# Directory


CHAIN HOIST 01-08



LEVER HOIST 09-12



ELECTRIC HOIST 13-19



LIFTING CLAMP 24-28



CRANE SCALE 50-52




# DRAGON STAGE

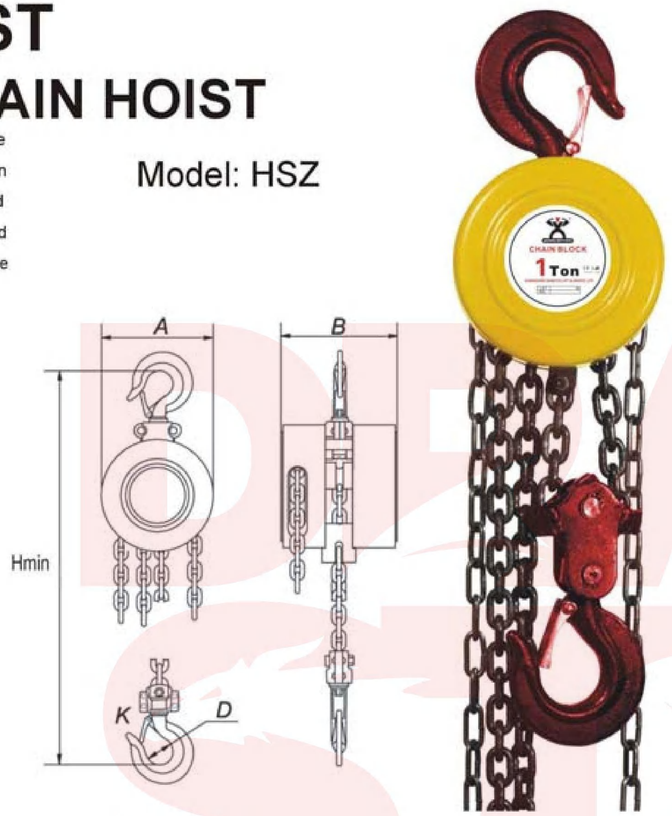


# CHAIN HOIST

## 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 | 280 | 705 |
| | B | 110 | 130 | 150 | 170 | 185 | 170 | 168 | 208 | 200 | 485 |
| | K | 24 | 28 | 33 | 36 | 39 | 45 | 65 | 85 | 82 | 85 |
| | D | 35 | 40 | 45 | 50 | 65 | 85 | 100 | 100 | 106 | 106 |
| | Hmin | 315 | 355 | 435 | 470 | 555 | 720 | 820 | 920 | 1040 | 1390 |

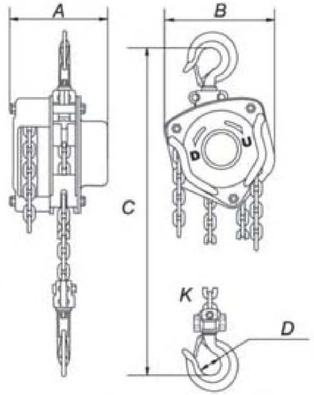
# CHAIN BLOCK VC-A SERIES

Model: VC-A

## 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/mm$^2$) 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) A | B | C | D | Net Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |

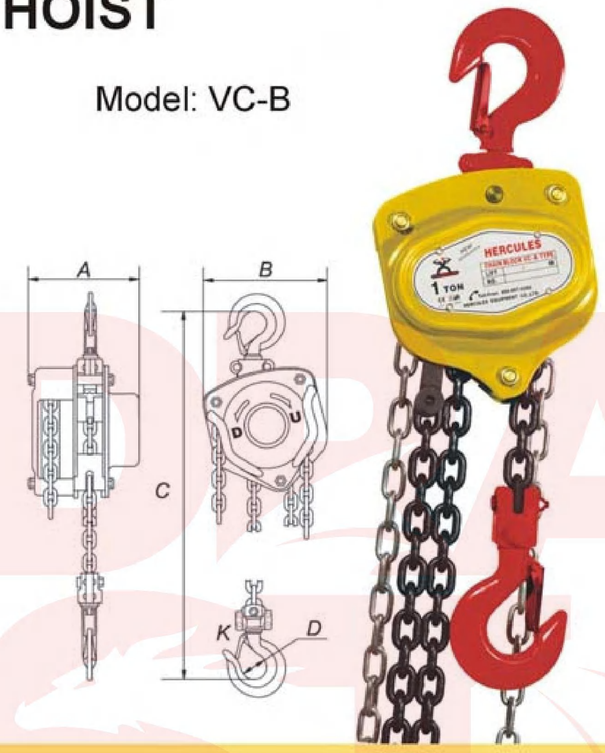
Individually proof load tested with individual serial number

# VC-B TYPE CHAIN HOIST

One of beat 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.

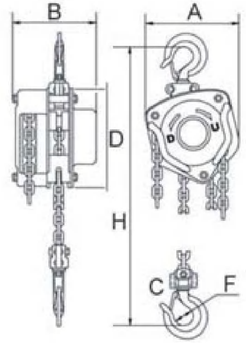
Low maintenance
Enclosed housing allows outdoor use. The load brake requires no lubrication.








