Hoisting Equipment

Yale and Pfaff-silberblau hoisting equipment products are reliable and proven equipment renowned world-wide for applications in industry, trade and services.
The comprehensive range includes manual and powered hoisting equipment for a safe lifting and handling of loads ranging from 125 kg to 20000 kg. The products feature a long service life as well as easy and quick maintenance or repair.
Yale and Pfaff-silberblau hoisting equipment products comply with national and international regulations such as the EC Machinery Directive 2006/42/EC and corresponding supplements. In order to meet our high quality standard, the devices are subjected to an overload test in the factory and provided with a test certificate and operating instructions with a declaration of conformity or a manufacturer's declaration.

INFO

Please note our user instructions at the beginning of each chapter.

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INFO

This user information presents a general review regarding the operation of hoisting equipment and does not substitute the existing operating instructions for the specific hoist product.

Lifting operations with hoisting equipment may be carried out by competent users (trained in theory and practice) only.

When operated correctly, our hoist products will offer the highest degree of safety in line with long life expectancy and avoid damage to the product and people.

Modification of delivery condition

Design and construction of the hoist may not be altered, e.g. by installation of outside supplied parts, bending, welding, grinding, removal of safety relevant components like locking devices, locking pins, safety latches etc.

Limitations of operation

Loading

Our hoists have been designed for lifting and transporting of loads. Some models (e.g. ratchet lever hoists) may also be used for pulling and lashing purposes, if admitted in the operating instructions. The indicated capacities refer to loading in straight line and must not be exceeded. Lifting media (e.g. lifting chain or rope) must not be slung over edges and must not be used for the attachment of the load.

Temperature

Hoists may normally be operated at ambient temperatures between -10 °C up to + 50 °C.

These values are approximate and may deviate from the specific givings of the hoist product. The accurate data are given in the current operating instructions. Special models are available on request for higher or lower temperature ranges.

Attention: At temperatures below 0 °C the brake should be checked for freezing. (Check lifting function prior to starting work and refer to “Inspection prior to initial operation“).

Shock loading

The indicated capacities are based on shock-free loading of the hoist. Light bumps as occurred during lifting and lowering as well as transporting of load are admitted. Heavier shock loadings, e.g. falling of the load, are strictly forbidden.

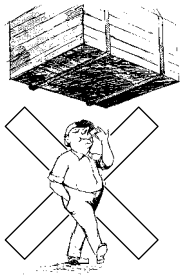
Chemicals

Hoists and attachments may not be operated without hesitation in the area of chemicals or chemical vapours – consult our specialists for advice. Hoists which have been subject to chemicals or vapours must be taken out of service and inspected by us.

Transport of people

Transport of people with hoisting equipment is generally forbidden! Transport of people may only by carried out with specially authorized products (e.g. Yaletrac, Mtrac).

Operation in danger zones



Lifting or transport of loads must be avoided while personnel are in the danger zone.
People are not allowed to pass over or under a suspended load.

Electrical hazards

Load carrying hoist components (e.g. load chain) must not be subject to electric current and must never be used as a ground connection during welding. Further electrical hazards, e.g. with powered hoists, are indicated in the specific operating instructions!
Electric connections may only be performed by authorized persons resp. companies.

INFO

For information on training please see page 4.

Yale

HOISTING EQUIPMENT

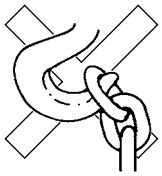


Application advices

- Hoists must always be in perfect condition and provided with a legible identity plate.
- Prior to starting work, the hoist including load carrying devices, equipment, supporting structure and suspension must be inspected for obvious deficiencies and failures. In addition, the function of the brake and the correct attachment of hoist and load have to be checked by carrying out a short work cycle of lifting/pulling or tensioning and releasing.
- Inspect the load chain for sufficient lubrication and visually check for external defects, deformations, superficial cracks, wear or corrosion marks.
  A defective chain must be replaced prior to operation of the hoist.
- Units equipped with two chain falls should be inspected for twisted or kinked chains prior to being put into operation. The chains of multiple fall hoists may be twisted if the bottom block was turned over.



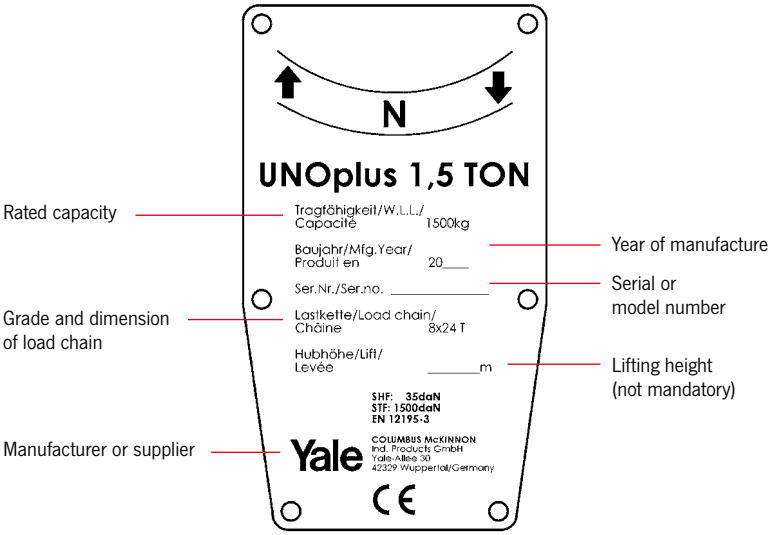
- Inspect top and bottom hooks for deformations, damage, cracks, wear or corrosion marks. A safety latch must be available and work effectively.
- Hoists with obvious defects and units which have been subject to overload or other dangerous influences have to be taken out of service and may only be operated after test and repair if so required.
- When selecting the proper product, make sure that the hoist is suitable to accept transportation, suspension, type of lashing devices and lashing points safely and without unintended movement (e.g. slipping).
- Load chains must not be used in kinked or knotted condition.
- The load must always be seated in the saddle of the hook.
  Never attach the load on the tip of the hook. This applies to top and bottom hooks.



- The operator must ensure that the load is attached in a manner that does not expose himself or other personnel to danger by the hoist, chain(s) or the load.
- During lifting operations the load and suspension hook of the hoist must be perpendicular to the load center to prevent pendle motion of the load.
- The operator may start moving the load only after it has been attached correctly and all personnel are off the danger zone.
- Before lifting make sure that the load can move freely.
- After lifting or tensioning, a load must not be left unattended for a longer period of time.
- Chain stops, slipping clutches etc. are overload protection devices and may not be used as regular load limiters.
- Do not throw the hoist down. Always place it properly on the ground.

INFO

Labelling (Example)




yale

Maintenance and repair

- To ensure safe operation, all hoisting equipment must be subjected to regular inspections according to the maintenance instructions given by the manufacturer.
- Hoists which are due for maintenance (normally once per year, unless adverse working conditions dictate shorter periods) or products with obvious defects may be returned to us for inspection and repair.
- Inspections and tests must be performed by competent persons or specialist workshops that use original spare parts.

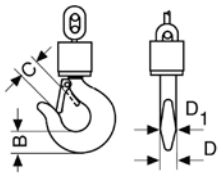
Inspections

- According to German laws and standards all hoisting equipment must be subjected to a mandatory inspection at least once a year. The inspection must be performed by a competent person.
- On building sites hoists have to be inspected every time before operation.
- Hoist and supporting components have to be cleaned prior to inspection. The cleaning procedure must not cause chemical damages (e.g. no acid-embrittlement). Do not expose the hoist and supporting components to unallowed temperatures by e.g. flame cleaning avoid concealment of cracks and excessive material loss (sand blasting).
  We shall be pleased to consult you in this respect. Please submit your hoists for inspection in clean condition. This will reduce inspection costs considerably.

Criteria for hoist disposal

Hoists must no longer be operated if e.g.:

- The identification (identity plate) is missing or illegible.
- Security relevant components like brake, slipping clutch, ratchet pawls etc. do not properly function any longer.
- Housing, control units and suspension of the hoist present obvious deficiencies, i.e.
  - cuts, grooves, cracks
  - excessive corrosion
  - staining due to heat
  - signs of subsequent welding resp. spatters which cannot be easily removed and leave stains.
- Ropes show breakage of wires resp. bruises (criteria for disposal of ropes are given in classification DIN 15020), damages to the rope sleeve and similar failures.
- The load chain presents twisted or distorted links or shows an elongation of 5% of one chain link or a reduction in diameter of more than 10% (average of two measurings (longitudinal and transverse) compared to the nominal diameter).
- The opening (C) of suspension and/or load hooks is stretched by more than 10% compared with the nominal dimension, or if the hook mouth shows a wear of more than 5% of either dimension B or D.



- Detrimental impacts by e.g. overloading, shock loading, chemical influences or heat have occurred, the hoist may only be returned to service after careful inspection and repair.

INFO



Ratchet lever hoist with roller chain model C 85

Capacity 750 - 10000 kg

Ratchet lever hoist with link chain model D 85

Capacity 750 - 10000 kg

Almost unlimited applications in maintenance, mining, construction, steel fabrication, shipbuilding and utility work. Ideal for moving and positioning heavy machines and securing heavy loads, simplifies setting pipes etc. in manholes and trenches.

Features

- Enclosed housing with housing cover, handlever and bottom block made from high tensile white malleable cast iron for overall rugged construction.
- The graphite cast iron load sheave for the link chain has precision machined chain pockets for accurate fit and durability of the load chain.
- The roller chain sprocket is made from heat treated chromium-molybdenum steel with precision machined teeth to ensure smooth chain movement.
- Alloyed steel link chain with zinc-plated resp. yellow chromated finish, in accordance with national and international standards and regulations.

Options

- All models can be equipped with an overload protection device in the form of a slip clutch which is factory preset to approx. 25 % ± 15 % overload.
- Free chaining device to quickly attach the load or to pull the chain through the hoist in both directions.
- Hoist with sling chain.

INFO

Since 1936 more than 1 million units have been built in Velbert.

All ratchet lever hoists with a capacity exceeding 750 kg can be used for load attachment according to EN 12195.

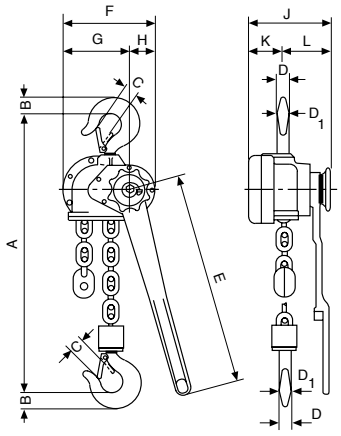
Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.

Technical data model C 85

Model	EAN-No. 4025092*	Capacity kg	Number of chain falls	Chain dimensions d x p Inch	Lift with one full lever turn mm	Handle pull at WLL daN	Weight at standard lift (1.5 m) kg
PUL-LIFT C 85 750	*050173	750	1	5/8"x3/8"	115	38	8.7
PUL-LIFT C 85 1500	*050180	1500	1	1"x1/2"	45	31	17.0
PUL-LIFT C 85 3000	*050197	3000	1	1 1/4"x5/8"	36	40	22.2
PUL-LIFT C 85 6000	*050203	6000	2	1 1/4"x5/8"	18	44	38.0
PUL-LIFT C 85 10000	*050326	10000	3	1 1/4"x5/8"	12	44	67.0

Dimensions model C 85

Model	PUL-LIFT C 85 750	PUL-LIFT C 85 1500	PUL-LIFT C 85 3000	PUL-LIFT C 85 6000	PUL-LIFT C 85 10000
A min., mm	322	389	403	560	785
B, mm	21	27	35	48	61
C, mm	27	30	34	46	54
D, mm	15	20	25	40	40
D1, mm	17	23	25	40	45
E, mm	443	443	570	570	570
F, mm	112	189	197	197	305
G, mm	56	134	142	142	163
H, mm	56	55	55	55	142
J, mm	142	171	179	218	218
K, mm	39	72	76	76	76
L, mm	103	99	103	142	142



Technical data model D 85

Model	EAN-No. 4025092*	Capacity kg	Number of chain falls	Chain dimensions d x p mm	Lift with one full lever turn mm	Handle pull at WLL daN	Weight at standard lift (1.5 m) kg
PUL-LIFT D 85 750	*050548	750	1	6x18.5	111	38	8.2
PUL-LIFT D 85 1500	*050555	1500	1	9x27	45	31	16.3
PUL-LIFT D 85 3000	*050562	3000	1	11x31	33	40	19.6
PUL-LIFT D 85 6000	*050579	6000	2	11x31	17	42	32.9
PUL-LIFT D 85 10000	*050784	10000	3	11x31	11	37	60.0

Dimensions model D 85

Model	PUL-LIFT D 85 750	PUL-LIFT D 85 1500	PUL-LIFT D 85 3000	PUL-LIFT D 85 6000	PUL-LIFT D 85 10000
A min., mm	322	389	403	532	805
B, mm	21	27	35	48	61
C, mm	27	30	34	46	54
D, mm	15	20	25	40	40
D1, mm	17	23	25	40	45
E, mm	443	443	570	570	570
F, mm	112	189	197	197	305
G, mm	56	134	142	142	163
H, mm	56	55	55	55	142
J, mm	142	171	179	218	218
K, mm	39	72	76	76	76
L, mm	103	99	103	142	142



Option:
Overload protection for C/D 85.



Ratchet lever hoist with link chain model D 95

Capacity 1500 - 3000 kg

The D 95 in its cast malleable iron design has taken key technical features from the proven D 85 but excels due to low tare weight and an extremely small measurement between suspension and load hooks. A versatile unit for moving, positioning and securing loads.

Features

- Enclosed housing with housing cover, handlever and bottom block made from high tensile malleable cast iron for overall rugged construction.
- The short handlever is fitted with an ergonomic rubber grip.
- It has an automatically acting load pressure brake which works on the self-locking principal.
  For example, when used to secure loads an unintentional loosening of the brake is prevented when the load vibrates.
- Standard free chaining device to quickly attach the load or to pull the chain through the hoist in both directions.
- Alloyed steel link chain with zinc-plated resp. yellow chromated finish, in accordance with national and international standards and regulations.

Options

- All models can be equipped with an overload protection device in the form of a slip clutch which is factory preset to approx. 25 % ± 15 % overload.
- Hoist with sling chain.



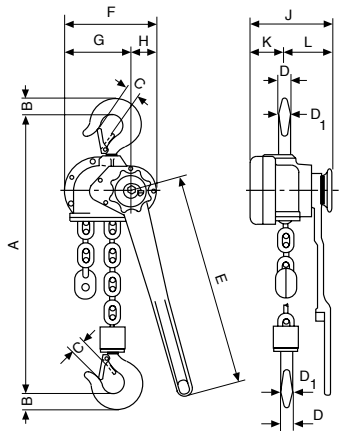
Hoist with sling chain

Technical data model D95

Model	EAN-No. 4025092*	Capacity kg	Number of chain falls	Chain dimensions d x p mm	Lift with one full lever turn mm	Handle pull at WLL daN	Weight at standard lift (1.5 m) kg
PUL-LIFT D95 1500	*050807	1500	1	6.2 x 18.5	35	27	9.9
PUL-LIFT D95 3000	*050821	3000	1	9 x 27.2	38	49	16.5

Dimensions model D95

Model	PUL-LIFT D95 1500	PUL-LIFT D95 3000
A min., mm	314	376
B, mm	23	30
C, mm	23	25
D, mm	18	22
D1, mm	18	22
E, mm	315	443
F, mm	156	189
G, mm	112	134
H, mm	44	55
J, mm	141	177
K, mm	49.5	72
L, mm	92	105

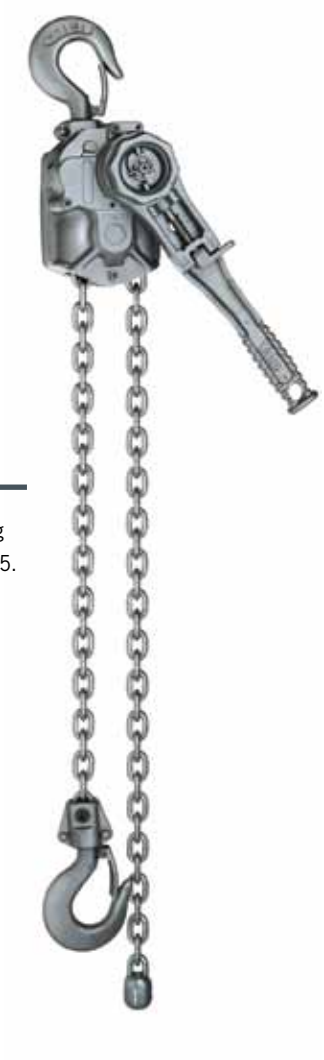




INFO

All ratchet lever hoists with a capacity exceeding 750 kg can be used for load attachment according to EN 12195.

Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.



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Ratchet lever hoist model AL

Capacity 750 - 3000 kg

Its low own weight is an advantage. When the hoist has to be frequently carried over longer distances to different assignments. This universal ratchet hoist should not be missing in any service truck.

Features

- The enclosed housing, hand lever and hand wheel are made from high quality aluminium.
- Low effort on hand lever.
- Due to precise needle bearings the hoist can be operated with little effort.
- Standard free chaining device to quickly attach the load or to pull the chain through the hoist in both directions.
- The chain guide is cast into the body to ensure fault-less chain movement.
- Alloyed steel link chain with zinc-plated resp. yellow chromated finish, in accordance with national and international standards and regulations.

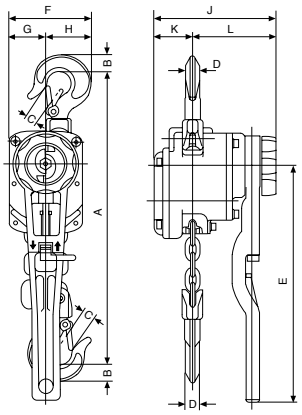


Technical data model AL

Model	EAN-No. 4025092*	Capacity kg	Number of chain falls	Chain dimensions d x p mm	Lift with one full lever turn mm	Handle pull at WLL daN	Weight at standard lift (1.5 m) kg
AL 750	*051194	750	1	6.3 x 19.1	30	16	6.4
AL 1000	*051200	1000	1	6.3 x 19.1	30	22	6.6
AL 1500	*051217	1500	1	7.1 x 21.2	16	18	10.0
AL 3000	*051224	3000	1	10 x 30.2	14	28	18.0

Dimensions model AL

Model	AL 750	AL 1000	AL 1500	AL 3000
A min., mm	315	325	380	455
B, mm	20	23	27	36
C, mm	22	23	26	33
D, mm	14	16	20	24
E, mm	300	300	300	400
F, mm	106	109	138	168
G, mm	47	47	60	75
H, mm	59	62	78	93
J, mm	154	154	177	212
K, mm	49	49	74	94
L, mm	105	105	103	118



Ratchet lever hoist model PT

Capacity 800 - 6300 kg

Ratchet lever hoists model PT features improved techniques and ergonomical styling. The advantages of the predecessor range have been maintained and further optimized.
A good, versatile, all round ratchet lever hoist for demanding conditions.

Features

- The proven stamped steel housing provides extremely low weight without limiting the reliability and sturdiness of the unit.
- The short handlever is fitted with an ergonomic rubber grip.
- Standard free chaining device to quickly attach the load or to pull the chain through the hoist in both directions.
- Alloyed steel link chain with zinc-plated resp. yellow chromated finish, in accordance with national and international standards and regulations.
- Drop forged suspension and load hooks are made from non-aging, high tensile steel and fitted with robust safety latches.

Option

- All models can be equipped with an overload protection device in the form of a slip clutch which is factory preset to approx. 25 % ± 15 % overload.



INFO

All ratchet lever hoists with a capacity exceeding 750 kg can be used for load attachment according to EN 12195.

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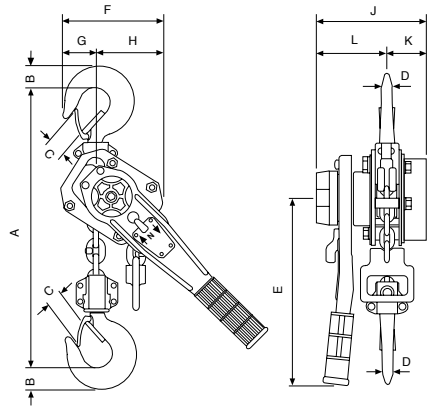
Option:
Overload protection device

Technical data model PT

Model	EAN-No. 4025092*	Capacity kg	Number of chain falls	Chain dimensions d x p mm	Lift with one full lever turn mm	Handle pull at WLL daN	Weight at standard lift (1.5 m) kg
PT 800	*076463	800	1	5.6 x 17.1	24	26	5.5
PT 1600	*076470	1600	1	7.1 x 21.2	23	30	9.6
PT 3200	*076487	3200	1	9 x 27.2	16	38	16.0
PT 6300	*076494	6300	2	9 x 27.2	8	39	31.0

Dimensions model PT

Model	PT 800	PT 1600	PT 3200	PT 6300
A min., mm	290	330	430	580
B, mm	21	27	36	53
C, mm	24	31	35	46
D, mm	13	20	24	43
E, mm	235	370	370	370
F, mm	120	138	177	259
G, mm	38	41	53	85
H, mm	82	97	124	174
J, mm	142	163	185	185
K, mm	52	65	83	83
L, mm	90	98	102	102





INFO

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Available in explosion proof version (please see page 463).

Ratchet lever hoist model UNOplus

Capacity 750 - 6000 kg

Further technical development turns the ratchet lever hoist into the successor of our proven UNO model. The versatile tool for lifting, pulling and securing of loads is characterised by its compact design and robust stamped steel construction.

Features

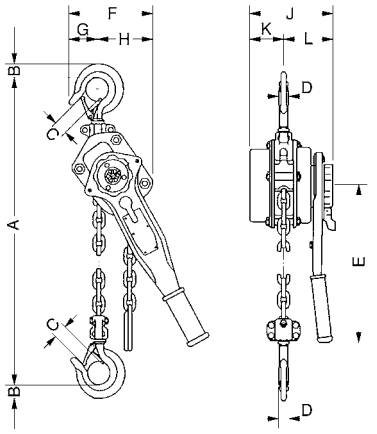
- Due to optimized gearing and improved bearings in the housing cover a minimum effort is required to operate the short hand lever.
- Steel hand wheel as standard.
- Automatic screw-and-disc type load brake with corrosion protected components.
- Standard free chaining device to quickly attach the load or to pull the chain through the hoist in both directions.
- Robust chain guide rollers eliminate fouling and jamming of chain on the load sheave.
- Sturdy bottom block with encapsulated bolt connections
- Alloyed steel link chain with zinc-plated resp. yellow chromated finish, in accordance with national and international standards and regulations.
- Drop forged suspension and load hooks are made from non-aging, high tensile steel and fitted with robust safety latches.

Technical data model UNOplus

Model	EAN-No. 4025092*	Capacity kg	Number of chain falls	Chain dimensions d x p mm	Lift with one full lever turn mm	Handle pull at WLL daN	Weight at standard lift (1.5 m) kg
UNOplus 750	*168342	750	1	6 x 18	20	20	7.2
UNOplus 1500	*168359	1500	1	8 x 24	22	35	12.5
UNOplus 3000	*168366	3000	1	10 x 30	17	40	21.5
UNOplus 6000	*168380	6000	2	10 x 30	9	40	32.0

Dimensions model UNOplus

Model	UNOplus 750	UNOplus 1500	UNOplus 3000	UNOplus 6000
A min., mm	340	410	510	690
B, mm	22	28	36	45
C, mm	26	32	40	44
D, mm	16	21	27	33
E, mm	250	330	380	380
F, mm	150	170	220	220
G, mm	70	80	100	100
H, mm	80	90	120	120
J, mm	150	180	210	210
K, mm	60	80	90	90
L, mm	90	100	120	120



Ratchet lever hoist model Yalehandy

Capacity 250 - 500 kg

The extreme low own weight and the very compact design make the hoist easy to use even in confined working conditions. Due to the multitude of application possibilities e.g. in industry, trade and service this ratchet lever hoist is indispensable.

