



Lifting solutions for water treatment  
plants and associated industries.

## Our environment

Today, most groundwater resources or surface water do not meet the quality criteria and must be treated before being suitable for our daily requirements. We recognise that if the resourced water is to be readily available, the collection, processing, its delivery to the consumer, and the collection and treatment of wastewater require specific processes.

## Water authorities

Maintenance within water treatment plants, pumping stations and sewerage treatment will require material lifting and handling equipment.

We know each industry sector continually seeks an ecological and economic balance related to the management of its network. Our wide range of lifting and handling solutions allow you to select the correct equipment safe in the knowledge your maintenance teams have the correct equipment to safely complete the job on site.



## Associated industries

Other market sectors use of water is equally important i.e., chemical, paper, pharmaceutical, agriculture, animal husbandry. All have similar applications requiring lifting and handling solutions.

Finally, we can provide solutions and equipment with waterways, canals, irrigation, dams that have specific needs.



## Solutions

For all related industries where water is the predominate resource Columbus McKinnon are able to offer a complete range of solutions for lifting and handling adapted to suit your specific requirements.

## Who are Columbus McKinnon?

Columbus McKinnon Corporation are a leading manufacturer of lifting and handling equipment. A global organization incorporating internationally recognised product brands. We offer comprehensive solutions and turnkey lifting systems specifically adapted to the water industry: mobile light lifting equipment, cranes, gantry cranes, monorails, manual and electric hoists.

Columbus McKinnon Corporation, through its brands YALE®, PFAFF® and CM®, are ideally positioned to offer a complete material handling solution to the industry.



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## Yalelift 360 manual chain hoists

**Capacities: 500 - 20,000kg**

A hand chain hoist which opens up huge new opportunities: With our innovative design the Yalelift 360° raises the bar on safety for the operator. The range of applications as well as the operating conditions have been changed by a revolutionary hand chain design.

The key to this innovation is our revolutionary 360° rotating hand chain guide, which allows operation of the hand chain from virtually any position, even in extremely confined areas. The Yalelift 360° can be operated at the side of the load or from any other position including horizontal pulling. **The plane between top & bottom hook must always be in a straight line and a deration of the W.L.L. will apply.**

More flexibility gives greater safety - operators can now work outside of the immediate danger zone reducing the risk of operator injury.



By means of the 360° rotating hand chain guide, the user can operate the hoist from all directions and is no longer directly within the danger zone as before.

The flexibility of the Yalelift 360° allows the operator to work from directly above the load. The advantage of this application is you can have a long lift whilst using a relatively short hand chain.

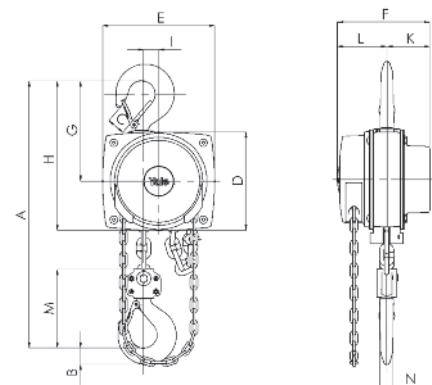
**Corrosion resistant** units are specially designed for working in corrosive environments (dairies, slaughterhouses, stationery, dry cleaners, water treatment plants etc. The hoists are fully corrosion resistant using the Delta Protekt KL 100 process, including bottom hooks.

### Options:

- Adjustable overload protection device.
- Stainless steel load and hand chains.
- Chain container.
- ATEX classification.



**Protection classification (on request)**  
 Ex II 2 GD c IIB T4 T 100° C



### Technical data

Model	Capacity kg	No. of chain falls	Pull on hand chain at WLL daN	Weight at standard lift (3m) kg	A	B	C	D	E	F	G	H	I	K	L	M	N
					mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
YL500	500	1	21	9	300	17	24	133	148	148	139	206	24	61	87	110	14
YL1000	1000	1	30	13	335	22	29	156	175	167	164	242	24	70	97	125	19
YL2000	2000	1	32	20	395	30	35	182	203	194	192	283	31	83	111	156	22
YL3000	3000	1	38	29	520	38	40	220	250	219	225	335	34	95	124	178	30
YL5000	5000	2	34	38	654	45	47	220	250	219	242	352	21	95	124	285	37



# Yalelift YLITP/YLITG hand chain hoists with integrated push or geared travel trolleys

**Capacities: 500 - 20,000kg**

The combination of the Yalelift 360 with a low headroom manual trolley provides even greater flexibility.

## Features include:

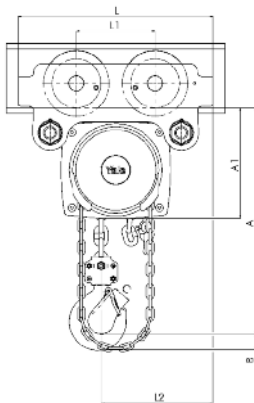
- All units up to a capacity of 3000kg have one fall of load chain so the min. headroom (Dim. A) has been further reduced. Ideal for applications with low ceilings and limited headroom.
- The simple adjustment system allows quick and easy assembly of the trolley.
- Trolleys up to 5000kg are offered for two beam ranges. Range A for a flange width up to 180mm is standard and covers approx. 80% of all requirements. Conversion to range B for beam width up to 300mm can be easily accomplished.
- The trolley wheels are designed for a max. beam profile incline of 14° (DIN 1025 - part 1), excellent rolling features are guaranteed by prelubricated, encapsulated ball bearings.
- Anti-drop and anti-tilt devices as standard.

## Options:

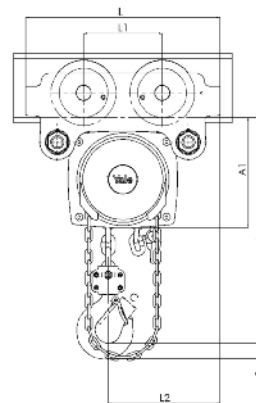
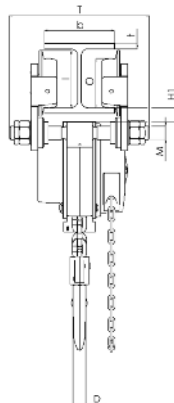
- Adjustable overload protection device.
- Stainless steel load and hand chains.
- Chain container.
- Rubber buffers (shown in photograph on the right available as optional extra).
- ATEX classification.
- Beam locking device to secure the unloaded trolley in a fixed position on the beam.



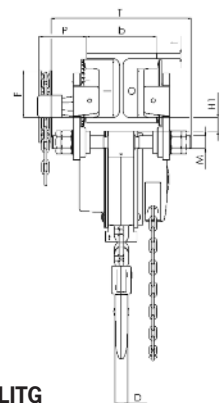
**Protection classification (on request)**  
**Ex II 2 GD c IIB T4 T 100° C**



**YLITP**



**YLITG**



## Technical data

Model	Capacity in kg / No. of chain falls	Beam width / type mm	Beam curve radius (minimum) mm	Weight at std. lift (3m) ITP kg	A	A1	B	C	D	F (ITG)	H1	I	L	L1	L2	M	O	P (ITG)	T (A)	T (B)
YLITP500	500/1	50-180 (A)	0.90	20	245	158	17	24	14	-	24.5	71.5	270	130	159	M18	60	-	280	-
YLITP500	500/1	180-300 (B)	0.90	21	245	158	17	24	14	-	24.5	71.5	270	130	159	M18	60	-	-	400
YLITP1T	1000/1	50-180 (A)	0.90	27	272	178	22	29	19	-	24	71.5	310	130	175	M22	60	-	290	-
YLITP1T	1000/1	180-300 (B)	0.90	29	272	178	22	29	19	-	24	71.5	310	130	175	M22	60	-	-	410
YLITP2T	2000/1	58-180 (A)	1.15	44	323	205.5	30	35	22	-	23.5	95.5	360	150	207	M27	80	-	305	-
YLITP2T	2000/1	180-300 (B)	1.15	46	323	205.5	30	35	22	-	23.5	95.5	360	150	207	M27	80	-	-	425
YLITG500	500/1	50-180 (A)	0.90	24	245	158	17	24	14	92	24.5	76.5	270	130	159	M18	60	108	280	-
YLITG500	500/1	180-300 (B)	0.90	25	245	158	17	24	14	92	24.5	76.5	270	130	159	M18	60	108	-	400
YLITG1T	1000/1	50-180 (A)	0.90	32	272	178	22	29	19	92	24	76.5	310	130	175	M22	60	110	290	-
YLITG1T	1000/1	180-300 (B)	0.90	33	272	178	22	29	19	92	24	76.5	310	130	175	M22	60	110	-	410
YLITG2T	2000/1	58-180 (A)	1.15	49	323	205.5	30	35	22	91	23.5	98	360	150	207	M27	80	112	305	-
YLITG2T	2000/1	180-300 (B)	1.15	50	323	205.5	30	35	22	91	23.5	98	360	150	207	M27	80	112	-	425
YLITG3T	3000/1	74-180 (A)	1.40	82	382	252	38	40	30	107	32	132.5	445	180	256	M30	112	112	320	-
YLITG3T	3000/1	180-300 (B)	1.40	84	382	252	38	40	30	107	32	132.5	445	180	256	M30	112	112	-	440
YLITG5T	5000/2	98-180 (A)	1.80	130	550	260.5	45	47	37	149.5	30.5	148.5	525	209	283	M42	125	117	364	-
YLITG5T	5000/2	180-300 (B)	1.80	134	550	260.5	45	47	37	149.5	30.5	148.5	525	209	283	M42	125	117	-	484

## Push trolley model HTP

Capacities: 500 - 2,000kg

## Gear trolley model HTG

Capacities: 500 - 5,000kg



The trolley enables the exact positioning or easy traversing of large loads with either manual or powered hoisting equipment.

### Features include:

- It has excellent rolling features due to machined steel wheels mounted on prelubricated, encapsulated ball bearings.
- Adjustable to fit a wide range of beam widths and profiles (e.g. INP, IPE and IPB).
- Adjustments are made by rotating the clevis load bar which also ensures the centred positioning of the hoist in the clevis – no creeping to the left or the right.
- The trolley wheels are designed for a max. beam profile incline of 14% (DIN 1025 - pt 1).
- Trolleys are in accordance with the UVV and machinery directives.
- Beam locking device to secure the unloaded trolley in a fixed position on the beam.

### Options:

- Lock nuts.
- Stainless steel hand chains.
- Buffers.
- ATEX classification.



Available in  
explosion proof  
version!



### Technical data - model HTP

Model	Capacity kg	Type	Beam flange width mm	Beam flange thickness kg	Closed height mm	Curve radius (minimum)	Hand effort at WLL daN	Weight kg
HTP 500	500	A	50 - 220	25	77	0.9	–	8.0
HTP 500	500	B	160 - 300	25	92	0.9	–	10.6
HTP 1000	1000	A	50 - 220	25	82.5	0.9	–	9.0
HTP 1000	1000	B	160 - 300	40	97.5	0.9	–	12.0
HTP 2000	2000	A	66 - 220	40	98.5	1.15	–	16.0
HTP 2000	2000	B	160 - 300	40	113.5	1.15	–	19.3

### Technical data - model HTG

Model	Capacity kg	Type	Beam flange width mm	Beam flange thickness kg	Closed height mm	Curve radius (minimum)	Hand effort at WLL daN	Weight kg
HTG 500	500	A	50 - 220	25	77	0.9	3	9.7
HTG 500	500	B	160 - 300	25	92	0.9	3	12.6
HTG 1000	1000	A	50 - 220	25	82.5	0.9	6	11.2
HTG 1000	1000	B	160 - 300	40	97.5	0.9	6	14.1
HTG 2000	2000	A	66 - 220	40	98.5	1.15	7	18.0
HTG 2000	2000	B	160 - 300	40	113.5	1.15	7	21.3

# CPS electric chain hoist

**Capacities: 125 - 250kg**

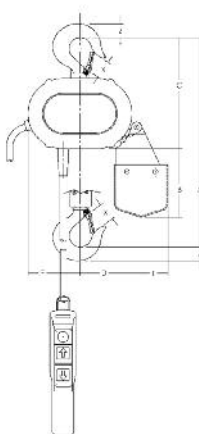
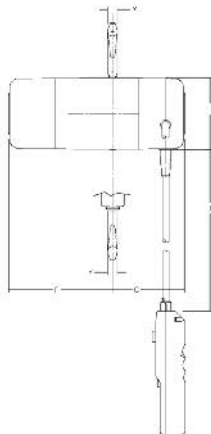
The CPS electric chain hoist lifts loads up to 250kg - **yet weighs from only 12kg.**

With an M4 high duty rating, the rugged CPS electric chain hoist keeps lifting and lifting - up to 240 motor starts per hour. It's easy to install and maintain, making it ideal for jib and light crane systems.

The CPS electric chain hoist is built to the highest standards (just like all Yale products) and offers unequalled levels of build quality and reliability. Our warranty, repair and full after-sales service will allow you to recommend this excellent product with confidence.

## Features include:

- Easy installation and maintenance.
- IP54 as standard.
- 48v Control voltage.
- Overload protection device as standard.
- 10-pocket oblique-lay lift wheel for smooth chain operation, constant chain speed and reduced chain wear.
- Optional impact-resistant chain container.
- Gear train lifetime lubricated with non-oxidising grease.
- Alloy load chain for smooth operation and maximum chain life.
- Thermally protected hoist motor.
- D.C. regenerative braking.
- Rugged cast aluminium alloy hoist frame.
- 5 : 1 factor of safety.
- Small, compact design for commercial applications.
- Rigid latch-style upper hook prevents tangling of power cord.
- Hardened forged steel latch-style lower hook rotates 360°.
- Totally enclosed non-ventilated hoist frame protects the motor from environmental contamination.
- True vertical lift.
- Precision bearings used in the hoist.



**Protective raincoats available on request.**



## Chain containers

Model	Maximum height of lift (mtr)	
	125kg unit	250kg unit
CC2063	3	-
CC2064	3	-
CC2065	3	-
CC2066	3	-
CC2067	3	-

## Technical data

Model	Capacity in kg / No. of falls	Supply	Lifting speed	ED duty	Chain dimensions	Weight at standard 3m height of lift
			mpm	%		
CPS 110/1-4	125/1	110v 1ph 50hz	4	40	4 x 12.2	11.5
CPS 230/1-4	125/1	230v 1ph 50hz	4	40	4 x 12.2	11.5
CPS 400/1-4	125/1	400v 3ph 50hz	4	40	4 x 12.2	11.5
CPS 400/1-10	125/1	400v 3ph 50hz	10	40	4 x 12.2	11.5
CPS 110/2-2	250/2	110v 1ph 50hz	2	40	4 x 12.2	14
CPS 230/2-2	250/2	230v 1ph 50hz	2	40	4 x 12.2	14
CPS 400/2-2	250/2	400v 3ph 50hz	2	40	4 x 12.2	14
CPS 400/2-5	250/2	400v 3ph 50hz	5	40	4 x 12.2	14

## Dimensions

Capacity	125kg	250kg
A, mm	276	303
B, mm	98	146
C, mm	159	159
D, mm	75	60
E, mm	76	91
F, mm	160	160
G, mm	227	227
H, mm	103	103
I, mm	52	52
J, mm	1905	1905
X, mm	25	25
Y, mm	14	14
Z, mm	21	21



## Optional extras:

- Suspension hook.
- Manual and electric trolleys.
- Festoon cable system.
- Stainless steel load chain.
- Radio remote control.
- Other operating voltages.
- Thermal overload.