Model: CK






## TESTED ACCORDING TO EN13157-2004

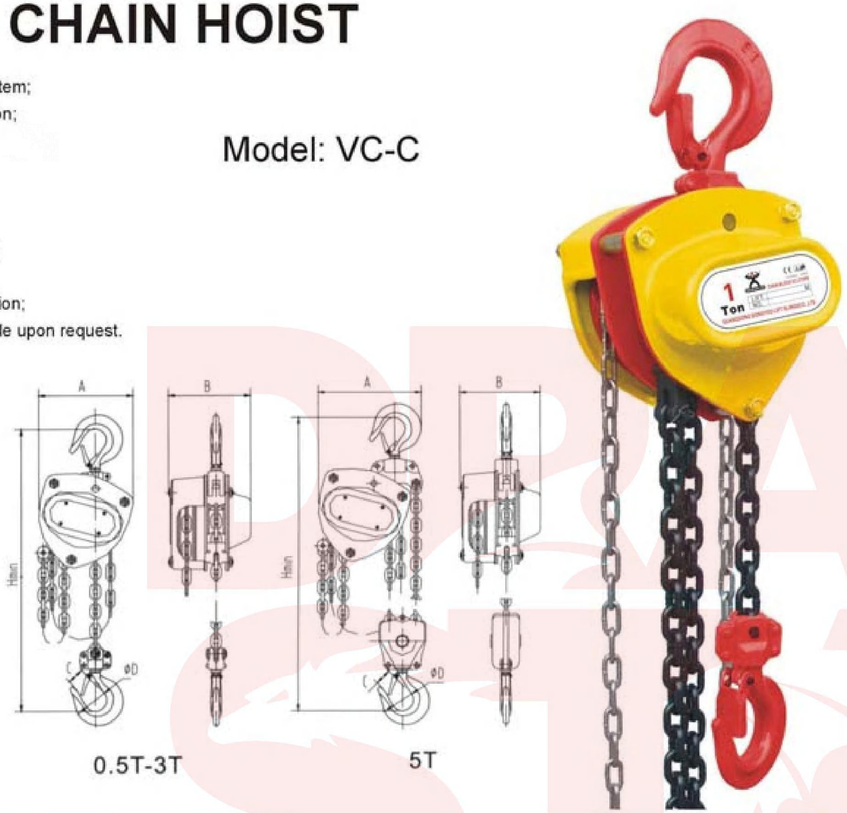
| Product Code | Capacity (t) | Standard Lift(m) | Test Load (t) | Pulling Efforts (kg) | Chain Fall No. | Load Chain Dia.(mm) | Dimensions(mm) A | B | C | D | Net weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CK005 | 0.5 | 3.0 | 0.75 | 22 | 1 | 6 | 125 | 111 | 24 | 134 | 8.1 |
| 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



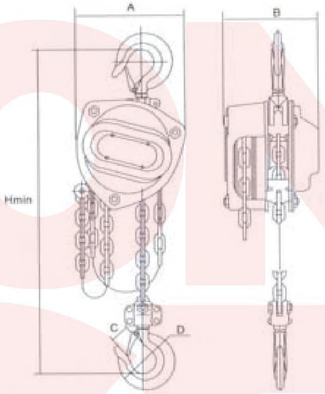

## SPECIFICATION

| 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 | 280 |
| | B | 114 | 132 | 151 | 173 | 175 | 189 | 205 |
| | C | 19 | 23 | 26 | 29.5 | 34 | 37.5 | 41 |
| | D | 31 | 35 | 40 | 45 | 50 | 55 | 65 |
| | Hmin | 280 | 345 | 376 | 442 | 470 | 580 | 690 |

# VC-D TYPE CHAIN HOIST

Model: VC-D

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.














## 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 | 178 | 155 | 164 | 164 |
| | B | 100 | 100 | 121 | 150 | 154 | 154 | 197 | 253 |
| | C | 230 | 285 | 325 | 390 | 395 | 450 | 603 | 768 |
| | D | 30 | 36 | 38 | 48 | 48 | 50 | 64 | 85 |
| | K | 23 | 27 | 28 | 35 | 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

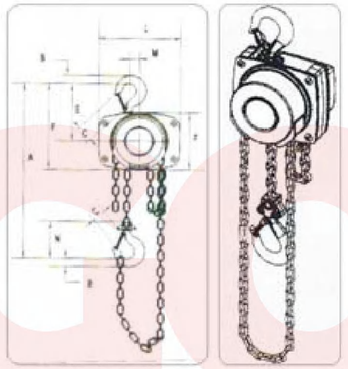
1. Wheel cover with guide slots guard against jamming and slipping of chain.
2. Forged swivel hooks and latches prevent twisting of chain and reduce unintentional unhooking of the unit or the load.
3. Chain guide and stripper ensure proper fit of chain over pocket wheel.
4. Two-stage gear reduction with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

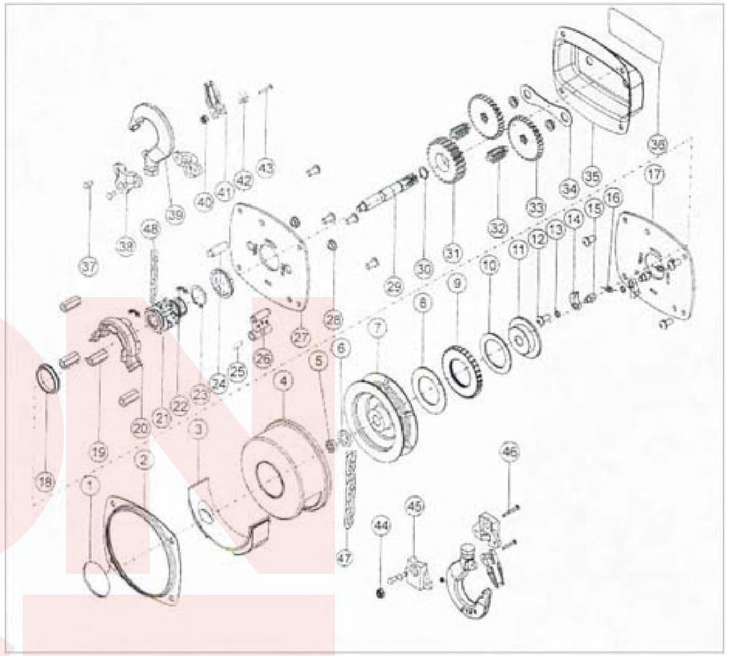



Model: VE360°

| 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<br>2624<br>2625 | 1/2 | 2.50<br>3.00<br>6.00 | 8.9<br>9.5<br>10.8 | 19.95 | 9.14 | 300 | 17.5 | 25 | 12 | 160 | 134 |
| 2626<br>2627<br>2628 | 1 | 2.50<br>3.00<br>6.00 | 13.0<br>13.9<br>15.8 | 24.49 | 14.93 | 355.6 | 22.2 | 28.6 | 14.3 | 176 | 155.6 |
| 2629<br>2630<br>2631 | 2 | 2.50<br>3.00<br>6.00 | 20.0<br>21.6<br>24.6 | 33.56 | 21.64 | 395 | 30 | 35 | 20.6 | 203 | 182.6 |
| 2635<br>2636<br>2637 | 3 | 2.50<br>3.00<br>6.00 | 27.1<br>30.6<br>35.9 | 41.73 | 26.51 | 520 | 38 | 39.7 | 25.4 | 224 | 220 |

## 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 sproket | 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 sproket | 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

Model: HSH



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.

