20(20/6.7) 30(30/10)						20(20/6.7) 30(30/10)						20(20/6.7) 30(30/10)						20(20/6.7) 30(30/10)						20(20/6.7) 30(30/10)						20(20/6.7) 30(30/10)					
Multiplying power of Chain Wheel	2/1						2/1						2/1						2/1						2/1						4/2					
Type and power of Hoisting Electric Motor(kw)	ZDY11-4(0.8)						ZDY22-4(1.5)						ZD31-4(3)						ZDY32-4(4.5)						ZD41-4(7.5)						ZD51-4(13)					
(Motor type and power (suspended type)(kw)	ZDSI-0.2/0.8(0.2/0.8)						ZDS-0.2/1.5(0.2/1.5)						ZDSI-0.4/3(0.4/3)						ZDSI-0.4/4.5(0.4/4.5)						ZDSI-0.8/7.5(0.8/7.5)						ZDSI-1.5/13(1.5/13)					
Level of Protection	IP44		IP54				IP44		IP54				IP44		IP54				IP44		IP54				IP44		IP54				IP44		IP54			
Type of I-Steel Track	116a~128b						116a~128b						120a~145c						120a~145b						125a~163c						140a~163c					
Minimum Turning Radius(m)	1	1	1	1.8	2.5	3.2	1	1	1	1.2	1.8	2.5	3.2	1.2	1.2	1.5	2.0	2.8	3.5	1.2	1.2	1.5	2.0	2.8	3.5	1.5	1.5	1.5	2.5	3.0	4.0					
Net weight(kg)	35	40	55	75	185	180	195	190	205	220	235	255	250	265	300	320	345	380	590	630	650	700	750	800	820	870	960	1015	1090	1125						

PA ELECTRIC HOIST

PA electric hoist, also known as civil. Unloading for various occasions hanging a small piece of cargo. Simple structure, easy installation, small, and the use of single-phase power as a power source, use a wide range of this new type of electric hoist is widely used in mechanical manufacturing, electronics, automotive, shipbuilding, parts assembly and other modern high-tech industrial zone industrial production line, flow waterline, assembly machines, conveying and other occasions. In warehouses, docks, ingredients, basket narrow space and small work space operations, can show its good quality. It has emergency stop switch and forced open limit switch. The protection class is IP54, and has thermal protection device.



Model: PA

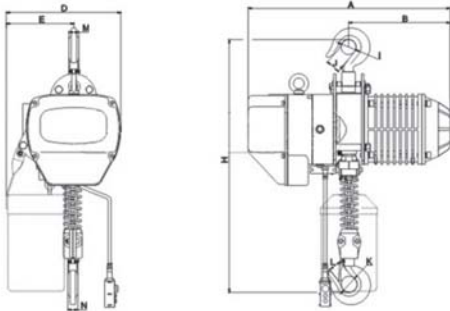
SPECIFICATION

Model	PA200	PA250	PA400	PA500	PA600	PA800	PA1000
Rated volt(V)			220/230V 50HZ		S320%10min		
Input Power(w)	450	500	750	900	1050	1300	1600
Capacity load(t)	100/200	125/250	200/400	250/500	300/600	400/800	500/1000
Lifting height(m)	12/6	12/6	12/6	12/6	12/6	12/6	12/6
Lifting speed (m/min)	10/5	10/5	10/5	10/5	10/5	10/5	10/5
Packing dimen-sions(cm)	44x38x20	44x37x25	44x37x25	44x37x25	53x45x19	53x28x35	53x28x35
G.W/N.W(kg)	24/22	25/24	25/33	36/34	41/38	38/36	40/38
Quan/CTM(pcs)	2	2	2	2	2	2	1

HHBB ELECTRIC HOIST

1. 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.
2. 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.
3. 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.
4. 24/36V device: It is used to prohibit the emergencies from occurring in case of the leakage in the switch.
5. Side magnetic braking device: This device shall realize the instant brake in case of the power dump.
6. Chain bag: It shall be light, handsome and durable.
7. Chain: The chain shall adopt the imported FEC80 ultra heat-treatable aluminum alloy chain.

Model: HHBB



Hoist with Electric Trolley

TECHNICAL PARAMETERS

Product Code	Capacity (t)	Lifting Height (m)	Lifting Speed (m/min)	Power (kw)	Rotation Speed (r/min)	Lifting Motor				Operating Motor				Voltage (v)	Frequency (hz)	I-Beam (mm)
						Phases	Voltage (v)	Frequency (hz)	Power (kw)	Rotation Speed (r/min)	Operating Speed (m/min)	Phases				
HHBB 0101	1	3/9	6.6	1.5	1440	3	220~440	50	0.4	1440	11/21	3	220~440	50	58~153	
HHBB 0151	1.5	3/9	8.8	3.0	1440	3	220~440	50	0.4	1440	11/21	3	220~440	50	82~178	
HHBB 0201	2	3/9	6.6	3.0	1440	3	220~440	50	0.4	1440	11/21	3	220~440	50	82~178	
HHBB 0202	2	3/9	3.3	1.5	1440	3	220~440	50	0.4	1440	11/21	3	220~440	50	82~178	
HHBB 0251	2.5	3/9	5.4	3.0	1440	3	220~440	50	0.75	1440	11/21	3	220~440	50	100~178	
HHBB 0301	3	3/9	5.4	3.0	1440	3	220~440	50	0.75	1440	11/21	3	220~440	50	100~178	
HHBB 0302	3	3/9	4.4	3.0	1440	3	220~440	50	0.75	1440	11/21	3	220~440	50	100~178	
HHBB 0303	3	3/9	2.2	1.5	1440	3	220~440	50	0.75	1440	11/21	3	220~440	50	100~178	
HHBB 0502	5	3/9	2.7	3.0	1440	3	220~440	50	0.75	1440	11/21	3	220~440	50	100~178	

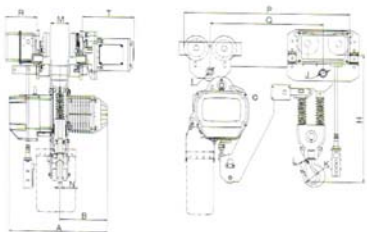
SIZE SPECIFICATION

Product code	Capacity (t)	Unit(mm)													
		H	A	B	D	E	I	K	L	N	E	U	R	T	Chain
HHBB0101	1	650	520	260	300	176	φ31	φ42	32	24	206	111	142	231	φ7.1
HHBB0151	1.5	770	615	295	430	265	φ36	φ49	40	30	237	127	142	231	φ10.0
HHBB0201	2	770	615	295	430	265	φ36	φ49	40	30	237	127	142	231	φ10.0
HHBB0202	2	815	520	260	300	236	φ36	φ49	40	30	237	127	142	231	φ7.1
HHBB0251	2.5	830	615	295	430	265	φ43	φ59	48	35	265	140	142	231	φ11.2
HHBB0301	3	830	615	295	430	265	φ43	φ59	48	35	265	140	142	231	φ11.2
HHBB0302	3	930	615	295	430	320	φ43	φ59	48	35	265	140	142	231	φ10.0
HHBB0303	3	940	520	260	350	205	φ43	φ59	48	35	265	140	142	231	φ7.1
HHBB0502	5	1015	615	295	430	325	φ54	φ60	48	43	297	156	142	231	φ11.2

Super-low Lifting Loop Chain Electric Hoist

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 fairly low buildings, especially suitable for use in temporarily erected plant buildings or on the sites where expansion of effective hoisting spaces inside the building is required.



