

LIFTING EQUIPMENTS





Reliable

Competitive

Professional

Qingdao Powerful Machinery Co., Ltd. is located in Qingdao, one of the largest port cities in China. As China's leading manufacturer of rigging, lifting, and material handling applications, Powerful Machinery delivers a diverse portfolio of products engineered to exceed the toughest demands of any industry, construction, cargo handling, towing, marine, and transportation.

Our products include welded chains, G80 and G100 lifting chains & accessories, hooks, shackles, hoist rings, master links, chain slings, turnbuckles, snatch blocks, wire rope & fittings and a host of other custom-engineered solutions: the most comprehensive portfolio in the industry.

Powerful Machinery has 20 years of export experience, with customers in dozens of countries around the world. Our products are exported to Europe, America, Southeast Asia, the Middle East, Australia, and many other regions.

At Powerful Machinery, We have a team of professionals working together to provide our customers with the best products and services. When you choose Powerful Machinery, you are guaranteed more than superior products—you are guaranteed the quality assurance that comes with a customer service team committed to exceeding end-user expectations.

At Powerful Machinery, it's not just about lifting products; it's about working with a trusted partner who is invested in your success.

POWERFUL
MACHINERY 普丰机械

COMPANY PROFILE

LEVER HOISTS



APPLICATION

The VA Series Lever Hoist can be widely used for equipment installation, lifting and tightening goods, dragging loads in factories, mines, construction sites, power plants, boat manufacturing etc. It is an ideal device especially in narrow space, open air and over-head places for pulling and stretching at angle.

FEATURES

- Compact, light yet durable.
- Double-pawl brake system designed for safety and reliability.
- Heat treated steel plates, gears and shafts for enhanced strength; Forged upper, lower hooks with forged steel safety latches; High Tensile Alloy Steel Chain.
- Free-wheeling mechanism for quick chain adjustments.
- Weston style automatic load brake with double pawl load reduction. 360° rotating handle of ease of use in confined space.
- Idling mechanism to allow fast adjustment of load chain. Safety factor: 4 to 1.
- Fatigue tested at 1.5 times of working load limit to 2000 cycles. Standard: EN 13157.

APPLICATION

The VL Series Lever Hoist can be widely used for equipment installation, lifting and tightening goods, dragging loads in factories, mines, construction sites, power plants, boat manufacturing etc. It is an ideal device especially in narrow space, open air and overhead places for pulling and stretching at angle.

FEATURES

- Compact, light yet durable.
- Double-pawl brake system designed for safety and reliability.
- Heat treated steel plates, gears and shafts for enhanced strength; Forged upper, lower hooks with forged steel safety latches; High Tensile Alloy Steel Chain. Free-wheeling mechanism for quick chain adjustments, Weston style automatic load brake with double pawl load reduction.
- 360° rotating handle of ease of use in confined space.
- Idling mechanism to allow fast adjustment of load chain.
- Safety factor: 4 to 1.
- Fatigue tested at 1.5 times of working load limit to 2000 cycles.
- Standard: EN 13157.