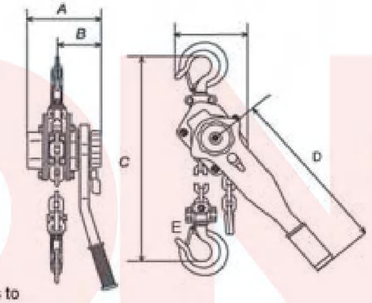
| MINI HSH Specification | | | | |
|---|---|---|---|---|
| Capacity(kg) | | 250 | 500 | 750 |
| Standard lift(m) | | 1.5 | 1.5 | 1.5 |
| Test load(kg) | | 375 | 750 | 1125 |
| Hand-pull to lift(n) | | 260 | 260 | 200 |
| Extra weight for one meter chain added(kg/m) | | 0.346 | 0.346 | 0.541 |
| Load chain(dia.Xpitch)(mm) | | Φ4x12 | Φ4x12 | Φ5x15 |
| 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

Model: VL

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.






## TESTED ACCORDING TO EN13157-2004

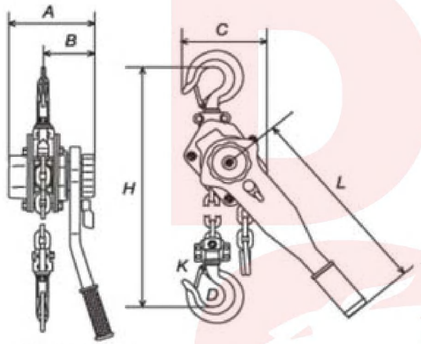
| Product Code | Capacity (t) | Standard Lift(m) | Test Load (t) | Pulling Efforts (kg) | Chain fall No. | Load Chain Dia.(mm) | Dimensions(mm) A | B | C | D | E | Net Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VL005 | 0.50 | 1.5 | 0.75 | 11 | 1 | 5 | 148 | 128 | 295 | 256 | 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




Model: VA



**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) A | L | K | C | H | Net Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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

# 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.

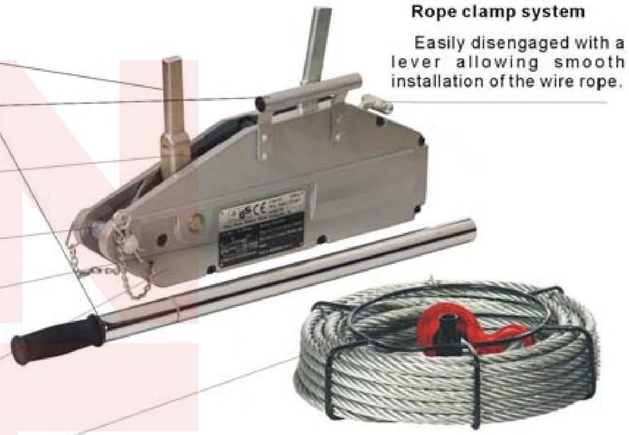
**Anchor bolt**
Offers numerous and versatile connection possibilities with load hooks, sling ropes and sling chains.

**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 motorand 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 | 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) | | | | | |
| | 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-1.5/1.3(1.5/1.3) | | | | | |
| (Motor type and power (suspended type)(kw) | ZDY11-4(0.2) | | | | | | ZDY11-4(0.2) | | | | | | ZDY12-4(0.4) | | | | | | ZDY12-4(0.4) | | | | | | ZDY21-4(0.8) | | | | | | 2xZDY21-4(0.8) | | | | | |
| 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 | 1.2 | 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 | 1.5 | 1.5 | 1.5 | 2.5 | 3.0 | 4.0 |
| Net weight(kg) | 135 | 140 | 155 | 175 | 185 | 180 | 195 | 190 | 205 | 220 | 235 | 255 | 250 | 265 | 300 | 320 | 340 | 360 | 320 | 340 | 350 | 380 | 410 | 440 | 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.



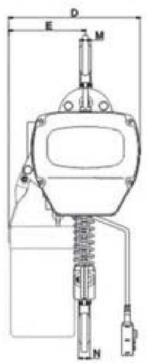
Model: PA

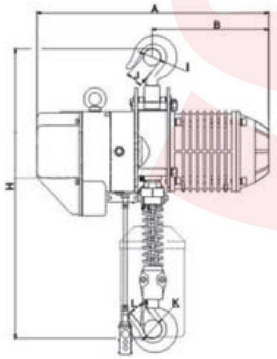
### SPECIFICATION

| 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) | Lifting Motor Power (kw) | Lifting Motor Rotation Speed (r/min) | Lifting Motor Phases | Lifting Motor Voltage (v) | Lifting Motor Frequency (hz) | Operating Motor Power (kw) | Operating Motor Rotation Speed (r/min) | Operating Motor Operating Speed (m/min) | Operating Motor Phases | Operating Motor Voltage (v) | Operating Motor Frequency (hz) | I-Beam (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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

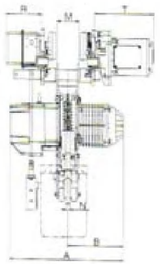
| Product code | Capacity (t) | Unit(mm) H | A | B | D | E | I | K | L | N | E | U | R | T | Chain |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HHBB0101 | 1 | 650 | 520 | 260 | 300 | 176 | Φ31 | Φ42 | 32 | 24 | 206 | 111 | 142 | 231 | Φ7.1 |
| HHBB0151 | 1.5 | 770 | 615 | 295 | 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 |