TECHNICAL PARAMETERS

Product Code	Capacity (t)	Lifting Height (m)	Lifting Speed (m/min)	Power (kw)	Lifting Motor				Operating Motor				I-Beam (mm)		
					Rotation Speed (r/min)	Phases	Voltage (v)	Frequency (hz)	Power (kw)	Rotation Speed (r/min)	Operating Speed (m/min)	Phases		Voltage (v)	Frequency (hz)
HHBB0101	1	3/9	6.6	1.5	1440	3	220~440	50	0.4	1440	11/21	3	220~440	50	58~153
HHBB0151	1.5	3/9	8.8	3.0	1440	3	220~440	50	0.4	1440	11/21	3	220~440	50	82~178
HHBB0201	2	3/9	6.6	3.0	1440	3	220~440	50	0.4	1440	11/21	3	220~440	50	82~178
HHBB0202	2	3/9	3.3	1.5	1440	3	220~440	50	0.4	1440	11/21	3	220~440	50	82~178
HHBB0251	2.5	3/9	5.4	3.0	1440	3	220~440	50	0.75	1440	11/21	3	220~440	50	100~178
HHBB0301	3	3/9	5.4	3.0	1440	3	220~440	50	0.75	1440	11/21	3	220~440	50	100~178
HHBB0302	3	3/9	4.4	3.0	1440	3	220~440	50	0.75	1440	11/21	3	220~440	50	100~178
HHBB0502	5	3/9	2.7	3.0	1440	3	220~440	50	0.75	1440	11/21	3	220~440	50	100~178
HHBB0753	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 (t)	Unit(mm)													
		H	A	B	K	L	M	N	I	J	P	Q	R	T	Chain
HHBB0101	1	480	520	260	Φ42	32	56	24	Φ26	Φ31	630	445	142	231	Φ7.1
HHBB0151	1.5	570	615	295	Φ49	40	66	30	Φ31	Φ36	720	505	142	231	Φ10.0
HHBB0201	2	570	615	295	Φ49	40	66	30	Φ31	Φ36	720	505	142	231	Φ10.0
HHBB0202	2	535	520	260	Φ49	40	56	30	Φ31	Φ36	665	444.5	142	231	Φ7.1
HHBB0251	2.5	640	615	295	Φ59	48	73	35	Φ36	Φ43	775	526	142	231	Φ11.2
HHBB0301	3	640	615	295	Φ59	48	73	35	Φ36	Φ43	775	526	142	231	Φ11.2
HHBB0302	3	685	615	295	Φ59	48	66	35	Φ36	Φ43	750	503	142	231	Φ10.0
HHBB0502	5	740	615	295	Φ60	48	73	43	Φ43	Φ54	825	541	142	231	Φ11.2
HHBB0753	7.5	890	615	295	Φ85	80	73	55	Φ43	Φ54	1020	730	142	231	Φ11.2

HHXG TYPE ELECTRIC HOIST

Model: HHXG

Compact and high efficient motor

Dc brake system without asbestos, consumption of electricity reduced efficiently.

Hoist body

Pressing steel structure, high strength body, light and compact.

Most tensile safety hooks

Both the top and bottom hook made of high tensile alloy steel, with special treatment, it guarantee the hook will not break, and will deform gradually under a sudden extra-load.

Compact and beauty chain container

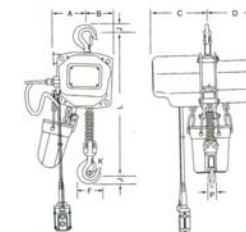
High strength plastic container have outstanding durability.

Limit switch devices

Fitted at both top and bottom ends, switch off power automatically to prevent load chain from running out.

Phase error relay

A specially designed current-post, prevents motor from running at incorrect wire connection.



SPFCIFICATION

Model	HHXG-0.5a	HHXG-1.0a	HHXG-2.0a
Capacity(t)	0.5	1.0	2.0
Lifting height(m)	3	3	3
Running test load(kn)	6.3	12.5	25
Motor power(kw)	0.8	1.1	1.1
No of columns of load chain	1	1	2
Load chain diameter(mm)	7.1	7.1	7.1
Lifting speed(m/min)	5.80	4.30	2.15
Dimensions(mm)	A	150	175
	B	112	90
	C	250	250
	D	245	245
	K	27	38
	Φ	45	65
	F	85	136
	J	17	36
	P	14	22
Net weight(kg)	L	550	770
		44	60

M6-W SERIES ELECTRIC CHAIN HOIST WITH MOTOR TROLLEY

1. Light weight, compact design and high efficient heavy duty motor enable high durability.
2. Electromagnetic brake and mechanical brake
Two brake systems respond instantly and dependable positive braking power, enable long service life.
3. First stage helical gear
First stage helical gearing provides a dependable and longer quieter life by reducing gear tooth impact and vibration to a minimum.
4. Limit switch devices: Fitted at both top and bottom ends, switch off power automatically to prevent load chain from running out.
5. Phase error relay: A specially designed current-post, prevent motor from running at incorrect wire connection.

Model: M6-W



Main dimension

Model	M6-W-05	M6-W-10	M6-W-20	M6-W-30	M6-W-50
A	265	285	335	335	335
B	265	285	335	335	335
C	152	152	195	195	247
E	106	106	127	127	93
F	20	25	30	36	43
H	B/2+230	B/2+285	B/2+335	B/2+340	B/2+340
I	B/2+230	B/2+285	B/2+235	B/2+240	B/2+245
J	127	127	159	180	204
Dimensions(mm) K	240	240	300	340	290
L	32-42	32-42	32-42	32-42	32-42
M	B-49	B-49	B-70	B-76	B-80
P	690	690	860	880	960
Q	220	220	235	235	290
S	3600	3600	3800	3800	3800

Specification

3-Phase,380V,50HZ/60HZ(Single Speed)

Model	Capacity (t)	Standard Lift(m)	Running Test Load(kn)	Motor Power (kw) 50hz/60hz	No.of Chain	Dia.of Chain (mm)	Lifting Speed (m/min) 50hz/60hz	Trolley Speed(m/min) 50hz 60hz	Beam Size(mm)	Net Weight (kg)	Extra Weight Per Meter Of Extra Lift (kg)
M6-W-05	0.5	4	6.25	0.83/10	1	7.1	8.6/10	20/10 24/12	75,100,125	84	1.1
M6-W-10	1.0	4	12.5	1.5/1.8	1	7.1	6.8/8.1	20/10 24/12	75,100,125	86	1.1
M6-W-20	2.0	4	25	1.5/1.8	2	7.1	3.4/4.0	20/10 24/12	100,125,150	94	2.4
M6-W-20S	3.0	4	25	2.5/3.0	1	11.2	6.7/7.9	20/10 24/12	100,125,150	153	2.2
M6-W-30	3.0	4	37.5	2.5/3.0	1	1.2	4.4/5.2	20/10 24/12	100,125,150	155	2.4
M6-W-50	5.0	4	62.5	2.5/3.0	2	11.2	2.6/3.1	20/10 24/12	100,125,150	183	4.8

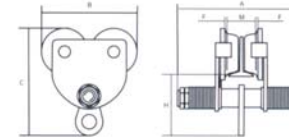
Means quick lifting speed

As our products incessantly being improved and developed, their structures may be slightly different from instructions.

TROLLEY SERIES

GCT-A SERIES PLAIN TROLLEY Model: GCT-A

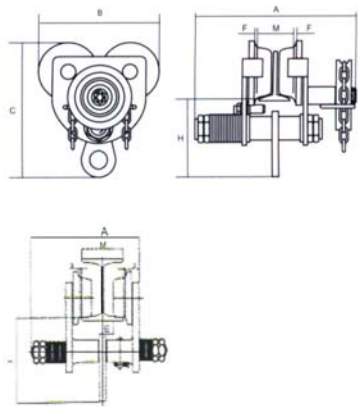
1. Extremely easy work-site installation.
2. Compatible with I-beam and H-beam rail.
3. High quality sealed ball bearings.
4. Can be supplied with anti-drop plates and anti-tilt device.
5. Easily travels over minor rail surface irregularities.
6. Extremely easy work-site installation.
7. For geared trolley,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