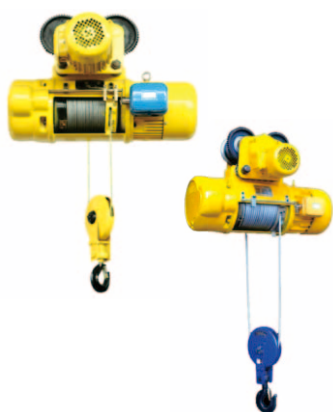
MODEL:VA LEVER HOISTS

MODEL	VA-0.75	VA-1.5	VA-3	VA-6	VA-9
CAPACITY(T)	0.75	1.5	3	6	9
STANDARD LIFT(M)	1.5	1.5	1.5	1.5	1.5
RUNNING TEST LOAD(T)	1.125	2.25	4.5	9	13.5
EFFORT REQUIRED AT CAPACITY(N)	140	220	320	340	360
NO.OF COLUNS OF LOAD CHAIN	1	1	1	2	3
LOAD CHAIN DIA.(MM)	6	8	10	10	10
DIMENSIONS(MM)	A	145	175	203	203
	B	86	100	118	118
	C	122	130	150	205
	D	37	45	50	64
	H	320	380	480	620
	L	285	370	410	410
	K	30	36	40	50
NET WEIGHT(KG)	7.5	11.5	21	31.5	47
PACKING MEASUREMENTS (L×W×H)(CM)	35.5x14x16.5	46.5x15.5x19	51x19x21.5	53x22x21.5	82x32x21.5
EXTRA WEIGHT PER METER OF EXTRA LIFT(KG)	0.8	1.4	2.2	4.4	6.6

MODEL:VL LEVER HOISTS

MODEL	VL-0.75	VL-1	VL-1.5	VL-3.0	VL-6.0	VL-9
CAPACITY(T)	0.75	1	1.5	3	6	9
STANDARD LIFT(M)	1.5	1.5	1.5	1.5	1.5	1.5
RUNNING TEST LOAD(T)	1.125	1.5	2.25	4.5	9	13.5
EFFORT REQUIRED AT CAPACITY(N)	148	197	216	336	345	357
NO.OF COLUNS OF LOAD CHAIN	1	1	1	1	2	3
LOAD CHAIN DIA.(MM)	6.3	6.3	7.1	9	9	9
NET WEIGHT(KG)	6.6	6.6	11.65	21.1	23.7	54
DIMENSIONS(MM)	A	155	155	170	198	198
	B	128	128	147	182	230
	C	310	310	350	470	590
	D	240	240	365	365	365
	E	28	32	36	47	49

ELECTRIC HOISTS



- Model CD1 Electric hoist has only normal speed ,which can satisfy normal application.
- Model MD1 Electric hoist provides two speeds: normal and low speed, At a low speed it can be do provides loading and unloading.
- Model CD1/MD1 Electric hoist is a small size lifting equipment, which can be used on single beam, storehouse and bridge cranes.
- 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.
- 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. Steel Wire Rope: It uses GB1102-74 (6X37+1) hoist steel wire rope which is durable in use.
- Conical Motor: The hoist motor uses conical rotors of relatively stronger starting torque to bake asynchronous motor and does not need extra arrester. The motor' s load duration factor is 25%; the motor uses B grade and F grade in sulation and its protection degree is IP44/54.
- Button Switch: It's hand-operated, easy to handle, and has tow modes of cord operation and cordless remote control.

Model		CD-1T—CD-10T										MD-0.5T — MD-16T										
N.W.(T)		0.5					1					2					3					
Lifting height(m)		6	9	12	6	9	12	18	24	30	6	9	12	18	24	30	6	9	12	18	24	30
Lifting normal speed(slow speed)(m/pm)		8(0.8)																				
Running speed(m/pm)		20(30)																				
Wirerope	Diameter of the rope(mm)	4.8					7.4					11					13					
	Diameter of the line (mm)	0.22					0.34					0.5					0.6					
	Structural style												D-6×37+1									
beam track model(GB706-65)(m)		16-28b										20a-32c										
The minimum radius of O ring track(m)		1.5		1.5	2	3	4	2		2.5	3	4	2	2.5	3	4						
Lifting electric motor	Model	ZDi21-4(ZDSi0.2/0.28)					ZDi22-4(ZDSi0.2/1.5)					ZDi31-4(ZDSi0.8/4.5)					ZDi32-4(ZDSi0.8/4.5)					
	Capacity(k/w)	0.8(0.2/0.8)					1.5(0.2/1.5)					3(0.4/3)					4.5(0.8/4.5)					
	Rotating speed(r/m)	1380																				
	Phase	3																				
	Voltage(V)	380																				
	Current(A)	2.4(0.72/2.4)					4.3(0.72/4.3)					7.6(1.25/7.6)					11(2.4/11)					
Running electric motor	Frequency(c/s)	50																				
	Model	ZDYi11-4					BZDYi11-4					ZDYi12-4										
	Capacity(k/w)						0.2					0.4										
	Rotating speed(r/m)	1380																				
	Phase	3																				
	Voltage(V)	380																				
Lifting electric motor	Current(A)						0.72					1.25										
	Frequency(c/s)	50																				
	Connectiontimes(t/ph)	120																				
Work rate(JC%)												25%										