Features

- The enclosed design protects the internal parts from contamination.
- The short handlever is fitted with an ergonomic rubber grip.
- All parts of the disc type load brake are manufactured from high quality materials and are corrosion protected.
- Standard free chaining device to quickly attach the load or to pull the chain through the hoist in both directions.
- Alloyed steel link chain with zinc-plated resp. yellow chromated finish, in accordance with national and international standards and regulations.
- Drop forged suspension and load hooks are made from non-aging, high tensile steel and fitted with robust safety latches.



INFO

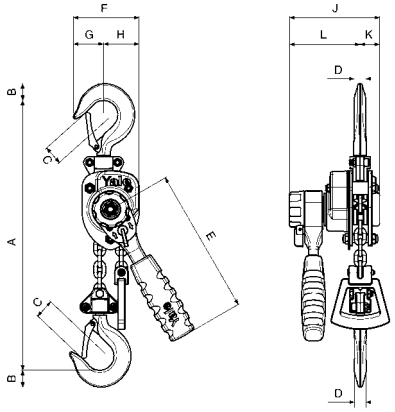
Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.

Technical data model Yalehandy

Model	EAN-No. 4025092*	Capacity kg	Number of chain falls	Chain dimensions d x p mm	Lift with one full lever turn mm	Handle pull at WLL daN	Weight at standard lift (1.5 m) kg
Yalehandy 250	*075039	250	1	4 x 12	80	25	2.2
Yalehandy 500	*077675	500	1	4 x 12	40	25	2.8

Dimensions model Yalehandy

Model	Yalehandy 250	Yalehandy 500
A min., mm	240	282
B, mm	20	17
C, mm	21	24
D, mm	14	12
E, mm	160	160
F, mm	72	104
G, mm	33	38
H, mm	39	66
J, mm	98	116
K, mm	21	36
L, mm	77	80





Patented! Rotating hand chain guide

Available in explosion proof version (please see page 448).



Chain guide



High quality encapsulated ball bearings and sliding bushes for smooth and effortless operation.

INFO

Easy modification from Yalelift 360 to Yalelift IT is possible.

Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.

Hand chain hoist model Yalelift 360

Capacity 500 - 20000 kg

Areas of operation as well as operator conditions have been improved far beyond those of a classical hand chain hoist.

Features

- The enclosed robust stamped steel housing protects all internal components even in the toughest conditions.
- The extremely low headroom allows maximum use of the lifting height.
- The revolutionary 360° rotating hand chain guide allows the operator to work from virtually any position, in confined spaces or above the load. The Yalelift can even be operated from the side of the load which also makes it possible to use the hoist for horizontal pulling or tensioning. Due to the additional flexibility, the operator is no longer forced to work in the danger zone near the load.
- The brake system is extremely quiet and guarantees operational safety and improved serviceability due to omission of the vulnerable ratchet pawls. All parts are made of high quality materials, additionally zinc-plated or yellow-chromated to increase corrosion prevention.
- Chain guide and gearbox are almost totally enclosed. Even under the toughest conditions the internal gearbox remains protected.
- The hardened load sheave with four precision machined pockets ensures accurate movement of the load chain.
- The surface protected zinc-plated alloy steel load chains fulfil all requirements of current national and international standards and regulations.
- Drop forged load and suspension hooks that yield under overload instead of breaking, are made of high tensile steel. The hooks are fitted with robust safety latches and rotate 360°.

Options

- Adjustable overload protection device.
- Chain container
- Corrosion resistant version

Hand chain hoist model Yalelift 360 20 t

Capacity 20000 kg

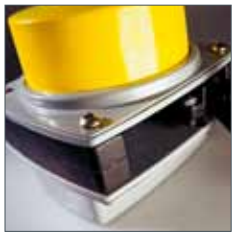
The brake system used in the Yalelift series is also employed in the Yalelift 360 20 t, setting standards in terms of operational safety and serviceability. The brake is extremely quiet and wear resistant. In spite of its high capacity, the Yalelift 360 20 t features a compact design.

Features

- All components are made of high quality materials, some components are zinc-plated or yellow-chromated for added corrosion protection. This ensures that also heaviest loads are held reliably.
- The enclosed robust stamped steel body resists in the toughest conditions and allows outside operation.
- The hardened load sheave with five precision machined pockets ensures accurate movement of the load chain.
- The low headroom (hook-to-hook dimension 1010 mm) allows maximum use of the lifting height.
- The Yalelift 360 20 t is equipped with six chain falls only which results in higher speed and lower weight.

Options

- Adjustable overload protection device.
- Chain container
- Corrosion resistant version



The robust stamped steel housing with four stay bolts is resistant to the toughest working conditions.



The precisely machined load sheave ensures accurate movement of the load chain.



Technical data model Yalelift

Model	EAN-No. 4025092*	Capacity kg	Number of chain falls	Chain dimensions d x p mm	Lift per 1 m hand chain overhaul mm	Handle pull at WLL daN	Weight at standard lift (3 m) kg
YL 500	*288545	500	1	5 x 15	33	21	9
YL 1000	*288552	1000	1	6 x 18	20	30	13
YL 2000	*288569	2000	1	8 x 24	14	32	20
YL 3000	*941129	3000	1	10 x 30	12	38	29
YL 5000	*941143	5000	2	10 x 30	6	34	38
YL 10000	*291842	10000	3	10 x 30	4	44	71
YL 20000	*292153	20000	6	10 x 30	2	2 x 44	196

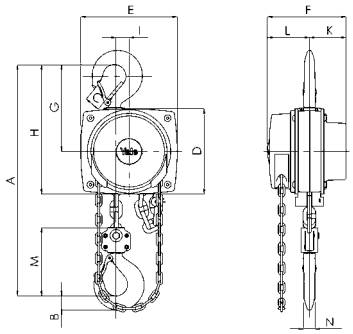




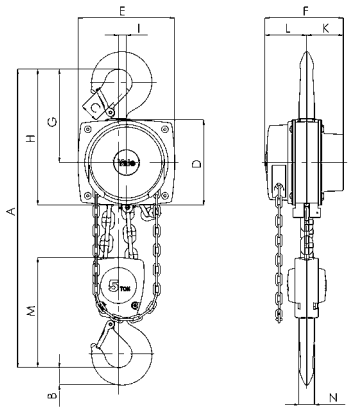


Dimensions model Yalelift

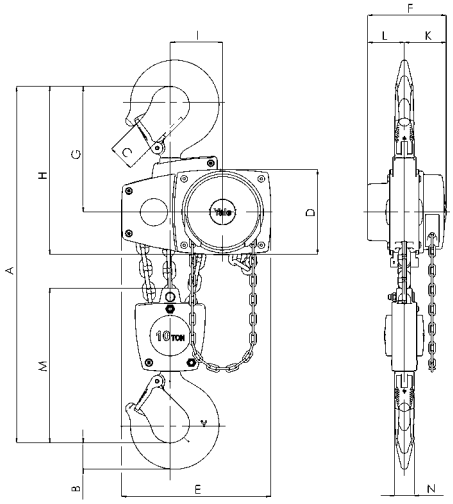
Model	YL 500	YL 1000	YL 2000	YL 3000	YL 5000	YL 10000	YL 20000
A min., mm	300	335	395	520	654	825	1065
B, mm	17	22	30	38	45	68	85
C, mm	24	29	35	40	47	68	64
D, mm	133	156	182	220	220	220	303
E, mm	148	175	203	250	250	383	555
F, mm	148	167	194	219	219	219	250
G, mm	139	164	192	225	242	326	391
H, mm	206	242	283	335	352	436	501
I, mm	24	24	31	34	21	136	–
K, mm	61	70	83	95	95	95	396
L, mm	87	97	111	124	124	124	125
M, mm	110	125	156	178	285	401	471
N, mm	14	19	22	30	37	50	56



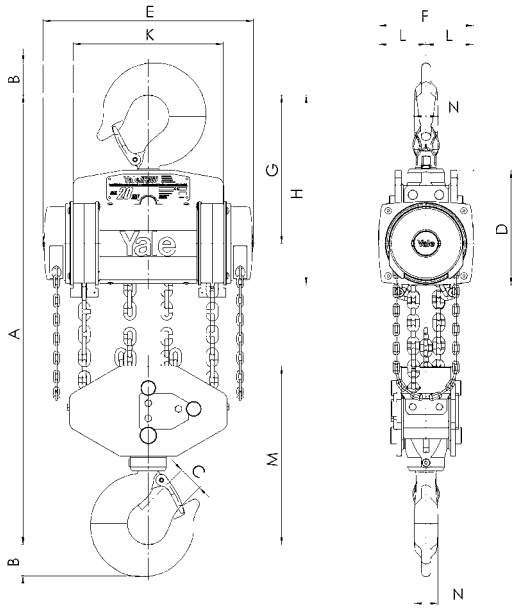
Model Yalelift 360, 500 - 3000 kg, single fall



Model Yalelift 360, 5000 kg, double fall



Model Yalelift 360, 10000 kg, three fall



Model Yalelift 360, 20000 kg, six fall





Hand chain hoist model VS*III*

Capacity 250 - 5000 kg

The newly designed hand chain hoist VS*III* is an innovative further development introduced by Yale. The improved hand chain guide prevents canting or jamming of the hand chain, leading to a smooth running of the chain. High quality bearings on side plates, gearbox and load chain sheave ensure smooth operation of load chain and drive pinion.
Optimized hand forces set standards for easy operation.

Features

- Strong bolts between side plates and housing cover and the reinforced hand wheel cover ensure increased stability.
- Precision machined guide rollers ensure smooth running of the load chain.
- High quality bearings for gearbox, side plates and load chain sheave permit a long service life.
- Zinc-plated and yellow-chromated brake parts and guide rollers ensure increased corrosion protection.
- Zinc-plated load chain as standard for added corrosion protection.

Options

- Overload protection device
- Chain container



Load chain sheave with needle bearing



Side plate with ball bearing



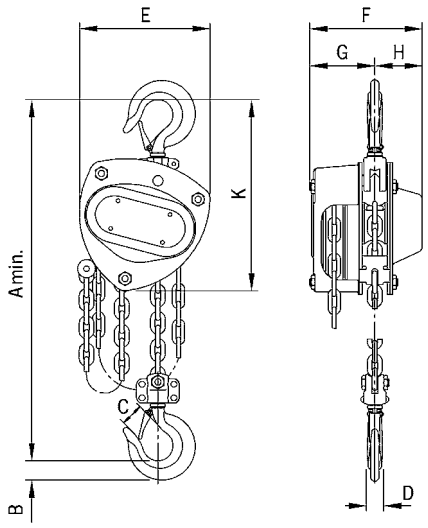
Housing cover with ball bearing

Technical data model VS*III*

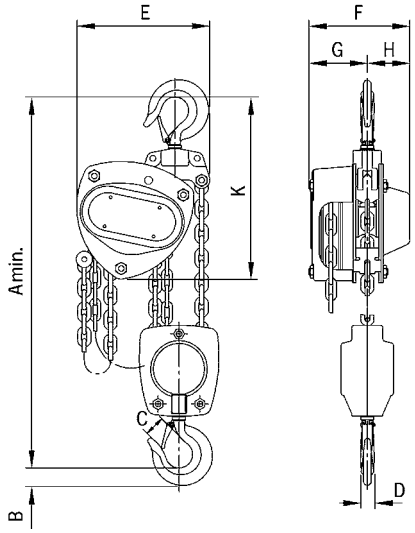
Model	EAN-No. 4025092*	Capacity in kg/ number of chain falls	Chain dimensions d x p mm	Lift per 1 m hand chain overhaul mm	Handle pull at WLL daN	Weight at standard lift (3 m) kg
VS*III* 0,25/1	*665322	250/1	4 x 12	50	20	3.9
VS*III* 0,5/1	*949545	500/1	5 x 15	26	21	9.0
VS*III* 1,0/1	*949927	1000/1	6 x 18	24	24	11.5
VS*III* 1,5/1	*593854	1500/1	8 x 24	17	30	17.5
VS*III* 2,0/1	*949934	2000/1	8 x 24	19	32	19.0
VS*III* 2,0/2	*949941	2000/2	6 x 18	15	29	17.3
VS*III* 3,0/1	*949958	3000/1	10 x 30	12	40	31.0
VS*III* 3,0/2	*949965	3000/2	8 x 24	10	37	27.0
VS*III* 5,0/2	*949972	5000/2	10 x 30	8	41	43.0

Dimensions model VS*III*

Model	VS*III* 0,25/1	VS*III* 0,5/1	VS*III* 1,0/1	VS*III* 1,5/1	VS*III* 2,0/1	VS*III* 2,0/2	VS*III* 3,0/1	VS*III* 3,0/2	VS*III* 5,0/2
A min., mm	290	350	380	450	460	490	570	580	700
B, mm	12	21	27	33	37	37	46	46	56
C, mm	26	28	32	37	41	41	44	44	50
D, mm	11	16	19	22	27	27	31	31	37
E, mm	118	145	158	180	205	170	240	220	250
F, mm	113	140	155	175	180	155	210	175	190
G, mm	65	80	87	85	94	87	110	94	95
H, mm	48	60	68	90	86	68	100	81	95
K, mm	190	240	270	300	320	285	370	340	410



Model VS*III*, 250 - 3000 kg, single fall



Model VS*III*, 2000 - 5000 kg, double fall



Option: Chain container

INFO

Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.



Depicted rubber buffers are available optionally.

Available in explosion proof version (please see page 452).

Hand chain hoist with integrated push or geared type trolley model Yalelift IT

Capacity 500 - 20000 kg

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

Features

- All units of this series up to a capacity of 3000 kg are provided with single chain fall and the min. headroom (Dim. A) has been further reduced. Ideal for applications with low ceilings and limited headroom.
- The proven and almost stepless adjustment system allows quick and easy assembly of the trolley.
- Trolleys up to 5 t are offered for two beam ranges. Range A for a flange width up to 180 mm is standard and covers approx. 80 % of all applications. Conversion to range B for beam width up to 300 mm 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.
- Chain container
- Rubber buffers
- Corrosion resistant version
- Beam locking device to secure the unloaded trolley in a fixed position on the beam (park position e.g. on ships). Available up to a capacity of 5000 kg.

Technical data model Yalelift ITP/G

Model	EAN-No. 4025092*	Capacity in kg/ number of chain falls	Size	Beam flange width b mm	Beam flange thickness t max. mm	Curve radius min. m	Weight at standard lift (3 m) - P kg	Weight at standard lift (3 m) - G kg	Weight at standard lift (3 m) with locking device - P kg	Weight at standard lift (3 m) with locking device - G kg
YLIT 500	*288255	500/1	A	50 - 180	19	0.9	20	24	26	31
YLIT 500	–	500/1	B	180 - 300	19	0.9	21	25	27	32
YLIT 1000	*292221	1000/1	A	50 - 180	19	0.9	27	32	35	40
YLIT 1000	–	1000/1	B	180 - 300	19	0.9	29	33	37	41
YLIT 2000	*291798	2000/1	A	58 - 180	19	1.15	44	49	52	57
YLIT 2000	–	2000/1	B	180 - 300	19	1.15	46	50	54	58
YLIT 3000	*291804	3000/1	A	74 - 180	27	1.5	77	82	86	91
YLIT 3000	–	3000/1	B	180 - 300	27	1.4	79	84	88	93
YLIT 5000	*291828	5000/2	A	98 - 180	27	2.0	125	130	135	140
YLIT 5000	–	5000/2	B	180 - 300	27	1.8	129	134	139	144
YLIT 10000	*080996	10000/3	B	125 - 310	40	1.8	–	202	–	212
YLIT 20000 [1]	*172325	20000/6	B	180 - 310	40	9.5	–	on request	–	on request

[1] Dimensions on request
P in connection with weight = with push trolley G in connection with weight = with geared trolley



Chain guide



High quality encapsulated ball bearings and sliding bushes for smooth and effortless operation.



The robust stamped steel housing with four stay bolts is resistant to the toughest working conditions.



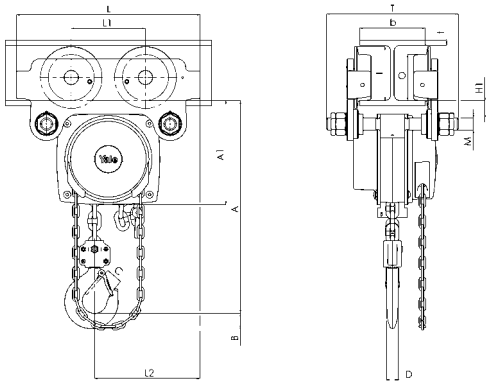
The precisely machined load sheave ensures accurate movement of the load chain.

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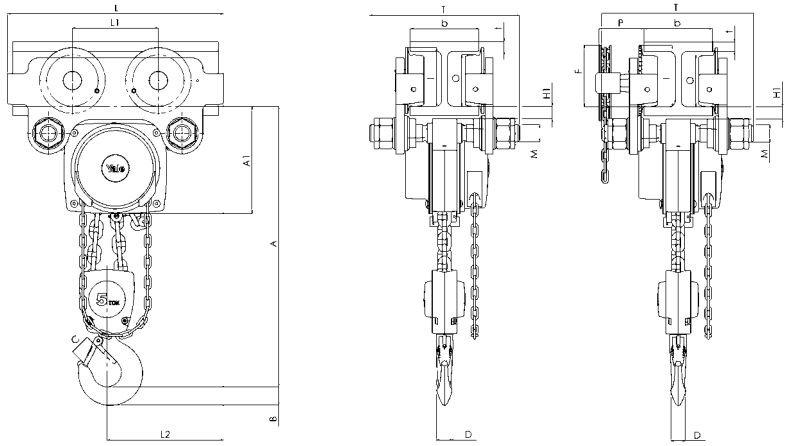
Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.

Dimensions model Yalelift IT

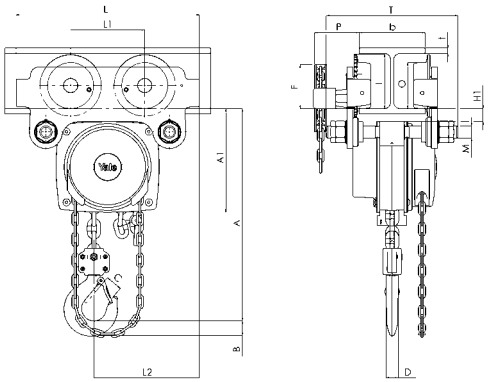
Model	YLIT 500	YLIT 1000	YLIT 2000	YLIT 3000	YLIT 5000	YLIT 10000
A min., mm	245	272	323	382	550	784
A1, mm	158	178	205.5	252	260.5	380
A2, mm	–	–	–	–	–	–
B, mm	17	22	30	38	45	68
C, mm	24	29	35	40	47	68
D, mm	14	19	22	30	37	50
F (Geared trolley), mm	92	92	91	107	149.5	113
H1, mm	24.5	24	23.5	32	30.5	55
I (Push trolley), mm	71.5	71.5	95.5	131	142.5	169
I (Geared trolley), mm	76.5	76.5	98	132.5	148.5	169
L, mm	270	310	360	445	525	430
L1, mm	130	130	150	180	209	200
L2, mm	159	175	207	256	283	261
L3, mm	–	–	–	–	–	–
L4, mm	–	–	–	–	–	–
M, mm	M 18	M 22	M 27	M 30	M 42	M 48
O, mm	60	60	80	112	125	150
P (Geared trolley), mm	108	110	112	112	117	158
T (Area A), mm	280	290	305	320	364	–
T (Area B), mm	400	410	425	440	484	540



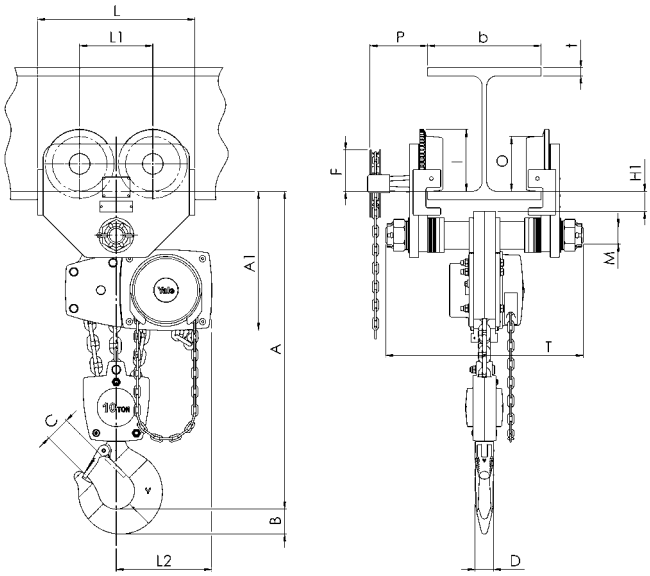
Model Yalelift ITP, 500 - 3000 kg, single fall



Model Yalelift ITP/ITG, 5000 kg, double fall



Model Yalelift ITG, 500 - 3000 kg, single fall



Model Yalelift ITG, 10000 kg, three fall

Hand chain hoist with integrated push or geared type trolley (low headroom) model Yalelift LH

Capacity 500 - 10000 kg

The hand chain hoist model Yalelift LH with integrated low headroom manual trolley is the consequent further development of the Yalelift IT. Wherever an even smaller headroom is essential, the Yalelift LH is the ideal choice.

Features

- The specially developed chain reeving system and chain guide allow the bottom block to be pulled laterally to the hoist even further up and almost against the beam flange.
- The integrated design of the innovative Yalelift LH uses the same manual trolleys as incorporated in the Yalelift IT series.
- All models of the LH series up to 3000 kg capacity are provided with single chain fall.
- The proven and almost stepless adjustment system allows quick and easy assembly of the trolley.
- The trolleys up to 5 t are offered for two beam ranges. Range A for a flange width up to 180 mm is standard and covers approx. 80 % of all requirements. Conversion to range B for beam width up to 300 mm 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.
- The low headroom version of the Yalelift IT is adjustable to fit a wide range of beam profiles (e.g. INP, IPE, IPB).
- Anti-drop and anti-tilt devices as standard.
- Excellent rolling features due to machined steel wheels mounted on pre-lubricated, encapsulated ball bearings.

Options

- Adjustable overload protection device.
- Chain container
- Corrosion resistant version.
- Beam locking device to secure the unloaded trolley in a fixed position on the beam (park position e.g. on ships).

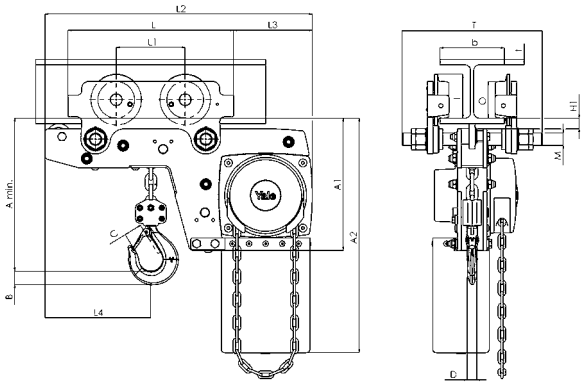


Available in explosion proof version (please see page 456).