## CPV/CPVF electric chain hoist with suspension lug or integrated travel trolley

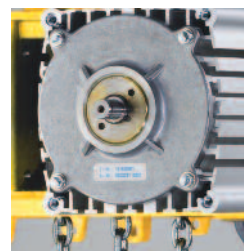
**Capacities: 125 - 2000kg**

The new Yale electric chain hoist, model CPV/CPVF, combines modern design and technical innovation.

A robust construction makes the series a versatile tool for industrial applications. Upper and lower limit switches considerably extend the working life span of the slipping clutch, motor, and gearbox.

### Features include:

- Load sprocket and chain guide can easily be inspected or removed, without disassembly of the complete unit.
- Designed to FEM 1Am H3 (HMI).
- Main line contactor for increased safety.
- Duty cycle 50% ED for single speed.
- Electromagnetic spring pressure brake holds the load safely even in the event of power failure.
- The externally adjustable slip clutch is designed to guarantee a permanent connection between the load and the brake.
- Motor classification H3 and protected to IP 55 against ingress of dust and water jets.
- Standard operating voltage: 400v, 3Ph, 50hz.
- Increased operating safety through 42v low voltage control with encapsulated pendant control to IP 65.
- Suspension lug (as standard) for reduced headroom and easy integration into trolley applications.
- The oil bath lubricated gearbox contains case hardened helical cut gearing for smooth, low noise running, and enhanced lifetime.
- Fully compatible with the VTE/S range of trolleys.
- Operating temperature -10° to +40°.



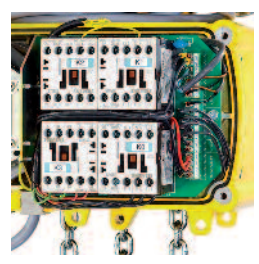
Externally adjustable slipping clutch.



Integrated limit switches, and easily removable chain sprocket & guide.



Encapsulated pendant control and radio remote control to IP 65.



Increased operating safety through 42v low voltage control.





**CPV fitted with power travel trolley.**



**Top hook unit fitted with chain container.**



**Protective raincoats available on request.**

#### Technical data - model CPV/CPVF

Model	Capacity in kg / No. of falls	Chain dimensions d x p mm	Classification flange width FEM/ISO	Lifting speed**** main lift m/min	Lifting speed fine lift m/min	Hoist motor kW	Motor rating ED %	Weight* suspension lug kg	Weight* push trolley** kg	Weight* electric trolley** kg
CPV 2-8	250/1	4 x 12.2	1 Am/M4	8	–	0.37	50	24	39	47
CPVF 2-8	250/1	4 x 12.2	1 Am/M4	8	2	0.37/0.09	33/17	25	40	48
CPV 5-4	500/2	4 x 12.2	1 Am/M4	4	–	0.37	50	25	40	48
CPVF 5-4	500/2	4 x 12.2	1 Am/M4	4	1	0.37/0.09	33/17	26	41	49
CPV 5-8	500/1	5 x 15.1	1 Am/M4	8	–	0.75	50	26	41	49
CPVF 5-8	500/1	5 x 15.1	1 Am/M4	8	2	0.75/0.18	33/17	27	42	50
CPV 10-4	1000/2	5 x 15.1	1 Am/M4	4	–	0.75	50	28	43	51
CPVF 10-4	1000/2	5 x 15.1	1 Am/M4	4	1	0.75/0.18	33/17	29	44	52
CPV 10-8	1000/1	7.1 x 20.5	1 Am/M4	8	–	1.5	50	58	77	84
CPVF 10-8	1000/1	7.1 x 20.5	1 Am/M4	8	2	1.5/0.37	33/17	59	78	85
CPV 20-4	2000/2	7.1 x 20.5	1 Am/M4	4	–	1.5	50	63	82	89
CPVF 20-4	2000/2	7.1 x 20.5	1 Am/M4	4	1	1.5/0.37	33/17	64	83	90

\*Weight at standard lift (3 m). Other lifting heights on request.

\*\*For trolleys type A and B: Additional weight for geared trolley (VTG): 2.5kg.

\*\*\*For electric trolley (VTE) with 2 speeds +2.0kg.

\*\*\*\*Lifting speed CPV 10-8 at 230 V, 1-phase, 50 Hz = 4 m/min. Lifting speed CPV 20-4 at 230 V, 1-phase, 50 Hz = 2 m/min.

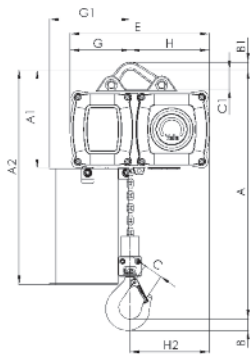
#### Technical data trolleys

Suitable for	Capacity kg	Size	Beam flange width b mm	Beam flange thickness t max. mm	Curve radius min m	Electric trolley travel speed m/min at 50 Hz	Electric trolley motor kW at 50 Hz
CPV 2-8 up to CPVF 10-4	1000	A	58 - 180	19	0.9	18 or 18/4.5	0.18 or 0.18/0.06
CPV 2-8 up to CPVF 10-4	1000	B	180 - 300	19	0.9	18 or 18/4.5	0.18 or 0.18/0.06
CPV 10-8 up to CPVF 20-4	2000	A	58 - 180	19	1.15	18 or 18/4.5	0.18 or 0.18/0.06
CPV 10-8 up to CPVF 20-4	2000	B	180 - 300	19	1.15	18 or 18/4.5	0.18 or 0.18/0.06

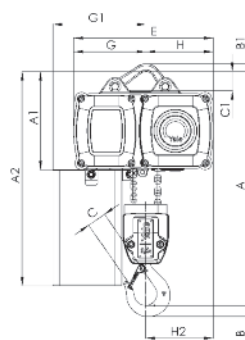
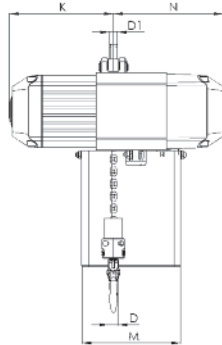
## Dimensions - model CPV/CPVF

Model	CPV/CPVF 2-8	CPV/CPVF 5-4	CPV/CPVF 5-8	CPV/CPVF 10-4	CPV/CPVF 10-8	CPV/CPVF 20-4
A, mm	357	393	357	430	431	528
A1, mm	196	196	196	196	234	234
A2 (Size I), mm	476	476	476	476	564	564
A2 (Size II), mm	526	526	526	526	644	644
A2 (Size III), mm	606	606	606	606	734	734
A2 (Size IV), mm	798	798	798	798	934	934
B, mm	22	22	22	29	29	37
B1, mm	15	15	15	15	20	20
C, mm	29	29	29	35	35	40
C1, mm	38	38	38	38	45	45
C2, mm	105	105	105	105	154	154
D, mm	15	15	15	21	21	26
D1, mm	15	15	15	15	15	15
E, mm	277	277	277	277	326	326
G, mm	120	144	120	144	140	173
G1 (Size I), mm	142	166	142	166	175	208
G1 (Size II), mm	162	186	162	186	175	208
G1 (Size III), mm	162	186	162	186	175	208
G1 (Size IV), mm	162	186	162	186	175	208
H, mm	157	133	157	133	186	154
H2, mm	158	158	158	158	186	186
K (CPV), mm	208	208	208	208	285	285
K (CPVF), mm	208	208	208	208	285	285
M (Size I), mm	162	162	162	162	209	209
M (Size II), mm	197	197	197	197	209	209
M (Size III), mm	197	197	197	197	209	209
M (Size IV), mm	197	197	197	197	209	209
N*, mm	219	219	219	219	274	274

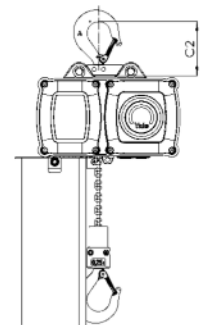
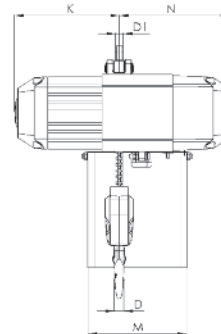
\*for 230 V, 1-phase, 50 Hz: +35mm.



Model CPV/CPVF  
with suspension lug, 250 - 1000kg, single fall.



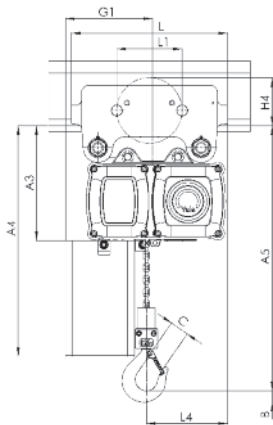
Model CPV/CPVF  
with suspension lug, 500 - 2000kg, double fall.



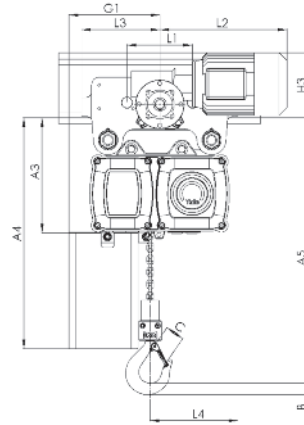
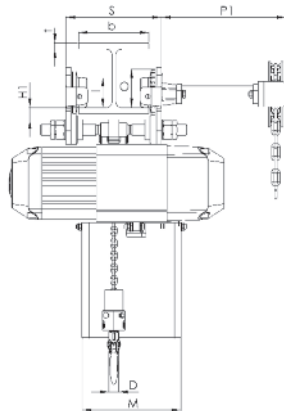
Model CPV/CPVF  
with suspension hook,  
250 - 2000kg.

## Dimensions - model CPV/CPVF

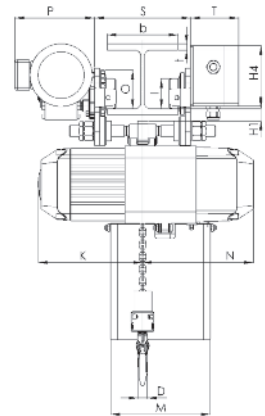
Model	CPV/CPVF 2-8	CPV/CPVF 5-4	CPV/CPVF 5-8	CPV/CPVF 10-4	CPV/CPVF 10-8	CPV/CPVF 20-4
A3, mm	228	228	228	228	263	263
A4 (Size I), mm	508	508	508	508	593	593
A4 (Size II), mm	558	558	558	558	673	673
A4 (Size III), mm	638	638	638	638	768	768
A4 (Size IV), mm	830	830	830	830	968	968
A5, mm	389	425	389	462	460	558
b, mm	A = 58 - 180/ B = 180 - 300	A = 58 - 180/ B = 180 - 300	A = 58 - 180/ B = 180 - 300	A = 58 - 180/ B = 180 - 300	A = 58 - 180/ B = 180 - 300	A = 58 - 180/ B = 180 - 300
H1, mm	24	24	24	24	23	23
H3, mm	129	129	129	129	129	129
H4 (VTG), mm	95	95	95	95	95	95
H4 (VTE), mm	142	142	142	142	142	142
I (Pushed trolley), mm	72	72	72	72	96	96
I (Geared trolley), mm	77	77	77	77	98	98
L (VTP/VTG), mm	310	310	310	310	360	360
L1, mm	130	130	130	130	150	150
L2 (CPV), mm	255	255	255	255	255	255
L2 (CPVF), mm	263	263	263	263	263	263
L3, mm	155	155	155	155	180	180
L4, mm	136	161	173	161	203	203
O, mm	60	60	60	60	80	80
P, mm	180	180	180	180	180	180
P1, mm	246	246	246	246	246	246
S, mm	b + 50	b + 50	b + 50	b + 50	b + 54	b + 54
T, mm	94	94	94	94	94	94
t max., mm	19	19	19	19	19	19



Model CPV/CPVF  
with integrated manual push or geared trolley.



Model CPV/CPVF  
with integrated electric trolley.



## CM Lodestar electric chain hoist

**Capacities: 250 - 3000kg**

The Lodestar hoist is a tough and durable electric chain hoist, designed to keep working in the most arduous applications.

This hoist is recognised and proven within the hire industry as the number one hoist, where high duty, combined with long heights of lift are required.

From hook suspension in the rental industry to trolley mounted in a factory production line, the Lodestar has a proven reputation as the solution for industrial strength lifting.

Standard operating voltage: 110v 1ph 50Hz, 230v 1ph 50Hz, and 400v 3ph 50Hz are all available ex-stock.

### Features and benefits include:

- Tough lightweight aluminium alloy covers totally enclose the mechanical and electrical components providing protection and efficient heat dissipation. The design enables easy access for installation and service.
- Adjustable upper and lower limit switches.
- 48v control, IP65 pendant as standard.
- IP54 protection.
- Thermal overload protection as standard.
- FEM classification 2m (50% duty - 30 minutes continuous use per hour).
- Motor classification H4 (HMI)
- Excellent closed height dimensions.
- A lifetime lubricated gearbox contributes to exceptional service and maintenance characteristics.
- Single phase hoist supplied with handles and 1mtr supply cable with Cee-Form plug.
- 3-phase single speed hoist motors are dual voltage.
- Load hook with axial bearing.
- Ideal for long heights of lifts.



### Optional extras:

- Push, geared or powered travel trolleys (up to 2000kg).
- Festoon cable system.
- Stainless steel load chain (model C & F)
- Radio remote control.
- Chain containers.
- Rain covers.