Model		CD-1T—CD-10T										MD-0.5T — MD-16T									
N.W.(T)		5										10									
Lifting height(m)		6	9	12	18	24	30	6	9	12	18	24	30	6	9	12	18	24	30		
Lifting normal speed(slow speed)(m/pm)		8(0.8)																			
Running speed(m/pm)		20(30)																			
Diameter of the rope(mm)		15																			
Wirerope	Diameter of the line (mm)	0.7												0.5							
	Structural style	D-6×37+1																			
beam track model(GB706-65)(m)		25a-63c												20a-32c							
The minimum radius of O ring track(m)		2.5	3	4	5	2.5	3.5	4	6	7.5	9	2.5	3.5	4	6	7.5	9				
Lifting electric motor	Model	ZDi41-4(ZDSi0.8/7.5)							ZDi51-4(ZDSi1.5/13)												
	Capacity(k/w)	7.5(0.8/7.5)							13(1.5/13)												
	Rotating speed(r/m)	1400																			
	Phase	3																			
	Voltage(V)	380																			
	Current(A)	18(2.4/18)							30(4.3/30)												
Running electric motor	Frequency(c/s)	50																			
	Model	ZDYi21 ~ 4																			
	Capacity(k/w)	0.8							0.8×2												
	Rotating speed(r/m)	1380																			
	Phase	3																			
	Voltage(V)	380																			
Lifting electric motor	Current(A)	2.4							2.4×2												
	Frequency(c/s)	50																			
	Connectiontimes(t/ph)	120																			
Work rate(JC%)		25%																			



MODEL:LA HORIZONTAL LIFTING CLAMP

Working load limit(WLL)1-10T

- 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 life angle of 60°. In lifting operations the clamps can be used in pairs or multiples.

MODEL	WLL (TONS)PER PAIR	JAW OPENING(MM)	WEIGHT(KG)
LA1	1.0	0-30	3.7
LA2	2.0	0-50	5.2
LA3.2	3.2	0-60	7.7
LA5	5.0	10-80	12.5
LA6	6.0	10-100	15
A10	10.0	20-120	26.6

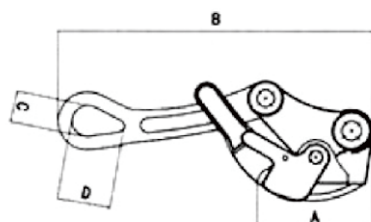


MODEL:E VERTICALE LIFTING CLAMP

- Standard design clamp for vertical lifting of steel plates and steel structures.The spring-loaded tightening lock mechanism assures a positive initial clamping force.
- Clamps are equipped with a safety mechanism,ensuring the clamp does not slip when lifting force is applied and when load is being lowered.
- The clamp is locked in closed as well as in open position.
- Manufactured from high quality carbon steel.
- High-frequency quenching of die-forged special alloy steels gives greater durability to the cam.

MODEL	CAPACITY (TON)	RUNNINGTEST LOAD(KN)	OPENINGSIZE (MM)	DIMENSIONS(MM)										NETWEIGHT (KG)
				A	B	C	D	E	F	G	H	I	J	
E-0001	1000	19.6	0-22	24	36	125	50	24	220-260	30	156	52	14	3.6
E-0002	2000	39.2	0-30	35	45	155	60	30	250-295	38	190	60	18	6
E-0003	3000	58.8	0-35	40	50	175	60	35	296-360	40	226	68	20	9.2
E-0005	5000	98	0-50	50	58	218	65	42	350-420	60	270	76	22	16.5
E-0010	10000	148	0-90	90	120	325	82	60	454	75	333	95	25	33