Technical data model Yalelift LH

Model	EAN-No. 4025092*	Capacity in kg/ number of chain falls	Size	Beam flange width b mm	Beam flange thickness t max. mm	Curve radius min. m	Weight at standard lift (3 m) - P kg	Weight at standard lift (3 m) - G kg	Weight at standard lift (3 m) with locking device - P kg	Weight at standard lift (3 m) with locking device - G kg
YLLH 500	*293082	500/1	A	60 - 180	19	0.9	27	31	33	38
YLLH 500	–	500/1	B	180 - 300	19	0.9	27	32	34	38
YLLH 1000	*293167	1000/1	A	70 - 180	19	0.9	35	40	43	48
YLLH 1000	–	1000/1	B	180 - 300	19	0.9	36	41	44	49
YLLH 2000	*319676	2000/1	A	82 - 180	19	1.15	61	65	69	73
YLLH 2000	–	2000/1	B	180 - 300	19	1.15	62	67	70	75
YLLH 3000	*319669	3000/1	A	100 - 180	19	1.5	107	112	116	121
YLLH 3000	–	3000/1	B	180 - 300	19	1.4	109	114	118	123
YLLH 5000	*319652	5000/2	A	110 - 180	27	2.0	152	157	162	167
YLLH 5000	–	5000/2	B	180 - 300	27	1.8	156	161	166	171
YLLH 10000	–	10000/3	A	125 - 210	40	1.8	224	230	234	239
YLLH 10000	–	10000/3	B	190 - 310	40	1.8	227	232	237	242

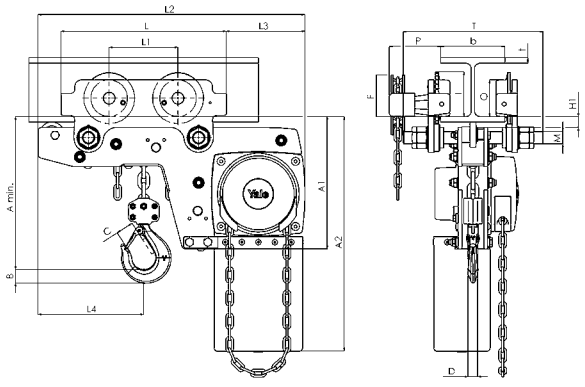
P in connection with weight = with push trolley
G in connection with weight = with geared trolley



Model Yalelift LHP, 500 - 3000 kg, single fall

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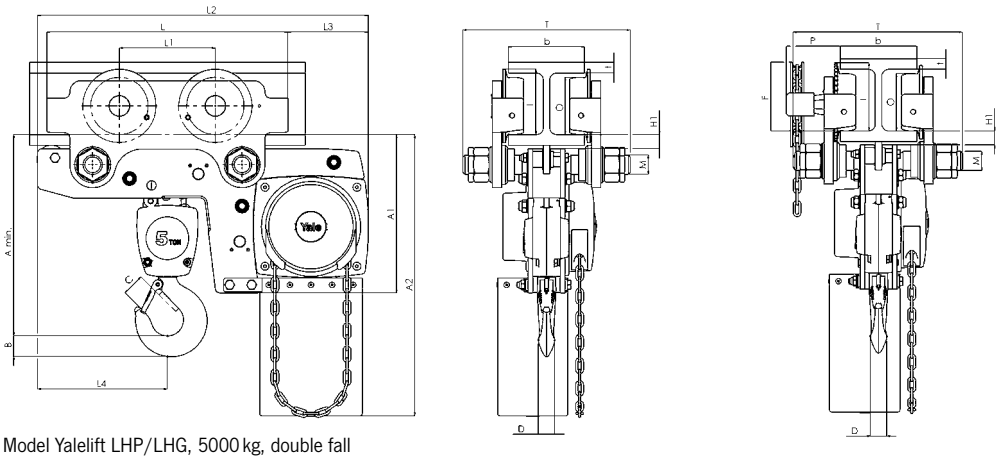
Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.



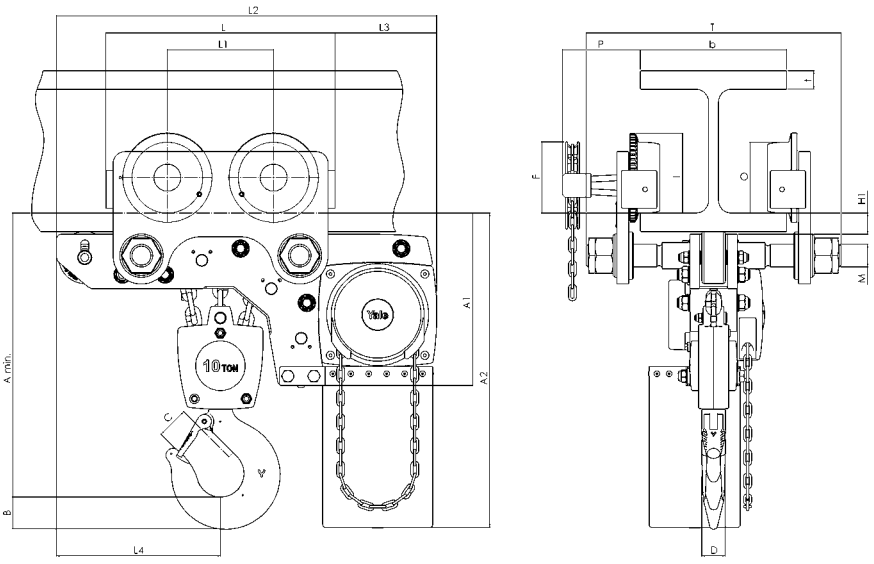
Model Yalelift LHG, 500 - 3000 kg, single fall

Dimensions model Yalelift LH

Model	YLLH 500	YLLH 1000	YLLH 2000	YLLH 3000	YLLH 5000	YLLH 10000
A min., mm	188	211	264	316	425	565
A1, mm	223	250	289	346	345	365
A2, mm	381	427	511	614	612	665
B, mm	17	22	30	38	45	68
C, mm	24	29	35	40	47	68
D, mm	14	19	22	30	37	50
F (Geared trolley), mm	92	92	91	107	150	150
H1, mm	24	24	24	32	31	45
I (Push trolley), mm	72	72	96	131	143	170
I (Geared trolley), mm	77	77	98	133	149	170
L, mm	270	310	360	445	525	485
L1, mm	130	130	150	180	209	225
L2, mm	444	488	582	690	720	805
L3, mm	124	135	172	203	175	215
L4, mm	184	201	230	265	283	348
M, mm	M 18	M 22	M 27	M 30	M 42	M 48
O, mm	60	60	80	112	125	150
P (Geared trolley), mm	108	110	112	112	117	165
T (Area A), mm	280	290	305	320	364	440
T (Area B), mm	400	410	425	440	484	540



Model Yalelift LHP/LHG, 5000 kg, double fall



Model Yalelift LHG, 10000 kg, three fall



Swivel truck low headroom trolley hoist suitable for extreme curve radius model VLRP and model VLRG

Capacity 250 - 6000 kg

The hand chain hoist series VLR with integrated manual trolley drive features extremely low headroom capabilities and provides optimal usage of the available storage space in confined areas.
Hand wheel and gear case are positioned outside the reach of the bottom flange, thus allowing the bottom block to be raised almost until the underside of the beam. The swivel truck feature of the trolley suspension enables travelling on extremely short radius curves.

Features

- All-steel construction with zinc-plated load and hand chains.
- The integrated swivel truck trolley suspension permits application on runways with extremely narrow radii.
- All units are built to order for a predetermined beam dimension. They cannot be adjusted retro-actively to other beam sizes.
- Anti-drop and anti-tilt devices as standard.
- The rotating hand chain guide allows side-pull of the trolley hand chain in travel direction.

Options

- Overload protection device
- Chain container
- Buffers



INFO

Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.

Beam profile and dimension as well as curve radius must always be specified when ordering.

Compact low headroom trolley hoist with integrated manual trolley model VNRP and model VNRG

Capacity 1500 - 24000 kg

On account of a special chain reeving system and corresponding chain guide the trolley hoist series VNR offers minimum headroom and maximum usage of the available room height. These hoists have been specially designed for heavy industrial applications.



Features

- All-steel construction with zinc-plated load and hand chains.
- All units are built to order for a predetermined beam dimension. They cannot be adjusted retro-actively to other beam sizes.
- Anti-drop and anti-tilt devices as standard.

Options

- Chain container
- Buffers

extremely low headroom for confined spaces



Swivel truck trolley with low headroom and extremely short curve radius model VLHP and model VLHG

Capacity 250 - 6000 kg

The manual trolley series VLH features extremely low headroom. The swivel truck construction allows negotiation of very short curve radius.

Features

- All-steel construction with low headroom
- All units are built to order for a predetermined beam dimension. They cannot be adjusted retro-actively to other beam sizes.
- Anti-drop and anti-tilt devices as standard.

Options

- Buffers
- Large variety of special versions.



Available in explosion proof version (see page 452).

Corrosion protection CR

More life expectancy.

All models of the Yalelift programme can be supplied with corrosion resistant features which include zinc-plated load chain and stainless steel hand chain as standard.

Corrosion protection

Corrosion starts on the surface of components due to reaction of environmental influences. This affects the mechanical properties of the components, e.g. breaking load and total ultimate elongation.
Many components are supplied in black (unmachined), bright (machined) or painted condition. This offers certain protection but after only a short period of time corrosion can begin.
With the application of a protective coating, the development of corrosion can be reduced and delayed, thus extending the service life of the treated components.

Applications

Completely corrosion resistant units with either zinc-plated or stainless steel hand and load chains should be used in all conditions with increased requirements towards corrosion protection.
Typical applications are in food processing (e.g. dairy, abattoir, etc.), chemical industries (e.g. paper, dye industries), farming and sewage treatment.

Locking device

More grip.

Yale trolleys can be delivered with a locking device to secure the unit (Parking position, e.g. shipping industry).

Chain container

More comfort.

The chain containers for the Yalelift programme consist of a robust, powder-coated steel frame with a flexible chain bag made from high tensile Cordura textile fabric.
Available in different sizes. Special sizes on request.

Overload protection

More control.

The overload protection device of the Yalelift programme reliably prevents excessive load take-up of the hoist during operation. The overload protection device provides additional safety with regard to possible false estimation of the load weight and thus increases the lifetime of the hoist.

Beam clamp model YC

Capacity 1000 - 10000 kg

Provides a quick and versatile rigging point for hoisting equipment, pulley blocks or loads. Flexible application due to wide adjustment range. The central threaded spindle allows easy attachment and a safe and secure grip.
The spindle can be secured against loosening.



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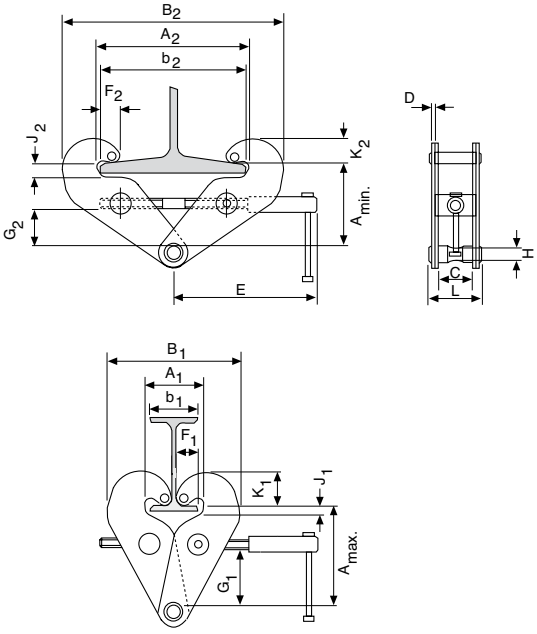
Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.

Technical data model YC

Model	EAN-No. 4025092*	Capacity kg	Beam flange width mm	Weight kg
YC 1	*055154	1000	75 - 230	3.8
YC 2	*055161	2000	75 - 230	4.6
YC 3	*055192	3000	80 - 320	9.2
YC 5	*055208	5000	90 - 320	11.0
YC 10	*055215	10000	90 - 320	17.2

Dimensions model YC

Model	YC 1	YC 2	YC 3	YC 5	YC 10
A min., mm	115	115	180	180	175
A max., mm	150	150	225	225	220
A1, mm	78	78	80	90	90
A2, mm	246	246	320	310	320
B1, mm	186	186	232	242	268
B2, mm	350	350	455	445	480
b1, mm	75	75	80	90	90
b2, mm	230	230	320	310	320
C, mm	50	50	70	70	70
D, mm	4	6	8	10	14
E, mm	215	215	255	255	275
F1, mm	34	35	35	35	35
F2, mm	17	18	21	21	20
G1, mm	82	82	120	116	110
G2, mm	44	44	75	75	66
H, mm	20	20	22	28	38
J1, mm	14	14	30	30	34
J2, mm	21	21	34	34	35
K1, mm	48	50	60	60	60
K2, mm	31	32	40	42	40
L, mm	84	94	122	129	146







Push and geared type trolley model HTP and model HTG

Capacity 500 - 20000 kg

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

Features

- 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 - part 1).

Options

- Rotating hand chain guide.
- Stainless steel hand chains.
- Buffers
- Corrosion resistant version.
- Locking device to secure the trolley in position on the beam (park position e.g. on ships).

INFO

Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.

Technical data model HTP

Model	EAN-No. 4025092*	Capacity kg	Size	Beam flange width b mm	Beam flange thickness t max. mm	Curve radius min. m	Hand effort at WLL daN	Weight kg	Weight with locking device kg
HTP 500	*054874	500	A	50 - 220	25	0.9	–	8.0	14.5
HTP 1000	*054881	1000	A	50 - 220	25	0.9	–	9.0	17.0
HTP 2000	*054898	2000	A	66 - 220	25	1.15	–	16.0	24.0
HTP 3000	*054904	3000	A	74 - 220	25	1.4	–	32.0	41.2
HTP 5000	*054911	5000	A	90 - 220	25	1.8	–	48.0	58.5
HTP 500	*054928	500	B	160 - 300	40	0.9	–	10.6	17.1
HTP 1000	*054935	1000	B	160 - 300	40	0.9	–	12.0	20.0
HTP 2000	*054942	2000	B	160 - 300	40	1.15	–	19.3	27.3
HTP 3000	*054959	3000	B	160 - 300	40	1.4	–	35.8	45.0
HTP 5000	*054966	5000	B	180 - 300	40	1.8	–	52.2	62.7

Technical data model HTG

Model	EAN-No 4025092*	Capacity kg	Size	Beam flange width b mm	Beam flange thickness t max. mm	Curve radius min. m	Hand effort at WLL daN	Weight [1] kg	Weight [1] with locking device kg
HTG 500	*074711	500	A	50 - 220	25	0.9	3	9.7	16.2
HTG 1000	*074728	1000	A	50 - 220	25	0.9	6	11.2	19.2
HTG 2000	*074735	2000	A	66 - 220	25	1.15	7	18.0	26.0
HTG 3000	*074742	3000	A	74 - 220	25	1.4	7	35.4	44.6
HTG 5000	*074759	5000	A	90 - 220	25	1.8	9	51.8	62.3
HTG 500	*074766	500	B	160 - 300	40	0.9	3	12.6	19.1
HTG 1000	*074841	1000	B	160 - 300	40	0.9	6	14.1	22.1
HTG 2000	*074773	2000	B	160 - 300	40	1.15	7	21.3	29.3
HTG 3000	*074780	3000	B	160 - 300	40	1.4	7	39.2	48.4
HTG 5000	*074797	5000	B	180 - 300	40	1.8	9	56.0	66.5
HTG 8000	*074803	8000	B	125 - 310	40	1.8	14	104.0	–
HTG 10000	*074810	10000	B	125 - 310	40	1.8	14	104.0	–
HTG 15000	*074827	15000	B	125 - 310	40	5.0	29	230.0	–
HTG 20000	*074834	20000	B	125 - 310	40	5.0	29	230.0	–

[1] Weight HTG: without hand chain



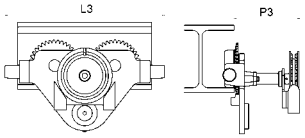
Available in explosion proof version (see page 460).

Dimensions model HTP

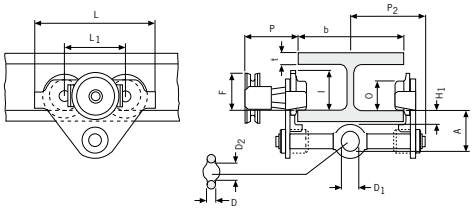
Model	HTP 500-A	HTP 1000-A	HTP 2000-A	HTP 3000-A	HTP 5000-A	HTP 500-B	HTP 1000-B	HTP 2000-B	HTP 3000-B	HTP 5000-B
A, mm	77	82.5	98.5	114	132.5	92	97.5	113.5	129	147.5
D, mm	16	17	22	26	33	16	17	22	26	33
D1, mm	25	30	40	48	60	25	30	40	48	60
D2, mm	30	35	47	58	70	30	35	47	58	70
F1, mm	46	46	46	46	45.5	46	46	46	46	45.5
H1, mm	30.5	30.5	30.5	30	30	45.5	45.5	45.5	45	45
I (HTP), mm	71.5	71.5	95.5	131	142.5	71.5	71.5	95.5	131	142.5
L, mm	260	260	310	390	450	260	260	310	390	450
L1, mm	130	130	150	180	209	130	130	150	180	209
O, mm	60	60	80	112	125	60	60	80	112	125
P1, mm	168	168	168	168	168	168	168	168	168	168
P2, mm	146	150	155	160	167.5	187	187	189.5	191.5	191.5
L3, mm	346	346	396	476	556	346	346	396	476	556

Dimensions model HTG

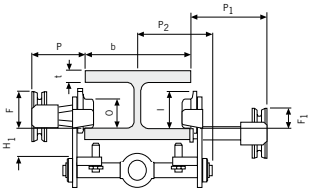
Model	HTG 500-A	HTG 1000-A	HTG 2000-A	HTG 3000-A	HTG 5000-A	HTG 500-B	HTG 1000-B	HTG 2000-B	HTG 3000-B	HTG 5000-B	HTG 8000-B	HTG 10000-B	HTG 15000-B	HTG 20000-B
A, mm	77	82.5	98.5	114	132.5	92	97.5	113.5	129	147.5	276	276	270	270
B, mm	–	–	–	–	–	–	–	–	–	–	52	52	70	70
D, mm	16	17	22	26	33	16	17	22	26	33	30	30	35	35
D1, mm	25	30	40	48	60	25	30	40	48	60	80	80	110	110
D2, mm	30	35	47	58	70	30	35	47	58	70	114	114	155	155
F (HTG), mm	91.5	91.5	90.5	107.5	149.5	91.5	91.5	90.5	107.5	149.5	113	113	113	113
F1, mm	46	46	46	46	45.5	46	46	46	46	45.5	77	77	–	–
H1, mm	30.5	30.5	30.5	30	30	45.5	45.5	45.5	45	45	45	45	45	45
I (HTG), mm	76.5	76.5	98	132.5	148.5	76.5	76.5	98	132.5	148.5	170	170	170	170
L, mm	260	260	310	390	450	260	260	310	390	450	430	430	870	870
L1, mm	130	130	150	180	209	130	130	150	180	209	200	200	200	200
L2, mm	–	–	–	–	–	–	–	–	–	–	–	–	115	115
O, mm	60	60	80	112	125	60	60	80	112	125	150	150	150	150
P (HTG), mm	110	110	110	110	110	110	110	110	110	110	163	163	163	163
P1, mm	168	168	168	168	168	168	168	168	168	168	193	193	–	–
P2, mm	146	150	155	160	167.5	187	187	189.5	191.5	191.5	–	–	–	–
T, mm	–	–	–	–	–	–	–	–	–	–	270	270	270	270
L3, mm	346	346	396	476	556	346	346	396	476	556	536	536	976	976
P3, mm	194	194	194	195	195	194	194	194	195	195	–	–	–	–



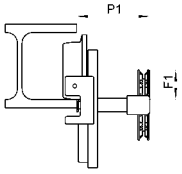
Model HTG 500 - 5000 kg with rotating hand chain guide and buffers



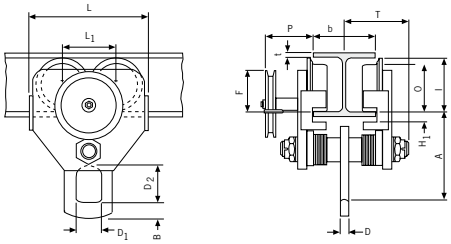
Model HTP/G 500 - 5000 kg



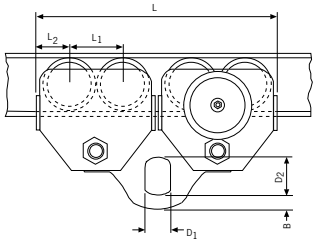
Model HTP/G 500 - 5000 kg, with locking device



Model HTG 10000 kg, locking device



Model HTG 10000 kg



Model HTG 20000 kg

Trolley clamp model CTP

Capacity 1000 - 3000 kg

Easy fitting to overhead beams for the attachment and transport of loads.

Features

- Central threaded spindle provides quick adjustment to the required beam width.
- Threaded spindle and clevis are zinc-plated for added corrosion protection.

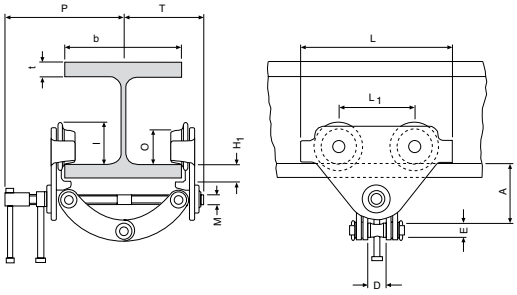


Technical data model CTP

Model	EAN-No. 4025092*	Capacity kg	Beam flange width b mm	Curve radius min. m	Weight kg
CTP 1-A	*063012	1000	60 - 150	0.6	2.5
CTP 2-A	*055437	2000	75 - 200	0.9	9.9
CTP 2-B	*055444	2000	200 - 300	0.9	10.3
CTP 3-A	*055451	3000	75 - 200	1.15	17.5
CTP 3-B	*055468	3000	200 - 320	1.15	19.5

Dimensions model CTP

Model	CTP 1-A	CTP 2-A	CTP 2-B	CTP 3-A	CTP 3-B
A, mm	82 - 109	106 - 155	136 - 191	128 - 171	150 - 212
D, mm	26	42	42	50	50
E, mm	22	20	20	22	22
H1, mm	20	24	24	30.5	30.5
I, mm	53	71.5	71.5	95.5	95.5
L, mm	160	260	260	310	310
L1, mm	75	130	130	150	150
M, mm	M12	M18	M18	M24	M24
O, mm	46	60	60	80	80
P, mm	153	205	255	220	280
T, mm	105	139	189	155	215
tmax., mm	15	25	25	25	25



INFO

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Electric trolley model VTE-U

Capacity 1000 - 5000 kg

Specially recommended for loads over 1000 kg, for transporting over long distances and/or when used frequently. Suitable for almost all hoists with suspension hook due to universal shackle connection.
Travel motor with worm gear transmission ensures smooth start and self braking – a separate motor brake is not required.

Features

- Standard operating voltage:
  Euro-voltage 400 V, 3-phase, 50 Hz.
  Single speed motors can be reconnected to 230 V, 3-phase, 50 Hz.
- Motor protected to IP 55 against dust and water jets. Push-button pendant control IP 65.
- Compact, robust frame with low overall height.
- Wheels manufactured from fracture-proof steel. Smooth running due to machined surfaces and ball bearing mounting. Cambered profile suitable for flat and inclined beam profiles.
- Anti-drop and anti-tilt devices as standard.
- Easy adjusted to fit to a wide range of beam widths and profiles due to threaded spindles.

Options

- Low voltage control (42 V)
- Rubber buffers
- 230 V, 1-phase, 50 Hz



Wheel with cambered profile



Threaded spindle



Anti-drop device with option to fit buffers.

INFO

Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.