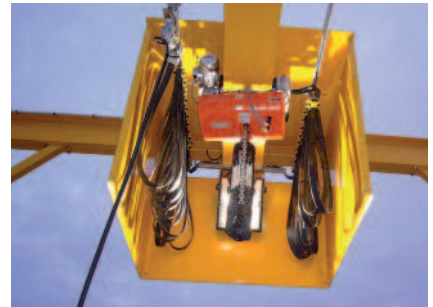


**CM**®  
***“Heavy duty...and more!”***





**Protective raincoats  
available on request.**



#### Technical data - model CM Lodestar

Model	Operating voltage	Capacity in kg / No. of falls	Lifting speed m/min	Chain dimensions d x p mm	Hoist motor kW	Weight* top hook suspension kg	Weight* push travel trolley kg	Weight* geared travel trolley kg	Weight* electric travel trolley	
C	110v 1ph 50Hz	250/1	8	6.3 x 18.9	0.37	29	40	43	84	-
C	110v 1ph 50Hz	250/1	8	6.3 x 18.9	0.37	29	40	43	84	-
F	110v 1ph 50Hz	500/1	4	6.3 x 18.9	0.37	29	40	43	84	-
F	110v 1ph 50Hz	500/1	4	6.3 x 18.9	0.37	29	40	43	84	-
J	110v 1ph 50Hz	500/1	8	7.9 x 21.7	0.75	51	63	66	107	-
J	230v 1ph 50Hz	500/1	8	7.9 x 21.7	0.75	51	63	66	107	-
L	110v 1ph 50Hz	1000/1	4	7.9 x 21.7	0.75	52	70	73	108	-
L	230v 1ph 50Hz	1000/1	4	7.9 x 21.7	0.75	52	70	73	108	-
LL	400v 3ph 50Hz	1000/1	8	7.9 x 21.7	0.75	52	70	73	108	110
LL2	400v 3ph 50Hz	1000/1	8/2.5	7.9 x 21.7	0.75	53	71	74	109	111
R	110v 1ph 50Hz	2000/2	2	7.9 x 21.7	0.75	58	77	80	113	-
R	230v 1ph 50Hz	2000/2	2	7.9 x 21.7	0.75	58	77	80	113	-
RR	400v 3ph 50Hz	2000/2	4	7.9 x 21.7	0.75	58	77	80	113	115
RR2	400v 3ph 50Hz	2000/2	4/1.3	7.9 x 21.7	0.75	59	78	81	114	116
RT	110v 1ph 50Hz	3000/3	1.33	7.9 x 21.7	0.75	64	-	-	-	-
RT	230v 1ph 50Hz	3000/3	1.33	7.9 x 21.7	0.75	64	-	-	-	-

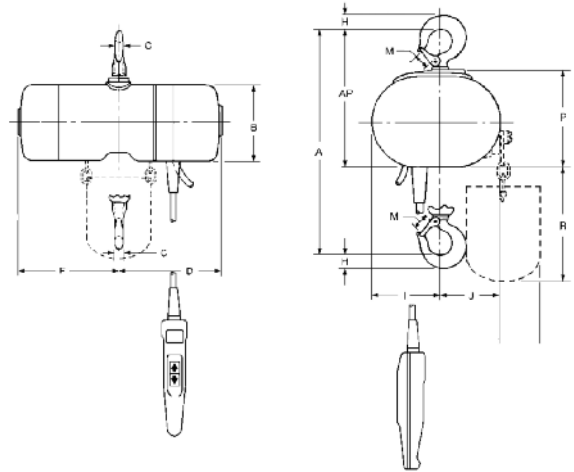
\*Weight at standard lift (3 m). Other lifting heights on request.

#### Technical data - trolleys

Suitable for	Capacity kg	Beam flange width mm	Curve radius minimum m	Electric trolley travel speed m/min at 50 Hz	Electric trolley motor kW at 50 Hz
models C, F, J, L	250 - 1000	58 - 180	0.9	18 or 18/4.5	0.37 or 0.3/0.09
models C, F, J, L	250 - 1000	180 - 300	0.9	18 or 18/4.5	0.37 or 0.3/0.09
models R, RR, RR2	2000	58 - 180	1.15	18 or 18/4.5	0.37 or 0.3/0.09
models R, RR, RR2	2000	180 - 300	1.15	18 or 18/4.5	0.37 or 0.3/0.09

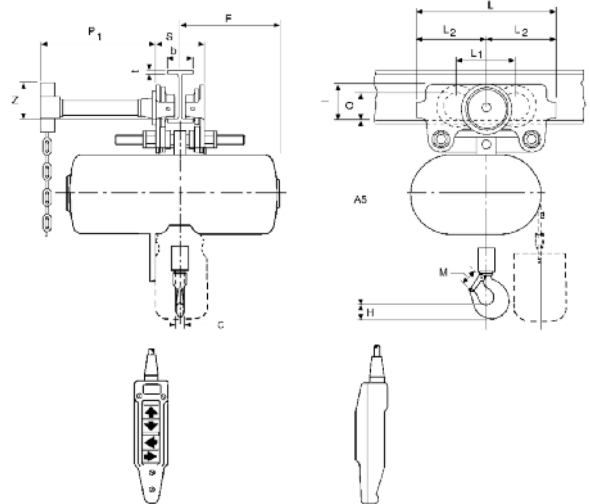
## Dimensions - CM Lodestar with hook suspension

Model	CM Lodestar C, F 250 / 500	CM Lodestar J, L, LL, LL2 500 / 1000	CM Lodestar R, RR, RR2 2000
A, mm	413	471	613
B, mm	156	194	194
C, mm	17	22	28
D, mm	279	241	241
F, mm	197	271	271
H, mm	25	30	38
I, mm	122	184	157
J, mm	100	138	165
M, mm	25	28	33
P, mm	168	198	198
R, mm	250	327	480
AP, mm	235	271	284



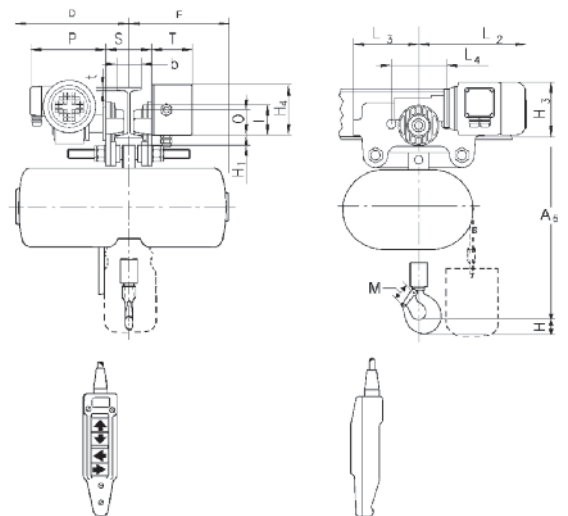
## Dimensions - CM Lodestar with push or geared trolley

Model	CM Lodestar C, F 250 / 500	CM Lodestar J, L, LL, LL2 500 / 1000	CM Lodestar R, RR, RR2 2000
A4 (3m), mm	496	597	754
A5, mm	427	470	603
D, mm	279	241	241
F, mm	197	271	271
H1, mm	24	24	24
H3, mm	129	128	128
H4, mm	92	91	91
I, mm	77	98	98
L, mm	310	360	360
L1, mm	130	150	150
L2, mm	255	255	255
L3, mm	155	180	180
L4, mm	143	179	179
O, mm	60	80	80
P, mm	187	187	187
P1, mm	295	295	295
S, mm	b+50	b+54	b+54
T, mm	19	19	19



## Dimensions - CM Lodestar with electric travel trolley

Model	CM Lodestar C, F 250 / 500	CM Lodestar J, L, LL, LL2 500 / 1000	CM Lodestar R, RR, RR2 2000
A4 (3m), mm	496	597	754
A5, mm	427	470	603
D, mm	279	241	241
F, mm	197	271	271
H1, mm	24	24	24
H3, mm	129	128	128
H4, mm	125	110	110
I, mm	77	98	98
L, mm	410	435	435
L (2 speed), mm	420	445	445
L1, mm	130	150	150
L2, mm	255	255	255
L2 (2 speed), mm	265	265	265
L3, mm	155	180	180
L4, mm	143	179	179
O, mm	60	80	80
P, mm	187	187	187
P1, mm	295	295	295
S, mm	b+50	b+54	b+54
T, mm	19	19	19



## Protective covers for electric chain hoists

These protective covers have been developed specifically for each model of electric hoists.

They help protect against rain and moisture when installed outdoors, are made of waterproof polyester and allow the operation of the hoist.

Installation possible when the hoist is already in place.

**Available to suit:**

- CPS.
- Lodestar.
- CPV/CPVF.





## Portable gantry

**Unique portable gantry system that can safely lift up to 5000kg, with manual assembly on just 4 bolts.**

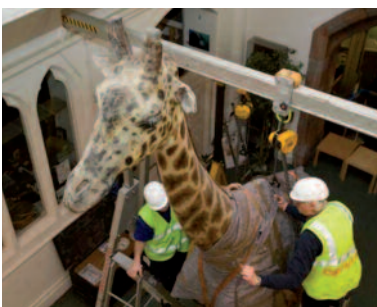
Innovative, lightweight, portable, safe and very strong, the portable gantry lifting system is the number one choice for organisations seeking safe, multiple location lifting solutions and a healthy return on investment.

Its unique capabilities have proven to satisfy Finance, Operations, Health & Safety as well as users.



### Features and benefits include:

- Lightweight & portable with easy on site manual assembly:
  - 4 portable parts assembled on just 4 bolts.
  - Simple 'scissoring' assembly in just 2-3 minutes.
  - 360° swivellocking castors as standard for easy positioning.
  - All Terrain castors & uneven ground options available.
  - Simple, manual height & span adjustment.
  - Ultra-safe, captive trolley.
  - Flat-packed for shipping & storage.
- Bolted structure, lateral beam and leg bracing features allow complete stability for any lifting challenge.
- Corrosion resistant, anodised finish – easily cleaned and suitable for "clean room" applications.
- Total safety – Notified Body Approval - type tested at UKAS accredited laboratories and audited quality systems. CE & EN795 Class B approved by notified body.
- Ergonomic design of profiles, handles, etc., for safer operation.
- Flexible system configurations WLL 500 up to 5000kg safely – within manual handling guidelines.
- Variety of sizes - S,M,I,T standard configurations plus customisation where required, with interchangeable components (subject to WLL rating).
- Bespoke solutions for specific requirements.





Easy transport and manual assembly without compromising on strength or safety (WLL up to 5000kg).  
Custom configurations are available across the range.

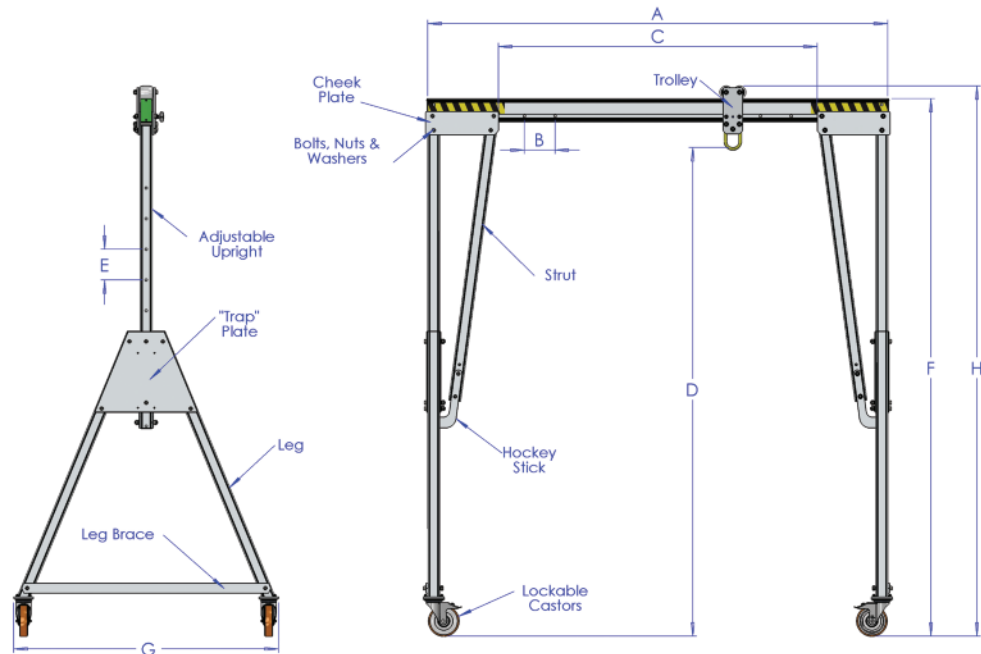
**Each portable gantry system comprises:**

- 2 x A-Frames (or custom alternatives).
- Trolley - fully encapsulated for safety.
- Beam lengths up to 9000mm (WLL dependent).

**With standard beam lengths:**

- 2500mm.
- 3000mm.
- 3920mm.
- 4570mm.
- 5500mm.
- 6000mm.
- 8400mm (D section Max).
- 9000mm.

(NB Dim C = clear operating span = A - 920mm).



**NOTE - beam height adjustment**

The height of each gantry beam is easily adjusted by the release of 2 bolts on each upright and can be easily and safely raised into position by increments of 200 or 150mm.

To assist with this activity a Geared Wheel or Ratchet system is provided for the larger gantries; manual on smaller frames.

Technical data / dimensions (S) = Small (M) = Medium (I) = Intermediate (T) = Tall										
Capacity WLL kg	Frame size	Maximum height to lifting eye D max. mm	Height increment E mm	Min. height to lifting eye D min. mm	Max. height to top of beam F max. mm	Max. height to top of roller H max. mm	Min. height to top of roller H min. mm	Width G mm	A-Frame kg	Castor size mm
500	S	2355	5 x 150	1605	2675	2757	2007	1212	33	85 x 150
	M	2851	5 x 150	2101	3171	3253	2503	1429	40	85 x 150
	I	3188	5 x 200	2188	3499	3581	2581	1726	46	85 x 200
	T	4079	6 x 200	2879	4399	4481	3281	2011	51	85 x 200
1000	S	2355	5 x 150	1605	2675	2757	2007	1212	33	85 x 150
	M	2851	5 x 150	2101	3171	3253	2503	1429	40	85 x 150
	I	3188	5 x 200	2188	3499	3581	2581	1726	46	85 x 200
	T	4079	6 x 200	2879	4399	4481	3281	2011	51	85 x 200
2000	S	2355	5 x 150	1605	2675	2757	2007	1212	33	85 x 150
	M	2851	5 x 150	2101	3171	3253	2503	1429	40	85 x 150
	I	3188	5 x 200	2188	3499	3581	2581	1726	46	85 x 200
	T	4079	6 x 200	2879	4399	4481	3281	2011	51	85 x 200
3000	S	2410	5 x 150	1660	2730	2812	2062	1212	55	85 x 200
	M	2906	5 x 150	2156	3226	3308	2558	1429	60	85 x 200
	I	3188	5 x 200	2188	3499	3581	2581	1726	70	85 x 200
	T	4079	6 x 200	2879	4399	4481	3281	2011	82	85 x 200
5000	I	3181	5 x 200	2181	3592	3717	2717	1736	97**	125 x 200
	T	4049	6 x 200	2849	4487	4612	3412	2021	106**	125 x 200

All WLL ratings can be produced in each standard frame size.

Custom spans, height and working load limits (WLL) on application.

All dimensions based on standard masterlink trolley (other options available).

NB PG5000 beam depth (250mm), trolley depth (570mm) & trolley top above beam (125mm) are larger than the standard beam depth (152mm), trolley depth (385mm) and trolley top above beam (82mm).

\*\* This weight includes the stabiliser leg option.

Please note that dimensions may vary marginally.

No leg brace fitted on 'S' systems.

## Portable 'rapid' gantry

**A unique ultra-light & rapidly deployable gantry that provides a versatile lifting solution for goods and personnel.**

The portable 'rapid' gantry adds exciting new dimensions to the portable gantry family, as a unique rapid deployment system with goods and personnel lifting (Man-ride) certification to EN795 Class B.



### Portability

- Transport or carry by 1 or 2 people.
- Total weight from just 33kg.



### Load trolley

- Innovative quick release trolley or sheave carrier fitted in seconds.



### "Quick release pins"

- Assembly with ball lock pins, no bolts or tools required, in less than a minute.



### Compact

- Frames easily fold on to beam forming compact, stowable unit.