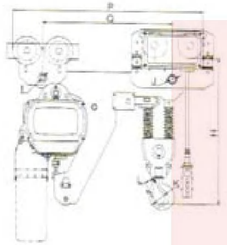
# Super-low Lifting Loop Chain Electric Hoist



### 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 fairy 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) | Rotation Speed (r/min) | Lifting Motor Phases | Lifting Motor Voltage (v) | Lifting Motor Frequency (hz) | Lifting Motor Power (kw) | Operating Motor Rotation Speed (r/min) | Operating Motor Operating Speed (m/min) | Operating Motor Phases | Operating Motor Voltage (v) | Operating Motor Frequency (hz) | I-Beam (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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.

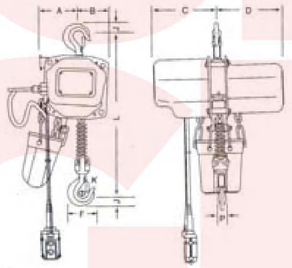
**Most tensile safety hooks**
Both the top and bottom hook made of high tensile alloy steel, with special treatment, it guarantee the hook will not break, and will deform gradually under a sudden extra-load.

**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 | 150 | 175 |
| | B | 112 | 112 | 90 |
| | C | 250 | 250 | 250 |
| | D | 245 | 245 | 245 |
| | K | 27 | 30 | 38 |
| | Φ | 45 | 50 | 65 |
| | F | 85 | 105 | 136 |
| | J | 17 | 26 | 36 |
| | P | 14 | 15 | 22 |
| | L | 550 | 590 | 770 |
| Net weight(kg) | | 44 | 46 | 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 virabtion 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 |
|---|---|---|---|---|---|---|
| Dimensions(mm) | 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 |
| | K | 240 | 240 | 300 | 340 | 290 |
| | L | 32-t2 | 32-t2 | 32-t2 | 32-t2 | 32-t2 |
| | 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 (km) 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 |

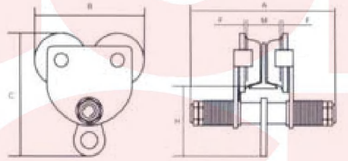
▫Means quick lifting speed
As our products incessantly being improved and developed, their structures may be slightly different from instructions.

# 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.

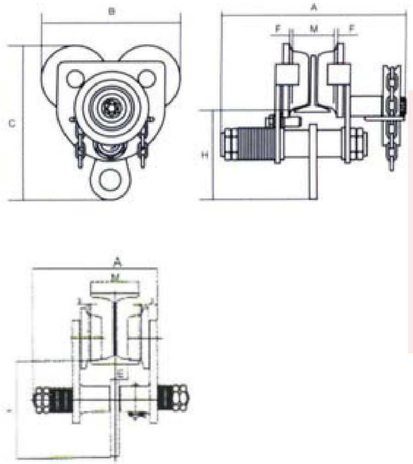


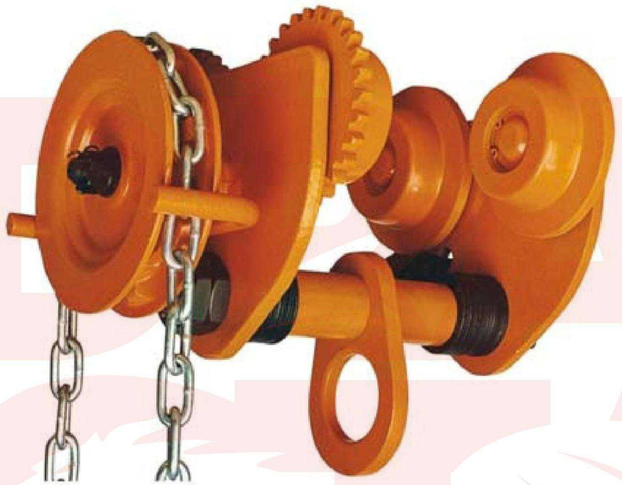



| Model | Capacity(t) | Compatible Rail Size(mm) Width(W) Min. | Width(W) Max. | Height(H) Min. | Height(H) Max. | Plain Trolley GCT-A Specification Dimensions(mm) A | B | C | D | E | F | K | Min.rotation Radius(mm) | Net Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCT-A05 | 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



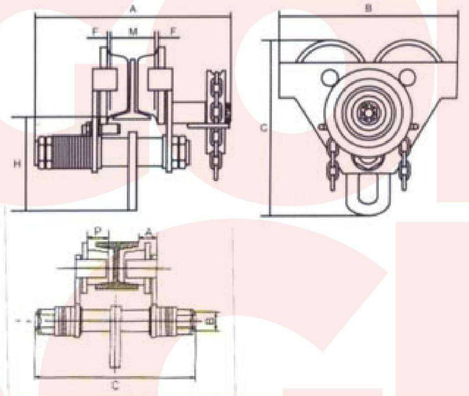


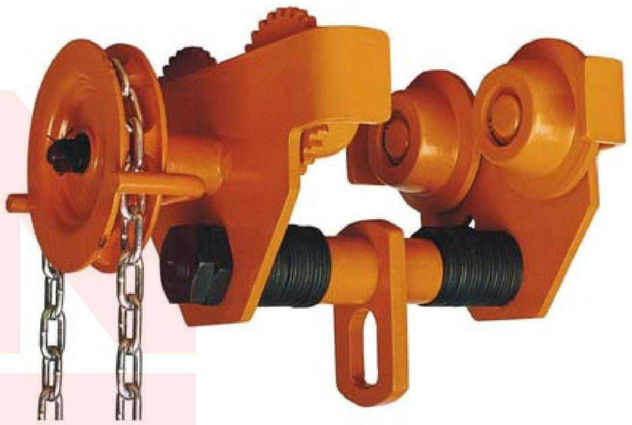
| Model | Capacity(t) | Compatible Rail Size(mm) Width(W) Min. | Width(W) Max. | Height(H) Min. | Height(H) Max. | Geared Trolley GCL-A Specification Dimensions(mm) A | B | C | D | E | F | K | Min.rotation Radius(mm) | Net Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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