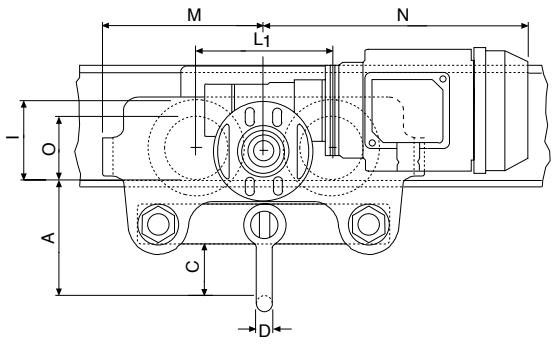
Technical data model VTE-U

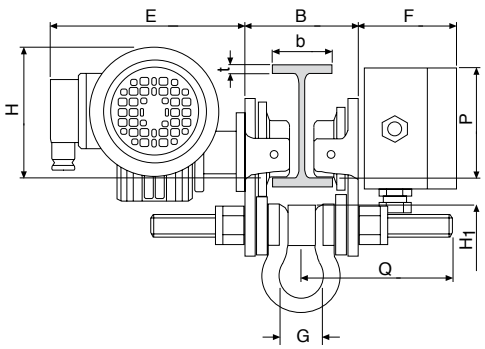
Model	EAN-No. 4025092*	Capacity kg	Travel speed m/min	Motor kW	Beam flange width mm	Beam flange thickness t max. mm	Curve radius min. m	Weight kg
VTE 1-A-18/U[1]	*073547	1000	18 or 18/4.5	0.18 or 0.18/0.06	58 - 180	19	0.9	19.5
VTE 1-B-18/U[1]	*073585	1000	18 or 18/4.5	0.18 or 0.18/0.06	180 - 300	19	0.9	25.2
VTE 2-A-18/U[1]	*073561	2000	18 or 18/4.5	0.18 or 0.18/0.06	58 - 180	19	1.15	26.0
VTE 2-B-18/U[1]	*073608	2000	18 or 18/4.5	0.18 or 0.18/0.06	180 - 300	19	1.15	30.2
VTE 3-A-11/U	*073424	3000	11 or 11/2.8	0.37 or 0.3/0.09	74 - 180	27	1.5	51.0
VTE 3-B-11/U	*073509	3000	11 or 11/2.8	0.37 or 0.3/0.09	180 - 300	27	1.4	53.0
VTE 5-A-11/U	*073448	5000	11 or 11/2.8	0.37 or 0.3/0.09	98 - 180	27	2.0	77.0
VTE 5-B-11/U	*073523	5000	11 or 11/2.8	0.37 or 0.3/0.09	180 - 300	27	1.8	80.0

[1] 11 or 11/2.8 m/min. travel speed on request

Dimensions model VTE-U

Model	VTE 1-A-18/U	VTE 1-B-18/U	VTE 2-A-18/U	VTE 2-B-18/U	VTE 3-A-11/U	VTE 3-B-11/U	VTE 5-A-11/U	VTE 5-B-11/U
A, mm	113	113	115	115	139	139	161	161
B, mm	b + 50	b + 50	b + 54	b + 54	b + 60	b + 60	b + 70	b + 70
C, mm	49	49	47	47	57	57	60	60
D, mm	16	16	16	16	19	19	22	22
E, mm	187	187	187	187	202	202	202	202
F, mm	94	94	94	94	94	94	94	94
G, mm	43	43	43	43	51	51	58	58
H, mm	129	129	128	128	144	144	178	178
H1, mm	24	24	24	24	32	32	32	32
I, mm	77	77	98	98	133	133	149	149
L1, mm	130	130	150	150	180	180	209	209
M, mm	155	155	180	180	208	208	263	263
N single speed, mm	255	255	255	255	292	292	292	292
N double speed, mm	263	263	263	263	296	296	296	296
O, mm	60	60	80	80	112	112	125	125
P, mm	123	123	123	123	129	129	121	121
Q, mm	145	205	153	213	160	220	182	242





INFO

General information about electric chain hoists

Apart from the usual criterion such as lifting capacity, lifting speed and dimensions also consider following:

1. Choosing a motor according to FEM 9.683

In addition to the torque the decisive criterion for rating an electric motor is the heat it generates. Here we differentiate between two operational modes:

1.1 Intermittent duty

In this case the motor is designed for a series of equal cycles consisting of duty periods with constant load and rest periods. The heat generation depends on the relative duty cycle, that is, the relationsship between operating period under load, total operating time and the number of starts/hour.

$$ED = \frac{\text{Operating period}}{\text{Operating period + rest periods}} \ \%$$

The number of cycles that can be made under full load is calculated as follows:

$$S \approx 0.3 \times \frac{ED \times V}{H}$$

S = Cycles per hour
ED = Duty rating in %
V = Lifting speed in m/min
H = Average lifting height in m

A cycle consists of a motion of lifting, lowering and the rest periods. One must ensure that the lifting height does not exceed the value permitted by the percentage duty cycle referred to a cycle period of 10 minutes

$$H \leq \frac{ED \times V}{20}$$

and that simultaneously the permissible number of starts is not exceeded. It is generally accepted that a cycle consists of 6 starts.

1.2 Short time duty

Where special duty conditions exist (e.g. long hook path) the operating period must be of such length that the admissible temperature limit of the motor is not exceeded. For such cases intermittent duty must be replaced by short time duty. That is, the motor may be operated for up to 10 starts over a certain period (with Yale products 30 min). Thereafter the motor must cool down to room temperature.

1.3 Calculation example intermittant duty

Electric chain hoist	:	CPV 5-8
Lifting speed	:	8 m/min
Lifting height	:	2,8 m
Duty rating ED	:	50 %
c/h	:	180

Number of cycles per hour

$$S = 0.3 \times \frac{50 \times 8}{2.8} = 42.8$$

Max. lifting height

$$H = 2.8 \leq \frac{50 \times 8}{20} = 20\,m$$

Number of starts

$$N = \frac{25 \text{ cycles}}{\text{hour}} \times \frac{6 \text{ starts}}{\text{cycle}} = 150 \text{ c/h}$$

2. Classification of hoisting equipment according to FEM 9.511

To choose an optimal hoist the lifting capacity and also the classification group must be known. The classification group indicates the theoretical operating time of the mechanical components under full load:

Classification group	FEM ISO	1 Bm M3	1 Am M4	2 m M5	3 m M6
Operating time in h		400	800	1600	3200

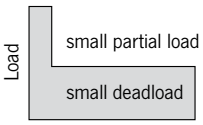
If the hoist is operated as classified an actual operating time of around 10 years can be expected.
After this period a general overhaul is necessary.

To define the classification group following values must be determined:

2.1 Average operating time per day

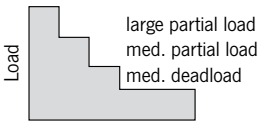
The average operating time can be estimated or calculated as follows:

$$\text{Operating time/day} = \frac{\text{2 x average hook path} \times \text{cycles/hour} \times \text{operating time/day}}{\text{60 x lifting speed}}$$



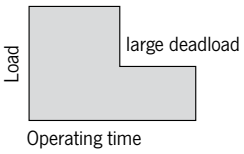
1 light

Hoists or parts thereof usually subject to very small loads and in exceptional cases only to maximum loads.



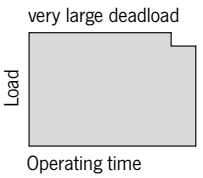
2 medium

Hoists or parts thereof usually subject to small loads but rather often to maximum loads.



3 heavy

Hoists or parts thereof usually subject to medium loads but frequently to maximum loads.



4 very heavy

Hoists or parts thereof usually subject to maximum or almost maximum loads.

2.2 Load spectrum

The load spectrum indicates to what extent a hoist or part thereof is subject to maximal stress or whether it is subject to smaller loads only. It can be calculated or estimated according to the diagrams on the right:

2.3 Classification

The classification group is defined by operating hours and load spectrum:

Load spectrum	Aver. op. hours per working day		
1 light	up to 2	2-4	4-8
2 medium	up to 1	1-2	2-4
3 heavy	up to 0.5	0.5-1	1-2
4 very heavy	up to 0.25	0.25-0.5	0.5-1
Classification group acc. to FEM/ISO	1 Bm/M3	1 Am/M4	2 m/M5

INFO

IP protection according to EN 60529

Depending on the operating and environmental conditions the damaging effect of water, foreign particles and dust and the contact with live or moving parts inside a motor is to be prevented by choosing a suitable protection.
The marking used to indicate the degree of protection consists of the letters IP followed by two characteristic numerals.
The marking applies to the unit as it is supplied and the defined or usual location of the unit.
The protection can change if the unit is located or fitted differently.

Motor surface cooled

Protection	1st digit		2nd digit
	Contact protection	Ingress of solid foreign particles	Ingress of liquid
IP 44	contact with tools or similar	against solid foreign bodies over 1 mm Ø	splashing from all directions
IP 50	complete protection against contact	damaging dust deposits	no protection
IP 54	contact with tools or similar	against solid foreign bodies over 1 mm Ø	splashing from all directions
IP 55	complete protection against contact	damaging dust deposits	water jets from all directions
IP 56	complete protection against contact	damaging dust deposits	momentarily flooding
IP 65	complete protection against contact	against ingress of dust	water jets from all directions

Protection against contact and solid foreign particles

First digit 0 **No protection**
No protection of persons against contact with live or moving parts inside the enclosure. No protection of equipment against ingress of solid foreign particles.

First digit 1 **Protection against large solid foreign particles**
Protection against accidental or inadvertent contact with live or moving parts inside the enclosure by a large surface of the human body, e.g. hand, but not protected against deliberate access to such parts.

First digit 2 **Protection against med. size solid foreign particles**
Protection against contact with live or moving parts inside the enclosure by fingers. Protection against ingress of medium size solid foreign particles of diameter greater than 12 mm.

First digit 3 **Protection against small solid foreign particles**
Protection against contact with live or moving parts inside the enclosure by tools, wires or such objects of thickness greater than 2.5 mm. Protection against ingress of small solid foreign particles of diameter greater than 2.5 mm.

First digit 4 **Protection against granular structured foreign particles**
Protection against contact with live or moving parts inside the enclosure by tools, wires or such objects of thickness greater than 1 mm.
Protection against ingress of granular structured solid foreign particles of diameter greater than 1 mm.

First digit 5 **Protection against dust deposits**
Complete protection against contact with live or moving parts inside the enclosure. Protection against harmful deposits of dust. The ingress of dust is not totally prevented, but dust cannot enter in an amount sufficient to interfere with the satisfactory operation of the equipment enclosed.

First digit 6 **Complete protection**
Complete protection against contact with live or moving parts inside the enclosure. Protected against the ingress of dust.

Protection against liquids

Second digit 0 **No protection**
No particular protection

Second digit 1 **Protection against vertical water drops**
Droplets of condensed water falling on the enclosure shall have no harmful effects.

Second digit 2 **Protection against diagonal falling water drops**
Protection against dripping liquids. Droplets of falling liquid shall have no harmful effect when the enclosure is tilted at any angle up to 15° from the vertical.

Second digit 3 **Protection against spray water**
Protection against dripping liquids. Water falling as rain at an angle equal to or smaller than 60° in respect to the vertical shall have no harmful effect.

Second digit 4 **Protection against splashing**
Liquid splashed from any direction shall have no harmful effect.

Second digit 5 **Protection against water jets**
Water projected by a nozzle from any direction under stated conditions shall have no harmful effect.

Second digit 6 **Protection against flooding**
Protection against conditions on ships decks (deck watertight equipment). Water from heavy seas shall not enter the enclosure under prescribed conditions[2].

Second digit 7 **Protection against immersion in water**
It shall not be possible for water to enter the enclosure under stated conditions of pressure and time[2].

Second digit 8 **Protection against indefinite immersion**
Protection against indefinite immersion in water.
Under specific pressure it shall not be possible for water to enter the enclosure[2]).

[2]) In certain cases water should not ingress. As required this is defined on the follow-on page of the unit in question.

Technical questionnaire to identify a suitable electric chain hoist

Company: _____ Date: _____

Contact: _____ e-Mail: _____

Phone: _____ Fax: _____

Details about intended use

_____

_____

_____

_____

_____

Required capacity

_____

Lifting height

_____

Ambient conditions

- ☐ Normal
- ☐ Humidity
- ☐ Dust
- ☐ Dirt
- ☐ Particular temperatures _____ °C
- ☐ Increased rel. humidity _____ %

Other

_____

_____

How long is the hoist in operation

_____ Load cycles per hour

_____ Hours per day

_____ Days per week

_____ Distance covered per lifting cycle

Unusual operating conditions that could be important for the choice and function of the electric chain hoist:

Type of load

- ☐ Permanent
- ☐ Changing
- ☐ Shocks
- ☐ Vibration
- ☐ Static

Trolley drive

- ☐ Motor
- ☐ Manual

Hook suspension

- ☐

Other

- ☐

Operating voltage

- ☐ 400 V
- ☐ 230 V
- ☐ 3-phase a.c.
- ☐ 1-phase a.c.

Power frequency

- ☐ 50 Hz
- ☐ 60 Hz

Protection

- ☐ IP 54
- ☐ Other



INFO

Festooned cable systems please see pages 140-141.

Options

- Stainless steel load chain (no reduction of working load limit).
- Robust chain container.
- Low voltage control 48 V
- Manual and electric trolleys.
- Connection to festooned cable systems.

Electric chain hoist with suspension hook model CPS

Capacity 125 - 500 kg

The model CPS is the smallest and lightest model within the range of Yale electric chain hoists. Reliability and compact design make it ideal for numerous applications in the construction industry, service companies and many industrial areas for moving small and medium loads.

Features

- Classification: 1 Am/M4 resp. 1 Bm/M3 at 230 V, 1-phase, 50 Hz. On request, the classification can be modified by derating the capacity and duty cycle.
- The standard version comes with direct control.
- Two year warranty (excluding wear parts).
- Thermal overload protection as standard.
- Duty cycle 30 % ED resp. 25 % ED at 230 V, 1-phase, 50 Hz.
- Safe hold of the load even in case of electric failure due to electromagnetic spring pressure brake.
- Standard operating voltage: Euro-voltage 400 V, 3-phase, 50 Hz resp. 125 kg also as 230 V, 1-phase, 50 Hz version.
- Motor protected to IP 54, against ingression of dust and splashing.
- Push-button pendant control, IP 65 against ingress of dust and water jets from all directions.
- The overload protection (slip clutch) avoids overloading and extends the lifetime of the hoist.
- Robust aluminium housing, powder coated.
- Extremely low headroom for use in applications with limited room.
- The standard case hardened and zinc-plated link chain is matched perfectly to the load chain to guarantee smooth and precise chain motion. All requirements of national and international standards and regulations are fulfilled.
- The 10-pocket load sheave ensures smooth running of the chain and minimizes chain wear.
- Drop forged suspension and load hooks are made from non-aging, high tensile steel and fitted with robust safety latches.

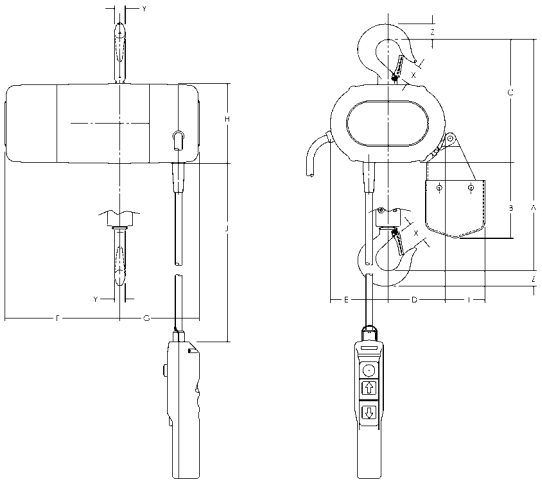
Technical data model CPS

Model	EAN-No. 4025092*	Capacity in kg/ number of chain falls	Standard lifting height m	Chain dimensions d x p mm	Classification FEM/ISO	Lifting speed m/min	Hoist motor kW	Weight kg	Operating voltage
CPS 1-4	*076654	125/1	3	4 x 12.2	1 Bm/M3	4	0.10	11.5	230 V/1 Ph/50 Hz
CPS 1-10	*076661	125/1	3	4 x 12.2	1 Am/M4	10	0.25	11.5	400 V/3 Ph/50 Hz
CPS 2-6	*076678	250/1	3	4 x 12.2	1 Am/M4	6	0.28	11.5	400 V/3 Ph/50 Hz
CPS 5-3	*076685	500/2	3	4 x 12.2	1 Am/M4	3	0.28	12.5	400 V/3 Ph/50 Hz

Dimensions model CPS

Model	CPS 1-4	CPS 1-10	CPS 2-6	CPS 5-3
A, mm	276	276	276	303
B, mm	98	98	98	146
C, mm	159	159	159	159
D, mm	75	75	75	60
E, mm	76	76	76	91
F, mm	160	160	160	160
G, mm	227	227	227	227
H, mm	103	103	103	103
I, mm	52	52	52	52
J [1], mm	1905	1905	1905	1905
X, mm	25	25	25	25
Y, mm	14	14	14	14
Z, mm	21	21	21	21

[1] Dimensions at standard lift (3 m).





Smallest and lightest electric chain hoist for a great number of applications.

INFO

Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.



High speed units up to 18 m/min available

Electric chain hoist with suspension lug or with integrated trolley model CPV

Capacity 250 - 2000 kg

The electric chain hoist model CPV combines modern design and technical innovation. A robust construction makes the series a versatile tool for professional applications. The integrated limit switch for the highest and lowest hook position considerably extends the working life span of the slip clutch, motor and gearbox.

Features

- Classification 1 Am/M4. For 1-phase hoists: 1 Bm/M3. As required (with appropriate changes to lifting capacity resp. duty cycle) the model CPV can also be re-classified up to 3m/M6.
- Main contactor as standard, for increased safety.
- Increased operating safety through 42 V control voltage (low voltage control), push-button pendant control, IP 65.
- 2 year warranty (excluding wear parts) and a lifetime lubricated gearbox.
- Duty cycle 50 % ED for single speed.
- Electromagnetic spring pressure brake holds the load safely even in the event of power failure.
- Standard operating voltage: Euro-voltage 400 V, 3-phase, 50 Hz.
- Motor protected to IP 55 (acc. to VDE 0530), against ingress of dust and water jets.
- The externally adjustable slip clutch is designed to guarantee a permanent connection between the load and the brake.
- The standard, oil bath lubricated and case hardened gearbox has a helical gearing for particularly smooth running and enhanced lifetime. Greased gearbox by CPV/F 2-8.
- Suspension lug for compact dimensions and easy integration in closed-eye constructions.
- Steel chain guide, model CPV/F 2-8 comes with chain guides made of POM.

Options

- Stainless steel load chain (no reduction of working load limit).
- Suspension hook
- Flexible chain container.
- Other operating voltages
- Counter for operating hours and number of starts.
- Radio remote control
- Control for synchronized operation of several hoists.
- Manual and electric trolleys.
- Connection to festooned cable systems
- Suspension for light crane systems.

INFO

Also available as 230 V, 1-phase, 50 Hz (25 % ED) version. Optionally available with electric trolley.

1-phase units are single speed only!
High speed units (18 m/min) are not available as 230 V, 1-phase!

Festooned cable systems please see pages 140-141.

Technical data model CPV/CPVF

Model	EAN-No. 4025092* 4053981**	Capacity in kg/ number of chain falls	Chain dimensions d x p mm	Classification FEM/ISO	Lifting speed[4] main lift m/min	Lifting speed fine lift m/min	Hoist motor kW	Motor rating ED %	Weight [1] suspension lug kg	Weight [1] push trolley [2] kg	Weight [1] electric trolley [3] kg
CPV 2-8	–	250/1	4 x 12.2	1 Am/M4	8	–	0.37	50	on request	on request	on request
CPVF 2-8	**874067	250/1	4 x 12.2	1 Am/M4	8	2	0.37/0.09	33/17	19	28	33
CPVF 2-18	*925341	250/1	5 x 15.1	1 Am/M4	18	4.5	0.75/0.18	33/17	27	42	50
CPV 5-4	–	500/2	4 x 12.2	1 Am/M4	4	–	0.37	50	on request	on request	on request
CPVF 5-4	**874074	500/2	4 x 12.2	1 Am/M4	4	1	0.37/0.09	33/17	19	28	33
CPV 5-8	*173766	500/1	5 x 15.1	1 Am/M4	8	–	0.75	50	26	41	49
CPVF 5-8	*173803	500/1	5 x 15.1	1 Am/M4	8	2	0.75/0.18	33/17	27	42	50
CPVF 5-18	*303729	500/1	7.1 x 20.5	1 Am/M4	18	4.5	1.5/0.37	33/17	59	78	85
CPV 10-4	*174473	1000/2	5 x 15.1	1 Am/M4	4	–	0.75	50	28	43	51
CPVF10-4	*174725	1000/2	5 x 15.1	1 Am/M4	4	1	0.75/0.18	33/17	29	44	52
CPV 10-8	*173797	1000/1	7.1 x 20.5	1 Am/M4	8	–	1.5	50	58	77	84
CPVF10-8	*173780	1000/1	7.1 x 20.5	1 Am/M4	8	2	1.5/0.37	33/17	59	78	85
CPV 20-4	*174480	2000/2	7.1 x 20.5	1 Am/M4	4	–	1.5	50	63	82	89
CPVF 20-4	*174459	2000/2	7.1 x 20.5	1 Am/M4	4	1	1.5/0.37	33/17	64	83	90

[1] Weight at standard lift (3 m). Other lifting heights on request.
[2] For trolleys type A and B: Additional weight for geared trolley (VTG): 2.5 kg
[3] For electric trolley (VTE) with 2 speeds +2.0 kg
[4] 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

INFO

Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.



Increased operating safety through 42 V control voltage



Externally adjustable slip clutch



Integrated limit switch



Depicted suspension hook and chain container optionally available.