### Stowability

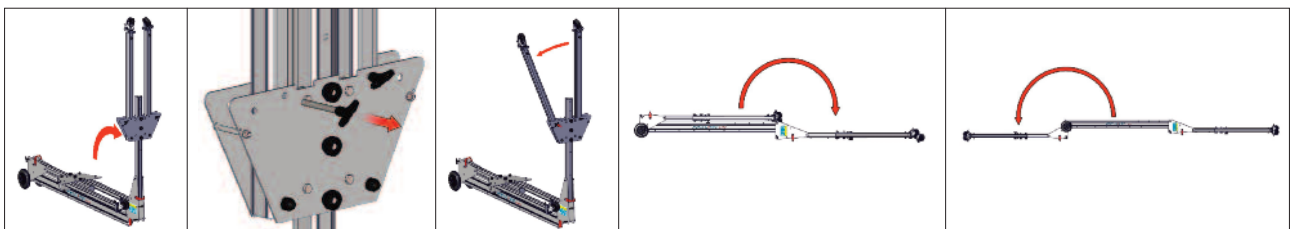
- All components fold neatly and stow on structure. Product fits into a typical service van.



### "Rapid attachments"

- Winching options can be quickly added without the need for tools.

## ASSEMBLY



## Lightweight, portable, safe lifting solutions.

### Features and benefits include:

- Dual rated for goods and personnel lifting.
  - Goods rated up to WLL 500kg.
  - Designed to exceed EN795 Class B\*, OSHA, ANSI and CSA standards.
  - Personnel rated up to WLL 250kg.
  - Up to 3 x person fall arrest capability in a range of configurations\*\*
  - Adaptable, multi purpose trolleys – goods & personnel lifting.

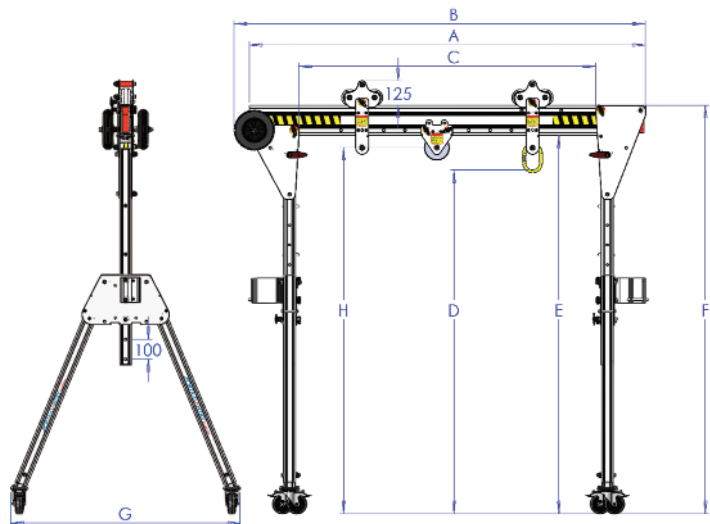
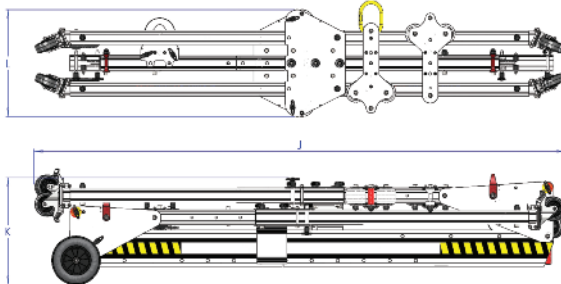
- Load bearing, lockable castors for easy positioning\*\*\*
- Range of beam lengths and configurations available.

\*Notified body approval: SGS UK (0120).

\*\*Fall arrest capability reduced when goods load simultaneously applied.

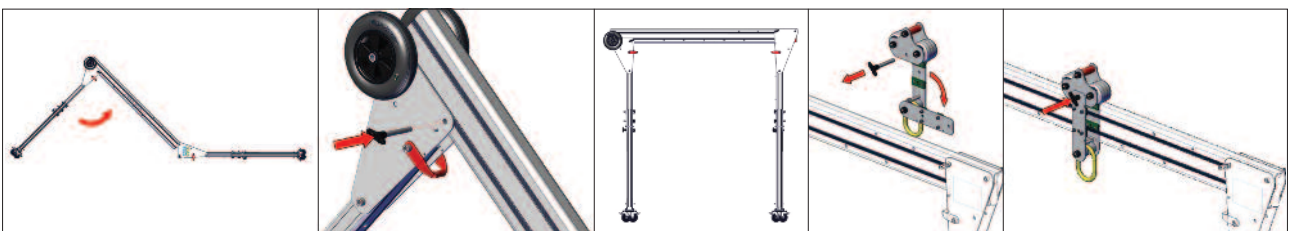
\*\*\* ACOP – advises no gantry movement under load except where a “competent person” has undertaken a suitable risk assessment & method statement and deems appropriate.

Patent pending.

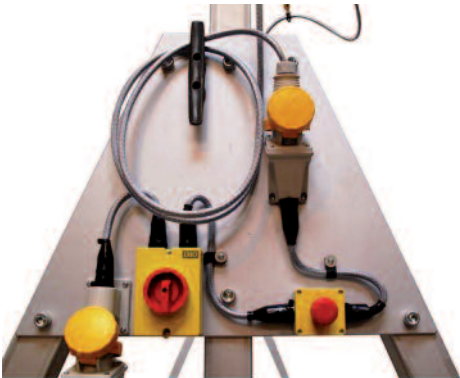


### Technical data / dimensions

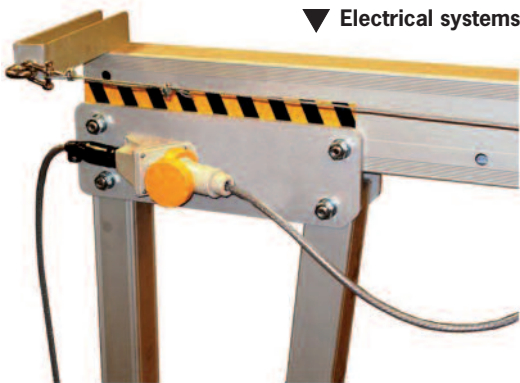
Model	Dimensions																Unit weight mm
	A mm	B mm	C min. mm	C max. mm	D min. mm	D max. mm	E min. mm	E max. mm	F min. mm	F max. mm	G mm	H min. mm	H max. mm	J mm	K mm	L mm	
PGRS20	2000	2076	1100	1500	1738	1938	1914	2114	2064	2264	1158	1850	2050	2190	415	440	33
PGRS23	2300	2376	1200	1800	1738	1938	1914	2114	2064	2264	1158	1850	2050	2376	415	440	34
PGRS40	4000	4076	2700	3500	1738	1938	1914	2114	2064	2264	1158	1850	2050	4076	415	440	40
PGRM20	2000	2076	1100	1500	1642	2042	1818	2218	1968	2368	1215	1755	2155	2076	415	440	34
PGRM20	2300	2376	1200	1800	1642	2042	1818	2218	1968	2368	1215	1755	2155	2376	415	440	34
PGRM20	4000	4076	2700	3500	1642	2042	1818	2218	1968	2368	1215	1755	2155	4076	415	440	40
PGRT20	2000	2076	1100	1500	1916	2816	2092	2992	2242	3142	1586	2028	2928	2631	415	440	38
PGRT23	2300	2376	1200	1800	1916	2816	2092	2992	2242	3142	1586	2028	2928	2631	415	440	39
PGRT40	4000	4076	2700	3500	1916	2816	2092	2992	2242	3142	1586	2028	2928	4076	415	440	44



**Options and accessories:**



▲ Electrical systems.



▼ Electrical systems.



◀ Electrical and power equipment to hoist line.



◀ Pneumatic wheels and stabiliser.



▲ Trolleys with integrated hoist.



▲ Castors with standard brake.



◀ Trolleys with integrated hoist.



▲ Additional trolleys with or without ring.



## Applications:





## Portable davit - 500kg

**Lightweight, 2 piece, bagged davit system with WLL up to 500kg, yet only 24kg fully assembled.**

With a safe lifting capacity of up to 500kg, yet made of lightweight aluminium and weighing, fully assembled 24kg (standard product), the portable davit system is literally a one person 'pick up and go' lifting system.

Manufactured using the innovative design, the portable davit bagged system can be easily transported by hand to any site that a single person can access.

Make lifting challenges safer and more cost effective with a portable davit:

- Less is more - 1 davit serves many locations.
- Low maintenance costs - protective heavy duty bag, only exposed to environment when needed.
- Centralised inspections and testing - reducing costs.
- Safer to use - Manual handling compliant and clean to use - easily cleaned.
- Better for environment - less materials, easily recycled, with high residual value and quality regional supply chain - lower carbon footprint.

The portable davit is available in several variations to the base unit including standard winched versions, extended radius (eg WLL 350kg, 150mm radius), socket extensions, and portable base and counter balanced versions.

### The facts:

- Lightweight and portable - standard unit just 24kg assembled.
- Strong yet light - high tensile aluminium alloy.
- Simple assembly, 2 piece design, no tools needed.
- WLL 500kg.
- Internal bearing system - 360° rotation under finger tip control.
- Radius adjustment (800-1200mm as standard) with shock load strap.
- Corrosion resistant, high tensile aluminium alloy (powder coated finish) with low maintenance.
- Manual handling compliance without mechanical aids - no tools required.
- CE & EN795 Class B approved by notified body.
- Store and transport in heavy duty bag for easy handling and segregation.
- Universal Kingpin - mates with wide range of sockets (or sleeves for existing sockets) as well as the unique portable davit - *the ultimately flexible system for use where no sockets are installed or possible.*



## Portable davit man-rated options (500kg unit only)

The portable davit is available in three forms rated for personnel applications:

- Standard davit with a fall arrest unit fitted to a shackle (fall protection).
- With a man rated winch to lower and raise personnel and separate fall arrest unit with or without integral retrieval winch.
- With a fall arrest with integral retrieval winch where the man moves on a ladder or climbing.

The 500kg portable davit system (shown on page 22) is approved to EN795 Class B for anchor devices, giving protection against falls from a height. Fall-arrest units must be compliant with EN360. We recommend that the portable davit unit has a dedicated man-ride rating only and is set at the minimum possible operating radius; however, it is possible to have the davit dual rated at 120kg for man ride and 500kg goods lifting. When used for man-ride applications the portable davit unit **MUST** be dedicated to the man-ride application only and there should be no goods load attached to the davit.

## Portable davit - 1000kg

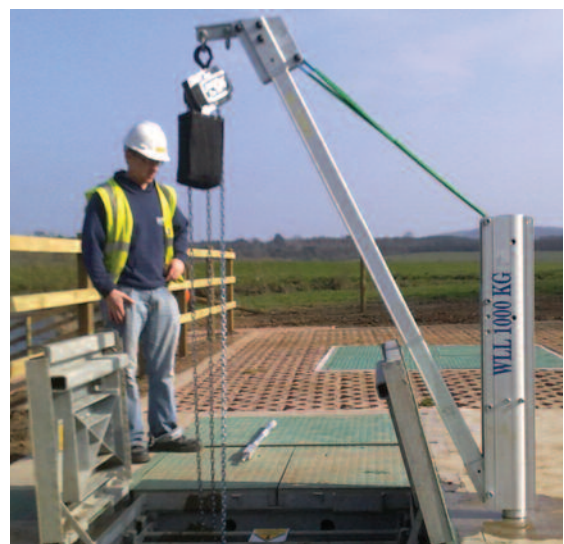
### The first truly portable WLL 1000kg lightweight davit system

- Goods rating WLL 1000kg at 900-1200mm radius.
- Height of lift - 2000mm to shackles on standard unit.
- Light weight - custom profiles maximise strength/weight.
- Portable - 3 components - column, jib & head: 39kg total.
- Single person assembly - no tools required.
- Easy rotation - bearing system allows easy rotation and rotation bar supplied as option.
- Store and transport in heavy duty bags.

**Custom versions to meet specific requirements can be quoted upon request.**

NB: 95mm sockets required for this product.

\*The 1000kg is NOT suitable for man riding applications.



## Rotation davits

**An extensive range of davits offering WLL up to 500kg with 360° rotation under finger tip control for those difficult locations giving a wide range of standard height and radius options - customisation available.**

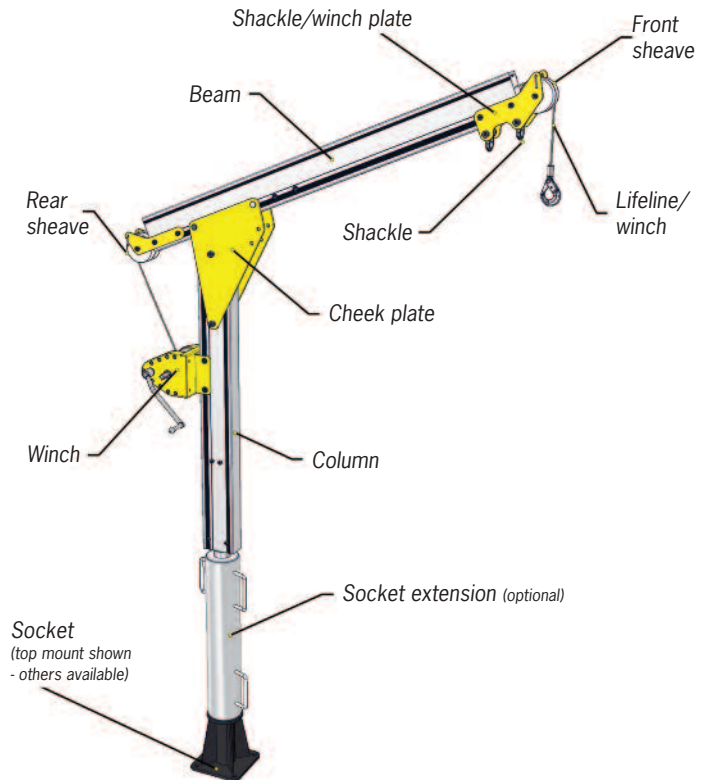
Particularly suited to situations with environment constraints (headroom, handrails etc). Designed to comply with manual handling regulations and to avoid working at height.

### The facts:

- Lightweight, portable, safe, custom units to meet specific challenging requirements:
  - Manual Handling compliant.
  - Reduced maintenance costs.
  - Bagged for easy transportation and storage.
- Rating:
  - Goods rated up to WLL 500kg.
  - 1 person fall arrest (EN795:2012)\* and personnel winching.
- Operational radius to 3000mm\*\*
- 2 lifting positions as standard.
- Unique ultra-low friction bearing for ease of 360° rotation under full load with finger tip control.
- Rapid assembly & operation by one person; no tools required - just 2 main components.
- Socket extensions available for additional height and optimum column length.
- Twin shackles for index lifting and/or attachments for winching.
- Fits our standard sockets - wide range available.
- Anodised finish for clean handling.
- Fits into a typical service van.