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: GCL-B



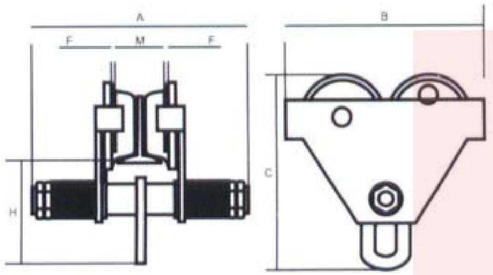


| Model | Capacity (t) | Beam Flange Width (mm) | Geared Trolley GCL-B Series Specification Dimensions(mm) O | A | B | C | D | E | F | G | H | T | R | S | L | X | P | N | U | I | N.W. (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GCL-B05 | 0.5 | 64~140 | 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 Dimensions(mm) O | A | B | C | D | E | F | G | H | T | R | S | L | X | P | N | U | Net weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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

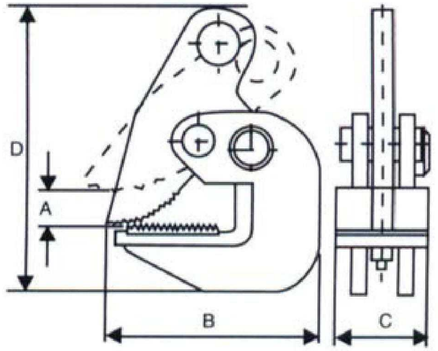
Model: PDB

**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.

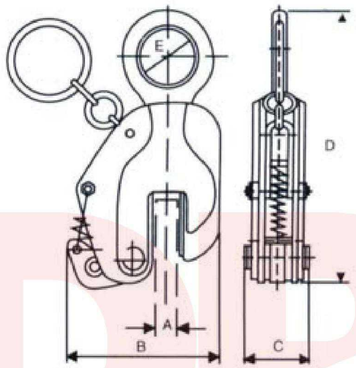
| Item No. | WLL(t) Single | WLL(t) Double | Test load(t) Single | Test load(t) Double | Jaw opening (m) | A | Dimensions(mm) B | C | D | E | Net weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PDB075 | 0.75 | 1.50 | 1.13 | 2.25 | 0~25 | 25 | 125 | 50 | 175 | Φ25 | 2.4 |
| PDB150 | 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) A | B | C | D | E | F | G | H | I | J | Weight(kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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).**

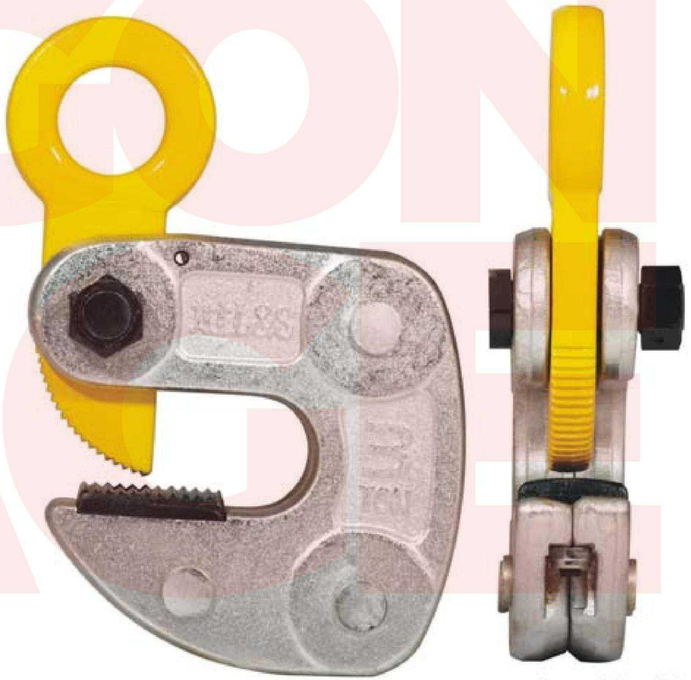
## Working fields

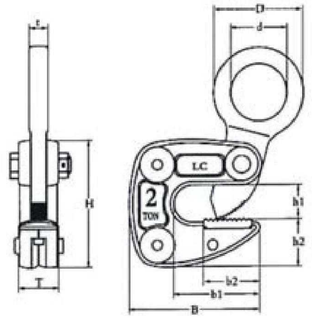
1. At building construction field
2. At ship building field
3. Metal production workshop
4. At subway construction (civil engineering construction) sites

## 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.

Model: LC






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

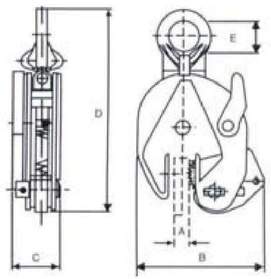
| Item No. | WLL (t/pair) | Opening (mm) | Dimensions(mm) L | t | T | H | h1 | h2 | B | b1 | b2 | D | d | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LC1 | 1 | 1~13 | 166 | 12 | 32 | 100 | 22 | 36 | 102 | 64 | 42 | 70 | 46 | 2.1 |
| LC2 | 2 | 3~22 | 235 | 16 | 40 | 132 | 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