Option: radio remote control

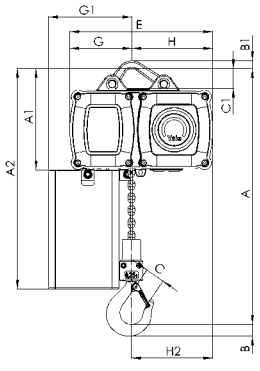
Technical data trolleys

Suitable for model	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/CPVF 2-8 up to CPVF 5-4	500	A	58 - 180	12	0.9	11 or 18	0.09
CPV/CPVF 2-8 up to CPVF 5-4	500	B	180 - 300	19	0.9	18 or 18	0.09
CPV 5-8 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 5-8 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

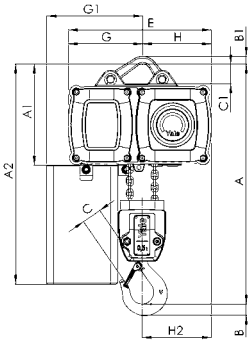
Dimensions model CPV/CPVF

Model	CPV 2-8/ CPVF 2-8	CPV 5-4/ CPVF 5-4	CPVF 2-18 CPV/CPVF 5-8	CPV/CPVF 10-4	CPVF 5-18 CPV/CPVF 10-8	CPV/CPVF 20-4
A, mm	357/327	357/327	357	430	431	528
A1, mm	196/163	196/163	196	196	234	234
A2 (Size I), mm	476/343	476/343	476	476	564	564
A2 (Size II), mm	526/413	526/413	526	526	644	644
A2 (Size III), mm	606/483	606/483	606	606	734	734
A2 (Size IV), mm	798/553	798/553	798	798	934	934
B, mm	22/23	22/23	22	29	29	37
B1, mm	15/12	15/12	15	15	20	20
C, mm	29/30	29/30	29	35	35	40
C1, mm	38/30	38/30	38	38	45	45
C2, mm	105	105	105	105	154	154
D, mm	15/16	15/16	15	21	21	26
D1, mm	15/12	15/12	15	15	15	15
E, mm	277/205	277/205	277	277	326	326
G, mm	120/102	120/102	120	144	140	173
G1 (Size I), mm	142/124	142/124	142	166	175	208
G1 (Size II), mm	162/124	162/124	162	186	175	208
G1 (Size III), mm	162/124	162/124	162	186	175	208
G1 (Size IV), mm	162/124	162/124	162	186	175	208
H, mm	157/99	157/99	157	133	186	154
H2, mm	158/92	158/92	158	158	186	186
K, mm	208/215	208/215	208	208	285	285
M (Size I), mm	162/157	162/157	162	162	209	209
M (Size II), mm	197/157	197/157	197	197	209	209
M (Size III), mm	197/157	197/157	197	197	209	209
M (Size IV), mm	197/157	197/157	197	197	209	209
N [1], mm	219/159	219/159	219	219	274	274

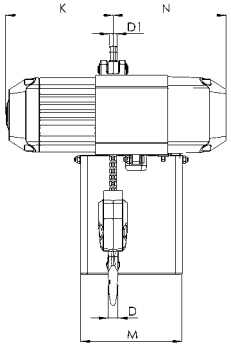
[1] for 230 V, 1-phase, 50 Hz: +35 mm

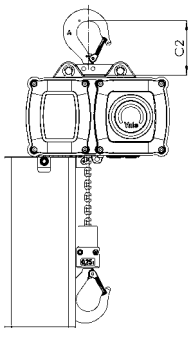


Model CPV/CPVF
with suspension lug, 250 - 1000 kg, single fall



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

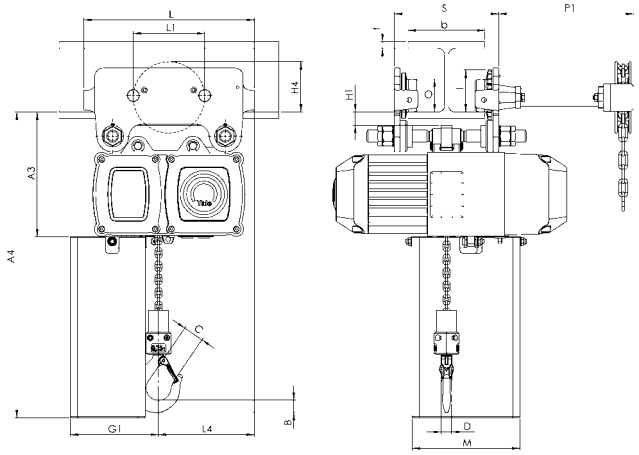




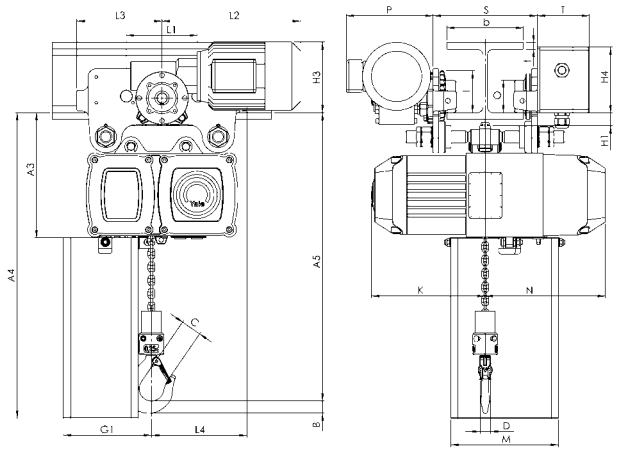
Model CPV/CPVF
with suspension hook,
250 - 2000 kg

Dimensions model CPV/CPVF

Model	CPV 2-8/ CPVF 2-8	CPV 5-4/ CPVF 5-4	CPVF 2-18 CPV/CPVF 5-8	CPV/CPVF 10-4	CPVF 5-18 CPV/CPVF 10-8	CPV/CPVF 20-4
A3, mm	228/199	228/199	228	228	263	263
A4 (Size I), mm	508/379	508/379	508	508	593	593
A4 (Size II), mm	558/449	558/449	558	558	673	673
A4 (Size III), mm	638/519	638/519	638	638	768	768
A4 (Size IV), mm	830/589	830/589	830	830	968	968
A5, mm	389/365	389/365	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	24/25	24/25	24	24	23	23
H3, mm	129/113	129/113	129	129	129	129
H4 (VTG), mm	95	95	95	95	95	95
H4 (VTE), mm	142	142	142	142	142	142
I (Push trolley), mm	72	72	72	72	96	96
I (Geared trolley), mm	77/76	77/76	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	222	222	263	263	263	263
L3, mm	155/135	155/135	155	155	180	180
L4, mm	161/131	161/131	173	161	203	203
O, mm	60	60	60	60	80	80
P, mm	200/171	200/171	180	180	180	180
P1, mm	246/236	246/236	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
tmax., mm	19/12	19/12	19	19	19	19



Model CPV/CPVF
with integrated manual push or geared trolley



Model CPV/CPVF
with integrated electric trolley



Electric chain hoist with suspension hook or with integrated trolley model CPE

Capacity 1600 - 10000 kg

The CPE series is a range of high quality products for professional applications. They are highly efficient and engineered for a long working life. The hoists are composed of three main component parts which makes service easy and inexpensive.

Features

- Classification 1 Am/M4, except models CPE(F) 20-8, CPE(F) 30-5 and CPE(F) 40-4, with classification 1 Bm/M3. On request, the classification can be modified by derating the capacity and duty cycle.
- Direct control or 42 V low voltage control.
- 2 year warranty (excluding wear parts) as well as a lifetime lubricated gear box.
- Motor fitted with a bimetallic thermal protection (useable in connection with low voltage control).
- Duty cycle 40 % at one operating speed.
- The heavy duty squirrel cage motor has an adjustable spring pressure brake that holds the load secure even in the event of a power failure.
- Standard operating voltage: Euro-voltage 400 V, 3-phase, 50 Hz.
- Motor protected to IP 54, insulation class F.
- Encapsulated pendant control protected to IP 65, against ingress of dust and water jets.
- The 5-pocket load chain sheave, manufactured from wear resistant case hardening steel, is matched perfectly to the load chain to guarantee smooth and precise chain motion.
- The standard, oil bath lubricated planetary gearbox is particularly smooth running.
- Drop forged suspension and load hooks are made from non-aging, high tensile steel and fitted with robust safety latches.
- The standard case hardened and zinc-plated link chain is matched perfectly to the load chain to guarantee smooth and precise chain motion.
  All requirements of national and international standards and regulations are fulfilled.

Options

- Stainless steel load chain.
- Suspension hook rotated 90°.
- Flexible chain container.
- Other operating voltages.
- Limit switches for highest and lowest hook positions (in combination with low voltage control).
- Motor with stainless steel brake.
- Radio remote control.
- Control for synchronized operation of several hoists.
- Manual and electric trolleys.
- Integrated low headroom trolley.
- Festooned cable system.

Twin hoist model CPE 100-2

Capacity 10000 kg

The model CPE 100-2 consists of two CPE 50-2 units.
They are connected by a framework.
Hook suspension, geared or electric trolleys are available.
Integrated limit switches for highest and lowest hook positions are standard.
42 V low voltage control as standard.

Options

- Stainless steel load chain.
- Flexible chain container.
- Other operating voltages.
- Motor with stainless steel brake.
- Radio remote control.
- Festooned cable system.



INFO

The units are certified by the employer's liability insurance association (Berufsgenossenschaft) and fulfil the requirements of the machinery directive 2006/42/EG.

Festooned cable systems please see pages 140-141.



5-pocket load chain
sheave machined for smooth, precise chain motion.



Universal connection
to suspension hook, trolley or steel structures.



Double fall bottom block
for capacities between 3200 up to 5000 kg.



Hoist connected directly to trolley
with electric drive. Manual pull and geared trolleys also available.



Option:
Flexible chain container made from wear resistant textile fabric.



Electric chain hoist with low headroom integrated trolley

INFO

The low headroom hoist CPE LH is available on request in capacities up to 5 t with the resp. standard speeds.

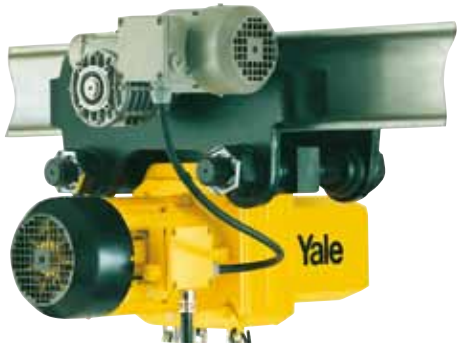
Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.

Technical data model CPE/CPEF

Model	EAN-No. 4025092*	Capacity in kg/ number of chain falls	Chain dimensions d x p mm	Classification FEM/ISO	Lifting speed main lift m/min	Lifting speed fine lift m/min	Hoist motor kW	Motor rating ED %
CPE 16-8	*073240	1600/1	11 x 31	1 Am/M4	8	–	2.3	40
CPEF 16-8	*073257	1600/1	11 x 31	1 Am/M4	8	2	2.3/0.58	40/20
CPE 20-8	*073264	2000/1	11 x 31	1 Bm/M3	8	–	2.8	25
CPEF 20-8	*073271	2000/1	11 x 31	1 Bm/M3	8	2	2.8/0.7	25/15
CPE 25-5	*073288	2500/1	11 x 31	1 Am/M4	5	–	2.3	40
CPEF 25-5	*073295	2500/1	11 x 31	1 Am/M4	5	1.25	2.3/0.58	40/20
CPE 30-5	*073301	3000/1	11 x 31	1 Bm/M3	5	–	2.8	25
CPEF 30-5	*073318	3000/1	11 x 31	1 Bm/M3	5	1.25	2.8/0.7	25/15
CPE 32-4	*073325	3200/2	11 x 31	1 Am/M4	4	–	2.3	40
CPEF 32-4	*073332	3200/2	11 x 31	1 Am/M4	4	1	2.3/0.58	40/20
CPE 40-4	*073349	4000/2	11 x 31	1 Bm/M3	4	–	2.8	25
CPEF 40-4	*073356	4000/2	11 x 31	1 Bm/M3	4	1	2.8/0.7	25/15
CPE 50-2	*073363	5000/2	11 x 31	1 Am/M4	2.5	–	2.3	40
CPEF 50-2	*073370	5000/2	11 x 31	1 Am/M4	2.5	0.6	2.3/0.58	40/20
CPE 75-1,6	*079907	7500/3	11 x 31	1 Am/M4	1.6	–	2.8	40
CPEF 75-1,6	*079914	7500/3	11 x 31	1 Am/M4	1.6	0.4	2.8/0.58	40/20
CPE 100-2	*060585	10000/4	11 x 31	1 Am/M4	2.5	–	2 x 2.3	40
CPEF 100-2	*060592	10000/4	11 x 31	1 Am/M4	2.5	0.6	2 x 2.3/0.58	40/20

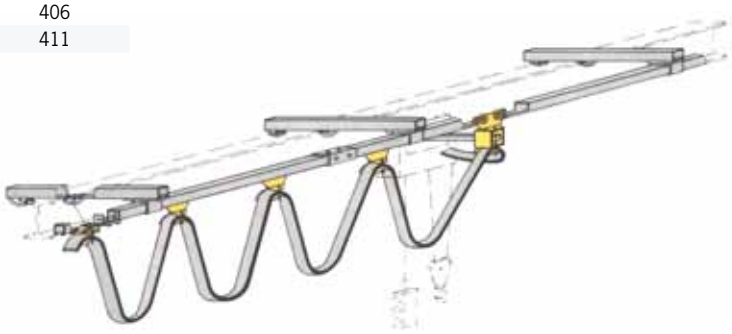
Model	Weight [1] suspension hook kg	Weight [1] push trolley kg	Weight [1] geared trolley kg	Weight [1] electric trolley [2] kg
CPE 16-8	88	150	154	164
CPEF 16-8	93	155	159	169
CPE 20-8	88	150	154	164
CPEF 20-8	93	155	159	169
CPE 25-5	88	150	154	164
CPEF 25-5	93	155	159	169
CPE 30-5	88	150	154	164
CPEF 30-5	93	155	159	169
CPE 32-4	107	169	173	182
CPEF 32-4	112	174	178	187
CPE 40-4	107	169	173	182
CPEF 40-4	112	174	178	187
CPE 50-2	107	169	173	182
CPEF 50-2	112	174	178	187
CPE 75-1,6	220	320	320	340
CPEF 75-1,6	226	326	326	346
CPE 100-2 [3]	282	–	385	406
CPEF 100-2 [3]	287	–	390	411

[1] Weight at standard lift (3 m). Other lifting heights on request.
[2] Additional weight for 2 speed version 2.0 kg
[3] Limit switches for highest and lowest hook positions – 42 V low voltage control



INFO

Festooned cable systems please see pages 140-141.

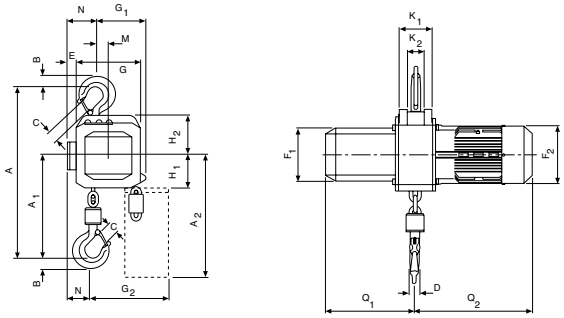


Technical data trolleys

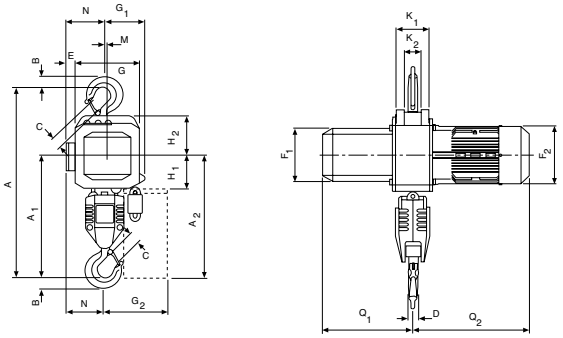
Capacity kg	Size	Beam flange width b mm	Beam flange thickness t max. mm	Curve radius min. m	Electric trolley travel speed m/min at 50 Hz	Electric trolley motor kW at 50 Hz
1600 - 5000	A	98 - 180	27	2.0	11 or 11/2.8	0.37 or 0.3/0.09
1600 - 5000	B	180 - 300	27	1.8	11 or 11/2.8	0.37 or 0.3/0.09
7500 - 10000	B	125 - 310	40	1.8	5 or 5/1.25	0.55 or 0.55/0.12

Dimensions model CPE/CPEF

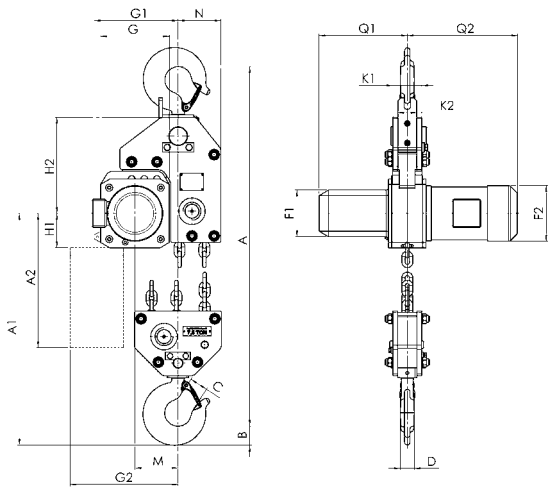
Model	CPE/CPEF 16-8	CPE/CPEF 20-8	CPE/CPEF 25-5	CPE/CPEF 30-5	CPE/CPEF 32-4	CPE/CPEF 40-4	CPE/CPEF 50-2	CPE/CPEF 75-1,6	CPE/CPEF 100-2
A, mm	516	516	516	516	681	681	681	950	1068
A1, mm	286	286	286	286	428	428	428	479	651
A2 (13 m), mm	430	430	430	430	430	430	430	–	–
A2 (21 m), mm	530	530	530	530	530	530	530	530	555
B, mm	35	35	35	35	45	45	45	60	60
C, mm	37	37	37	37	46	46	46	52	52
D, mm	24	24	24	24	30	30	30	40/45	40/45
E, mm	24	24	24	24	24	24	24	–	–
F1, mm	160	160	160	160	160	160	160	160	160
F2, mm	178	178	178	178	178	178	178	178	178
G, mm	220	220	220	220	220	220	220	220	–
G1, mm	180	180	180	180	140	140	140	268	315
G2 (13 m), mm	257	257	257	257	218	218	218	–	–
G2 (21 m), mm	277	277	277	277	238	238	238	345	408
H1, mm	110	110	110	110	110	110	110	110	135
H2, mm	135	135	135	135	135	135	135	307	256
K1, mm	100	100	100	100	100	100	100	92	92
K2, mm	51	51	51	51	51	51	51	62	62
M, mm	50	50	50	50	10	10	10	138	–
N, mm	84	84	84	84	124	124	124	136	390
Q1, mm	280	280	280	280	280	280	280	280	280
Q2 (CPE), mm	362	362	362	362	362	362	362	362	362
Q2 (CPEF), mm	417	417	417	417	417	417	417	417	417



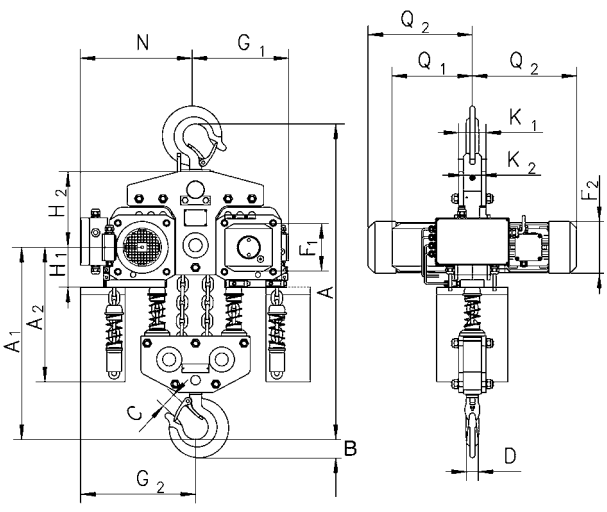
Model CPE/CPEF with suspension hook, 1600 - 3000 kg, single fall



Model CPE/CPEF with suspension hook, 3200 - 5000 kg, double fall



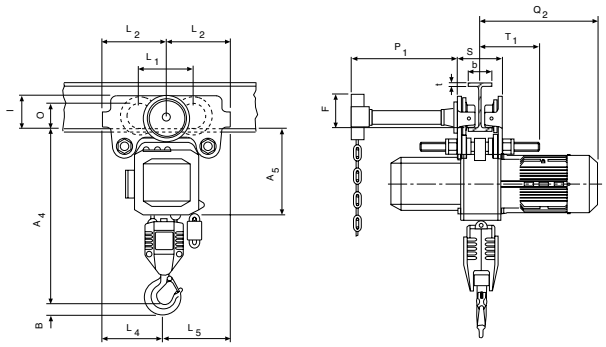
Model CPE/CPEF 75-1,6 with suspension hook, 7500 kg



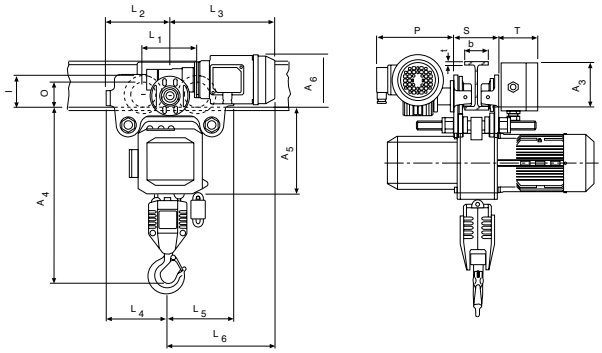
Model CPE/CPEF 100-2 with suspension hook, 10000 kg

Dimensions model CPE/CPEF

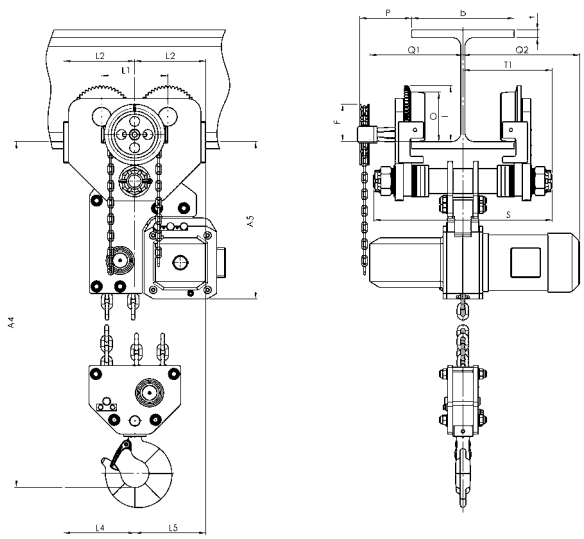
Model	CPE/CPEF 16-8	CPE/CPEF 20-8	CPE/CPEF 25-5	CPE/CPEF 30-5	CPE/CPEF 32-4	CPE/CPEF 40-4	CPE/CPEF 50-2	CPE/CPEF 75-1,6	CPE/CPEF 100-2
A3, mm	121	121	121	121	121	121	121	–	110
A4, mm	465	465	465	465	615	615	615	855	965
A5, mm	298	298	298	298	298	298	298	477	450
A6, mm	178	178	178	178	178	178	178	–	170
b, mm	A = 98 - 180/ B = 180 - 300	A = 98 - 180/ B = 180 - 300	A = 98 - 180/ B = 180 - 300	A = 98 - 180/ B = 180 - 300	A = 98 - 180/ B = 180 - 300	A = 98 - 180/ B = 180 - 300	A = 98 - 180/ B = 180 - 300	125 - 310	125 - 310
F, mm	150	150	150	150	150	150	150	113	113
I, mm	142.5	142.5	142.5	142.5	142.5	142.5	142.5	170	170
L1, mm	209	209	209	209	209	209	209	200	200
L2, mm	262.5	262.5	262.5	262.5	262.5	262.5	262.5	215	215
L3 (VTE), mm	292	292	292	292	292	292	292	–	335
L3 (VTEF), mm	296	296	296	296	296	296	296	–	335
L4, mm	213	213	213	213	253	253	253	215	390
L5, mm	312	312	312	312	272	272	272	215	215
L6 (VTE), mm	342	342	342	342	342	342	342	–	–
L6 (VTEF), mm	346	346	346	346	306	306	306	–	–
O, mm	125	125	125	125	125	125	125	150	150
P (VTE), mm	197	197	197	197	197	197	197	–	273
P (VTEF), mm	205	205	205	205	205	205	205	–	280
P1, mm	229	229	229	229	229	229	229	–	110
S, mm	b + 70	b + 70	b + 70	b + 70	b + 70	b + 70	b + 70	b + 98	b + 98
T, mm	94	94	94	94	94	94	94	–	94
tmax., mm	27	27	27	27	27	27	27	40	40



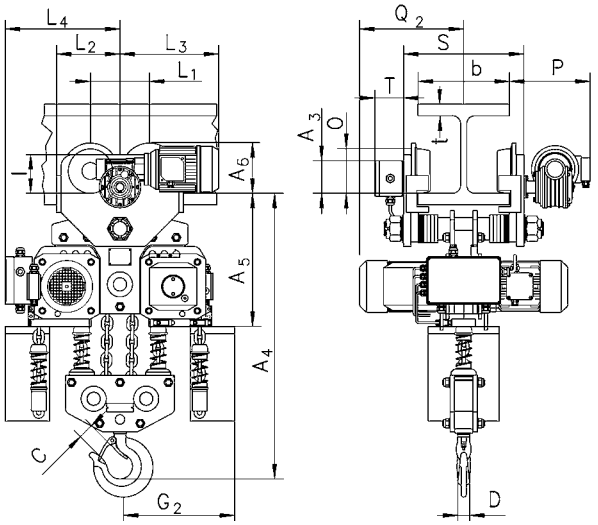
Model CPE/CPEF with integrated manual push or geared trolley



Model CPE/CPEF with integrated electric trolley



Model CPE/CPEF with integrated geared or electric trolley, 7500 kg



Model CPE/CPEF with integrated electric trolley, 10000 kg



Available in explosion proof version
(please see page 442).