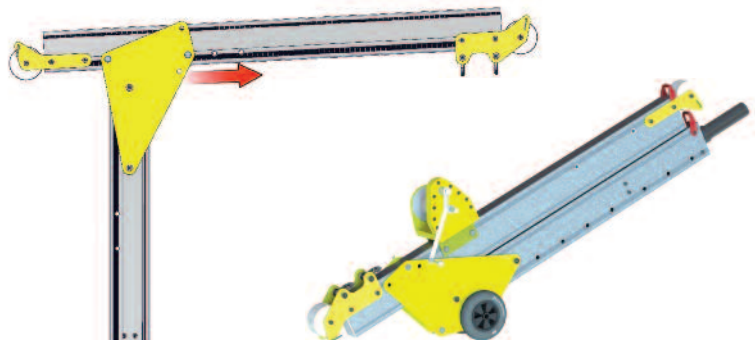
### Options and upgrades:

- Integrated wheel carrier for reduced manual handling.
- Beam radius adjustment.
- Fall arrest (EN795:2012), and personnel winching.

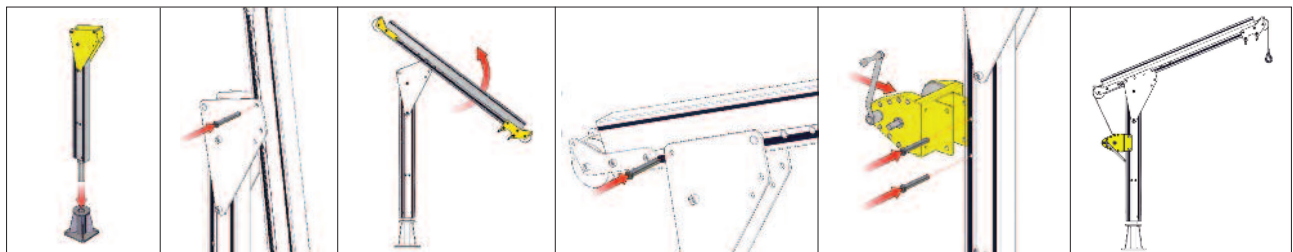


\* Available as upgrade.

\*\* Subject to WLL reduction (1900mm max for EN795).



## ASSEMBLY



 <p><b>SERIES D</b> Sliding beam davit with shackles</p>	 <p><b>SERIES E</b> Winched sliding beam davit &amp; shackles - upper winch</p>	 <p><b>SERIES F</b> Winched sliding beam davit &amp; shackles - lower winch</p>	 <p><b>SERIES G</b> Davit beam for geared trolley with end stops</p>
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# Sockets and extensions

## Sockets

A range of 65 and 95mm standard sockets are available to suit the needs of clients' davit mounting foundations, designed and tested for our portable davits with CE requirements for Declaration of Conformity & Incorporation.

Tested and certified up to WLL 500kg they form a critical part of the integrity of the overall lifting solution. Customised sockets can be developed for specialist requirements.

- **Flush mount:**
  - Flush Mount socket complete with cover and re-bars, for casting into concrete, and protective cover.
  - Flush Mount socket complete with cover for resin bonding into existing concrete
- **Top mount** socket suitable for bolting into existing concrete or steel structures – for simplicity or to provide additional davit height & reach.
- **Side mount** socket suitable for mounting on the side of concrete or steel structures. For thin-walled concrete a brace plate can be supplied.
- **Bridge mount** socket suitable for bolting into steel structures. Designed to fit open mesh grating or flush with structural steel work.
- **Customised** and bespoke versions can be developed for non-typical installations.

All sockets are available in galvanised mild steel, passivated 316L stainless steel and yellow painted finish, with customisation available for specialised requirements.

## Socket extensions

Socket extensions are designed to provide additional height of lift, or to reach over obstacles, protective rails or walls for 65mm socket/kingpin products.

Made with lightweight aluminium alloy, with handles for lifting and carrying, our lifting sockets are very easy to use. They simply insert into the existing socket and the standard davits is assembled as normal using the extension as its socket.

### Socket extensions options:

Socket extensions are available in three standard sizes and are customised to requirements:

- 500mm.
- 800mm
- 1100mm.
- Customised.



### The facts:

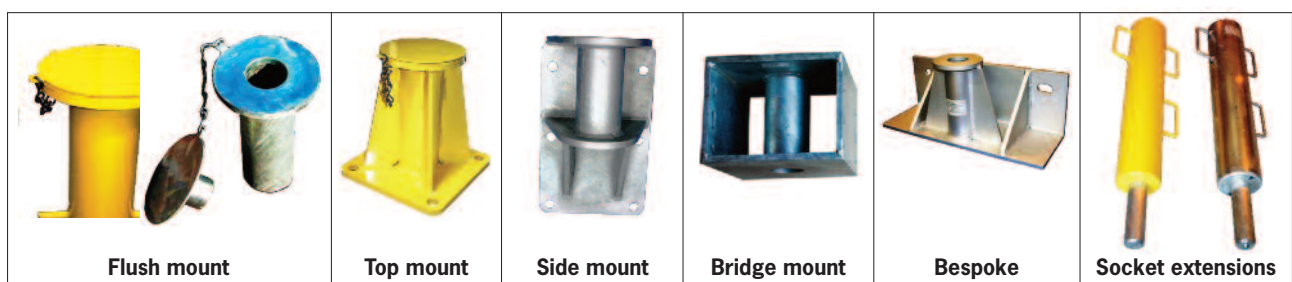
- Can be used with 65mm davit combined with 65mm fixed sockets.
- Increases the height to the lifting eye by 500, 800 or 1,100mm as standard.
- Portable and lightweight with carrying/lifting handles.
- Safe use feature.
- Maintenance free.
- Manual handling compliance.

## DISCLAIMER

All of our sockets & extensions have been designed, developed and tested for safe use with Reid's equipment and form a key part of the integrity of the total system.

Should non standard third party sockets be used the CE requirement for Declaration of Conformity & Incorporation on the products is negated.

- All sockets are supplied in galvanised mild steel or stainless steel (316L grade, passivated).
- Sockets can be powder coated upon request .e.g. yellow for trip hazard warning.



## Portable base

### Flexible, portable socket base for davit systems

The truly innovative extension to the socket family to further support the flexible use of the portable davit range:

- The most convenient socket for the portable davit without any need for a fixed socket installation.
- WLL 500kg at a max 1000mm radius with WLL 120kg for man-ride.
- Eliminates installation and testing costs for the socket.
- Adjustable legs for uneven surfaces.
- Anodised legs and yellow powder coat paint to the socket and tie bars for protection.
- 4 configurations of 90°, 180° & 270° counterbalanced with up to 1000mm radius.
- Manual handling compliance without mechanical aids.
- CE & EN795 Class B approved.

#### The facts:

- Lightweight and portable.
- Easy to use – almost anywhere.
- Easy deployment and rapid assembly.
- 90°, 180° & 270° counterbalanced options.
- Packs in heavy duty bags for transport, protection & storage.
- High utilisation with no installation costs.
- Suitable for clean environments.



Portable base 180°

Portable base 90°



## ASSEMBLY



## 270° Counterbalanced portable base

A further innovation to the portable davit range, enhances the portable base configuration with:

- 270° overhang counterbalanced configuration with:
  - Radius up to 1000mm.
  - WLL 120kg for man-ride .
  - WLL 250kg for goods lifting.
  - 180° operating arc.
- Manual Handling compliant.
- Adjustable feet for uneven surfaces with spirit level fitted to each leg.
- 2 heavy duty bags for transportation and storage (28kg & 15kg) with 2 weight baskets of 23kg each.
- Weight baskets attach to portable base legs and utilise 18 off, 20kg hand weights.

### The facts:

- Portable, highly flexible configuration.
- Easy, rapid assembly - no tools required.
- Packed in heavy duty protective bags for easy handling, storage and reduced maintenance.
- Flexible, high utilisation.
- Zero installation costs.
- Enables portable davits use in situations where there is occasional or emergency requirement without sockets installed or possible.
- Enables “building overhang” applications where sockets are not available or possible.
- Man-ride and goods lifting use.



### COUNTERBALANCED ASSEMBLY





## Universal jib cranes

**Capacities: 125 - 2000kg**

We are able to offer a wide range of universal jib cranes with capacities from 125 to 2000kg.

Based on a modular design concept, our universal jib range has been designed and engineered to suit today's competitive market.

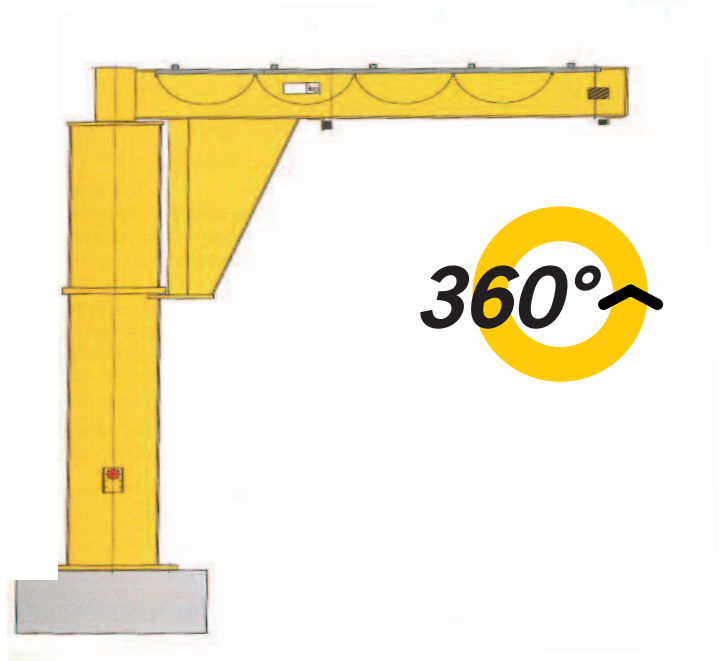
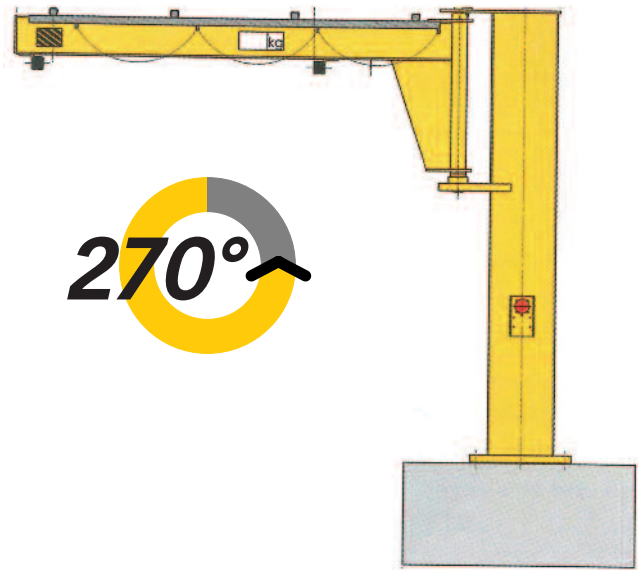
The jibs have either 270° or 360° slew and as they have been designed using interchangeable parts. All you need to do is to decide upon your type, lifting capacity, radius, and whether or not you require a manual or power slew and you are away. It really couldn't be any simpler!

### Standard specification:

- Indoor use (normal environment).
- A3 duty.
- 270° or 360° slew angle.
- Push slew.
- Fixed radius and heights.
- Standard colour paint.
- Resin bolt fixing to existing floor without intermediate base plate.

### We have 2 different types available:

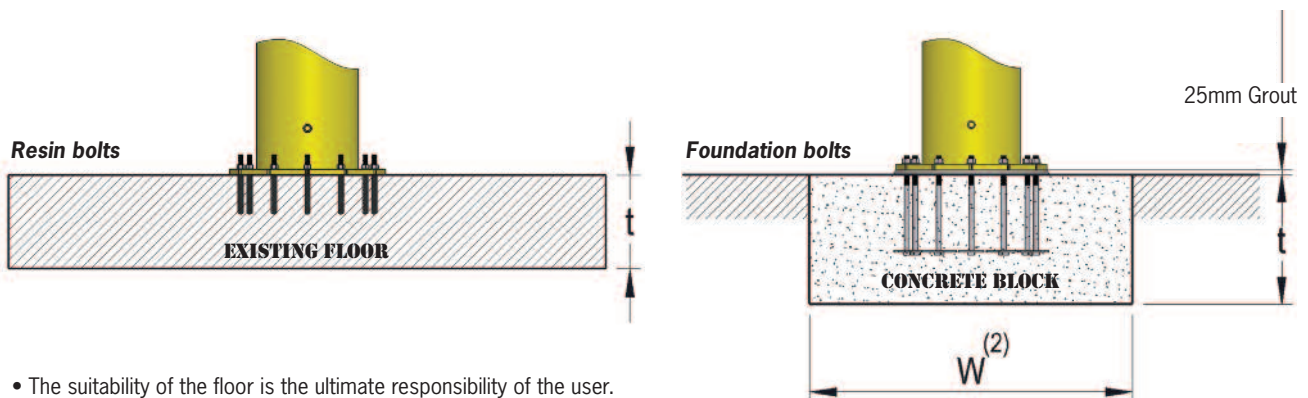
- **Over braced jib - beam section (270\_OBB)**  
Utilising a universal beam section for the jib arm provides the most cost effective solution and is the most popular jib crane in the range. This model has 270° slew angle.
- **Under braced jib - beam section (360\_UBB)**  
This model is used to give the maximum height of lift and has 360° of continuous slew.



### Base plates and fixing bolts:

All of our universal jib cranes are designed to be fixed directly to a good quality concrete floor using the resin bolt fixing kit, providing that the concrete has a minimum thickness as specified for the bolt diameter and a minimum strength of 30 N/mm<sup>2</sup>. The base plate must be positioned on a solid floor slab and it is recommended that the bolts are a minimum of 20 x bolt diameter from the edge of the slab.

If the existing floor is not adequate then the jib crane can be fitted to a concrete foundation block with the foundation bolt fixing kit and an optional bolt template. This block size assumes a ground bearing pressure of 100 kN/m<sup>2</sup>.



- The suitability of the floor is the ultimate responsibility of the user.



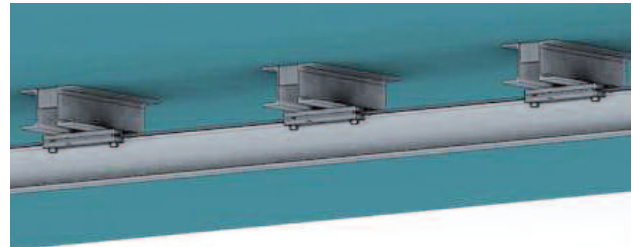
## Engineered solutions

We can offer solutions and lifting complete "bespoke" in different environments and different applications.

### Available options include:

- Galvanized finish.
- Zinc coating and polyurethane paint.
- Painting specific RAL.
- Power line cable flat garland.
- Electrical supply line by rail.
- On-site installation.
- Commissioning.

### Some examples:



## Height safety equipment

**It's your life... it's our reputation.**

Yale believes in total commitment to safety awareness, resulting in a better working environment. Yale is dedicated to the understanding of customers' needs at all levels and offers a broad range of equipment designed with the exact end-user requirements. Yale's comprehensive range of safety products is manufactured under ISO9002 accreditation and meets all relevant European CE standards.

### Tripod

**1.75mtr closed height**

- Working load limit of 500kgs.
- Height to underside 1340 - 2300mm.
- Footprint dia. 1.66 - 2.36mtr
- Net weight 14.3kgs.
- Conforms to EN795.
- Article number: 37320039



### Winches

**20mtr and 25mtr options**

- Winches with automatic brake c/w mounting bracket.
- Cable diameter 6.3mm.
- With working load limit of 180kg.
- Net weight 13kg.
- Conforms to EN1496.