Model	Capacity(t)	Compatible Rail Size(mm)				Plain Trolley GCT-A Specification								Min.rotation Radius(mm)	Net Weight (kg)
		Width(W)		Height(H)		Dimensions(mm)									
		Min.	Max.	Min.	Max.	A	B	C	D	E	F	K			
GCT-A05	0.5	75	125	100	150	206	174	120	Φ45	Φ55	27	-	900	6.0	
GCT-A10	1	75	125	125	250	206	231	120	Φ45	Φ80	27	-	1300	10.0	
GCT-A20	2	100	150	150	400	241	271	155	Φ60	Φ100	33	-	1500	18.5	
GCT-A30	3	100	150	180	400	261	311	185	Φ70	Φ113	47	-	2000	26.0	
GCT-A50	5	125	175	250	450	294	351	220	Φ80	Φ125	53	-	2600	44.0	
GCT-A100	10	150	175	250	450	291	721	165	-	Φ125	53	-	-	96.0	

GCL-A SERIES GEARED TROLLEY

Model: GCL-A

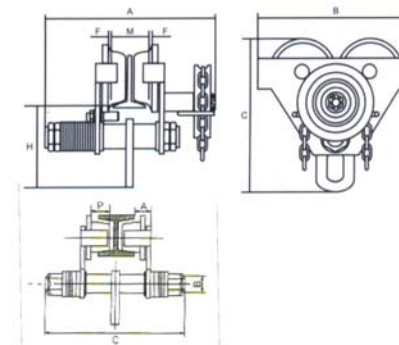


Model	Capacity(t)	Compatible Rail Size(mm)		Geared Trolley GCL-A Specification Dimensions(mm)									Min.rotation Radius(mm)	Net Weight (kg)
		Width(W)	Height(H)	A	B	C	D	E	F	G	H	I		
GCL-A10	1	75	125	125	250	206	231	120	Φ45	Φ80	27	117	1300	14.0
GCL-A20	2	100	150	150	400	241	271	155	Φ60	Φ100	33	119	1500	23.5
GCL-A30	3	100	150	180	400	261	311	185	Φ70	Φ113	47	134	2000	33.5
GCL-A50	5	125	175	250	450	294	351	220	Φ80	Φ125	53	134	2600	53.5
GCL-A100	10	150	175	250	450	294	721	165	-	Φ125	53	134	-	101.0

GCL-B SERIES GEARED TROLLEY

Model: GCL-B

1. Heavy duty construction with premium quality
2. Close headroom by design
3. Choose from either push or hand geared travel
4. Available to suit larger beam widths up to 310mm
5. Can be coupled closely to most hoists
6. Fitted with anti-drop plates for improved safety
7. 20 tons capacity available in geared trolley
8. Range of double pin trolleys also available

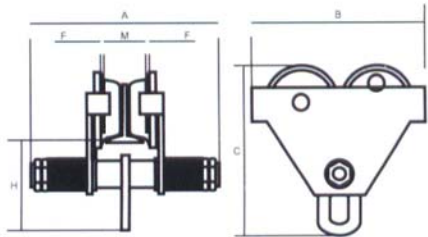


Model	Beam Flange		Geared Trolley GCL-B Series Specification																			N.W. (kg)
	Capacity (t)	Width (mm)	O	A	B	C	D	E	F	G	H	T	R	S	L	X	P	N	U	I		
GCL-B05	0.5	64-140	128	22	Φ24	230	212	Φ58	82	28	102	Φ44	6	95	15	12	26	10	24	113.5	12	
GCL-B10	1	64-140	172	25	Φ30	254	255	Φ75	102	25	118	Φ50	8	118	15	13.5	28	12	30.5	112.5	19	
GCL-B20	2	76-165	143	27	Φ36	294	302	Φ90	122	27	137	Φ60	10	145	20	16	34	14	36	112.5	28	
GCL-B30	3	76-203	212	31	Φ42	344	344	Φ110	142	32	157	Φ78	12	180	26	16	16	16	45	135	47	
GCL-B50	5	88-203	254	36	Φ48	360	378	Φ122	156	34	172	Φ90	16	220	35	17	20	20	60	136	58	
GCL-B100	10	125-230	320	46	Φ60	403	445	Φ151	188	35	200	Φ94	25	285	45	18	25	25	82	160	98	
GCL-B200	20	144-230	385	68	Φ60	475	642	Φ200	274	35	300	Φ94	30	302	70	37	60	35	110	151.5	185	

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

GCT-B SERIES PLAIN TROLLEY

Model: GCT-B



Model	Capacity (t)	Bean Flange Width(mm)	Plain Trolley GCT-B Series Specification																	Net weight (kg)
			Dimensions(mm)																	
			O	A	B	C	D	E	F	G	H	T	R	S	L	X	P	N	U	
GCT-B05	0.5	64~140	128	22	24	230	212	Φ58	82	102	28	Φ44	6	95	15	12	26	10	24	8.5
GCT-B10	1	64~140	143	25	30	254	255	Φ75	102	118	25	Φ50	8	118	15	13.5	28	12	30.5	13.5
GCT-B20	2	76~165	172	27	36	294	302	Φ90	122	137	27	Φ60	10	145	20	16	34	14	36	22
GCT-B30	3	76~203	212	31	42	344	344	Φ110	142	157	32	Φ78	12	180	26	16	16	16	45	40
GCT-B50	5	88~203	254	36	48	360	378	Φ122	156	172	34	Φ90	16	220	35	17	20	20	60	50
GCT-B100	10	125~203	320	46	60	403	445	Φ151	188	200	35	Φ94	25	285	45	18	25	25	82	90
GCT-B200	20	144~203	385	68	60	475	642	Φ200	274	300	35	Φ94	30	302	70	37	60	35	110	173

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

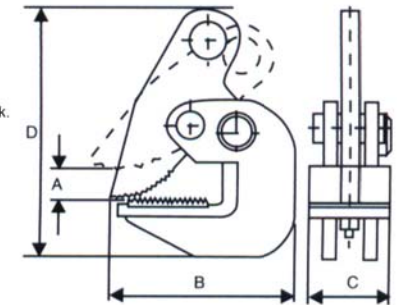
LIFTING CLAMP HORIZONTAL PLATE CLAMP PDB SERIES

Model: PDB

Technical Specialities

The PDB 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.

1. Wide variety of jaw openings available: 0~40 mm.
2. Individually proof tested to 200% of WLL with certification.
Serial number and Proof Load Test date stamped on body.
3. Serial number is included on the test certificate with maintenance and warranty logbook.
4. Manufactured by an ISO 9001 facility.



The PDB clamp is used for horizontal lifting and transfer of steel beams.

The base is slotted to allow the clamps to be used from end of beams as well as from the flange.

Item No.	WLL(t)		Test load(t)		Jaw opening (m)	Dimensions(mm)					Net weight (kg)
	Single	Double	Single	Double		A	B	C	D	E	
PDB075	0.75	1.50	1.13	2.25	0~25	25	125	50	175	Φ25	2.4
PDB150	1.50	3.00	2.25	4.50	0~25	30	157	65	204	Φ30	3.9
PDB250	2.50	5.00	3.75	7.50	0~40	50	231	90	310	Φ40	14.0

Model	PDB0.8	PDB1	PDB1.6	PDB2	PDB3.2	PDB4	PDB5	PDB6	PDB8	PDB10	PDB16	PDB30
WLL(t/2pc)	0.8	1	1.6	2	3.2	4	5	6	8	10	16	30
Jaw opening (mm)	0~25	0~30	0~30	0~40	0~45	0~50	0~55	0~130	0~130	0~140	50~150	100~270
Net weight (kg)	2.50	3.5	4	5	6	6.6	7.5	22	26	28	50	108

SV PLUS VERTICAL LIFTING CLAMP

Benefits

1. Long product life
2. Meets standard BS EN13155
3. Guaranteed performance
4. Embossed branding WORKMATES
5. All forged and heat treated parts
6. Safety and reliability with individual serial number
7. Easily disassembled and reassembled
8. Permanent PI code for good traceability

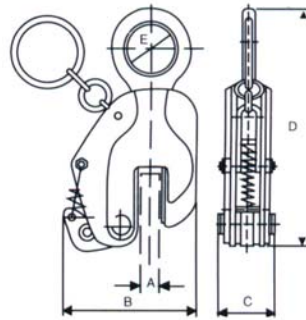
Applications

1. Standard CDH clamp is design 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.
2. 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