JX TYPE CABLE GRIPS



- with special heat treatment, tensile strength, high degree of actness, not easy to slip and deform- with delicate and smooth tongs, minimal damage to wire
- clamp mouth equipped with anti - chip insurance device, report security not jumping line
- the design of the half-moon is suitable for all kinds of steel cables and cables

Model	JX-0.5	JX-1	JX-2	JX-3
Rated capacity (t)	0.5	1	2	3
Open specification(mm)	1-10	2.5-16	4-22	16-32
Main dimensions (mm)	A	55	71	91
	B	131	189	248
	C	16	25	25
	D	16	37	42
Net weight(kg)	0.4	0.75	1.4	2.5

SD-L-1000C



SD-L-GRIP

- Used for copper cable,covered
- conductor steel rod,messenger
- wire and coppor cable

SAFE LOAD	CABLE DIAMETER	W.T.
1ton	2.6-15 m/m	0.75 kg

HAND PULLER



MODEL	HOISTING CAPACITY	WORKING CAPACITY	BREAKING FORCE	GEAR LINE HOOK	STEEL CABLE SIZE
SY10-112	500KG	1000KG	2000KG	Single Gear,Single Line,Double Hooks	2.2m*φ4.8mm
SY10-122	500KG	1000KG	2000KG		2.2m*φ4.8mm
SY10-212	500KG	1000KG	2000KG	Double Gear,Single Line,Double Hooks	2.2m*φ4.8mm
SY10-222	500KG	1000KG	2000KG	Double Gear,Double Line,Double Hooks	2.2m*φ4.8mm
SY20-222	1000KG	2000KG	3000KG		2.2m*φ5mm
SY30-223	1500KG	3000KG	4000KG		3.05m*φ5.5mm
SY40-223	2000KG	4000KG	5000KG		3.05m*φ6mm



MODEL 1000

CAPACITY	MAX.L.	MIN.L.	WIRE DIA.	NET WT.
1 TON	1210m/m	410m/m	5m/m	3.2kg

MODEL 1500

CAPACITY	MAX.L.	MIN.L.	WIRE DIA.	NET WT.
1.5 TON	1400m/m	480m/m	6m/m	4.2kg

MODEL P1500

MAX.L.	MIN.L.	WIRE DIA.	NET WT.
3300m/m	480m/m	5m/m	4.1kg

MODEL 2000

CAPACITY	MAX.L.	MIN.L.	WIRE DIA.	NET WT.
2 TON	1900m/m	480m/m	5m/m	3.8kg

MODEL 1030

CAPACITY	NET WT.
1 TON	4.3kg

MODEL 1040

CAPACITY	NET WT.
1 TON	5.2kg

MODEL 1506

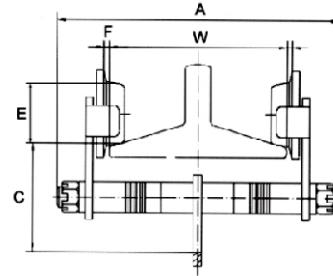
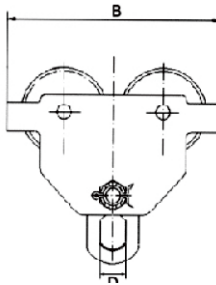
CAPACITY	NET WT.
1.5 TON	6.2kg

MODEL 1509

CAPACITY	NET WT.
1.5 TON	7.2kg

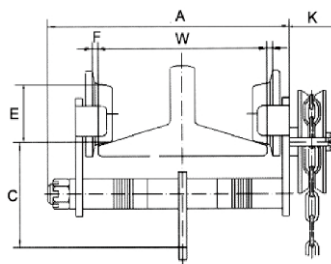
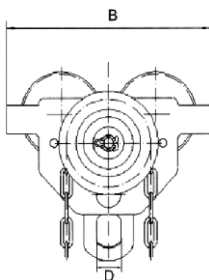
TROLLEY