Model: CD

### 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.






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

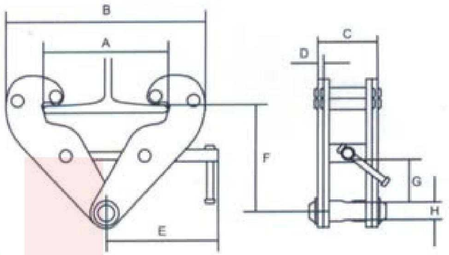
| Item No. | WLL (t/pair) | Opening (mm) | Dimensions(mm) A | B | C | D | E | F | G | H | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CD06 | 0.5 | 1.0 | 30 | 43 | 34.5 | 0~15 | 103 | 10 | 212 | 36 | 1.8 |
| CD10 | 1.0 | 2.0 | 48 | 63 | 51 | 0~20 | 138 | 12 | 294 | 50 | 4.7 |
| CD20 | 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 |

# UNVERSAL 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 eage
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 flatened, reinforced jaws




Model: JG




| Item No. | Capacity (t) | Flange width (mm) | Dimensions(mm) A Max. | B Min. | B Max. | C | D | E | F Max. | F Max. | G Min. | H | I 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



Model: LLB

### 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.

| 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



Model: RLBH

### 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

| 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 |

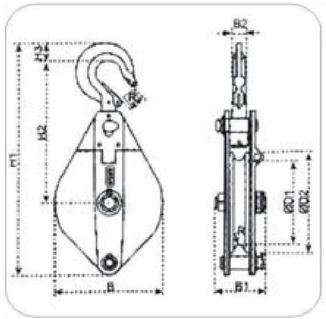
# HAND PULLEY BLOCK

### 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) | Dimensions(mm) B | B1 | B2 | H1 | H2 | H3 | D1 | D2 | R | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HQ05 | 0.5 | 20 | Φ5 | 95 | 62 | 16 | 260 | 190 | 20 | 75 | 88 | 3 | 2.0 |
| HQ10 | 1.0 | 23 | Φ7 | 118 | 76 | 17 | 305 | 200 | 23 | 85 | 105 | 4 | 3.2 |
| HQ20 | 2.0 | 27 | Φ13 | 119 | 92 | 24 | 425 | 263 | 30 | 150 | 190 | 7 | 7.3 |
| HQ32 | 3.2 | 31 | Φ15 | 230 | 108 | 28 | 496 | 295 | 40 | 180 | 220 | 9 | 13.1 |
| HQ64 | 6.4 | 42 | Φ18 | 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



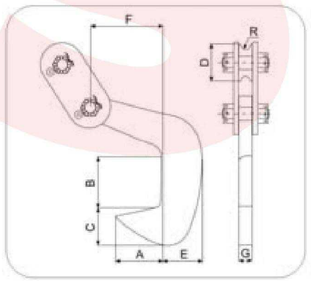
| Model | WLL Single | WLL Double | Proof test load | WLL Diameter | WLL Length | WLL Dia. | WLL Inside | WLL Outside | Reach | Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| VDLI | 500kg | 1000kg | 2000kg | 6.3mm | 516mm | 13mm | 66mm | 93mm | 690mm | 3.6kg |
| | 1100lbs | 2200lbs | 4400lbs | 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 | 552 | 485 |
| | A min | 260 | 310 | 340 | 236 |
| | B max | 310 | 335 | 390 | 336 |
| | B min | 258 | 245 | 310 | 275 |
| | C | 12 | 86 | 86 | 95 |
| | D | 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 maintenances 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 |

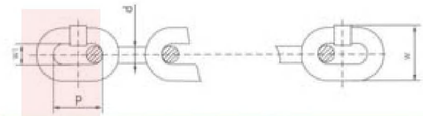
# CHAIN AND CHAIN SLING

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) | Inside Width W1 (mm) | WLL(t) | Ultimate Load(t) | Weight Approx(kg) |
|---|---|---|---|---|---|---|---|
| | | | Alloy Chain GR80 | | | | |
| 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. mm | Chain Dia. in. | Inside length (mm) | Outside width (mm) | Inside width (mm) | WLL(t) | Ultimate load(t) | Weight Approx(kg) |
|---|---|---|---|---|---|---|---|---|
| | | | | SUPER HIGH STRENGTH CHAIN GR100 | | | | |
| 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 |
| 1~1-1 / 8 | 1081516 | 47700 | 18 | 5 | 21.2 |
| 1~1-1 / 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 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | ASTM80 | | | NACM90 | | | MACM96 | | | Pes per drum |
| | W.T.(kg) | WLL(ld) | MBS(ld) | W.T.(kg) | WLL(ld) | MBS(ld) | W.T.(kg) | 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 smatter 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



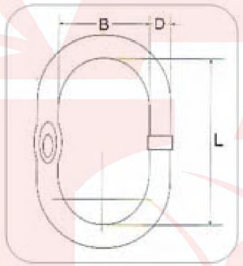
Type: MLA



Type: MLW

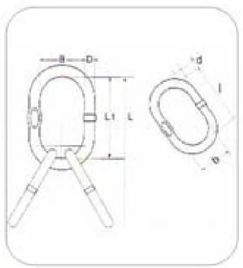
**Alloy Master Link Grade 80 Welding Type: MLW**

| Product Code | Size D (mm) | Dimensions(mm) L | B | WLL 4:1 (t) | Weight (kg) |
|---|---|---|---|---|---|
| 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 |




**Alloy Master Link Assembly Grade 80 Welding Type: MLA**

| Product Code | Size D (mm) | Dimensions(mm) L | L1 | B | d | b | l | WLL 4:1 (t) | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|
| 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 loaf 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.