1. Shipyards
2. Subway sites
3. Construction sites
4. Metal production workshop

Max. load: 1~5 tons Range
Jaw Opening: 0~50mm
Safety factor: 6 times
Safety latch mechanism



Model: CDH



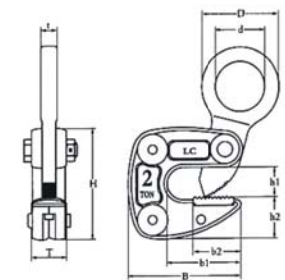
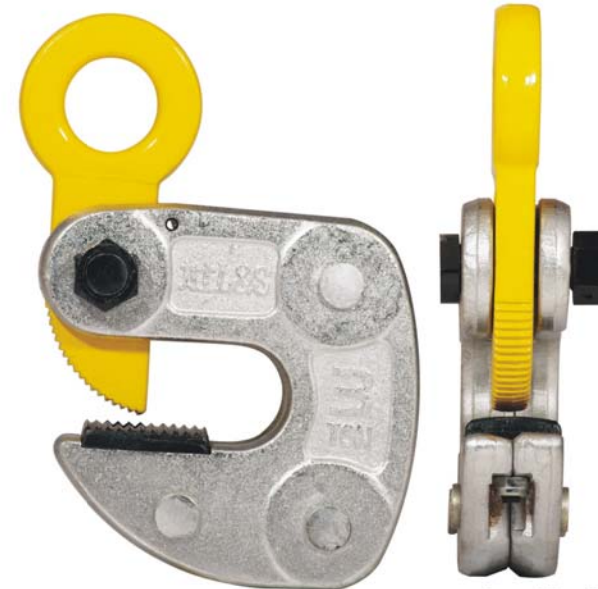
Technical Parameters

Item No.	WLL(t)	Opening(mm)	Dimensions(mm)										Weight(kg)
			A	B	C	D	E	F	G	H	I	J	
CDH1	1	0~22	24	32	123	46	22	274	29	142	52	12	4.5
CDH2	2	0~32	35	42	152	50	25	302	38	188	63	14	7.0
CDH3	3	0~36	38	48	170	58	35	360	45	203	68	19	11.0
CDH5	5	0~50	52	54	220	62	58	458	58	236	76	20	17.2

SV PLUS HORIZONTAL LIFTING CLAMP

This LC 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 (345HB).

Model: LC



Jaw and floor Material: 35Cr Mu Ti Meets standard BS EN13155

Working fields

1. At building construction field
2. At ship building field
3. Metal production workshop
4. At subway construction (civil engineering construction) sites

Safety technical features

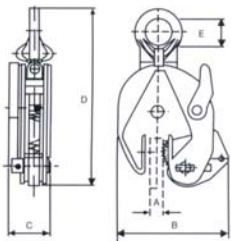
1. Embossed branding, PI code for good traceability and quality guarantee.
2. All forged parts with stock availability at any time.
3. High strength and durability with MBL of 500% of capacity, or better.

Item No.	WLL (t/pair)	Opening (mm)	L	t	T	Dimensions(mm)			B	b1	b2	D	d	Weight (kg)
						H	h1	h2						
LC1	1	1~13	166	12	32	100	22	36	102	64	42	70	46	2.1
LC2	2	3~22	235	16	40	132	33	46	130	84	56	92	56	4.7
LC3	3	12~35	276	18	44	178	40	66	172	92	70	82	42	8.4

PLATE LIFTING CLAMP

Technical Specialities

1. The universal vertical CD 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.
2. 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.
3. 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.
4. Clamps are fitted with special hook-up facilities to enable easy fitment of the clamp in horizontal position.
5. The new models have a greater jaw aperture enabling plates of varying thickness to be lifted with the same clamp.
6. 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.
7. This also guarantees a pre-load on the material being lifted.
8. The clamps are suitable for surface hardnesses up to 37 RC (345HB). Small overall dimension with a relatively high lifting capacity.
9. Overall forged structure with good traceability and the safety factor of 6 times.



Model: CD



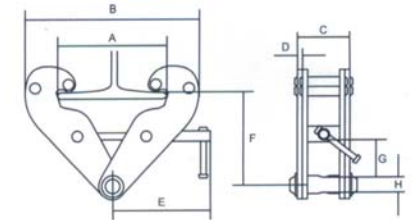
Jaw and floor Material: 35Cr Mu Ti Meets standard BS EN3155

UNIVERSAL BEAM CLAMP

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

OPTIONAL EXTRA

1. Can be supplied with shackle
2. Special design with flattened, reinforced jaws



Model: JG



Item No.	WLL (t/pair)	Opening (mm)	A	B	C	D	Dimensions(mm)				Weight (kg)
							E	F	G	H	
CD06	0.5	1.0	30	43	34.5	0~15	103	10	212	36	1.8
CD10	1.0	2.0	48	63	51	0~20	138	12	294	50	4.7
CD20	2.0	3.0	68	76	59	0~25	164	16	370	52	8.2
CD30	3.0	4.0	74	85	56	0~30	193	20	418	78	14.5
CD50	5.0	10.0	80	90	65	0~50	240	22	450	88	21.6
CD80	8.0	16.0	80	175	80	40~80	345	25	568	100	32.0

Item No.	Capacity (t)	Flange width (mm)	Dimensions(mm)													
			A Max.	Min.	B Max.	C	D	E	Max.	F Max.	G Min.	H	Max.	I Min.	N.W. (kg)	
JG1	1	75-230	246	186	350	66	4	215	90	90	44	14	14	21	4.1	
JG2	2	75-230	246	186	350	74	6	215	90	90	44	14	14	21	5.0	
JG3	3	80-320	320	232	455	102	8	255	143	143	75	30	30	34	10.4	
JG5	5	90-310	310	242	445	110	10	255	145	145	75	30	30	34	12.0	
JG10	10	90-320	320	268	480	118	12	275	133	133	66	34	34	35	18.8	

FORGED LEVER LOAD BINDER

Technical Specialities

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



Model: LLB

Min-Max chain size (in.)	WLL (lbs)	Proof load (lbs)	Min ultimate load (lbs)	Weight (lbs)	Handle length (in.)	Dimensions(in.)						
						H1	H2	H3	H4	H5	H6	H7
1/4-5/16	2600	5200	7800	3.52	11.42	18.5	17.3	14.17	11.42	8.27	8.07	0.35
5/16-3/8	5400	10800	19000	8.37	15.43	25.2	23.2	19.49	15.55	11.22	11.22	0.51
3/8-1/2	9200	18400	28000/33000	12.11/12.20	17.24	28.5	26.38	22.05	17.64	12.99	12.20	0.59
1/2-5/8	11000	22000	44000	19.7	21.00	33.86	30.12	25.78	20.87	14.37	14.37	0.74

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



Model: RLBH

Min-max chain size (in.)	WLL (lbs)	Proof load (lbs)	Min ultimate load (lbs)	Weight (lbs)	Handle length (in.)	Dimensions(in.)							
						L1	L2	L3	L4	L5	L6	L7	L8
1/4-5/16	2600	5200	7800	3.52	7.16	7.16	0.89	1.77	16.22	21.26	17.79	22.83	0.35
5/16-3/8	5400	10800	19000	10.50	13.42	13.92	1.30	2.60	22.64	30.64	25.25	33.24	0.51
3/8-1/2	9200	18400	33000	12.90	13.92	13.92	1.30	2.60	24.13	32.13	27.04	33.04	0.59
1/2-5/8	13000	26000	46000	14.38	13.92	13.92	1.30	2.60	26.45	34.45	30.07	38.07	0.74

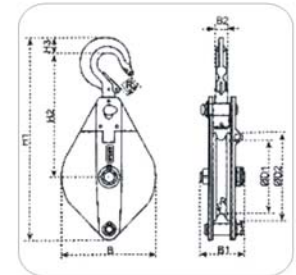
HAND PULLEY BLOCK

Technical Features

1. HQ, a UK design, is used to change the load line direction with a machined steel sheave.
2. Drop forged, heat treated swivel hook and latch with stretch indicator and identity code.
3. Can be furnished with bronze bushings or roller bearings.
4. Opening feature permits quick insertion and positioning of rope on the sheave.
5. Blocks can be securely locked by swinging the hook in the direction of pull.
6. Groove and sheave is made from high quality machined alloy steel to suit its intended rope diameter.
7. For use with steel wire rope and fibre rope.
8. Manufactured in accordance with European standard EN 13157:2003, and the machinery directive 98/37/EC.