MODEL:VP



MODEL	CAPACITY (TON)	FITS BEAM (MM)				DIMENSIONS(MM)						MINIMUN REVOLVING RADIUS(MM)	N.W, (KG)
		W		H									
		min	max	min	max	A	B	C	D	E	F		
VP005	0.5	75	125	100	150	206	174	120	45	55	27	900	5.5
VP010	1	75	125	125	250	206	231	120	45	80	27	1300	7.5
VP020	2	100	150	150	400	241	271	155	60	100	33	1500	11.2
VP030	3	100	150	180	400	261	311	185	70	113	47	2000	17
VP050	5	125	175	250	450	294	351	220	80	125	53	2600	30.5
VP100	10	150	175	250	450	294	721	165	∞	125	53	∞	43

MODEL:VG



MODEL	CAPACITY (TON)	FITS BEAM (MM)				DIMENSIONS(MM)								MINIMUN REVOLVING RADIUS(MM)	N.W (KG)
		W		H											
		MIN	MAX	MIN	MAX	A	B	C	D	E	F	K			
VG010	1	75	125	125	250	206	231	120	45	80	27	117	1300	8.5	
VG020	2	100	150	150	400	241	271	155	60	100	33	119	1500	12.2	
VG030	3	100	150	180	400	261	311	185	70	113	47	134	2000	18	
VG050	5	125	175	250	450	294	351	220	80	125	53	134	2600	31.5	
VG100	10	150	175	250	450	294	721	165	∞	125	53	134	∞	45	

MODEL:AP



MODEL	CAPACITY (TON)	FITS BEAM (MM)				DIMENSIONS(MM)						MINIMUN REVOLVING RADIUS(MM)	N.W, (KG)
		W		H									
		MIN	MAX	MIN	MAX	A	B	C	D	E	F		
AP005	0.5	75	125	100	150	206	174	120	45	55	27	900	7.8
AP010	1	75	125	125	250	206	231	120	45	80	27	1300	14
AP020	2	100	150	150	400	241	271	155	60	100	33	1500	22
AP030	3	100	150	180	400	261	311	185	70	113	47	2000	35
AP050	5	125	175	250	450	294	351	220	80	125	53	2600	47
AP100	10	150	175	250	450	294	721	165	∞	125	53	∞	87

MODEL:AG



MODEL	CAPACITY (TON)	FITS BEAM (MM)				DIMENSIONS(MM)								MINIMUN REVOLVING RADIUS(MM)	N.W (KG)
		W		H											
		MIN	MAX	MIN	MAX	A	B	C	D	E	F	K			
VG010	1	75	125	125	250	206	231	120	45	80	27	117	1300	15	
VG020	2	100	150	150	400	241	271	155	60	100	33	119	1500	23	
VG030	3	100	150	180	400	261	311	185	70	113	47	134	2000	36	
VG050	5	125	175	250	450	294	351	220	80	125	53	134	2600	49	
VG100	10	150	175	250	450	294	721	165	∞	125	53	134	∞	89	

CLAMPS



MODEL:JG



MODEL	CAPACITY(KG)	APPLICABLE BEAM WIDTH(MM)	WEIGHT(KG)
JG1	1000.0	75-230	4.1
JG2	2000.0	75-230	4.8
JG3	3000.0	80-320	9.5
JG5	5000.0	80-320	11.3
JG10	10000.0	90-320	17.6

MODEL:YG



MODEL	WLL (TONS) PER PAIR	JAW OPENING (MM)	WEIGHT(KG)
YG0.5	0.5	50-100	3.2
YG1	1.0	50-100	3.2
YG2	2.0	80-130	12.8
YG3	3.0	120-220	27.3
YG5	5.0	200-320	104

MODEL:VK



MODEL	WLL (TONS) PER PAIR	JAW OPENING (MM)	WEIGHT(KG)
VK1	1.0	30-100	5
VK2	2.0	30-150	8.7
VK3	3.0	30-240	13
VK5	5.0	30-330	27



TOE JACK



Manual Hydraulic Cylinder with Toe-Lift

- Carbon steel base with automatic welding makes stable quality.
- Chrome plated plunger resists corrosion and extends life.
- For heavy equipment lifting or check level with minimum available access.