**20mtr winch** - Article number: 37320040

**25mtr winch** - Article number: 37320045



### Rescue descent device

**30mtr and 40mtr options**

Rescue descent device kit comes complete with:

- Descent device.
- 11mm dia. working rope.
- 3 x snap hooks.
- Webbing sling.
- Knife.
- Kit bag.

**30mtr device** - Article number: 4300006116

**40mtr device** - Article number: 4300006117



### Work positioning

**2mtr and 4mtr options**

- Work positioning device c/w shortener.
- Conforms to EN358.

**2mtr long** - Article number: 37220029

**4mtr long** - Article number: 37220030



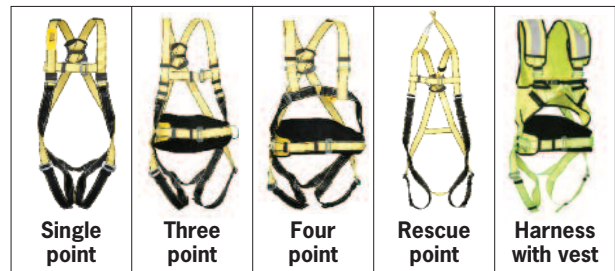




## Two point safety harness

- Two point full body harness.
- Front & rear 'D' attachment points.
- Conforms to EN361.
- Article number: 37020035.

### OTHER HARNESSES ARE ALSO AVAILABLE:



## Fall arrest cable blocks

6mtr - 28mtr options

- Conforms with EN360.
- Plastic housing.
- Fall indicator.
- Galvanized steel cable 4mm
- Cable length from 6 to 28m.
- Supports up to 120kg.



#### Technical data

Article number	Length mtr	Dimensions mm	Weight kg
37320006	6	208 x 85 x 280	5.10
37320010	10	208 x 85 x 280	5.30
37320012	12	208 x 85 x 280	6.00
37320015	15	208 x 85 x 280	6.10
37320020	20	260 x 120 x 340	11.25
37320025	25	260 x 120 x 340	11.50
4300006131	28	260 x 120 x 340	11.65

## Webbing blocks

2.25mtr - 6mtr options

- Conforms with EN360.
- Plastic housing.
- Fall indicator.
- Lightweight
- Cable length from 2.25 to 6m.
- Supports up to 120kg.



#### Technical data

Article number	Length mtr	Weight kg
4300013778	2.25	1
4300006139	6	1
37320035	6	1.2



## Portable gantry

- Conforms to EN 795 Class B.
- SWL 500kg.
- Weight: 33kg.



# Accessories lifting chains

## Lifting chains

- Grade 50 chain.
- 316L stainless steel.
- 1 connecting link every meter.
- Special chain for lifting submersible pumps.



### Technical data

Model	Capacity kg	Connecting links mm	Chain size mm
PK 4	300	8 x 54 x 30	4 x 16
PK 5	500	10 x 80 x 50	5 x 15
PK 6	750	13 x 110 x 60	6 x 18
PK 7	1000	13 x 110 x 60	7 x 21
PK 8	1250	16 x 110 x 60	8 x 24
PK 10	2000	18 x 135 x 75	10 x 30
PK 13	3200	22 x 160 x 90	13 x 39
PK 16	5000	26 x 180 x 100	16 x 48

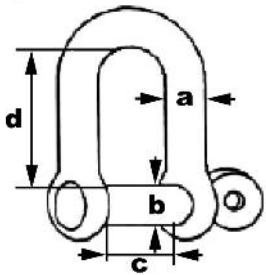


## Stainless shackles

- 316L.
- Stainless steel.
- To connect the chain to lift the submersible pump.

### Technical data

Model	Weight kg	a mm	b mm	c mm	d mm
4	0.008	4	4	8	12
5	0.016	5	5	11	19
6	0.026	6	6	12	24
8	0.058	8	8	17	28
10	0.116	10	10	20	35
13	0.200	12	12	25	42
16	0.450	16	16	32	64



## Auxiliary slings

- In addition to the chain lift, it can recover with the hoist on the connecting links as and when the lift.
- Length: 1mtr.
- 500kg capacity.
- Other capacities on request.



• Textile slings



• Chain slings



## XL-Round sling, model RSX

Made from polyester (PES), EN 1492-2 with extra strong stitchless protection sleeve, with capacity label.

### Features and benefits include:

- Optimized woven structure, PU-starched, thermally fixed.
- Easy identification of the annually required UVV tests through an additional label showing a check list.
- Colour coding of the protective sleeve.
- Printed-on capacities.
- Woven tonnage stripes, per ton capacity 1 stripe (applies only to round slings up to 10t).
- Protection against hand injuries.
- Protection against cargo surface damage.
- Highly flexible and adaptable to given shapes.
- UV-resistant, eliminating material ageing or embrittlement.
- Heat resistant up to +100°C.
- Moisture-resistant fabric, thus preventing frost damage (up to approx. - 40°C).



### Technical data

Model	Colour code EN 1492	Capacity WLL, with one sling, straight pull kg	Capacity WLL, with one sling, basket, angle $\beta$ up to 7° kg	Capacity WLL, with one sling, basket, angle $\beta$ 7°- 45° kg	Capacity WLL, with one sling, basket, angle $\beta$ 45°- 60° kg	Capacity WLL, with one sling, choke hitch kg	Width approx. under load mm	Thickness approx. under load mm	Shortest possible length for special makes mm
RSX-01000	violet	1000	2000	1400	1000	800	52	10	500
RSX-02000	green	2000	4000	2800	2000	1600	57	10	500
RSX-03000	yellow	3000	6000	4200	3000	2400	71	15	500
RSX-04000	grey	4000	8000	5600	4000	3200	76	15	1000
RSX-05000	red	5000	10000	7000	5000	4000	86	20	1000
RSX-06000	brown	6000	12000	8400	6000	4800	96	20	2000
RSX-08000	blue	8000	16000	11200	8000	6400	112	25	2000
RSX-10000	orange	10000	20000	14000	10000	8000	130	30	2000

## Flat webbing sling, duplex construction, reinforced eyes, model HBD

Made from polyester (PES), EN 1492-1 form B2, with capacity label.

### Features and benefits include:

- Duplex construction, PU-starched, thermally fixed.
- With reinforced eyes.
- Woven tonnage stripes.
- Protection against hand injuries.
- Protection against cargo surface damage.
- Consistent pressure distribution onto pressure- and pull sensitive loads.
- UV-resistant, eliminating material ageing or embrittlement.
- Heat resistant up to +100°C.
- Moisture-resistant fabric, thus preventing frost damage (up to approx. - 40°C).



### Technical data

Model	Colour code EN 1492	Capacity WLL, with one sling, straight pull kg	Capacity WLL, with one sling, basket, angle $\beta$ up to 7° kg	Capacity WLL, with one sling, basket, angle $\beta$ 7°- 45° kg	Capacity WLL, with one sling, basket, angle $\beta$ 45°- 60° kg	Capacity WLL, with one sling, choke hitch kg	Webbing width mm	Eye length x width approx. mm	Shortest possible length for special makes mm
HBD-01000	violet	1000	2000	1400	1000	800	30	300 x 15	750
HBD-02000	green	2000	4000	2800	2000	1600	60	350 x 30	1000
HBD-03000	yellow	3000	6000	4200	3000	2400	90	400 x 45	1000
HBD-04000	grey	4000	8000	5600	4000	3200	120	500 x 60	1500
HBD-05000	red	5000	10000	7000	5000	4000	150	550 x 75	1500
HBD-06000	brown	6000	12000	8400	6000	4800	180	600 x 90	2000
HBD-08000	blue	8000	16000	11200	8000	6400	240	650 x 120	2500
HBD-10000	orange	10000	20000	14000	10000	8000	300	900 x 150	2500

## TMC crane weighers

**Measuring range: 0 - 9500kg**

The TMC crane weigher is a compact model for standard use. There are 3 models available and each is supplied in a carrying case.

The units are powered by 4 AA batteries 1.5 Volts with drawer, allowing a wide range of work and replacement easy by user. They are supplied with two approved galvanized shackles and an infrared remote control which allows to remotely control various functions of the balance function or only semi-automatic tare.

### Features and benefits include:

- LCD display with 25 mm high-contrast visibility 2 galvanized shackles.
- Accuracy:  $\pm 0.03\%$  (on full load).
- IP 54 protection.
- 5-key waterproof keyboard, painted steel enclosure.
- Infrared remote control with a range of 8m, configurable with one of the following functions: Tare, Aggregation, PIC, Hold.
- Calibration and configuration via PC.
- Operating temperature  $-10 / +40^{\circ}\text{C}$ .
- Digital filter and state programmable automatic standby.
- 4 AA alkaline batteries 1.5 V (non-rechargeable) included approximately 35 hours of continuous operation (where up to three months for standard use, with the function of automatic sleep state).
- Display with high resolution and display gross / net.
- PIC (maximum recorded value), totalizing.
- HOLD (blocking the weight displayed).
- Remote: 1 CR3025 3V model provided.
- External power supply 230 Vac 50 Hz.
- Programmable automatic shutdown.
- Remote control: one 3V CR3025 model provided.
- Supplied with an EC Declaration/test certificate.

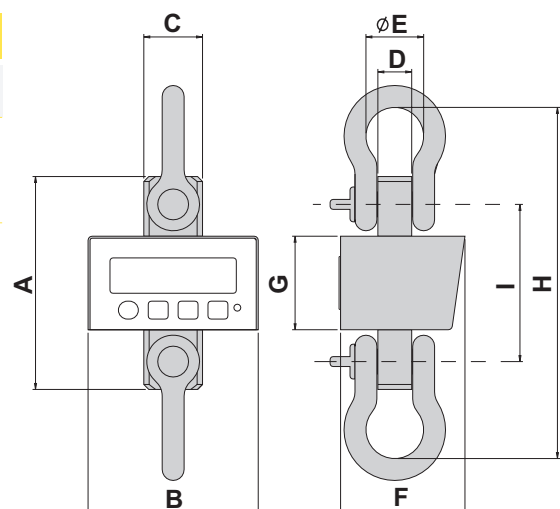
**Options:** These options are factory installed and are not available separately.

- Remote radio frequency indicator / weight repeater for use up to 70 m indoors under proper conditions, with printer, PC and other accessories.
- Rotating hook with safety latch.
- Real-time clock.
- Alibi memory (to release legal metrology).
- Remote display and thermal printer.
- Also available in stainless steel.



### Technical data / dimensions

Type		TMC1500	TMC6000	TMC9500
Article		F5390001	F5390002	F5390003
Capacity	kg	300/600/900	1500/3000/6000	3000/6000/9500
Precision	kg	0.1/0.2/0.5	0.5/1/2	1.0/2.0/5.0
A	mm	193	226	246
B	mm	175	175	175
C	mm	49	59	80
D	mm	24	37	46
E	mm	44	58	74
F	mm	133	133	133
G	mm	104	104	104
H	mm	330	363	430
I	mm	153	170	180
Weight	kg	8	11	18



# RPE electric winch

## Capacities: 250 - 1000kg

Yale wire rope winches, RPE and RPA, are designed specifically for performance, efficiency, and safety, and offer many advantages and options.

Their extremely compact, practical cube design and universal rope lead-offs allow individual applications in almost any position and this makes them powerful aids for lifting and pulling loads.

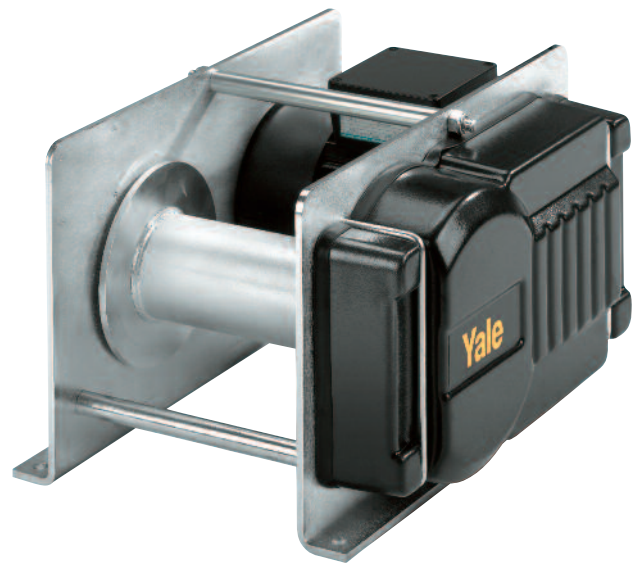
The units are supplied with a certificate of conformity showing the units serial number and an operating instruction manual, which contains our manufacturer's CE declaration.

### Features include:

- Voltage 400v 3phase 50hz or 230v 1phase 50hz 3 phase motor protected to IP 54, insulation class F.
- Compact dimensions due to internal brake motor.
- Adjustable slip clutch to protect the winch from overloading standard on 10-6 model.
- Spur gear transmission with helical first gear - ensures smooth motion. Lubricated by grease and can be used in any position.
- Spring pressure disc brake incorporated in the motor holds the load securely even in the event of a power failure.
- A plain rope drum is supplied as standard.
- The rope is secured to the drum in a recess, so that the rope can be wound onto the drum in several layers without damage.
- 1000kg unit is fitted with slipping clutch as standard.
- 42v low voltage pendant control (inc. push button with emergency stop and 2 mtr cable) is supplied as standard.

### Options:

- Different drum designs, e.g. extended to accommodate longer rope, machined grooves for exact reeling, with separation web and 2nd rope outlet for working with two ropes.
- Geared limit switches to limit rope motion in both directions (in combination with 42v low voltage control).
- Adjustable slip clutch to protect the winch from overloading for models RPE 2-13, RPE 5-6 and RPE 5-12.
- Radio remote control.
- Zinc-plated version is available on request.
- Stainless brake.



**When selecting the length of the rope please bear in mind that a minimum of 2.5 windings have to remain on the drum (approx. 1mtr rope).**



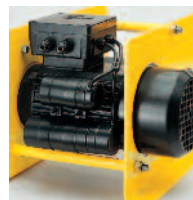
Rope attachment.



Spring pressure disc brake.



Brake motor.



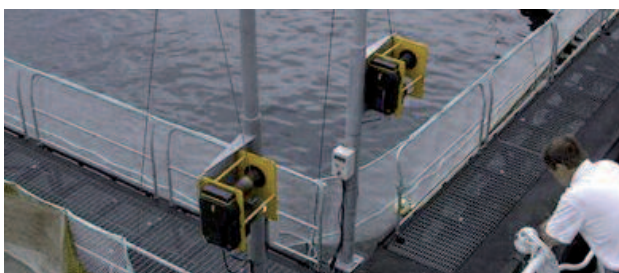
Single-phase A.C. motor.



Gear limit switches.



Gearbox with slip clutch.



Different drum designs.



Standard finish.