Pneumatic chain hoist model CPA

Capacity 125 - 980 kg

Pneumatic chain hoists are characterized by high durability in a great number of industrial applications. The robust but light weight housing allows an easy transport.

Features

- Working pressures 5 - 7 bar.
- Rotating piston motor with 100 % duty rating and an unlimited number of starts for continuous operation.
- Integrated limit switches for highest and lowest hook position as standard.
- Self-adjusting automatic disc brake.
- Extremely sensitive control with emergency-stop for a precise positioning of the load.
- Air release for brake as standard for models CPA 2-31, CPA 5-17 and CPA 10-9

Options

- All models available with push or geared trolley.
- Models CPA 2-31, CPA 5-17 and CPA 10-9 also available with chain control.
- Maintenance unit for main air supply pipe (pressure regulator, manometer, lubricator and support).
- Chain container

Applications

Automobile and aircraft industries, shipyards, on ships and docks. Foundries, on-/offshore, paint factories and paint shops, refineries, oil depots, galvanizing. Printing, textile and food industries, pulp, paper and cement mills. Glass and ceramic industries, wood working industries, chemical industries, heat treatment and power plants etc.

INFO

To ensure faultless operation the compressed air supply must be filtered and oiled!

Also suitable for operation with nitrogen.

Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.

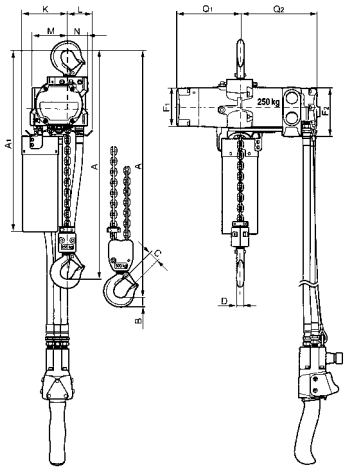
Technical data model CPA

Model	EAN-No. 4025092*	Capacity in kg/ number of chain falls	Chain dimensions d x p mm	Classification FEM/ISO	Lifting speed with rated load [1] m/min	Lifting speed without load [1] m/min	Lowering speed with rated load [1] m/min	Air consumption with rated load [1] m³/min	Hoist motor kW	Weight at standard lift (3 m) kg
CPA 1-13	*911795	125/1	4 x 12.2	1 Am/M4	13.1	17.1	11.3	0.9	0.4	15.4
CPA 2-10	*911788	250/1	4 x 12.2	1 Am/M4	9.8	17.1	13.7	0.9	0.4	15.4
CPA 2-31	*911801	250/1	6.3 x 19.5	1 Bm/M3	31.0	52.0	36.0	2.1	1.33	21.8
CPA 5-5	*911818	500/2	4 x 12.2	1 Am/M4	4.6	7.9	6.7	0.9	0.4	17.2
CPA 5-17	*911825	500/1	6.3 x 19.5	1 Bm/M3	16.8	32.3	29.6	2.1	1.33	21.8
CPA 10-9	*911832	980/2	6.3 x 19.5	1 Bm/M3	8.5	16.2	14.9	2.1	1.33	27.7

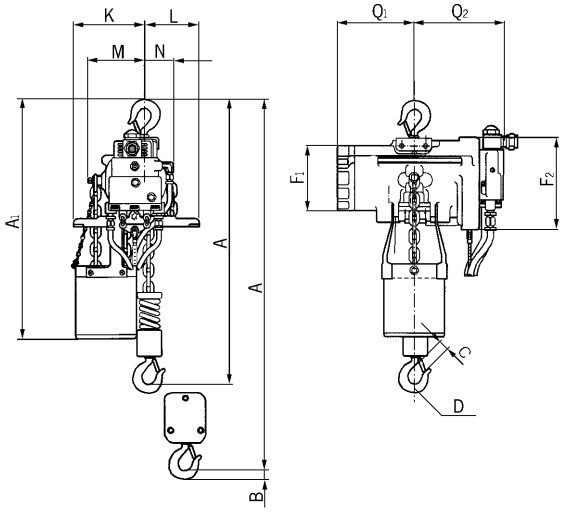
[1] Values for 6.3 bar (flow pressure) and 2 m control drop. Speeds will be reduced in case of longer control length.
Model CPA 1-13, CPA 2-10 and CPA 5-5 hose length max. 12 m, air supply 3/8" NPT
Model CPA 2-31, CPA 5-17 and CPA 10-9 hose length max. 20 m, air supply 1/2" NPT.

Dimensions model CPA

Model	CPA 1-13	CPA 2-10	CPA 2-31	CPA 5-5	CPA 5-17	CPA 10-9
A, mm	292	292	457	324	457	457
A1, mm	410	410	483	410	483	508
B, mm	21	21	25	14	25	27
C, mm	20	20	24	24	24	28
D, mm	16	16	26	14	26	28
F1, mm	90	90	130	90	130	130
F2, mm	120	120	180	120	180	180
K, mm	103	103	146	103	146	165
L, mm	57	57	102	57	102	83
M, mm	120	120	114	120	114	135
N, mm	50	50	54	50	54	25
Q1, mm	142	142	162	142	162	162
Q2, mm	183	183	181	183	181	181



Model CPA 1-13 / 2-10 / 5-5



Model CPA 2-31 / 5-17 / 10-9



Pneumatic chain hoist with suspension hook or with integrated trolley model CPA

Capacity 2000 - 10000 kg

The conception is in accordance with the design of the model CPE.
With 100 % duty rating and an unlimited number of starts the model CPA is suitable for heavy duty applications.
It is insusceptible to contamination, humidity and aggressive mediums from the outside. The hoists are composed of three main components which makes service easy and inexpensive.

Features

- Working pressures 4-6 bar.
- Robust rotating piston motor has an adjustable spring pressure brake that holds the load secure even in the event of an air failure.
- The standard, oil bath lubricated planetary gearbox is particularly smooth running and enables a low overall height.
- High starting torque due to switching valves in the motor body.
- Low noise emission due to large dimension silencer.
- Sensitive control by means of 2 resp. 4 button pendant control with emergency-stop.
- Up to 3000 kg only one chain fall, leading to a low overall height.
- The 5-pocket load chain sheave, manufactured from wear resistant case hardening steel, is matched perfectly to the load chain to guarantee smooth and precise chain motion.
- Drop forged suspension and load hooks are made from non-aging, high tensile steel and fitted with robust safety latches.
- The standard case hardened and zinc-plated link chain is matched perfectly to the load chain to guarantee smooth and precise chain motion.
  All requirements of national and international standards and regulations are fulfilled.

Options

- Manual and pneumatic trolleys.
- Rope control
- Stainless steel load chain.

INFO

To ensure faultless operation the compressed air supply must be filtered and oiled!

Also suitable for operation with nitrogen.

Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.

Other capacities on request.

Available in explosion proof version (see page 444).

Technical data model CPA

Model	EAN-No. 4025092*	Capacity in kg/ number of chain falls	Chain dimensions d x p mm	Classification FEM/ISO	Lifting speed with rated load [1] m/min	Lifting speed without load [1] m/min	Lowering speed with rated load [1] m/min	Hoist motor kW
CPA 20-8	*073868	2000/1	11 x 31	1 Bm/M3	7.4	9.9	11.0	2.6
CPA 30-6	*073875	3000/1	11 x 31	1 Bm/M3	6.0	9.9	13.0	3.2
CPA 40-4	*073882	4000/2	11 x 31	1 Bm/M3	3.7	5.0	5.5	2.6
CPA 50-3	*073899	5000/2	11 x 31	1 Am/M4	3.4	5.0	6.0	3.0
CPA 60-3	*073905	6000/2	11 x 31	1 Am/M4	3.0	5.0	6.5	3.2
CPA 75-2	*056915	7500/3	11 x 31	1 Am/M4	2.0	3.3	4.3	3.2
CPA 100-3	*075701	10000/4	11 x 31	1 Am/M4	3.4	5.0	6.0	2 x 3.0

[1] Values for 6 bar (flow pressure), air consumption with rated load 4.7 m³/min. CPA 100-3: 9.4 m³/min.

Model	EAN-No. 4025092*	Weight [2] suspension hook kg	Weight [2] push trolley kg	Weight [2] geared trolley kg	Weight [2] pneumatic trolley kg
CPA 20-8	*073868	121	184	188	199
CPA 30-6	*073875	121	184	188	199
CPA 40-4	*073882	140	202	206	218
CPA 50-3	*073899	140	202	206	218
CPA 60-3	*073905	140	202	206	218
CPA 75-2	*056915	–	–	–	–
CPA 100-3	*075701	–	–	–	–

[2] Weight at standard lift (3 m). Other lifting heights on request.

Available in explosion proof version (please see page 444).





Application with pneumatic trolley

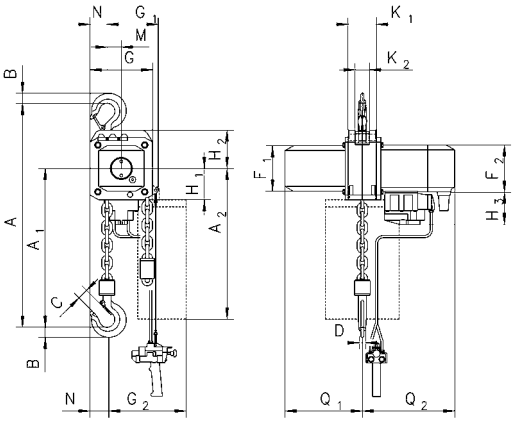
Technical data trolleys

Capacity kg	Size	Beam flange width b mm	Beam flange thickness t max. mm	Curve radius min. m	Pneumatic trolley travel speed m/min	Pneumatic trolley motor kW
2000 - 6000	A	98 - 180	27	2.0	18	0.55
2000 - 6000	B	180 - 300	27	1.8	18	0.55
7500 - 10000	B	125 - 310	40	1.8	–	–

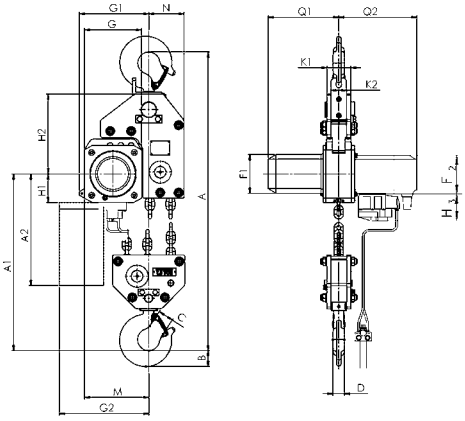
Values for 6 bar (flow pressure), air consumption with rated load 0.75 m³/min.

Dimensions model CPA

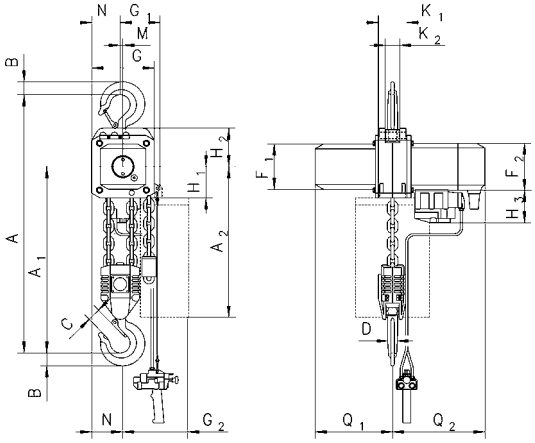
Model	CPA 20-8	CPA 30-6	CPA 40-4	CPA 50-3	CPA 60-3	CPA 75-2	CPA 100-3
A, mm	516	516	681	681	681	950	1068
A1, mm	286	286	428	428	428	479	651
B, mm	35	35	45	45	47	60	60
C, mm	37	37	46	46	42	52	52
D, mm	24	24	30	30	30	40/45	40/45
F1, mm	160	160	160	160	160	160	160
F2, mm	165	165	165	165	165	165	165
G, mm	220	220	220	220	220	220	581
G1, mm	180	180	140	140	140	268	311
G2 (13 m), mm	258	258	218	218	218	–	–
G2 (21 m), mm	278	278	238	238	238	345	408
H1, mm	110	110	110	110	110	110	110
H2, mm	135	135	135	135	135	307	256
H3, mm	115	115	115	115	115	115	115
K1, mm	100	100	100	100	100	92	92
K2, mm	51	51	51	51	51	62	62
M, mm	50	50	9.6	9.6	9.6	139	181
N, mm	60	60	100	100	100	136	291
Q1, mm	272	272	272	272	272	272	272
Q2, mm	325	325	325	325	325	325	325



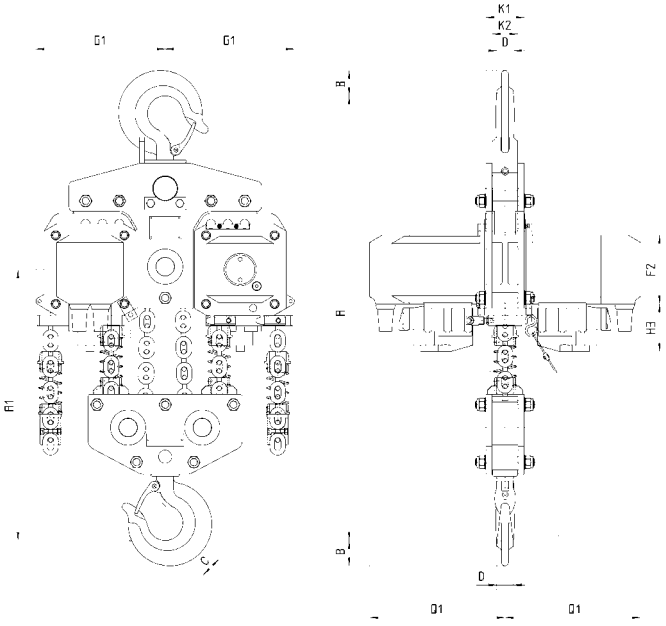
Model CPA with suspension hook, 2000 - 3000 kg, single fall



Model CPA with suspension hook, 7500 kg, three fall



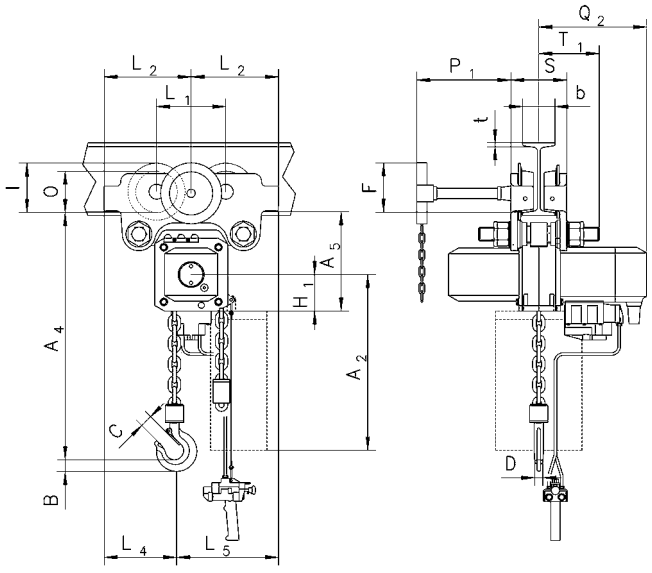
Model CPA with suspension hook, 4000 - 5000 kg, double fall



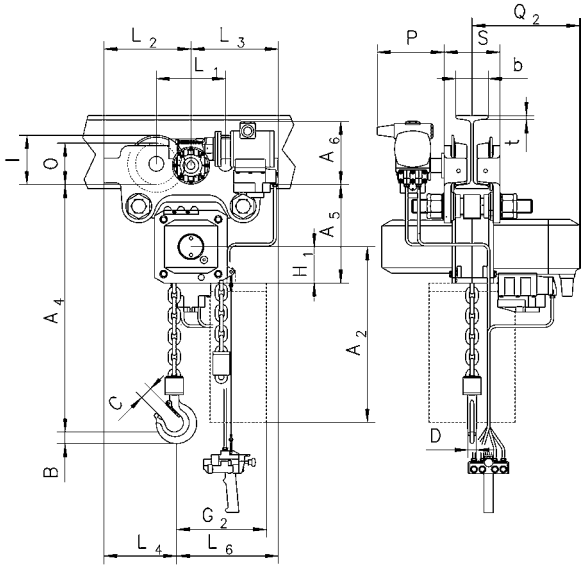
Model CPA with suspension hook, 10000 kg, four fall

Dimensions model CPA

Model	CPA 20-8	CPA 30-6	CPA 40-4	CPA 50-3	CPA 60-3	CPA 75-2	CPA 100-3
A2 (13 m), mm	430	430	430	430	430	–	–
A2 (21 m), mm	530	530	530	530	530	530	530
A4, mm	465	465	615	615	615	855	965
A5, mm	298	298	298	298	298	477	425
A6, mm	190	190	190	190	190	182	182
b, mm	A = 98 - 180/ B = 180 - 300	A = 98 - 180/ B = 180 - 300	A = 98 - 180/ B = 180 - 300	A = 98 - 180/ B = 180 - 300	A = 98 - 180/ B = 180 - 300	125 - 310	125 - 310
F, mm	150	150	150	150	150	113	113
I, mm	142.5	142.5	142.5	142.5	142.5	130	130
L1, mm	209	209	209	209	209	200	200
L2, mm	262.5	262.5	262.5	262.5	262.5	215	215
L3, mm	265	265	265	265	265	265	265
L4, mm	213	213	253	253	253	291	291
L5, mm	312	312	272	272	272	–	–
L6, mm	315	315	275	275	275	–	–
O, mm	125	125	125	125	125	150	150
P, mm	208	208	208	208	208	208	208
P1, mm	284	284	284	284	284	284	284
S, mm	b + 70	b + 70	b + 70	b + 70	b + 70	b + 98	b + 98
t, mm	27	27	27	27	27	40	40
T1 size A	182	182	182	182	182	–	–
T1 size B	242	242	242	242	242	270	270



Model CPA with integrated manual push or geared trolley



Model CPA with integrated pneumatic trolley

Yale link chains, zinc-plated

for	EAN-No. 4025092*	Capacity kg	Number of chain falls	Chain dimensions d x p mm	Chain stop
Model D85	*050920	750	1	6 x 18.5	•
	*050937	1500	1	9 x 27	•
	*050951	3000	1	11 x 31	•
	*050951	6000	2	11 x 31	•
	*050951	10000	3	11 x 31	•
Model D95	*051002	1500	1	6.2 x 18.5	•
	*051422	3000	1	9 x 27.2	•
Model AL	*051323	750	1	6.3 x 19.1	•
	*051323	1000	1	6.3 x 19.1	•
	*051347	1500	1	7.1 x 21.2	•
	*051378	3000	1	10 x 30.2	•
Model PT	*051415	800	1	5.6 x 17.1	•
	*051347	1600	1	7.1 x 21.2	•
	*051422	3200	1	9 x 27.2	•
	*051422	6300	2	9 x 27.2	•
Model UNOplus	*053846	750	1	6 x 18	•
	*053860	1500	1	8 x 24	•
	*053884	3000	1	10 x 30	•
	*053884	6000	2	10 x 30	•
Model Yalehandy	*051316	250	1	4 x 12	–
	*051316	500	1	4 x 12	–
Model Yalelift 360	*075244	500	1	5 x 15	–
	*053846	1000	1	6 x 18	•
	*053860	2000	1	8 x 24	•
	*053884	3000	1	10 x 30	•
	*053884	5000	2	10 x 30	•
	*077002	10000	3	10 x 30	•
	*077002	20000	6	10 x 30	•
Model VS*III*	*051316	250	1	4 x 12	–
	*075244	500	1	5 x 15	–
	*053846	1000	1	6 x 18	•
	*053860	1500	1	8 x 24	•
	*053846	2000	2	6 x 18	•
	*053860	2000	1	8 x 24	•
	*053860	3000	2	8 x 24	•
	*053884	3000	1	10 x 30	•
	*053884	5000	2	10 x 30	•
Model CPS	*076074	125 - 250	1	4 x 12.2	–
	*076074	500	2	4 x 12.2	–
Model CPV	*076074	250	1	4 x 12.2	–
	*076074	500	2	4 x 12.2	–
	*081030	500	1	5 x 15.1	–
	*081030	1000	2	5 x 15.1	–
	*081047	1000	1	7.1 x 20.5	•
	*081047	2000	2	7.1 x 20.5	•
Model CPA	*076074	125 - 250	1	4 x 12.2	–
	*076074	500	2	4 x 12.2	–
	*890649	250 - 500	1	6.3 x 19.5	•
	*890649	980	2	6.3 x 19.5	•
Model CPE/CPA	*056489	1600 - 3000	1	11 x 31	•
	*056489	3200 - 6000	2	11 x 31	•
	*056489	7500	3	11 x 31	•
	*056489	10000	4	11 x 31	•





Yale link chains, stainless steel

for	EAN-No. 4025092*	Capacity kg	Capacity max. per chain hoist kg	Number of chain falls	Chain dimensions d x p mm	Chain stop
Model D85	*050944	1500	1500	1	9 x 27	•
Model D95	–	1500	1500	1	6.2 x 18.5	•
Model AL	*051330	750	750	1	6.3 x 19.1	•
	*051330	1000	1000	1	6.3 x 19.1	•
	*051354	1500	1250	1	7.1 x 21.2	•
	*051385	3000	2000	1	10 x 30.2	•
Model PT	*051354	1600	1250	1	7.1 x 21.2	•
Model UNOplus	*053853	750	750	1	6 x 18	•
	*053877	1500	1250	1	8 x 24	•
	*053891	3000	2000	1	10 x 30	•
	*053891	6000	4000	2	10 x 30	•
Model Yalelift 360	*058506	500	500	1	5 x 15	–
	*053853	1000	900	1	6 x 18	•
	*053877	2000	1250	1	8 x 24	•
	*053891	3000	2000	1	10 x 30	•
	*053891	5000	4000	2	10 x 30	•
Model VS*III*	*058506	500	500	1	5 x 15	–
	*053853	1000	900	1	6 x 18	•
	*053877	1500	1250	1	8 x 24	•
	*053853	2000	1800	2	6 x 18	•
	*053877	2000	1250	1	8 x 24	•
	*053877	3000	2500	2	8 x 24	•
	*053891	3000	2000	1	10 x 30	•
	*053891	5000	4000	2	10 x 30	•
Model CPV	*077330	250	250	1	4 x 12.2	–
	*077330	500	500	2	4 x 12.2	–
	*166546	500	500	1	5 x 15.1	–
	*166546	1000	1000	2	5 x 15.1	–
	*166553	1000	1000	1	7.1 x 20.5	•
	*166553	2000	2000	2	7.1 x 20.5	•
Model CPA	*077330	125/250	125/250	1	4 x 12.2	–
	*077330	500	500	2	4 x 12.2	–
	*890656	250/500	250/500	1	6.3 x 19.5	•
	*890656	980	980	2	6.3 x 19.5	•
Model CPE/CPA	*056410	1600/2000	1600/2000	1	11.3 x 31	•
	*056410	2500/3000	2000	1	11.3 x 31	•
	*056410	3200/4000	3200/4000	2	11.3 x 31	•
	*056410	5000/6000	4000	2	11.3 x 31	•
	*056410	7500	6000	3	11.3 x 31	•
	*056410	10000	8000	4	11.3 x 31	•

INFO

For Yale hand chains see page 68.