Model: HQ



Hand Pulley Block Champion HQ Type

Model	WLL(t)	Hook Latch (mm)	Rope Diameter (mm)	B	B1	B2	H1	Dimensions(mm)			D1	D2	R	Weight (kg)
								H2	H3					
HQ05	0.5	20	Φ 5	95	62	16	260	190	20	75	88	3	2.0	
HQ10	1.0	23	Φ 7	118	76	17	305	200	23	85	105	4	3.2	
HQ20	2.0	27	Φ 13	119	92	24	425	263	30	150	190	7	7.3	
HQ32	3.2	31	Φ 15	230	108	28	496	295	40	180	220	9	13.1	
HQ64	6.4	42	Φ 18	270	116	35	655	375	47	210	260	10	22.1	

UNIVERSAL DRUM LIFTER

Technical Specialities

1. Safelift VDL has similar application as crane, electric hoist and chain hoist.
2. 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.
3. Safelift VDL is perfectly suited for use in: agriculture, food manufacturing, dock site, hospitality, cleaning, chemical, horticulture, pool/spa and general manufacturing.
4. Positive Lock-on rim grip action for hands free safety.
5. 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.

Model: VDL



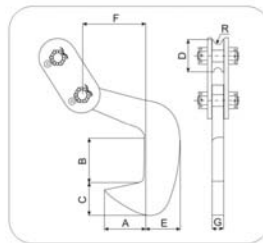
Model	WLL		Proof test load	WLL		WLL			Reach	Weight
	Single	Double		Diameter	Length	Dia.	Inside	Outside		
VDLI	500kg	1000kg	2000kg	6.3mm	516mm	13mm	66mm	93mm	690mm	3.6kg
	1100lbs	2200lbs	4400lbs	1/4"	20-1/3"	1/2"	2-3/5"	3-2/3"	27-1/6"	49lbs

PIPE HOOK

Technical Features

1. The PHT hook is designed for the horizontal lifting and transfer of concrete pipes or steel pipes.
2. These hooks must be used in pairs for safe handling

Model: PHT



Technical Parameters

Item No.	PHT10	PHT30	PHT50	PHT80
Capacity(t)	1.0	3.0	5.0	8.0
Proof load(t)	2.0	6.0	10.0	16.0

PALLET CLAMP

The WORKMATES pallet pullers are used to pull loaded pallets, slide heavy crates, etc., to edge of dock or truck, so it can be picked up with forklift truck. Variable jaw width grabs pallet securely and automatically releases. Rugged steel construction 2-3/4" high heads are self-cleaning and unaffected by wood particles, paint or grease. 1/4" proof coil chain included for attaching pull chain.

Model: PCT



PALLET CLAMP

Item No.	PCT10	PCT15	PCT20	PCT25
Capacity(t)	1	1.5	2	205
Beam width(mm)	30~100	30~180	30~200	30~135
Dimensions(mm)	A max	412	520	485
	A min	260	310	236
	B max	310	335	390
	B min	258	245	310
C	12	86	86	95
	16	20	20	22.5

ROLLER CROWBAR

Model: RC

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

1. Compact design
2. Easy to use
3. High efficiency
4. Safe handle



Model	Capacity(t)	Length	Max. Skate height	Roller diameter	Roller width	N.W.(kg)
RC30	3	1300	110	50	33.5	5.7
RC50	5	1500	110	71.5	38	8.2

ROLLER SKATES

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

HEAVY DUTY DESIGN

Minimum turning circle 3 meters



Item No.	Capacity(t)	N.W.(kg)
RSO04	6	12.8
RSO06	8	20.2
RSO08	12	26.1
RSO12	18	39.4

RSA TYPE CARGO TROLLEY

Turnable with bearings

Item No.	Capacity(t)	N.W.(kg)
RSA04	6	13.95
RSA06	8	20.8
RSA08	12	27.1
RSA12	18	42.45

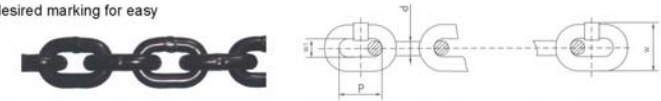


CHAIN AND CHAIN SLING

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.

1. Alloy steel Material, heat treated and proof tested
2. Safety Factor 4:1 (GR80) and 5:1 (GR100)
3. Produced from Quality Alloy Steel
4. Tougher and more reliable for lifting application
5. Minimum downtime operation
6. Finish: Black Matted, Gold Galvanized or chrome coated
7. Permanently embossed with desired marking for easy identification and traceability

ALLOY CHAINS TYPE AW-8



Item No.	Chain Dia. p (mm)	Inside Length P (mm)	Outside Width W (mm)	Alloy Chain GR80		WLL(t)	Ultimate Load(t)	Weight Approx(kg)
				Inside Width W1 (mm)				
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

Original Germany WAFIOS Knitting, Spot welding calibrating and heat treatment machines and facilities are used for our daily Production.

Item No.	Chain Dia.		Inside length (mm)	Outside width (mm)	Inside width (mm)	WLL(t)	Ultimate load(t)	Weight Approx(kg)
	mm	in.						
AW-100-05	5	0.20	15.00	16.25	10.00	0.65	3.25	0.53
AW-100-06	6	0.24	18.00	19.50	12.00	1.00	5.00	0.85
AW-100-08	8	0.31	24.00	26.00	16.00	2.00	10.0	1.46
AW-100-10	10	0.39	30.00	32.50	20.00	3.20	16.0	2.30
AW-100-13	13	0.51	39.00	42.25	26.00	5.00	25.0	3.82

A-168

WORKMATES Transport Boomer Chains

Ends fitted with A-330 Quenched and Tempered alloy clevis grab hook.

Finish - Self Colored



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

A-188

WORKMATES Alloy Boomer Chains

Heat treated alloy steel.

Ends fitted with A-330 Quenched and Tempered alloy clevis grab hook.

Finish-Self Colored

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

A-108

Winchline Tail Chains

Hooks are Forged - Quenched and Tempered.

Individually proof tested.

WORKMATES High Test Carbon Steel from 5/16" thru 5/8".

WORKMATES 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 (ft.)	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 / 8	1081516	47700	18	5	21.2
1-1 / 8	1081525	47700	24	7	23.3

GUIDE FOR SAFER AND LONGER USE OF SLING

DO

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

Do Not

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

Model: BC70



Size	Binder chain grade70 type: BC70									Pes per drum
	W.T.(kg)	ASTM80 WLL(ld)	MBS(ld)	W.T.(kg)	NACM90 WLL(ld)	MBS(ld)	W.T.(kg)	MACM96 WLL(ld)	MBS(ld)	
1/4" × 14'	5.0	3,150	12,600	4.5	3,150	12,100	4.5	3,150	12,600	50
1/4" × 16'	6.0	3,150	12,600	5.0	3,150	12,100	5.0	3,150	12,600	40
5/16" × 14'	7.5	4,700	18,800	7.0	4,700	18,800	7.0	4,700	18,800	35
5/16" × 16'	8.5	4,700	18,800	8.0	4,700	18,800	8.0	4,700	18,800	30
5/16" × 16'	9.5	4,700	18,800	9.0	4,700	18,800	9.0	4,700	18,800	30
5/16" × 20'	10.5	4,700	18,800	10.0	4,700	18,800	10.0	4,700	18,800	25
5/16" × 25'	13.0	4,700	18,800	12.0	4,700	18,800	12.0	4,700	18,800	20
5/16" × 30'	15.5	4,700	18,800	14.5	4,700	18,800	14.5	4,700	18,800	20
3/8" × 14'	10.5	6,600	26,400	9.5	6,600	24,700	10.0	6,600	26,400	25
3/8" × 16'	12.0	6,600	26,400	11.0	6,600	24,700	11.5	6,600	26,400	20
3/8" × 20'	15.0	6,600	26,400	13.5	6,600	24,700	14.5	6,600	26,400	20
3/8" × 25'	18.5	6,600	26,400	16.5	6,600	24,700	18.0	6,600	26,400	15