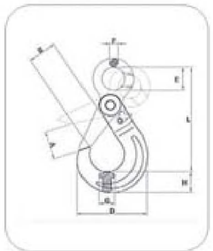
Type: HSE
Eye Safety Hook



Type: HSC
Clevis Safety Hook

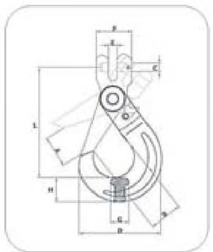
**Alloy Eye Safety Hook Grade 80 Type: HSE**

| Item No. | Size (mm) | Dimensions(mm) L | A | B | D | E | F | G | H | WLL 4:1 (t) | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |



**Alloy Clevis Safety Hook Grade 80 Type: HSC**

| Item No. | Size (mm) | Dimensions(mm) L | A | B | C | D | E | F | G | H | WLL 4:1 (t) | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HSC006 | 6 | 95 | 31 | 26 | 7.8 | 70 | 8.5 | 32 | 16 | 22 | 1.2 | 0.45 |
| HSC007 | 7 | 117 | 39 | 36 | 9.2 | 89 | 9 | 37 | 20 | 24 | 2.0 | 0.85 |
| HSC010 | 10 | 140 | 52 | 44 | 13.2 | 107 | 12 | 47.5 | 26 | 30 | 3.2 | 1.45 |
| HSC013 | 13 | 176 | 65 | 52 | 16.3 | 139 | 15 | 60 | 32 | 40 | 5.4 | 2.90 |
| HSC016 | 16 | 210 | 75 | 63 | 20.2 | 168 | 18 | 73 | 40 | 51 | 8.2 | 5.60 |
| HSC018 | 10 | 232 | 83 | 76 | 24.3 | 186 | 25 | 81 | 45 | 56 | 12.5 | 6.50 |
| HSC022 | 22 | 265 | 88 | 80 | 28.2 | 204 | 25.5 | 98 | 52 | 65 | 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.



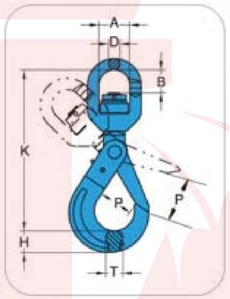
Bearing Swivel Hook
Type: HSB

Swivel Hook
Type: HSA



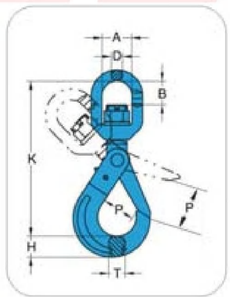
**Alloy Swivel Safety Hook Type: HSA**

| Item No. | Working Load Limit(t) | For Grade 80 Chain(mm) | Dimensions(mm) K | P | B | A | D | T | H | N.W. (kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 |




**Alloy Bearing Swivel Safety Hook Type: HSB**

| Item No. | Working Load Limit(t) | For Grade 80 Chain(mm) | Dimensions(mm) K | P | B | A | D | T | H | N.W. (kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| 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**



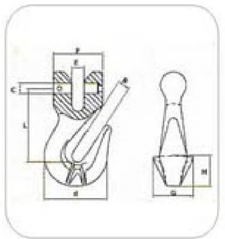
Type:H GE

**Eye Grab Hook**

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

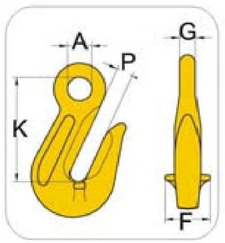
**Alloy Clevis Grab Hook Grade 80 Type: HGC**

| Item No. | Size (mm) | Dimensions(mm) L | B | C | D | E | F | G | H | WLL 4:1 (t) | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |



**Alloy Eye Hook Grade 80 Type: HGE**

| Item No. | Working Load Limit(t) | For Grade 80 Chain(mm) | Dimensions(mm) P | A | G | K | F | N.W. (kg) |
|---|---|---|---|---|---|---|---|---|
| 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

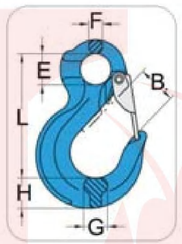
The Spring is made of stainless steel material to prevent rust.



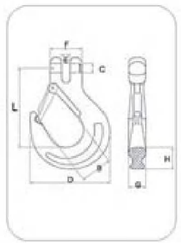
Clevis Sling Hook
Type: HCS

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

| Item No. | Chain size (mm) | Alloy Eye Sling Hook Grade 80 Type: HES Dimensions(mm) L | B | G | H | E | F | WLL 4:1 (t) | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|
| 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) L | B | C | D | E | F | G | H | WLL 4:1 (t) | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 STEELCONNECTING 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



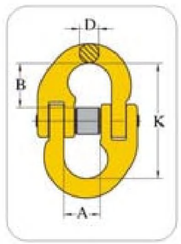
Type: LTC

Omega Link

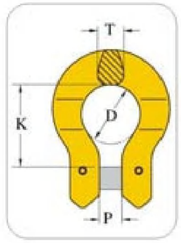


Type: LTO

| Item No. | Working load limit(t) | Alloy connecting link grade 80 type: LTC Dimensions(mm) For grade 80 chain(mm) | K | A | D | B | N.W. (kg) |
|---|---|---|---|---|---|---|---|
| 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) | Alloy omega link grade 80 type: LTO Dimensions(mm) For grade 80 chain(mm) | K | D | T | P | N.W. (Kg) |
|---|---|---|---|---|---|---|---|
| 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 componet 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



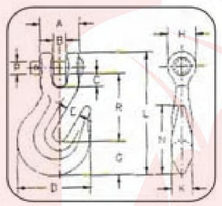
Model: A-323



Model: A-330

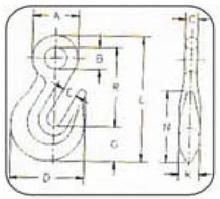
**Alloy Clevis Swivel Grab Hook Type: A-330**

| 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 | 1.88 |
| 5 / 16 | 1132400 | 4700 | 0.45 | 1.31 | 0.62 | 0.38 | 2.12 | 0.44 | 0.97 | 0.59 | 3.59 | 2.06 | 2.28 |
| 3 / 8 | 1132428 | 7100 | 0.79 | 1.56 | 0.75 | 0.44 | 2.53 | 0.50 | 1.17 | 0.72 | 4.28 | 2.34 | 2.69 |
| 1 / 2 | 1132464 | 12000 | 1.75 | 1.94 | 0.88 | 0.53 | 3.56 | 0.66 | 1.53 | 0.78 | 5.44 | 2.97 | 3.28 |
| 5 / 8 | 1132482 | 15800 | 3.25 | 2.38 | 1.06 | 0.66 | 4.39 | 0.78 | 1.78 | 1.09 | 6.66 | 4.31 | 4.11 |
| 3 / 4 | 1132507 | 24700 | 5.94 | 2.88 | 1.38 | 0.75 | 5.22 | 0.94 | 2.13 | 1.31 | 8.06 | 5.09 | 5.16 |