Yale roller chains

for	EAN-No. 4025092*	Capacity in kg/ number of chain falls	Chain dimensions d x p Inch	Chain stop
Model C 85	*050449	750/1	5/8"x3/8"	•
	*050456	1500/1	1"x1/2"	•
	*050463	3000/1	1 1/4"x5/8"	•
	*050463	6000/2	1 1/4"x5/8"	•
	*050463	10000/3	1 1/4"x5/8"	•

Yale hand chains, zinc-plated

for model	EAN-No. 4025092*	Chain dimensions d x p in mm
HTG, VS*III*, CPV, CPE, CPA, Yalelift 360	*053907	5 x 26
VS*III 250*	*067148	3 x 15
Connection link for hand chain	*014946	5 x 26

Yale hand chains, stainless steel

for model	EAN-No. 4025092*	Chain dimensions d x p in mm
HTG, VS*III*, CPV, CPE, CPA, Yalelift 360	*053914	5 x 26
Connection link for hand chain	*955690	5 x 26





Yale chain stop for round link and roller chains model YKST

The Yale chain stop is designed to be used as an additional fall arrester for round link and roller chains. The chain stop can be moved along the load chain of the hoist by actuating the safety device and pressing the slider at the same time.
When the slider is released, it automatically locks in the load chain and the safety lock blocks the system. In order to ensure safe functioning of the chain stop, the distance between the chain stop and the hoist must not exceed 15 - 20 mm. After the use of the hoist, the chain stop must be repositioned, as required.

Yale chain stop for link chains model YKST

Model	EAN-No. 4025092*	Capacity kg	Suitable for chain diameter mm	Dimensions L x W x D mm
YKST 16	*425940	1600	5.6 - 8	75 x 56 x 15
YKST 32	*425919	3400	9 - 11	105 x 82 x 24

Yale chain stop for roller chains model YKST

Model	EAN-No. 4025092*	Capacity kg	Suitable for chain dimensions
YKST 7,5	*292818	750	5/8" x 3/8"
YKST 15	*292542	1500	1" x 1/2"
YKST 34	*292801	3400	1 1/4" x 5/8"

The use for different chain dimensions is not permitted.



Chain stop attached to roller chain



Chain stop attached to link chain

INFO

The nominal load which is marked on the chain stop is the max. load, that each single chain fall can lift, for example model D 85, 10 t, three chain falls, satisfy 3.334 kg per chain fall.

Wall-mounted winch model SW-W

Capacity 80 - 750 kg

Wall-mounted rope winches of the SW-W model range are intended for fixed stationary mounting inside a building. The steel wire rope is guided to the required suspension point of the load by means of deflection sheaves.

Features

- Robust aluminium housing for models SW-W 80 and SW-W 125, proven steel plate design for models SW-W 300 - 750.
- Spur gear drive for optimal efficiency and comfortable handling. Direct drive for loads up to 125 kg.
- The low-noise safety spring brake safely holds the load in every position.
- Removable hand crank for models SW-W 80 and SW-W 125, foldable crank for models SW-W 300 - 750.
- Easy and quick mounting onto walls.



80 - 125 kg



300 - 750 kg

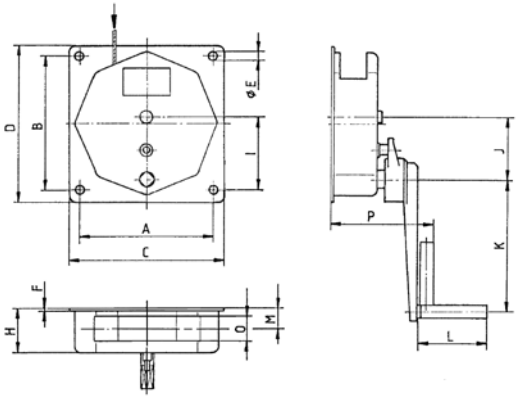
Technical data model SW-W

Model	EAN-No. 4025092*	Capacity 1st layer kg	Capacity top layer kg	Drum diameter mm	Rope diameter mm	Useable rope length 1st layer m	Useable rope length top layer m	Lift per crank rotation mm	Required crank effort daN	Weight without rope kg
SW-W 80	*984638	80	45	51	3 [1]	2.4	30	170	12	3
SW-W 125	*686235	125	65	40	4 [1]	2	12	138	13	3
SW-W 300	*990509	300	220	108	5 [2]	2.1	15	68	15	10
SW-W 500	*984669	500	350	108	6 [2]	2.4	15	35	13	11
SW-W 750	*984508	750	550	108	7 [2]	2	10	35	20	11

[1] recommended rope: DIN 3055 FE-znk 1770 sZ-spa
[2] recommended rope: DIN 3060 FE-znk 1770 sZ-spa

Dimensions model SW-W

Model	SW-W 80	SW-W 125	SW-W 300	SW-W 500	SW-W 750
EAN-No.	*984638	*686235	*990509	*984669	*984508
A, mm	110	110	250	250	250
B, mm	110	110	250	250	250
C, mm	130	130	290	290	290
D, mm	130	130	290	290	290
Ø E, mm	9	9	14.5	14.5	14.5
F, mm	15	15	2	2	2
H, mm	121	121	85	85	85
I, mm	55	55	138	138	138
J, mm	–	–	117	117	117
K, mm	250	250	250	250	250
L, mm	130	130	130	130	130
M, mm	68	68	39	39	39
O, mm	60	60	50	50	50
P, mm	275	275	192	192	192





Wall-mounted winch model SW-W ALPHA

Capacity 300 - 1000 kg

A versatile wall-mounted winch for an easy lifting of loads.

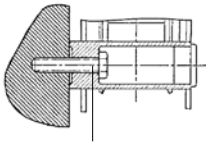
Features

- Light weight robust stamped steel housing and compact design.
- Spur gear drive for optimal efficiency and comfortable handling.
- Rope lead-offs to all directions.
- All parts are zinc-plated for increased corrosion protection, drum with additional special coating.
- Integrated crank with load pressure brake for safe holding of the load.
- Easy and quick mounting onto walls.

INFO

For a better guiding of the rope to the suspension point we recommend the use of sheaves or sheave blocks, please see page 79.

View x
M 1:2.5



Fastening screws
to be fastened with M12
bolts quality class 8.8
(not included)

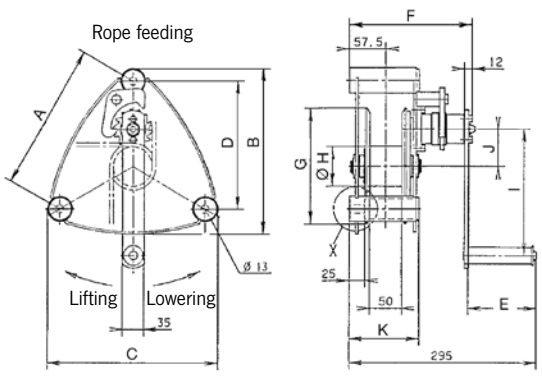
Technical data model SW-W ALPHA

Model	EAN-No. 4050939***	Capacity 1st layer kg	Capacity top layer kg	Drum length mm	Rope diameter mm	Useable rope length 1st layer m	Useable rope length top layer m	Lift per crank rotation mm	Required crank effort daN	Weight without rope kg
SW-W ALPHA 300	***050917	300	130	50	5 [2]	1.3	28	57	13	10
SW-W ALPHA 500	***051037	500	230	50	6 [2]	1	20	55	17	10
SW-W ALPHA 750	***051181	750	270	50	7 [2]	1	26	45	17	16
SW-W ALPHA 1000	***051228	1000	360	50	7 [2]	1	26	45	18	16

[2] recommended rope: DIN 3060 FE-znk 1770 sZ-spa

Dimensions model SW-W ALPHA

Model	SW-W ALPHA 300	SW-W ALPHA 500	SW-W ALPHA 750	SW-W ALPHA 1000
Art.-No.	***050917	***051037	***051181	***051228
A, mm	234	234	306	306
B, mm	262	262	337	337
C, mm	274	274	357	357
D, mm	203	203	265	265
E, mm	107	107	107	107
F, mm	194	194	194	194
G, mm	183	183	255	255
Ø H, mm	63	63	63.5	63.5
I, mm	200	250	250	320
J, mm	58.6	58.6	92.5	92.5
K, mm	109.5	109.5	107	107



Wall-mounted winch with worm gear drive model SW-W-SGO

Capacity 250 - 5000 kg

Wall-mounted winch with worm gear drive and load pressure brake for efficient lifting of heavy loads.

Features

- Housing and rope drums made out of robust steel plate.
- Worm gear drive with additional load pressure brake for safe holding of the load.
- Roller bearings ensure smooth running of the rope and increased lifetime of the winch.
- Second speed for fast lifting of smaller loads, resulting in lowest possible handle effort and rapid winding of the rope (for capacitites of 2000 kg and above).
- Wide rope drum for a large rope capacity with two rope attachment points.
- Easy and quick mounting.



Model SW-W-SGO
Capacity 1500 kg

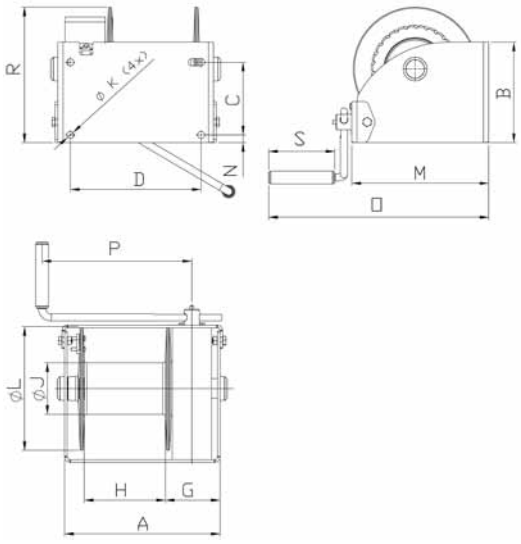
Technical data model SW-W-SGO

Model	EAN-No. 4050939***	Capacity 1st layer kg	Capacity top layer kg	Rope diameter mm	Useable rope length 1st layer m	Useable rope length top layer m	Lift per crank rotation mm	Required crank effort daN	Weight without rope kg
SGO 250	***049263	250	100	5 [2]	2.3	44	29	6	13
SGO 500	***049270	500	238	6 [2]	3.7	54	30	11	16
SGO 1000	***051464	1000	500	9 [2]	4.5	46	21	10,6	26
SGO 1500	***051563	1500	850	10 [2]	4.5	38	18	16	28
SGO 2000	***050443	2000	1100	13 [2]	4	37	8/16 [3]	9/18 [3]	60
SGO 3000	***050481	3000	2000	16 [2]	5	34.5	7/14 [3]	12/24 [3]	78
SGO 5000	***050818	5000	3300	20 [2]	4.5	33.8	8/16 [3]	25.2/50.4 [3]	105

[2] recommended rope: DIN 3060 FE-znk 1770 sZ-spa [3] 1st/2nd speed

Dimensions model SW-W-SGO

Model	SGO 250	SGO 500	SGO 1000	SGO 1500	SGO 2000	SGO 3000	SGO 5000
EAN-No.	***049263	***049270	***051464	***051563	***050443	***050481	***050818
A, mm	238	269	302	302	410	436	436
B, mm	145	160	195	250	310	365	460
C, mm	100	115	141	178	196	251	316
D, mm	192	223	254	254	360	386	386
G, mm	106	107	110	111	137	137	137
H, mm	102	131	160	160	176	204	200
Ø J, mm	48	70	102	102	133	165	219
Ø K, mm	14	14	17	17	25	25	25
Ø L, mm	160	190	240	240	312	376	437
M, mm	191	221	266	278	383	443	495
N, mm	15	15	15	15	45	47	60
O, mm	354	384	429	441	–	–	–
P, mm	280	325	350	350	380	380	380
R, mm	171	192	264	306	420	527	604
S, mm	130	130	130	130	220	220	220





Manual winch with spur gear drive model MWS

Capacity 150 - 1500 kg

For the operation where no electricity is available or in a dirty environment.

Recommended rope diameter according to DIN 3060 FE-znk 1770 sZ-spa.

Features

- Enclosed gear drive for protection of internal parts, even under tough working conditions.
- Spur gears on roller bearings, rope drum on plain bearings.
- Compact design.
- Easy and quick mounting onto walls, poles etc.
- They have a self-locking, anti-kickback and adjustable crank handle for fast lifting of smaller loads, resulting in lowest possible handle effort and rapid winding of the rope.
- Automatic load pressure brake for safe holding and extremely sensitive lowering of the load. Unintentional brake release is prevented even with swinging loads.
- They are suitable for operation in ambient temperatures of -20 °C up to +40 °C.

Option

- Corrosion resistant version.

INFO

For a better guiding of the rope to the suspension point we recommend the use of sheaves or sheave blocks, please see page 79.

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

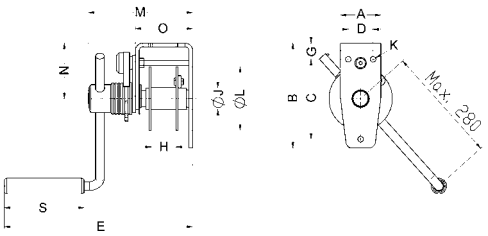
Technical data model MWS

Model	EAN-No. 4025092* 4053981**	Capacity 1st layer kg	Capacity top layer kg	Crank effort 1st layer daN	Lift per crank rotation 1st layer mm	Lift per crank rotation top layer mm	Weight without rope kg	Rope diameter mm	Useable rope length 1st layer m	Useable rope length max. m	Number of layers max.
MWS 150	*635356	150	68	11	122	210	4	4[2]	0.8	13	8
MWS 300	*635363	300	166	6	32	44	10	5[2]	1.8	21	7
MWS 600	*635370	600	308	10	28	41	11	6[2]	1.2	12	6
MWS 1000	**790718	1000	587	11	20	27	27	9[2]	3.0	25	5
MWS 1500	**790732	1500	844	12	14	19	27.5	10[2]	2.7	21	5

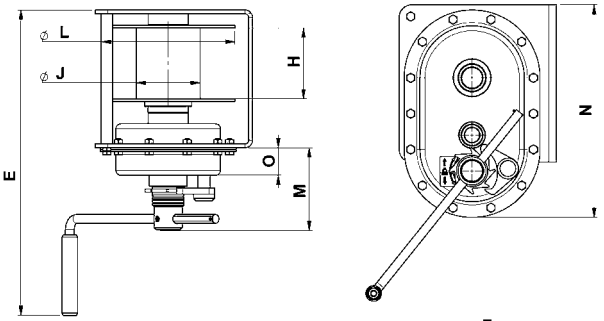
[2] recommended rope: DIN 3060 FE-znk 1770 sZ-spa

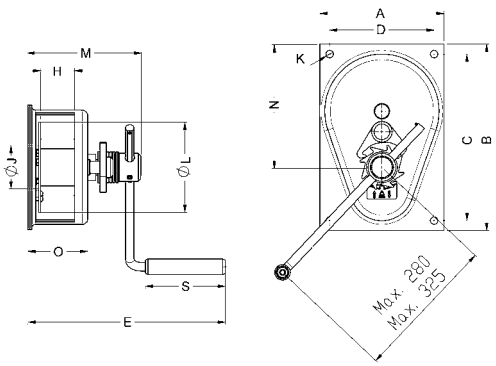
Dimensions model MWS

Model	MWS 150	MWS 300	MWS 600	MWS 1000	MWS 1500
A, mm	65	200	200	219	219
B, mm	168	300	300	250	250
C, mm	128	268	268	212	212
D, mm	40	168	168	150	150
E, mm	303	318	318	484	484
F, mm	–	–	–	250	250
G, mm	26	–	–	30	30
H, mm	41	55	55	113	113
I, mm	–	–	–	170	170
Ø J, mm	35	70	60	102	102
K, mm	9	12	12	17	17
Ø L, mm	102	145	145	212	212
M, mm	168	182	182	130	130
N, mm	89	199	199	338	338
O, mm	92	96	96	44	44
P, mm	–	–	–	104	104
Q, mm	–	–	–	190	190
S, mm	129	129	129	129	129

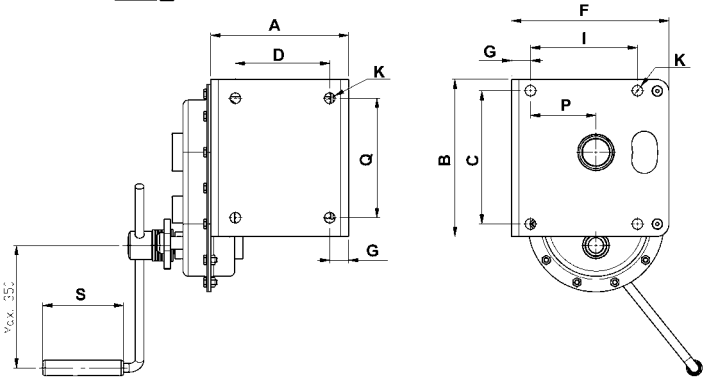


Model MWS, capacity 150 kg





Model MWS, capacity 300 - 600 kg



Model MWS, capacity 1000 - 1500 kg



Model LB,
zinc-plated version,
capacity 1200 kg



Model LB,
zinc-plated version,
capacity 350 kg

Console-mounted winch model LB

Capacity 150 - 1200 kg

Originally developed as offroad winch the console-mounted winch model LB is used today for a variety of lifting and pulling applications.

Features

- Light weight robust stamped steel housing.
- Spur gear drive for optimal efficiency and comfortable handling.
- Automatic load pressure brake for save holding of the load in any position. An unintentional brake release is prevented.
- All parts are zinc-plated for increased corrosion protection, drum with additional special coating.
- Easy and quick mounting to consoles, even under lifting conditions.

Options

- Stainless steel version (mat. 1.4301) for increased corrosion protection.
- Free wheeling device for a quick manual unrolling of the unloaded rope.



Model LB-VA,
stainless steel version,
capacity 900 kg

Technical data model LB

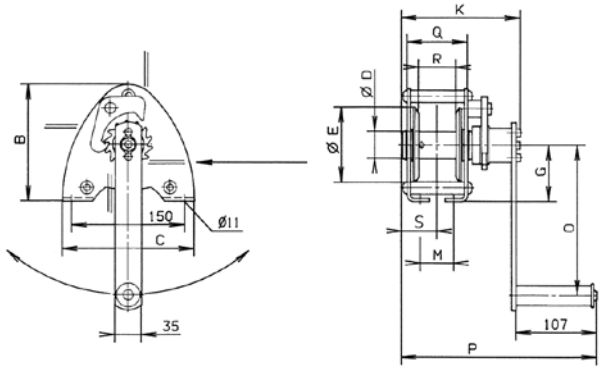
Model	EAN-No. 4025092* 4050939*** Zinc-plated version	EAN-No. 4025092* 4050939*** Free wheeling device	EAN-No. 4025092* 4050939*** Stainless steel version	Capacity 1st layer kg	Capacity top layer kg	Rope diameter mm	Useable rope length 1st layer m	Useable rope length top layer m	Lift per crank rotation mm	Required crank effort daN	Weight without rope kg
LB 150 VZ	***050542	–	–	150	75	4 [2]	0.8	11	125	17	4.2
LB 350 VZ	***050559	–	–	350	170	4 [2]	1.8	20	125	25	4.8
LB 650 VZ	*994736	–	–	650	290	6 [2]	1	20	55	22	7.3
LB 900 VZ/ARA	*994859	*992251	–	900	400	7 [2]	0.8	14	58	24	10
LB 1200 VZ/ARA	*561655	***049249	–	1200	430	7 [3]	1	26	45	24	12.1
LB 250 VA	–	–	*441964	250	125	4 [2]	1.8	19.5	125	20	4.8
LB 650 VA	–	–	*284875	650	290	6 [2]	1	20	55	22	7.6
LB 900 VA	–	–	*562461	900	320	7 [2]	1	26	45	24	12.1

[2] recommended rope: DIN 3060 FE-znk 1770 sZ-spa [3] recommended rope: DIN 3069 SE-znk 2160 sZ-spa

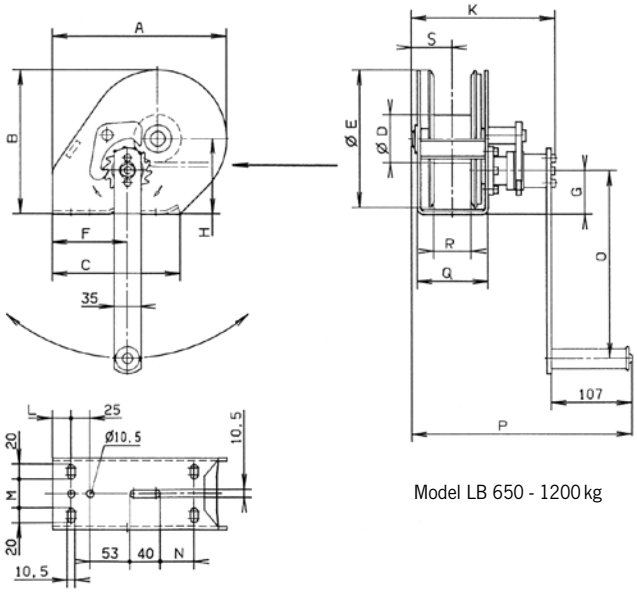
Dimensions model LB

Model	LB 150 VZ	LB 350 VZ	LB 650 VZ	LB 900 VZ LB 900 ARA	LB 1200 VZ LB 1200 ARA	LB 250 VA	LB 650 VA	LB 900 VA
EAN-No. Zinc-plated version	***050542	***050559	*994736	*994859	*561655	–	–	–
EAN-No. Free wheeling device	–	–	–	*992251	***049249	–	–	–
EAN-No. Stainless steel version	–	–	–	–	–	*441964	*284875	*562461
A, mm	–	–	232	232	273	–	232	273
B, mm	155	155	192	192	266	155	192	266
C, mm	175	175	210	210	240	175	210	240
Ø D, mm	36	36	63.5	63.5	63.5	36	63.5	63.5
Ø E, 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
Q, mm	81	111	95	95	95	111	95	95
R, mm	50	80	50	50	50	80	50	50
S, mm	48	63	55	55	55	65.5	55	55

*Free wheeling device



Model LB 150 - 350 kg



Model LB 650 - 1200 kg



Model SW-K GAMMA
capacity 800 kg



Model SW-K GAMMA
capacity 500 kg

Console-mounted aluminium rope winch model SW-K GAMMA

Capacity 200 - 800 kg

Due to its rugged design, the aluminium rope winch is suitable for operation outdoors.

Features

- Compact aluminium housing and enclosed sprocket wheel drive. From a capacity of 500 kg with speed increasing ratio for small loads and quicker winding and unwinding of the unloaded rope.
- Spur gear drive for optimal efficiency and comfortable handling.
- Enclosed gear for the protection of parts inside, also for arduous applications.
- Low-friction shaft sliding bearings for improved rope lead-off and a longer service life of the winch.
- Wide rope drum for a large rope capacity with two rope attachment points.
- Easy and quick mounting.
- With integrated safety spring brake system and removable crank. The winches can be operated from either side.