MODEL NUMBER	TOP CAPACITY U(TON)	LOW TOE-LIFT CAPACITY F(TON)	STROKE (MM)	MIN. HEIGHT A(MM)	EXT. HEIGHT B (MM)	PLUNGER DIAM. J (MM)	BASE DIMENSIONS LXW(MM)	HEIGHT K(MM)	TOE-LIFT BASE L1XW1(MM)	WEIGHT (KG)
SHL-05S	5	2.5	110	230	340	32	152 X200.5	16	78X47	8.5
SHL-10S	10	5	135	280	415	42	185 X235	22	98 X55	19.5
SHL-10SI	10	5	135	280	415	42	185 X235	22	98 X55	20.5
SHL-10MS	10	5	135	277	412	42	220 X 229	22	130 X52	20.0
SHL-20MS	20	10	150	317	467	55	220 X240	25	132 X36	31.5
SHL-30S	30	15	150	335	486	62	265 X 272	28	149 X60	44.0
SHL-50S	50	25	150	370	520	85	340 X354	40	190X75	88.5
SHL-10P	10	5	134	266	400	42	125 X 275	50	100X100	20.0
SHL-10PH	10	5	134	266	400	42	125 X275	50	100X100	20.0

MECHANICAL JACK



MODEL		SY-C5	SY-C10	SY-C16	SY-C20
RATED CAPACITY	T	5.0	10	16	20
TEST LOAD	KN	61.3	122.5	196	245
THE HAND POWER OF FULL LOAD	N	280	560	640	640
DISTANCE	MM	300	300	300	300
LIFTING HEIGHT	MM	25-725	30-800	40-800	40-860
NET WEIGHT	KG	29.5	50	69	80
MEAS	CM	75*21*25	82*27*31	85*29*35	90*38*30

PALLET TRUCKS

HYDRAULIC STACKER



The hydraulic stacker which does not need the driving power and will not bring any pollution. This machine is compact in structure, flexible in transportation, and easy to maintain. It is suitable to be used in factories, workshops, warehouses, and truck stations for lifting and

Model	ORM-1000	ORM-1500/2000
Capacity(KG)	1000	1500/2000
Lifting height(mm)	1600	1600
Lowered fork height(mm)	100	100
Fork length(mm)	1000	800
Fork outside distance(mm)	745	760
Overall dimension(mm)	1400*780*1850	1350*800*1870
Front wheel(mm)	80	80
Loaded wheel(mm)	180	180
Net weight(kg)	120	140/180

PALLET TRUCK



- Equipped with comfortable handle
- High-balanced intensifying frame
- High strength welding hydraulic pressure oil cylinder, equipped with safety valve
- The longer and larger type can be provided on customer's request

Model	ORM-HP
Capacity(KG)	2000/2500/3000
Fork Width(mm)	550 685
Fork length(mm)	1100 1200
Lowered height(mm)	85/75
Max fork height(mm)	195/185
Max lifting height(mm)	≥110
Format of front wheel	single/double
Material of wheel	Nylon/Rubber/Polyurethane
Truck Weight(kg)	80-85
Packing Qty(20 container)(PCS)	180 144

PERMANENT MAGNETIC LIFTER



TYPE	LIFTING CAPACITY (KG)	DIMENSION L*W*H (CM)	MAX BREAKAWAY FORCE(KG)	NET WEIGHT (KG)	GROSS WEIGHT (KG)
SY-100	100	25*16*16	300	3	4
SY-400	400	32*20*17	1200	10	11
SY-600	600	37*23*21	1800	20	22
SY-1000	1000	43*28*24	3000	37	40
SY-2000	2000	52*30*31	5000	68	74
SY-3000	3000	60*30*31	7500	87	93
SY-4000	4000	68*30*41	10000	113	121
SY-5000	5000	73*40*48	12500	198	213



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