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

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

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

4. The Grab Hook

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

Model: TDC



Chain Dia.(mm)	Tie Down chain GR80 type: TDC Length(ft.)	N.W.(kg)
7.1	9	3.3
8.0	9	4.2
10.0	9	6.5
13.0	9	10.8
7.1	18	6.3
8.0	18	8.5
10.0	18	13.2
13.0	18	21.6

MASTER LINK

High grade Alloy Steel (Quenched and Tempered) material
Design Factor of 4:1 for chain and 5:1 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

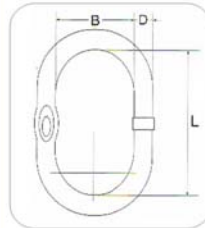


Type: MLA

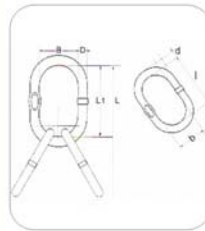


Type: MLW

Product Code	Size D (mm)	Alloy Master Link Grade 80 Welding Type: MLW		WLL 4:1 (t)	Weight (kg)
		Dimensions(mm)			
		L	B		
MLW-8-13	13	115	60	2.50	0.4
MLW-8-16	16	120	70	4.25	0.6
MLW-8-16A	16	170	100	4.25	0.80
MLW-8-20	20	170	90	6.70	1.30
MLW-8-22	22	170	90	8.20	1.60
MLW-8-22A	22	210	110	8.20	1.65
MLW-8-25	25	190	103	10.70	2.30
MLW-8-28	28	270	140	11.80	4.00
MLW-8-32	32	270	140	17.10	5.30
MLW-8-38	38	270	140	28.10	7.50
MLW-8-45	45	320	170	39.3	12.3



Product Code	Size D (mm)	Alloy Master Link Assembly Grade 80 Welding Type: MLA							WLL 4:1 (t)	Weight (kg)
		L	L1	B	d	b	I			
WLA-8-16	16	214	120	70	13	60	115		4.1	1.4
WLA-8-20	20	267	170	90	16	70	120		6.5	2.5
WLA-8-22	22	310	170	90	20	90	170		8.2	4.2
WLA-8-25	25	329	190	100	20	90	170		10.7	4.5
WLA-8-28	28	407	270	140	22	90	170		12.9	6.4
WLA-8-32	32	424	270	140	25	100	190		17.1	9.9
WLA-8-38	38	493	270	140	32	140	270		28.1	18.2
WLA-8-45	45	540	320	170	38	140	270		39.3	27.7



HOOK RIGGING & CONNECTING LINK ALLOY STEEL SAFETY HOOKS

The unique design of the 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.

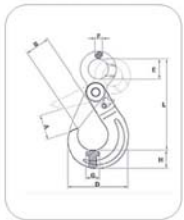


Type: HSE
Eye Safety Hook

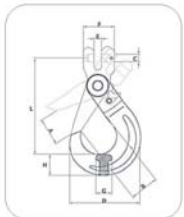


Type: HSC
Clevis Safety Hook

Item No.	Size (mm)	Alloy Eye Safety Hook Grade 80 Type: HSE								WLL 4:1 (t)	Weight (kg)
		L	A	B	D	E	F	G	H		
HSE006	6	107	28	28	70	22	10.5	16	22	1.2	0.5
HSE007	7	132	31	36	88	25	12	20	24	2.0	0.8
HSE010	10	164	48	41	106	32	15	26	30	3.2	1.5
HSE013	13	206	60	52	138	40.5	20	32	40	5.4	3.2
HSE016	16	249	73	60	170	55	23	40	51	8.2	6.1
HSE018	18	270	77	79	187	64	27	45	56	12.5	7.5
HSE022	22	310	90	88	204	70	30	52	65	15.0	13.4



Item No.	Size (mm)	Alloy Clevis Safety Hook Grade 80 Type: HSC								WLL 4:1 (t)	Weight (kg)
		L	A	B	C	D	E	F	G		
HSC006	6	95	31	26	7.8	70	8.5	32	16	1.2	0.45
HSC007	7	117	39	36	9.2	89	9	37	20	2.0	0.85
HSC010	10	140	52	44	13.2	107	12	47.5	26	3.2	1.45
HSC013	13	176	65	52	16.3	139	15	60	32	5.4	2.90
HSC016	16	210	75	63	20.2	168	18	73	40	8.2	5.60
HSC018	18	232	83	76	24.3	186	25	81	45	12.5	6.50
HSC022	22	265	88	80	28.2	204	25.5	98	52	15.0	16.00



ALLOY STEEL SWIVEL HOOK

This Swivel hooks have all the features of an 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.

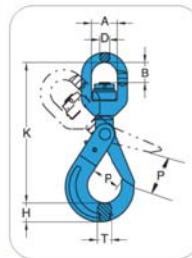
Technical Features

1. Material is high grade alloy steel (quenched and tempered).
2. Rated for both chain grade 80 and wire rope for lifting application.
3. Positive Lock Latch is Self-Locking when hook is loaded.
4. Marked with traceability, WLL, Batch No. and Size.
5. 100% 2.5 times of capacity proof load tested.
6. Ultimate load is 4 times of capacity.
7. Fatigue rated is 1.5 times the WLL at 20,000 cycles.

Bearing Swivel Hook
Type: HSB

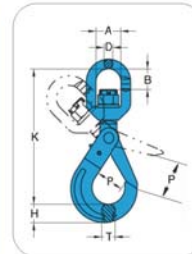


Swivel Hook
Type: HSA



Item No.	Working Load Limit(t)	For Grade 80 Chain(mm)	Alloy Swivel Safety Hook Type: HSA							N.W. (kg)
			Dimensions(mm)							
			K	P	B	A	D	T	H	
HSA006	1.12	6	149	29	22	31	12	15	21	0.6
HSA007	2.0	7.8	186	34	29	36	14	20	25	1.1
HSA010	3.15	10	220	44	34	40	16	26	31	2.0
HSA013	5.3	13	267	52	43	46	22	34	40	4.0
HSA016	8.0	16	328	60	52	60	24	41	52	6.8
HSA018	12.5	18.20	388	90	82	75	26	48	62	11.6
HSA022	15.0	22	457	80	95	97	33	49	63	16.0

Item No.	Working Load Limit(t)	For Grade 80 Chain(mm)	Alloy Bearing Swivel Safety Hook Type: HSB							N.W. (kg)
			K	P	Dimensions(mm)			H		
					B	A	D	T		
HSB006	1.12	6	136	24	23	32	11	16	19	0.6
HSB007	2.0	7.8	155	26	27	36	12	18	22	0.9
HSB010	3.15	10	189	36	37	42	16	23	29	1.5
HSB013	5.3	13	233	42	40	48	20	28	35	3.0
HSB016	8.0	16	280	50	55	60	22	35	44	5.1
HSB018	12.5	18.20	356	56	82	74	25	49	65	9.4
HSB022	15.0	22	354	70	63	80	28	50	74	11.8



ALLOY STEEL GRAB HOOKS

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

Technical Specialities

1. Material is high grade alloy steel (quenched and tempered)
2. Used with alloy chain grade 80 for lifting application
3. Embossed with traceability coed, WLL & Product Code.
4. Working load limit is 4:1
5. Proof load is 2.5 times of work load Limit
6. Fatigue rated is 1.5 times the WLL at 20,000 cycles
7. Clevis opening only allows correct size of Chain to be fitted
8. Narrow gap allows for full engagement in hook to prevent slip-off