### Technical data

Model	Pulling force daN	Lifting speed m.min*	Rope diameter mm	Motor perf. kW	ED at 120 c/h %	Usable rope length				Weight kg
						1st layer mtr	2nd layer mtr	3rd layer mtr	4th layer mtr	
RPE 2-13	250	13	4	0.55	40	11.2	24.4	38.8	54.5	31.8
RPE 5-6	500	6.5	6	0.55	40	7.0	16.4	27.0	38.8	32.8
RPE 5-12	500	12	6	1.10	40	11.0	24.9	39.7	55.4	41.0
RPE 9-6	990	6	8	1.10	40	10.2	23.0	37.4	-	76.0
RPE 10-6**	1000	6	8	1.10	40	10.2	23.0	37.4	-	76.9

\*In the upper layer. \*\*With slipping clutch. • 110v option is NOT available.





## BETA Electric winch Standard line - SL

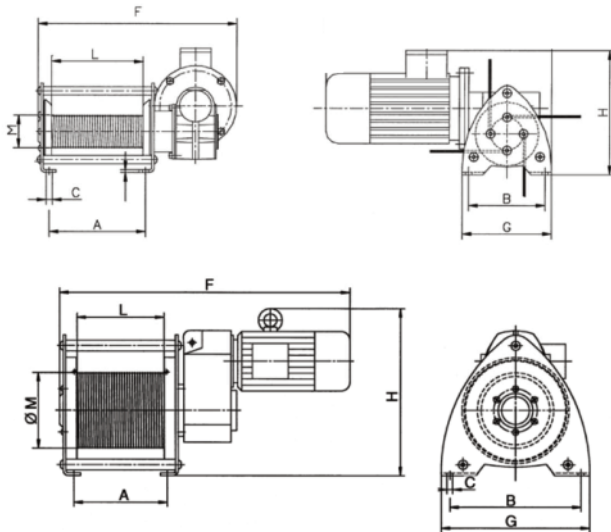
**Capacities: 250 - 2000kg**

Electric winches of the BETA SL (Standard line) range are used for lifting, towing and positioning of loads.

The proven technology and specified equipment features make the winch the ideal product for standard applications.

### Features and benefits include:

- The electrically released spring pressure disc brake safely holds the load also in the event of a power failure.
- Powerful three-phase AC drives for multi-range voltage 380 - 420V, 50Hz or 440 - 460V, 60Hz. Motor type of enclosure IP55, duty factor 40% ED.
- Electronic overload protection from 1000kg lifting load as standard.
- The maintenance-free, oil lubricated gearbox has quiet running characteristics due to milled and ground gears with helical teeth.
- Standard rope drum of grooved design, with large rope capacity.
- Variable rope lead-in due to two rope attachment points (left and right).
- Contactor control (incl. gear limit switch).
- Complies with accident prevention regulations BGV D8.



This range of winches are our 'standard' units with no added options available. For anything other than a standard unit, please refer to the BETA-EL Engineered line on the opposite page.

**When selecting the length of the rope please bear in mind that a minimum of 2.5 windings have to remain on the drum (approx. 1mtr rope).**

**Pfaff winches are not designed for passenger elevation applications and must not be used for this purpose.**

### Technical data / dimensions

Article no.	Size	Lifting capacity 1 <sup>st</sup> layer kg	Drive group FEM	Rope speed 1 <sup>st</sup> layer m/min	Voltage v	Motor Power kW	Rec. Rope Ø mm	Rope capacity		A mm	B mm	C mm	F mm	G mm	H mm	L mm	M Ø mm
								1 <sup>st</sup> layer m	top layer m								
040063758	SL0	250	1 Bm	2.5	400	0.25	4	7	46.7	185	170	12	389	432	241	180	64
031140006	SL0	250	1 Bm	4.7	400	0.37	4	7	46.7	185	170	12	389	432	241	180	64
031140015	SL0	250	1 Bm	3.7	230	0.55	4	7	46.7	185	170	12	389	432	241	180	64
040062946	SL1	500	1 Am	6.8	400	0.75	6	6.7	48.9	215	300	13.5	740	340	340	200	86
040062989	SL1	630	1 Bm	6.8	400	0.75	6	6.7	48.9	215	300	13.5	750	340	345	200	86
040062990	SL2	980	1 Am	6.0	400	1.1	9	11	77.5	270	400	18	920	465	475	250	175
040062993	SL2	1250	1 Am	6.0	400	1.1	9	11	77.5	270	400	18	930	465	480	250	175
040062996	SL3	2000	1 Bm	6.8	400	2.2	12	10	74.5	320	510	22	1070	570	614	300	175

\*Rope DIN 3069 FE-znk-1960 sZ-spa. \*\*Single-Phase 230v. • Normal supply specification is D8.



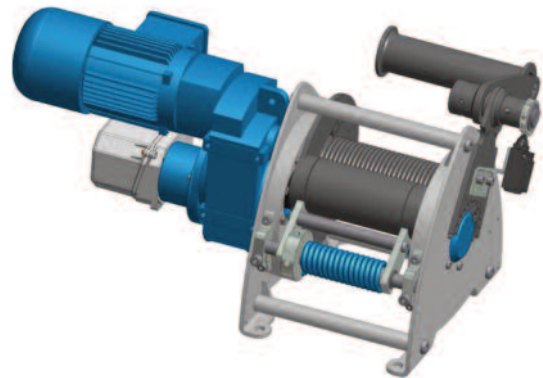
# BETA Electric winch

## Engineered line - EL

Capacities: 320 - 7500kg

When it comes to individual solutions or highly specialised applications we recommend our BETA-EL winch.

The BETA -EL are used for lifting, towing, and postioning of loads under demanding conditions particularly in entertainment, explosion protected environments and everywhere that our standard winch models RPE and BETA-SL do not meet the demanding requirements.

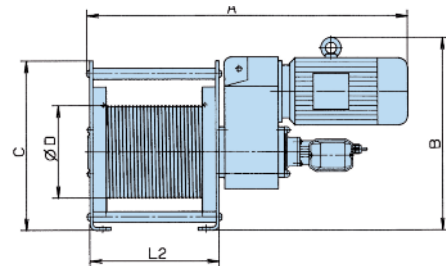


### Options:

- Increased capacities up to 7500kg WLL.
- Slack rope switch.
- Rope guidance on the drum.
- Multi-line applications (for the theatre industry).
- Variable speed control.
- Larger rope capacity.
- Adjustable gear limit switch.
- Other operating voltages available.
- Increased motor protection.



Available in explosion proof version!



### Technical data / dimensions

Size	Lifting capacity 1 <sup>st</sup> layer	Drive group FEM	Rope speed 1 <sup>st</sup> layer	Motor Power	Rec. Rope Ø	Rope hardness	Rope capacity		Weight	A	B Ø	C	D	L2
							1 <sup>st</sup> layer m	top layer mm						
	kg		m/min	kW	mm	N/mm <sup>2</sup>			kg	mm	mm	mm	mm	mm
EL1	320	2m	5.6	0.37	5	1960	16.2	77.8	62.5	710	333	325	175	264
EL1	320	2m	13.8	0.75	5	1960	16.2	77.8	63.9	725	343	325	175	264
EL1	320	2m	30.7	1.5	5	1960	16.2	77.8	69	826	319	325	175	264
EL1	500	1Am	3.7	0.37	6	1960	8.5	58.5	63	705	319	325	108	264
EL1	500	1Am	8.5	0.75	6	1960	8.4	58.5	63.9	725	343	325	108	264
EL1	500	1Am	19.1	1.5	6	1960	8.4	58.5	69	826	319	325	108	264
EL1	630	1Bm	3.0	0.37	6	1960	6.8	48.6	63	702	319	325	86	264
EL1	630	1Bm	6.8	0.75	6	1960	6.8	48.6	63	731	319	325	86	264
EL1	630	1Bm	15.2	1.5	6	1960	6.8	48.6	69	826	319	325	86	264
EL2	800	2m	4.8	0.75	8	1960	17.1	85.5	100.9	852	490	444	242	338
EL2	800	2m	10.3	1.1	8	1960	17.1	85.5	104	907	490	444	242	338
EL2	800	2m	20.5	3	8	1960	17.1	85.5	113.5	940	490	444	242	338
EL2	980	1Am	3.4	0.75	9	1960	11.0	77.4	101	840	490	444	175	338
EL2	980	1Am	7.5	1.1	9	1960	11.0	77.4	104	907	490	444	175	338
EL2	980	1Am	14.9	3	9	1960	11.0	77.4	114	986	490	444	175	338
EL2	1250	1Bm	2.7	0.75	9	1960	8.7	64	101	840	490	444	138	338
EL2	1250	1Bm	5.9	1.1	9	1960	8.7	64	104	895	490	444	138	338
EL2	1250	1Bm	11.8	3	9	1960	8.7	64	114	895	490	444	138	338
EL3	1250	2m	5.2	1.1	12	1770	16.3	61.3	164.5	1014	614	547	295	406
EL3	1250	2m	11.0	2.2	12	1770	16.3	61.3	174	1065	614	547	295	406
EL3	1250	2m	15.5	3	12	1770	16.3	61.3	177	1088	600	547	295	406
EL3	1600	1Am	3.9	1.1	12	1960	12.1	87.7	165	997	600	547	218	406
EL3	1600	1Am	8.1	2.2	12	1960	12.1	87.7	174	1965	614	547	218	406
EL3	1600	1Am	12.5	3	12	1960	12.1	87.7	173	1037	614	547	218	406
EL3	2000	1Bm	3.1	1.1	12	1960	9.8	73.8	165	997	600	547	175	406
EL3	2000	1Bm	9.3	3	12	1960	9.8	73.8	177	1088	600	547	175	406
EL3.5	2500	2m	5.4	2.2	14	1770	13.8	53.9	221	1100	673	547	295	406
EL3.5	2500	2m	10.6	4	14	1770	13.8	53.9	234	1120	673	547	295	406
EL3.5	3200	1Am	4.5	2.5	14	2160	11.4	64.5	221	1091	684	547	242	406
EL3.5	3200	1Am	9.1	5	14	2160	11.4	64.5	233.6	1147	684	547	242	406
EL4	3200	2m	7.0	4	18	1770	15.6	62	435	1253	817	687	364	480
EL4	4000	1Am	6.2	4	18	1960	12.7	98.3	434.6	1265	826	687	295	480
EL4	5000	1Bm	4.7	4	16	2160	12.0	92	435	1253	817	687	242	480
EL5	5000	2m	4.2	3	20	1960	20.3	79.2	1047.4	1549	1046	844	295	568
EL5	6300	1Am	3.4	3	20	2160	16.4	93.4	1047.4	1549	1046	844	295	568
EL5	7500	1Bm	5.7	5.5	20	2160	13.4	104.8	1019.4	1549	1046	844	295	568

\*Rope DIN 3069 FE-znk-1960 sZ-spa. • Normal supply specification is D8.

## LB wire rope winches

**Capacities: 150 - 1200kg (900kg in stainless steel)**

Our best-selling range of winches designed for maximum versatility & efficiency.

**Features and benefits include:**

- Options include free-wheeling device, variable cranks and a stainless steel version.
- Very lightweight design.
- Fitted with load pressure brake to prevent unintentional lowering of load.
- High efficiency obtained by spur gears.
- Column or base-mounting.



Folding handle.

Variable crank.



Zinc-plated 150-350kg.



Zinc-plated 650kg.



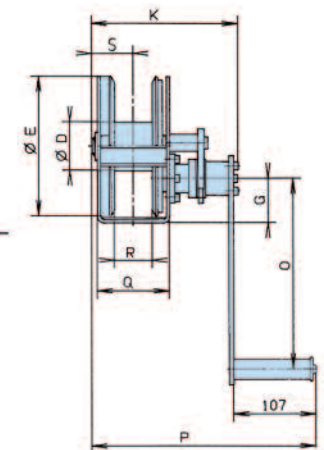
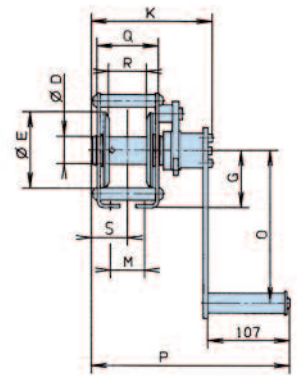
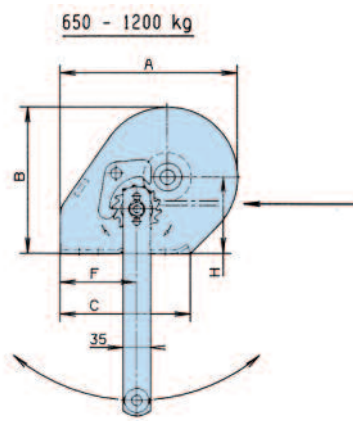
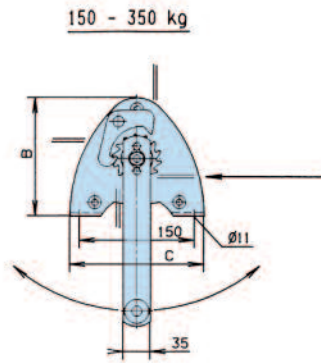
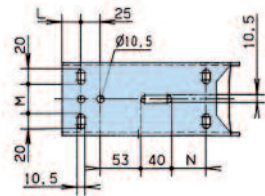
Stainless steel  
650kg.



Stainless steel  
900kg.



LB 650kg winch on portable davit.



## Technical data / dimensions

Article number / Type			030239016	030239015	040239004	040239006	040239008	-	-	-
• Zinc plated			-	-	-	040239007	040239009	-	-	-
• Free Wheel			-	-	-	-	-	030239017	030239012	030239013
• Stainless steel			-	-	-	-	-	-	-	-
Lifting cap.	1 <sup>st</sup> layer	kg	150	350	650	900	1200	250	650	900
	upper layer	kg	75	170	290	400	430	125	290	320
Drive group	DIN 15020/1		1 Em	1 Em	1 Em	1 Em	1 Em	1 Em	1 Em	1 Em
Wire rope Ø*		mm	4*	4*	6*	7*	7**	4*	6*	7*
Wire rope cap.	1st Layer	mm	0.8	1.8	1	0.8	1	1.8	1	1
Wire rope cap.	Total	m	11	20	20	14	26	19.5	20	26
Lift per crank rotation		mm	125	125	55	58	45	125	55	45
Required crank pressure		daN	17	25	22	24	24	20	22	24
Weight		kg	4.2	4.8	7.3	10	12.1	4.8	7.6	12.1
A	mm	-	-	-	232	23.2	273	-	232	273
B	mm	155	155	192	192	266	155	192	266	
C	mm	175	175	210	210	240	175	210	240	
D Ø	mm	36	36	63.5	63.5	63.5	36	63.5	63.5	
E Ø	mm	100	100	183	183	255	100	183	255	
F	mm	-	-	100	100	78	-	100	78	
G	mm	75	75	58	58	75	75	58	75	
H	mm	-	-	100	100	138	-	100	138	
K	mm	159	189	192	192/226***	192/226***	191.5	190	190	
L	mm	-	-	25	25	35	-	25	35	
M	mm	45	75	38	38	30	75	38	30	
N	mm	-	-	-	-	53	-	-	53	
O	mm	200	320	250	320	320	320	250	250	
P	mm	260	290	293	293/303***	293/303***	292.5	291	291	
R	mm	50	80	50	50	50	80	50	50	
Q	mm	81	111	95	95	95	111	95	95	
S	mm	48	63	55	55	55	65.5	55	55	

\*Recommended wire rope: DIN 3060 FE-znk 1770 sZ-spa.