# 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



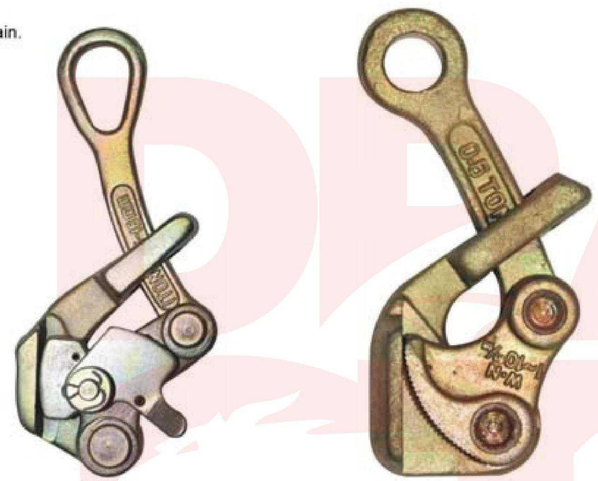


| Model | Safe Working Load (t) | Height of Load (mm) | Lifting Height (mm) | Height of Claw in Lowest Position (mm) | Net Weight (kg) |
|---|---|---|---|---|---|
| KD-1.5 | 1.5 | 725 | 350 | 70 | 13 |
| KD-3 | 3.0 | 725 | 350 | 75 | 20 |
| KD-5 | 5.0 | 725 | 300 | 70 | 27 |
| KD-10 | 10 | 800 | 300 | 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

Model: HRP

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.



| Item No. | Tractor Capacity(kg) | Wire Pope Size | No.of Hook | N.W.(kg) |
|---|---|---|---|---|
| HRP010 | 1000 | φ5mmx2.3m | 2 | 15(4pcs) |
| HRP015 | 1500 | φ6mmx2.3m | 2 | 16(4pcs) |
| HRP020 | 2000 | φ6mmx2.3m | 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

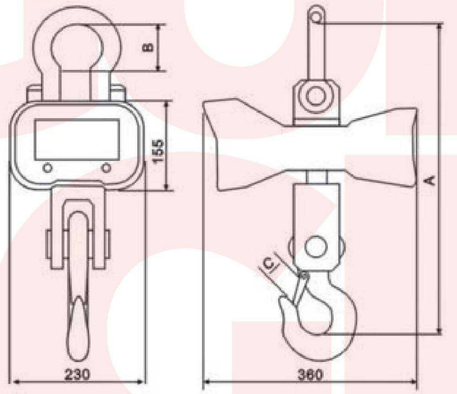


| Model | AS1418.2 Compliance applies when fitted with Approved Wire Ropes and Fittings | | | |
|---|---|---|---|---|
| | KB-S-800 | KB-S-1200 | KB-S-1800 | KB-S-2600 |
| Pull-lift capacity (kg) | 370~180 | 545~270 | 820~410 | 1200~600 |
| Hand force required(kg) | 14.5 | 15 | 22 | 19 |
| Gear ratio | 4.1:1 | 4.1:1 | 5:1 | 10:1 |
| Hub diameter(mm) | ⌀40 | ⌀50 | ⌀70 | ⌀80 |
| Handle length(mm) | 160 | 210 | 320 | 320 |
| Unit weight(kg) | 3 | 3.3 | 8 | 10.3 |
| Rope diameter(mm) | ⌀4 | ⌀5 | ⌀7 | ⌀8 |
| 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



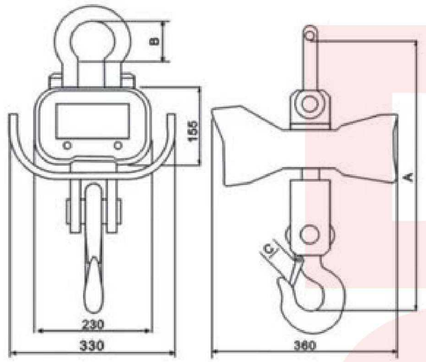




| Model | Max Cap(kg) | Min Division(kg) | Dimensions(mm) | | | N.W.(kg) |
|---|---|---|---|---|---|---|
| | | | A | B | C | |
| OCS-1-A/B | 1000 | 0.5 | 420 | 65 | 35 | 12 |
| OCS-2-A/B | 2000 | 1 | 600 | 80 | 45 | 14 |
| OCS-3-A/B | 3000 | 1 | 600 | 80 | 45 | 14 |
| OCS-5-A/B | 5000 | 2 | 730 | 100 | 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







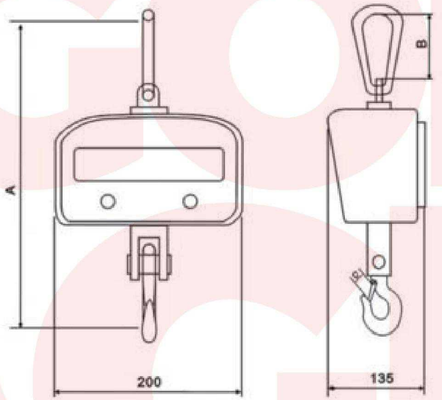
### The steel water to scale min safe distance

| Steel Temperature (℃) | Safe Distance (mm) |
|---|---|
| 1000 | 1200 |
| 1200 | 1500 |
| 1400 | 1800 |
| 1600 | 2000 |

| Model | Max Cap(kg) | Min Division(kg) | Dimensions(mm) A | B | C | N.W.(kg) |
|---|---|---|---|---|---|---|
| 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) A | B | C | N.W.(kg) |
|---|---|---|---|---|---|---|
| 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 |