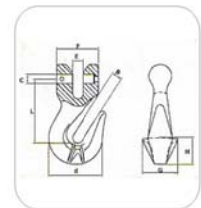
Type: HGC
Clevis Grab Hook



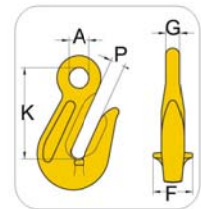
Type: HGE
Eye Grab Hook

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

Item No.	Size (mm)	Alloy Clevis Grab Hook Grade 80 Type: HGC Dimensions(mm)								WLL 4:1 (t)	Weight (kg)
		L	B	C	D	E	F	G	H		
HGC006	6	45	8	6.8	45.5	8	32	26.7	16	1.6	0.28
HGC007	7	53.5	10.8	7	50	9.5	35	33.5	19	2.0	0.32
HGC010	10	75	13.5	12.8	72	12.5	42.5	46	29	3.2	0.57
HGC013	13	91	16.5	16.2	97	15	53	57.5	43	5.4	1.56
HGC016	16	100	19.2	20	113	19.5	65	74	46	8.2	2.56
HGC020	20	135	24	24.3	143	24	77	74	56	12.8	4.85
HGC022	22	153	27	26.3	160	27	91	90	68.5	15.5	6.19



Item No.	Working Load Limit(t)	For Grade 80 Chain(mm)	Alloy Eye Hook Grade 80 Type: HGE					N.W. (kg)
			P	Dimensions(mm)		K	F	
				A	G			
HGE006	1.12	6	8	13	8	51	30	0.2
HGE007	2.0	7.8	10	15	9	60	30	0.2
HGE010	3.15	10	12	20	13	84	41	0.6
HGE013	5.3	13	16	25	15	102	52	1.2
HGE016	8.0	16	20	30	20	114	57	2.3
HGE020	12.5	18,20	23	36	23	132	98	4.6
HGE022	15.0	22	27	38	26	157	110	8.2



ALLOY STEEL SLING HOOKS

The 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 safety hook.

Technical Specialities

1. Material is forged alloy steel (quenched and tempered)
2. Large throat opening
3. Anti-fouling due to carefully designed contours.
4. Used with alloy chain grade 80 and wire rope for lifting application
5. Embossed with traceability, WLL, Batch Number and Size
6. 100% 2.5 times of capacity proof load tested
7. Ultimate load is 4 times of capacity
8. Fatigue rated is 1.5 times the WLL at 20,000 cycles



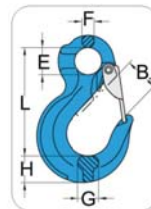
Eye Sling Hook
Type: HES

The Spring is made of stainless steel material to prevent rust.

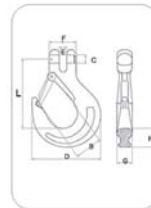


Clevis Sling Hook
Type: HCS

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.



Item No.	Chain size (mm)	Alloy Eye Sling Hook Grade 80 Type: HES Dimensions(mm)						WLL 4:1 (t)	Weight (kg)
		L	B	G	H	E	F		
HES006	6	80	24	16.5	19	20	9	1.2	0.3
HES007	7	98	30	19.5	24	25	11	2.0	0.4
HES010	10	120	34	20	32	38	15	3.2	0.8
HES013	13	150	39	31	42	43	19	5.4	1.7
HES016	16	185	46	36	46	50	23	8.2	3.2
HES018	18	217.5	40	52	58	62	24	12.8	5.1
HES022	22	241	71	54	75.5	62	32	15.0	8.0
HES026	26	355	102	60	88	88	37	20.6	13.4



Item No.	Chain size (mm)	Alloy Clevis Sling Hook Grade 80 Type: HCS Dimensions(mm)								WLL 4:1 (t)	Weight (kg)
		L	B	C	D	E	F	G	H		
HCS007	7	102	25	10.3	88.5	9.5	37	19	32.5	2.0	0.5
HCS010	10	111	31.5	13	111	13	49	25.5	35	3.2	1.0
HCS013	13	136	35	16.4	131	16.5	56.5	27.5	42	5.4	2.1
HCS016	16	160	49	21.3	162	21.5	70.5	37.5	53.5	8.2	3.6
HCS020	20	190	59	24.3	187	24	77	51	58	12.5	6.2

ALLOY STEEL CONNECTING LINK

The 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.

Technical Specialities

1. Material is high grade alloy steel (quenched and tempered)
2. Rated for alloy chain grade 80 and grade 100 for lifting application
3. Locking system that provides for simple assembly and disassembly-no special tools needed.
4. Marked with traceability, WLL, Batch No. and Size
5. Individually proof load tested at 2.5 times or WLL with Certification
6. Ultimate load is 4 times of capacity
7. Fatigue rated is 1.5 times the WLL at 20,000 cycles
8. Forged Alloy Steel-Quenched and Tempered.

Connecting Link Omega Link

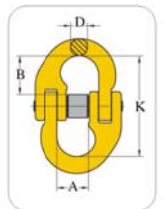


Type: LTC

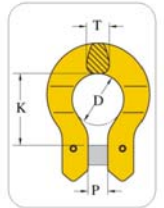


Type: LTO

Item No.	Working load limit(t)	For grade 80 chain(mm)	Alloy connecting link grade 80 type: LTC Dimensions(mm)				N.W. (kg)
			K	A	D	B	
LTC006	1.12	6	44	15	7	17	0.1
LTC007	2.0	7.8	59	18	9	22	0.2
LTC010	3.15	10	68	25	13	26	0.3
LTC013	5.3	13	91	30	16	35	0.7
LTC016	8.0	16	100	36	19	38	1.1
LTC018	12.5	18,20	122	42	23	48	1.7
LTC022	15.0	22	152	49	24	60	3.0
LTC026	21.2	36	162	55	31	62	4.6
LTC032	31.5	32	202	69	38	79	8.6



Item No.	Working load limit(t)	For grade 80 chain(mm)	Alloy omega link grade 80 type: LTO Dimensions(mm)				N.W. (kg)
			K	D	T	P	
LTO006	1.12	6	30	21	9	8	0.1
LTO007	2.0	7.8	36	27	11	9	0.2
LTO010	3.15	10	44	32	15	12	0.4
LTO013	5.3	13	55	42	17	16	1.0
LTO016	8.0	16	69	50	22	18	1.4
LTO018	12.5	18,20	71	58	28	20	2.3



ALLOY STEEL GRAB HOOK

These A-330 hooks are forged with an "8" designating Grade 80, and are suitable for use with Grade 8 chain in over head lifting applications as long as hook is Proof Tested as part of the chain sling assembly or as an individual component per ANSI B30.9c.

We recommend the use of the A-338 which is Proof Tested and supplied with a proof test certificate.