\*\*Recommended wire rope: DIN 3060 SE-znk 2160 sZ-spa.



## GAMMA, aluminium hand winches

**Capacities: 200 - 800kg**

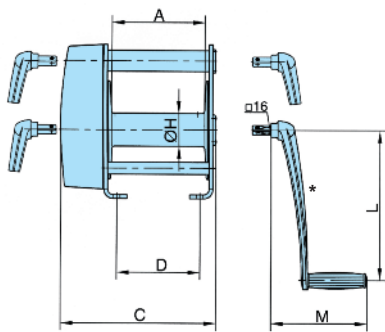
These models are the solution to many winching problems. The design features two-speed gearing on some models with very fast operation. The two speeds are available depending upon the capacity; for example on the 500kg winch the fast speed winds in 335mm for each turn of the crank with loads below 90kgs, whilst the slow speed lifts full loads with minimum effort.

### Features and benefits include:

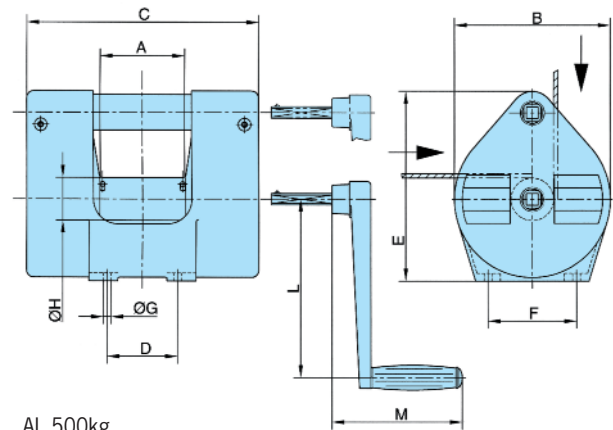
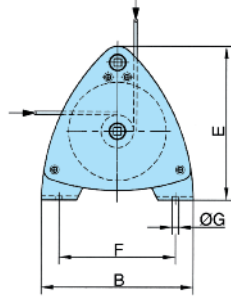
- Aluminium construction.
- Teflon coated bearings to reduce effort with a roller chain drive.
- Automatic self-sustaining spring loaded brake acting in both directions.
- Base, wall or ceiling mounting.
- Removeable handle, operates from both ends of the winch.



GAMMA 800kg



GAMMA 200kgs / 800kg \*Only 800kg design



AL 500kg

### Technical data / dimensions

Type Article number		GAMMA 040270004	AL 040270001	GAMMA 040270006
Lifting cap. 1 <sup>st</sup> layer	kg	200	500	800
upper layer	kg	110	200	350
Wire rope cap. 1 <sup>st</sup> layer	m	3.6	4.2	5.3
upper layer	m	40	50	78
Drive group DIN 15020/1		1 Em	1 Em	1 Em
Wire rope Ø*	mm	4	6	7
Lift per crank rotation	mm	195	60/400**	36/280**
Required crank pressure	daN	19	12	18
Ratio of transmission		–	6.57:1	7.57:1
Weight	kg	6	14	16
A	mm	120	120	200
B	mm	160	220	326
C	mm	192	330	336
D	mm	152	100	180
E	mm	165	267	327
F	mm	135	125	250
G Ø	mm	9,5	11	14
H Ø	mm	50	60	70
L	mm	320	250	320
M	mm	207	165	207

GAMMA - 200kg



AL - 500kg

# SCH-W, sluice gate jack systems with rack and pinion

**Capacities: 1500 - 10000kg**

Sluice gate systems are used primarily in water power, agriculture and plant engineering. Different crank types and layouts present hundreds of possible arrangements.

## Features and benefits include:

- Spring loaded safety crank provides pressure when required.
- 10000kg model supplied with a SIKU crank, others supplied with a SIFEKU crank.
- Slide lacquer treated racks.
- Spur gear with formed gearwheels.
- Precisely milled crank gear.

## Options:

- Extended rack lengths.
- Galvanised finish.

### Technical data - model SCH-W Sifeku

Model	Lifting capacity kg	Rack length mm	Lift mm	Hand effort at WLL daN	Weight kg
SCH-W 15	1500	1200	800	28	18
SCH-W 30	3000	725	350	28	23
SCH-W 50	5000	1350	900	28	32

### Technical data - model SCH-W Siku

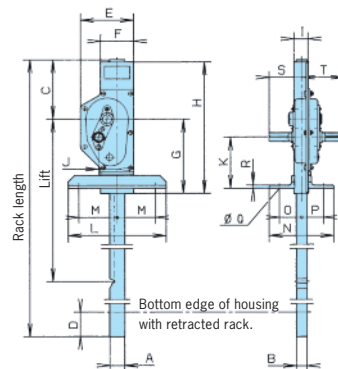
Model	Lifting capacity kg	Rack length mm	Lift mm	Hand effort at WLL daN	Weight kg
SCH-W 100	10000	1550	1000	40	56

### Dimensions

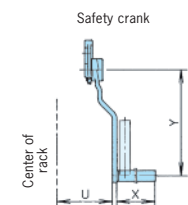
Model	SCH-W 15	SCH-W 30	SCH-W 50	SCH-W 100
A, mm	35	45	50	60
B, mm	25	30	40	50
C, mm	140	160	145	165
D, mm	85	60	45	65
E, mm	125	204	189	235
F, mm	78	92	100	112
G, mm	175	230	260	320
H, mm	310	395	400	480
I, mm	33.5	39.5	51	59
J, mm	43.3	53.1	69.5	88.3
K, mm	121	138	81	84
L, mm	230	230	230	290
M, mm	90	90	90	115
N, mm	153	158	173	183
O, mm	52.5	55	61	66
P, mm	52.5	55	64	70
Q dia, mm	14	14	14	14
R, mm	7	7	7	8
S, mm	76.5	85.5	88	100
T, mm	100.5	108.5	120	140
U, mm	113	121	132	185
V, mm	86	94	105	-
W, mm	136	144	155	-
X, mm	130	130	130	250
Y, mm	250	250	250	300



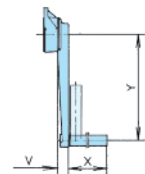
1500 - 3000kg



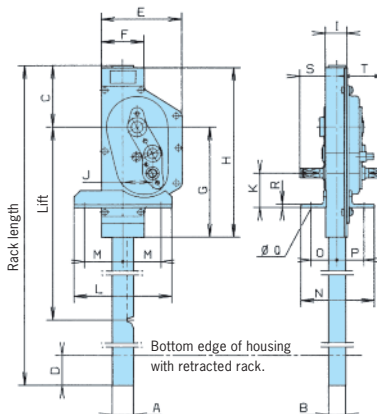
Crank design



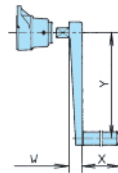
Spring loaded safety crank.



5000 - 10000kg



Spring loaded safety lock and plug-in crank.



## ZWW / ZWW-L, wall-mounted rack and pinion jacks

**Capacities: 250 - 10000kg**

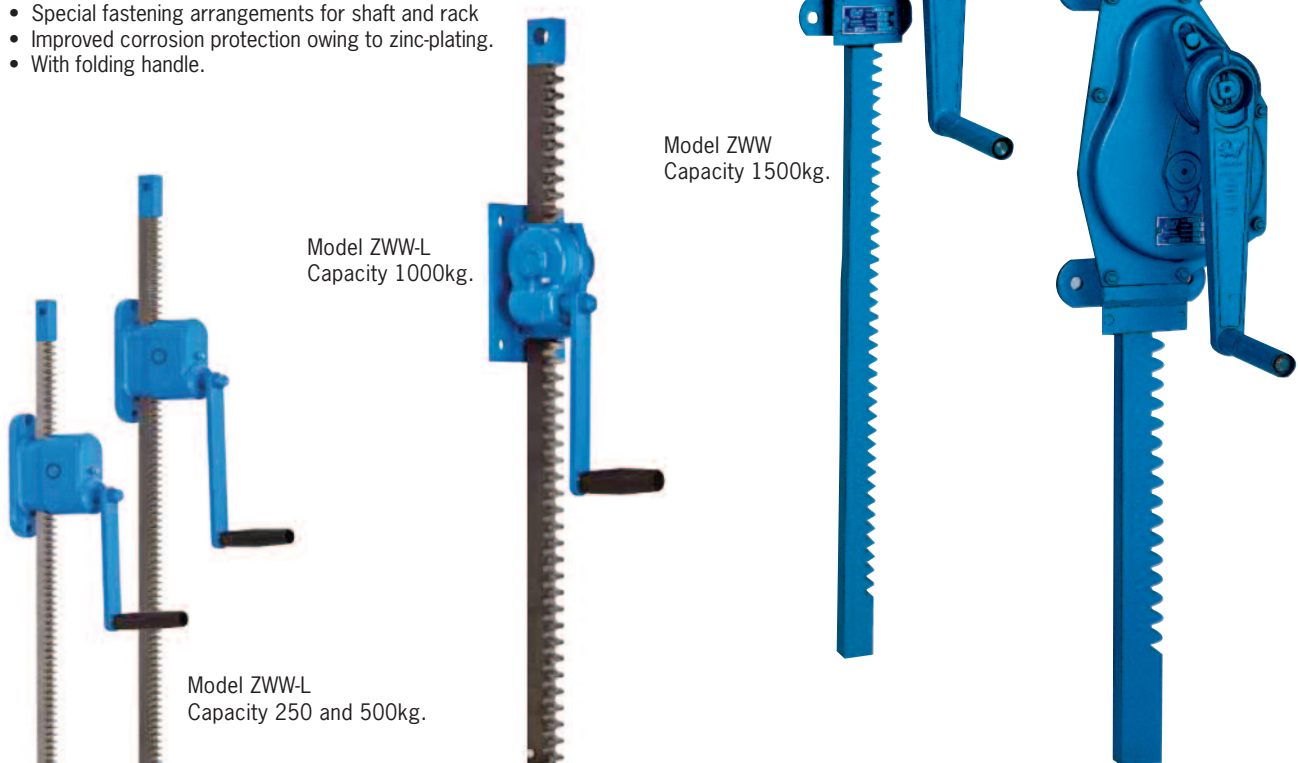
Wall-mounted rack and pinion jacks are used for lifting, lowering, pulling and pushing of loads.

**Features and benefits include:**

- Robust steel design with precisely machined worm and spur gears for smooth and easy manual operation.
- Solid steel rack with additional bore hole for fastening of the load.
- Low wear owing to hardened gearing parts and precisely machined teeth.
- Suitable for a lifting load of up to 5000 kg for pushing and pulling loads.
- Rigid wall mounting.

**Optional extras:**

- Rack extensions
- Special fastening arrangements for shaft and rack
- Improved corrosion protection owing to zinc-plating.
- With folding handle.



### Technical data - model ZWW Sifeku

Model	Tensile or pressure kg	Rack length mm	Lift mm	Hand effort at WLL daN	Weight kg
ZWW-L 250/400	250	600	400	10	5.4
ZWW-L 250/600	250	800	600	10	5.9
ZWW-L 250/800	250	1000	800	10	6.4
ZWW-L 250/1000	250	1200	1000	10	6.9
ZWW-L 250/1200	250	1400	1200	10	5.4
ZWW-L 500/400	500	600	400	15	6.0
ZWW-L 500/600	500	800	600	15	6.5
ZWW-L 500/800	500	1000	800	15	7.0
ZWW-L 500/1000	500	1200	1000	15	7.5
ZWW-L 500/1200	500	1400	1200	10	6.0
ZWW-L 1000/600	1000	850	600	14	9.5
ZWW-L 1000/800	1000	1050	800	14	10.6
ZWW-L 1000/1000	1000	1250	1000	14	11.7
ZWW-L 1000/1200	1000	1450	1200	14	12.8
ZWW-L 1000/1400	1000	1650	1400	14	13.2



### Technical data - model ZWW Sifeku

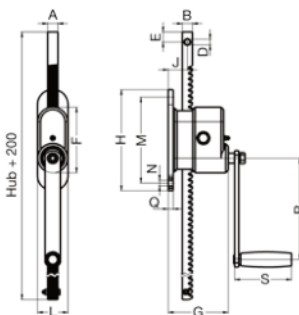
Model	Tensile or pressure kg	Rack length mm	Lift mm	Hand effort at WLL daN	Weight kg
ZWW 1500/800	1500	1090	800	28	11
ZWW 3000/565	3000	975	565	28	19
ZWW 5000/700	5000	1170	700	28	28

### Technical data - model ZWW Siku

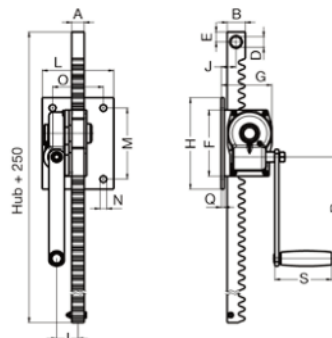
Model	Tensile or pressure kg	Rack length mm	Lift mm	Hand effort at WLL daN	Weight kg
ZWW 10000/700	10000	1240	700	40	55

### Dimensions

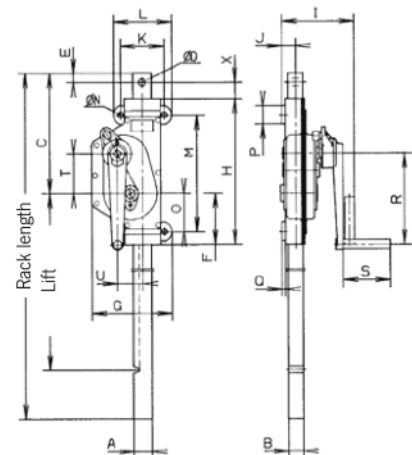
Model	ZWW-L 250	ZWW-L 500	ZWW-L 1000	ZWW-L 1500	ZWW 3000	ZWW 5000	ZWW 10000
A, mm	20	20	25	35	45	50	60
B, mm	20	25	35	25	30	40	50
C, mm	-	-	-	215	280	330	380
D dia, mm	11	13	21	21	21	21	30
E, mm	16	20	20	20	25	25	30
F, mm	130	130	130	135	165	140	160
G, mm	119	119	100	151	212	219	269
H, mm	200	200	180	310	395	400	480
I, mm	-	-	40	168	179	197	200
J, mm	38	35	25	26	31	37	39.5
K, mm	-	-	-	100	120	120	140
L, mm	60	60	140	130	160	160	180
M, mm	170	170	140	260	305	320	410
N dia, mm	11	11	13	12.5	14.5	17	21
O, mm	-	-	100	110	120	105	125
P, mm	-	-	-	40	50	50	60
Q, mm	10	10	6	8	10	10	10
R, mm	200	250	200	250	250	250	300
S, mm	110	110	110	130	130	130	250
T, mm	-	-	-	42.4	86.25	109.1	150.4
U, mm	-	-	-	43.3	53.1	69.5	88.3
X, mm	-	-	-	20	25	45	30



Model: ZWW-L 250 and 500kg.



Model: ZWW-L 1000kg.



Model: ZWW 1500 -10000kg.

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