1. Material is high grade alloy steel (quenched and tempered)
2. Used with alloy chain grade 80 for lifting application
3. Marked with Brand, WLL, Batch No. and Size
4. 100% 4 times of capacity proof load tested
5. Ultimate load is 7 times of capacity

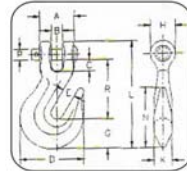


Model: A-323

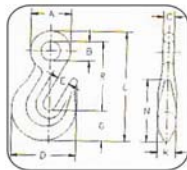


Model: A-330

Alloy Clevis Swivel Grab Hook Type: A-330															
Chain Size(in.)	Stock No.	WLL (lbs)	Weight Each (lbs)	Dimensions(in.)											
				A	B	C	D	E	G	H	K	L	N	P	R
1/4	1123249	3500	0.36	1.00	0.32	0.31	1.81	0.34	0.88	0.72	0.47	3.05	1.75	0.31	1.64
5/16	1123267	4700	0.62	1.22	0.43	0.36	2.12	0.44	0.97	0.91	0.59	3.66	2.06	0.38	2.02
3/8	1123285	7100	1.00	1.42	0.48	0.49	2.53	0.50	1.17	1.00	0.72	4.42	2.34	0.44	2.41
7/16	1123301	8750	1.31	1.66	0.66	0.62	3.09	0.56	1.31	1.13	0.69	4.94	2.66	0.56	2.75
1/2	1123329	12000	2.22	1.88	0.57	0.51	3.56	0.66	1.53	1.25	0.78	5.72	2.97	0.63	3.19
5/8	1123347	15800	4.41	2.31	0.71	0.67	4.39	0.78	1.78	1.56	1.09	6.83	4.31	0.75	4.09
3/4	1123365	24700	6.50	2.62	0.94	0.94	5.22	0.94	2.13	1.88	1.31	8.13	5.09	0.88	4.63



Alloy Eye Grab Hook Type: A-323														
Chain Size(in.)	Stock No.	WLL(lbs)	Weight Each (lbs)	Dimensions(in.)										
A	B	C	D	E	G	K	L	N	R					
1/4	1132384	3500	0.28	1.09	0.53	0.31	1.81	0.34	0.88	0.47	3.05	1.75	0.31	1.64
5/16	1132400	4700	0.45	1.31	0.62	0.38	2.12	0.44	0.97	0.59	3.66	2.06	0.38	2.02
3/8	1132428	7100	0.79	1.56	0.75	0.44	2.53	0.50	1.17	0.72	4.42	2.34	0.44	2.41
1/2	1132464	12000	1.75	1.94	0.88	0.53	3.56	0.66	1.53	0.78	5.72	2.97	0.63	3.19
5/8	1132482	15800	3.25	2.38	1.06	0.66	4.39	0.78	1.78	1.09	6.83	4.31	0.75	4.09
3/4	1132507	24700	5.94	2.88	1.38	0.75	5.22	0.94	2.13	1.31	8.06	5.09	0.88	4.63



MECHANICAL STEEL JACK

Technical Specialities

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

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

Model: KD

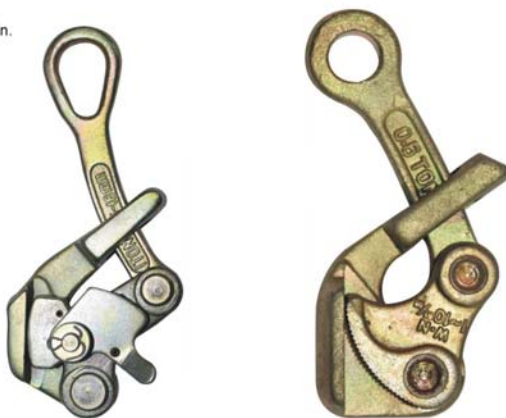


Model	Safe Working Load (t)	Height of Load (mm)	Lifting Height (mm)	Height of Claw in Lowest Position (mm)	Net Weight (kg)
KD-1.5	1.5	725	350	70	13
KD-3	3.0	725	350	75	20
KD-5	5.0	725	300	70	27
KD-10	10	800	300	90	47
KD-16	16	950	400	95	64
KD-20	20	950	400	95	73
KD-1.5	1.5	570	300	70	11
KD-3	3.0	570	300	75	18
KD-5	5.0	600	300	70	22
KD-10	10	650	300	80	38

WIRE ROPE CRIP

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

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



Item No.	S.W.L(t)	Conductor Dia Recommended (mm)	N.W.(kg)
S-0500	0.5	1~10	0.25
S-1000	1.0	5~20	0.85
S-2000	2.0	7~20	1.20
S-3000	3.0	16~32	2.50

Item No.	S.W.L(t)	Conductor Dia Recommended (mm)	N.W.(kg)
SD-0500	0.5	1~10	0.32
SD-1000	1.0	2~20	0.70
SD-2000	2.0	2~20	1.30
SD-3000	3.0	16~32	2.60

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.

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



Model: HRP

Item No.	Tractor Capacity(kg)	Wire Rope Size	No.of Hook	N.W.(kg)
HRP010	1000	5mmx2.3m	2	15(4pcs)
HRP015	1500	6mmx2.3m	2	16(4pcs)
HRP020	2000	6mmx2.3m	2	24(4pcs)

BRAKE HAND WINCHES

Technical Specialities

1. The cost-effective solution for a wide variety of applications. Brake Hand Winches can be used to pull or lift loads.
2. Positive action brake can hold the load in any position
3. Compact, light weight and rugged construction
4. Mechanical components enclosed for protection
5. Baked enamel finish for corrosion protection
6. Rope to drum fixing clamp provided
7. Available in corrosion resistant grade 304 stainless steel
8. Stainless model available in KB-S range

Model: KB-S

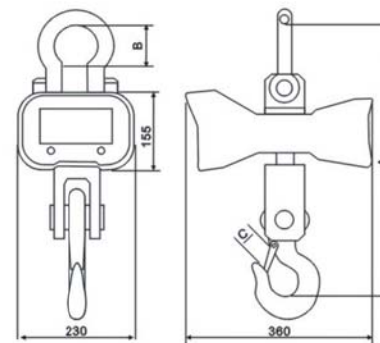


AS1418.2 Compliance applies when fitted with Approved Wire Ropes and Fittings				
Model	KB-S-800	KB-S-1200	KB-S-1800	KB-S-2600
Pull-lift capacity (kg)	370~180	545~270	820~410	1200~600
Hand force required(kg)	14.5	15	22	19
Gear ratio	4.1:1	4.1:1	5:1	10:1
Hub diameter(mm)	φ40	φ50	φ70	φ80
Handle length(mm)	160	210	320	320
Unit weight(kg)	3	3.3	8	10.3
Rope diameter(mm)	φ4	φ5	φ7	φ8
Rops storage capacity(mm)	36	23	24	18

CRANE SCALE

Model: OCS-A OCS-B

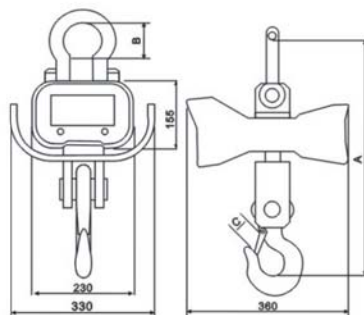
1. 30mm(1.2") LED display (OCS-A)
2. 30mm(1.2") LCD display (OCS-B)
3. Hold function
4. Gross/Net weight display convertible
5. Weight accumulation function
6. Auto shut function
7. Remote control calibration
8. Easy to replace battery
9. AC/DC power adaptor: output DC9V/1.5A
10. 6V/10Ah rechargeable scaled leadacid battery
11. Remote distance: min.10m



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

1. 30mm(1.2") LED display
2. Hold function
3. Gross/Net weight display convertible
4. Weight accumulation function
5. Auto shut function
6. Remote control calibration
7. Easy to replace battery
8. AC/DC power adaptor: output DC9V/1.5A
9. 6V/10Ah rechargeable scaled leadacid battery
10. Remote distance: min.10m

Model: OCS-G



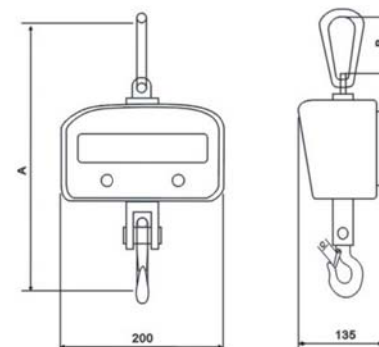
The steel water to scale min safe distance

Steel Temperature (°C)	Safe Distance (mm)
1000	1200
1200	1500
1400	1800
1600	2000

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

1. 30mm(1.2") LED display (OCS-M)
2. 30mm(1.2") LCD display (OCS-L)
3. Hold function
4. Gross/Net weight display convertible
5. Weight accumulation function
6. Auto shut function
7. Remote control calibration
8. Easy to replace battery
9. AC/DC power adaptor: output DC9V/1.5A
10. 6V/10Ah rechargeable scaled leadacid battery
11. Remote distance: min.10m

Model: OCS-M OCS-L



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