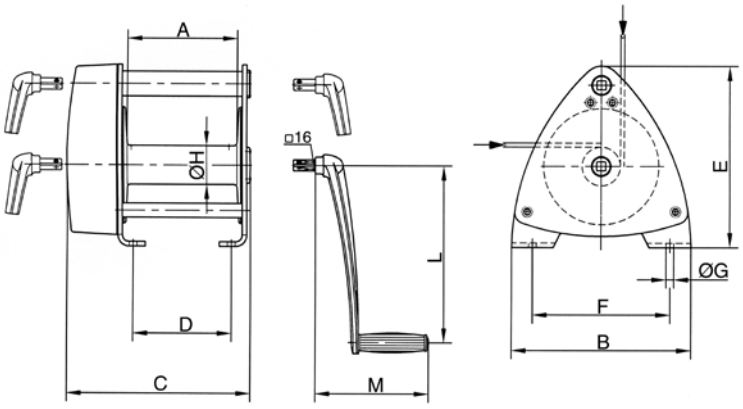
Technical data model SW-K GAMMA

Model	EAN-No. 4025092*	Capacity 1st layer kg	Capacity top layer kg	Rope diameter mm	Useable rope length 1st layer m	Useable rope length top layer m	Lift per crank rotation mm	Required crank effort daN	Ratio	Weight without rope kg
GAMMA 200	*984690	200	110	4 [2]	3.6	40	195	19	–	6
GAMMA 500	*983808	500	200	6 [2]	4.2	50	60/400 [3]	12	6.57:1	14
GAMMA 800	*441346	800	350	7 [2]	5.3	78	36/280 [3]	18	7.57:1	16

[2] recommended rope: DIN 3060 FE-znk 1770 sZ-spa [3] load/speed increasing ratio

Dimensions model SW-K GAMMA

Model	GAMMA 200	GAMMA 500	GAMMA 800
EAN-No.	*984690	*983808	*441346
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
Ø G, mm	9.5	11	14
Ø H, mm	50	60	70
L, mm	320	250	320
M, mm	207	165	207



Compact aluminium rope winch with free-wheeling device model SW-KAL

Capacity 750 - 1120 kg

Console-mounted rope winches are used for super-structures on vehicles and trailers and when lifting and lowering loads.

Features

- Self-locking worm gear, free-wheeling device for ease of operation.
- Enclosed gear for the protection of internal parts, also for arduous applications.
- Low-friction shaft bearings for a longer service life of the winch.
- Easy and quick mounting.



INFO

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

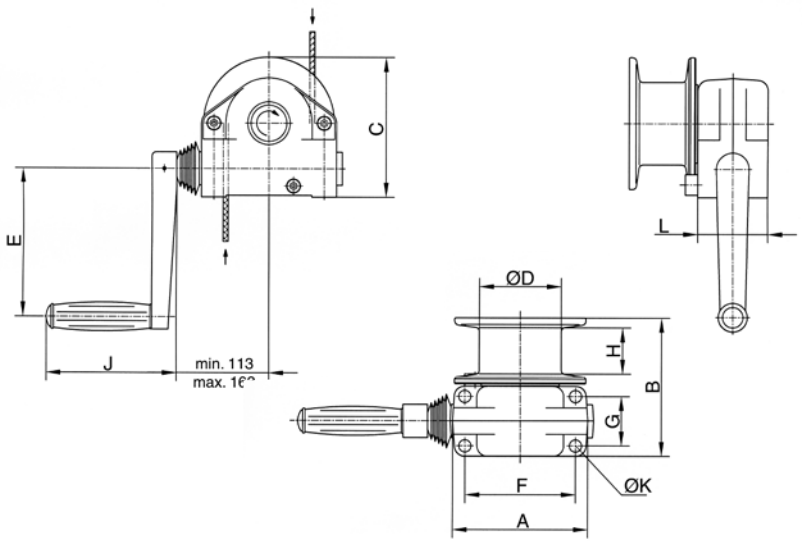
Technical data model SW-KAL

Model	EAN-No. 4050939***	Capacity 1st layer kg	Capacity top layer kg	Drum diameter mm	Rope diameter mm	Useable rope length 1st layer m	Useable rope length max. m	Lift per crank rotation mm	Lift per crank rotation top layer mm	Required crank effort daN	Weight without rope kg
KAL 750	***051242	750	600	100	6 [2]	1.3	10	15	17	20	7
KAL 1120	***051389	1120	600	63	7 [2]	0.5	10	11	16	22	7

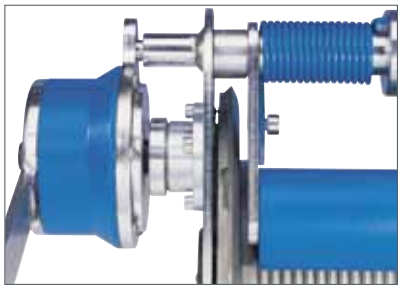
[2] recommended rope: DIN 3060 SE-znk 1770 sZ-spa

Dimensions model SW-KAL

Model	KAL 750	KAL 1120
Art.-No.	030207004	030208000
A, mm	165	165
B, mm	168	168
C, mm	170	170
Ø D, mm	100	63
E, mm	180	180
F, mm	135	135
G, mm	60	60
H, mm	56	50
J, mm	160	160
Ø K, mm	13	13
L, mm	85	85







INFO

Certified by the German committee for lifting equipment (GS-approval-tested safety).

Console-mounted rope winch model SW-K LAMBDA (DGUV Vorschrift 17 [BGV C1])

Capacity 300 kg

The compact rope winch for applications on stages, in studios, theatres, etc.

Features

- State-of-the-art design with galvanized side sections for easy handling.
- Grooved drum for single-layer winding of the steel rope. An 18:1 ratio between drum and rope diameter increases the service life of the rope substantially.
- With spring-loaded rope pressure roller to prevent the unloaded rope from jumping off the drum.
- Gear rated for twice the nominal load.
- Spur gear drive for optimal efficiency and comfortable handling.
- The fitted safety crank with two spring brakes acting independently of each other for safe holding of the load in any position.
- Complies with DGUV Vorschrift 17 (BGV C1) and DIN 56925-1.

Options

- Drum extension for a larger rope capacity.
- Special grooves (several layers)

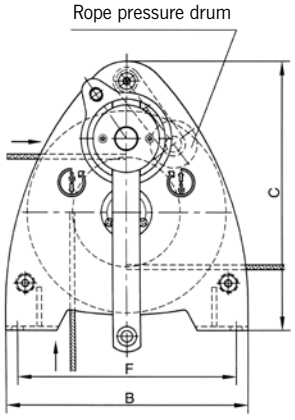
Technical data model SW-K LAMBDA (DGUV Vorschrift 17 [BGV C1])

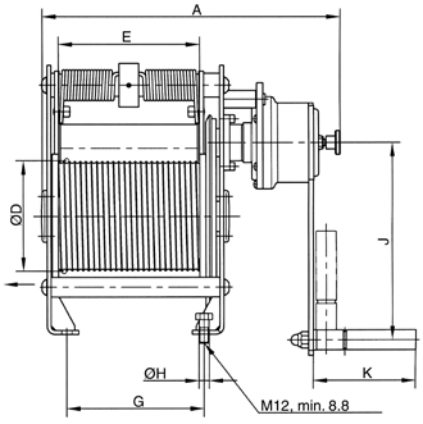
Model	EAN-No. 4050939***	Capacity kg	Rope diameter mm	Useable rope length max. 1st layer m	Lift per crank rotation mm	Required crank effort daN	Ratio	Weight without rope kg
SW-K LAMBDA	***050382	300	6 [4]	10	50	18	8.83:1	30
SW-K LAMBDA	***050405	300	6 [4]	15	50	18	8.83:1	36

[4] recommended steel rope: 6 DIN 3069 SE-znk 1960 sZ-spa (breaking load of the rope min. 30.4 kN)

Dimensions model SW-K LAMBDA (DGUV Vorschrift 17 [BGV C1])

EAN-No.	***050382	***050405
A, mm	379	469
B, mm	310	310
C, mm	340	340
Ø D, mm	139.4	139.4
E, mm	180	270
F, mm	280	280
G, mm	175	265
Ø H, mm	13	13
J, mm	250	250
K, mm	130	130





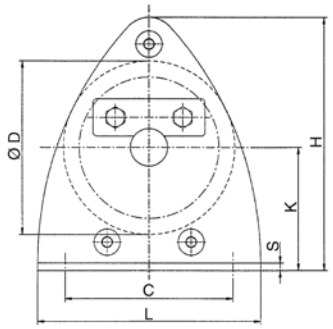
Sheave block for rope guidance, equipped with ball bearings model DSRB S



Technical data model DSRB

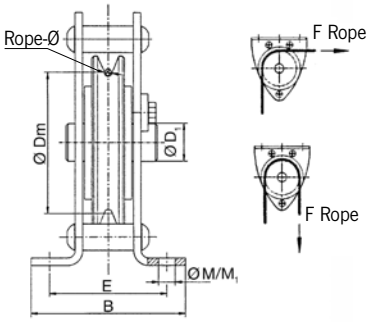
Model	EAN-No. 4025092* 4050939***	Classification FEM/ISO	Pulling force in kg at deflection 90°	Pulling force in kg at deflection 180°	Rope diameter mm
DSRB S 90/4	***066062	2m/M5	700	500	3-4
DSRB S 90/6	***066123	1Dm/M1	700	500	5-6
DSRB S 145/7	*990424	1 Am/M4	1100	800	7
DSRB S 185/8	***065843	2m/M5	2300	1630	8
DSRB S 270/12	***065980	2m/M5	2500	1800	9-12
DSRB S 400/16	***066130	3m/M6	5000	3800	13-16
DSRB S 490/20	***065751	3m/M6	8000	6000	20

All sheaves are available as an individual component on request.



Dimensions model DSRB

Model	DSRB S 90/4	DSRB S 90/6	DSRB S 145/7	DSRB S 185/8	DSRB S 270/12	DSRB S 400/16	DSRB S 490/20
EAN-No.	***066062	***066123	*990424	***065843	***065980	***066130	***065751
B, mm	85	85	125	138	191	302	313
C, mm	90	90	160	195	290	430	580
Ø D, mm	90	90	145	185	270	400	490
Ø D1, mm	20	25	25	30	40	50	65
Ø Dm, mm	80	78	126	160	246	368	450
E, mm	62	62	88	106	138	212	220
H, mm	134	134	224	273	407	612	694
K, mm	65	65	110	135	202	310	340
L, mm	120	120	200	245	360	530	650
Ø M/M1, mm	9/9	9/9	11.5/13	13.5/15	18/20	26/30	34/40
S, mm	4	6	6	8	10	15	16



Available in explosion proof version (please see page 465).

Standard ropes for Pfaff-silberblau manual winches

According to DIN 3060

INFO

Additional accessories available on request.

EAN-order number

Rope diameter	Breaking load of rope min. kN	Useable rope length 5 m	Useable rope length 10 m	Useable rope length 15 m	Useable rope length 20 m	Capacity clevis end kg
4 mm - DIN 3060	10.1	4050939 050924	4050939 050962	4050939 051075	4050939 051204	500
5 mm - DIN 3060	15.8	4050939 050955	4050939 050993	4050939 051143	4050939 051235	1000
6 mm - DIN 3060	22.8	4050939 050986	4050939 051167	4050939 051266	4050939 051358	1000
7 mm - DIN 3060	31.0	4025092 990585	4050939 051211	4050939 051365	4050939051549	1000
7 mm - DIN 3069 [1]	43.9	–	–	4050939 051624	–	1600

[1] Rope with increased breaking load for LB 1200 kg





Option:
Eye sling hook
with safety latch



Option:
Yaletrac storage box made from steel plate,
approx. 74 x 26 x 45 cm

Cable puller model Yaletrac ST

Pulling force 1000 - 3200 daN

Cable pullers model Yaletrac ST feature a housing of dimensionally stable deep-drawn steel plates ensuring a compact, robust design in combination with optimised weight.
The benefits of the previous Yaletrac range have been maintained and supplemented to the needs of the market. The hand operating forces have been noticeably optimised for the user by the application of axial ball bearings.

Features

- Stable upright positioning of the unit due to the combination of handle and foot.
- Space-saving telescopic hand lever that can be safely attached to the unit by means of a hook-and-pile fastener.
- Increased service life of the unit due to the use of rubber sleeves which prevent dirt and dust from penetrating into the mechanical equipment of the unit.
- Positioning of the forward and reversing levers in tandem provides a slim design and ensures optimal power transfer.
- Overload protection is provided by a shearing pin. Spare shear pins are conveniently located in the carrying handle. A broken pin can be replaced without removing the load.
- A lever disengages the rope clamp system allowing easy and smooth installation of the rope.
- Yaletrac ST uses a special flexible rope. It has six strands with a steel core and is identified by an orange strand. The rope is tapered at one end for easy threading and is fitted with an eye sling hook with safety latch on the other end.
- The parallel arrangement of the clamping system protects the rope by distributing the clamping forces evenly. A long rope advance per each lever stroke increases the working speed.
- The large opening in the top of the unit allows easy cleaning: simply flush the unit with water and apply motor oil for lubrication and the Yaletrac ST is again ready for use.

Options

- Eye sling hook with safety latch
- Longer ropes
- Drum reel
- Storage box



Technical data model Yaletrac ST

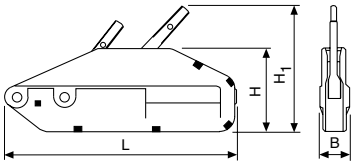
Model	EAN-No. 4025092*	Capacity WLL kg	Rope advance per double stroke mm	Lever pull at WLL daN	Lever length mm	Rope diameter mm	Weight without rope kg	Rope weight kg/m
Y 10 ST	*422901	1000	60	23	800	8.4	8.5	0.29
Y 16 ST	*422925	1600	60	28	790/1190	11.5	15.8	0.53
Y 32 ST	*422963	3200	40	46	790/1190	16	27.2	1.0

Dimensions model Yaletrac ST

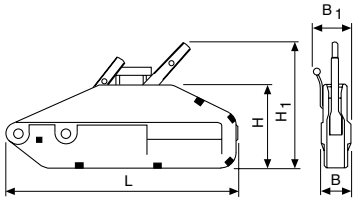
Model	Y 10 ST	Y 16 ST	Y 32 ST
L, mm	435	560	664
H, mm	178	205	240
H1, mm	235	280	350
B, mm	61	86	96
B1, mm	94	125	123

INFO

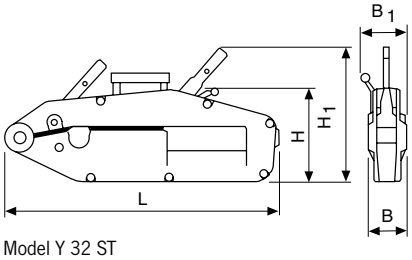
Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.



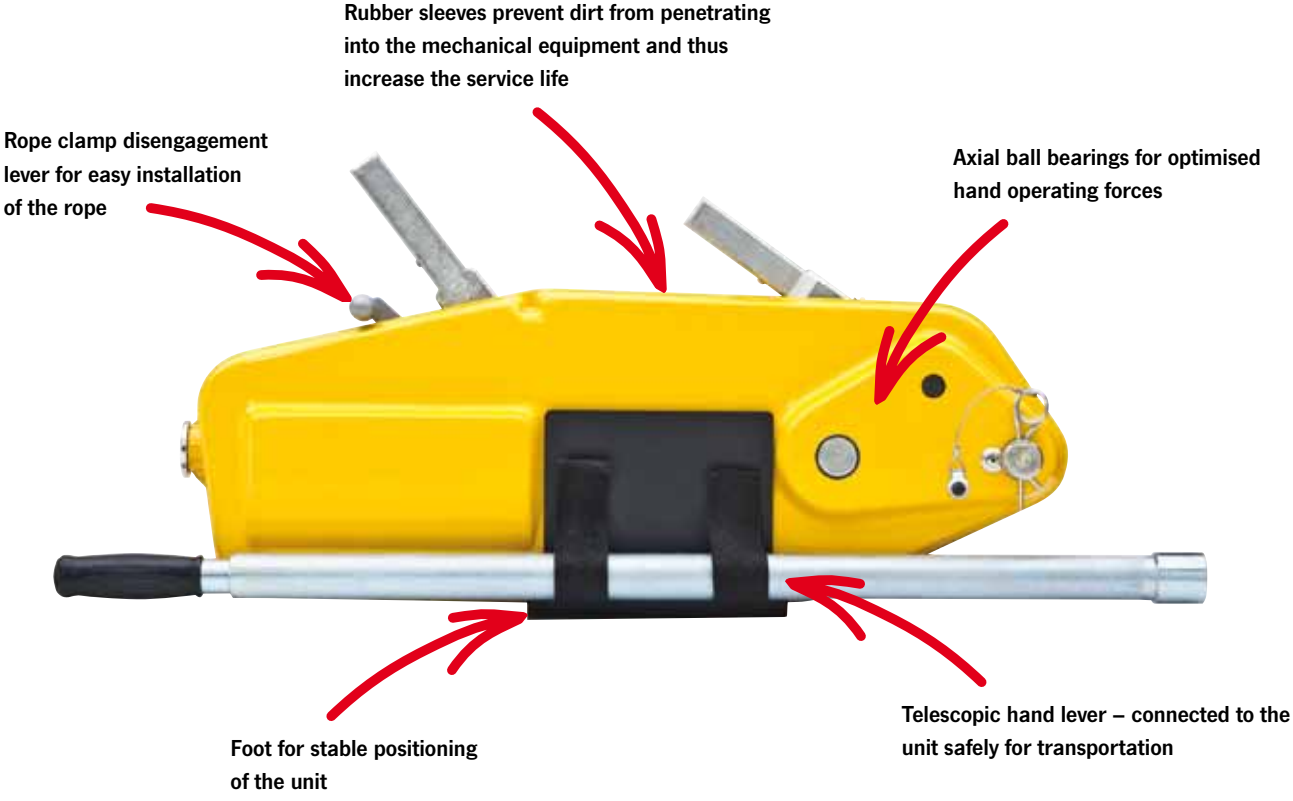
Model Y 10 ST

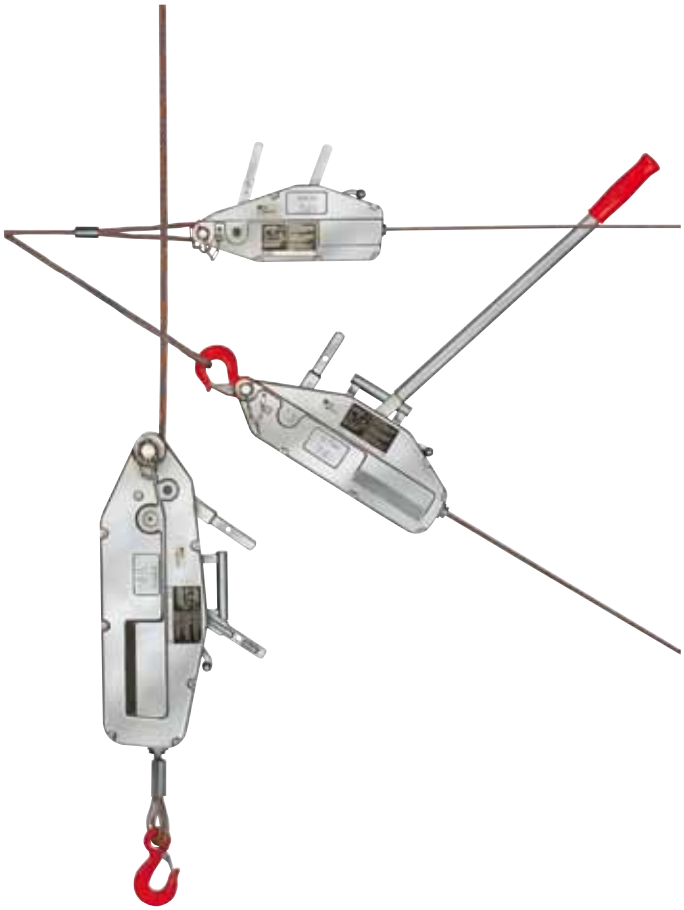


Model Y 16 ST



Model Y 32 ST





Cable puller model Yaletrac

Pulling force 800 - 3200 daN

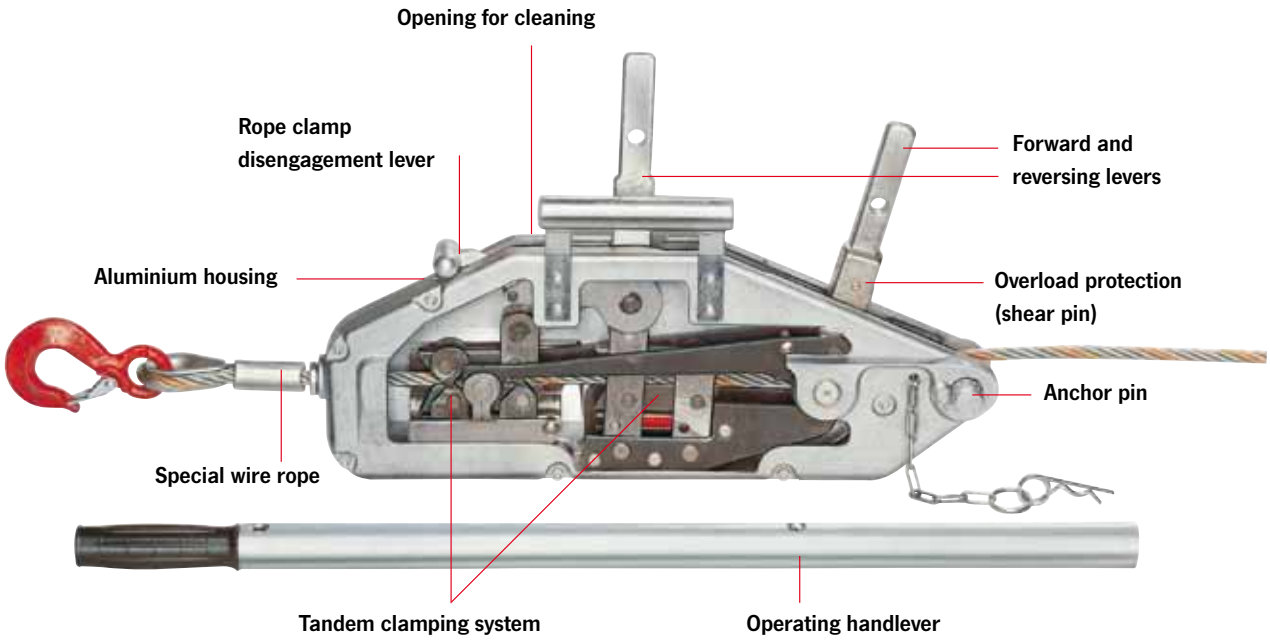
It has a light weight, compact, high tensile aluminium alloy housing with a large flat bottom surface for increased stability in horizontal as well as vertical working position.

Features

- Forward and reversing levers in tandem provide slim design and assure power transfer along the centre line.
- Overload protection is by a shearing pin in the forward lever. Spare shear pins are conveniently located in the carrying handle or operating lever. A broken pin can be replaced without removing the load.
- A lever disengages the rope clamp system allowing easy, smooth installation of the rope.
- Yaletrac uses a special flexible rope. It has six strands with a steel core and is identified by an orange strand. The rope is tapered at one end for easy threading and fitted with an eye sling hook with safety latch on the other end.
- The parallel arrangement of the clamping system protects the rope by distributing the clamping forces evenly. A long rope advance per each lever stroke increases the working speed.
- The large opening in the top of the unit allows easy cleaning: simply flush the unit with water, apply motor oil for lubrication and the Yaletrac is again ready for use.

Options

- Eye sling hook with safety latch
- Longer ropes
- Drum reel
- Storage box

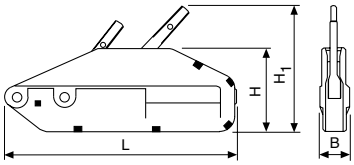


Technical data model Yaletrac

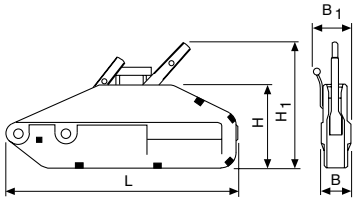
Model	EAN-No. 4025092*	Capacity WLL kg	Rope advance per double stroke mm	Lever pull at WLL daN	Lever length mm	Rope diameter mm	Weight without rope kg	Rope weight kg/m
Y 08	*051811	800	60	24	800	8.4	7	0.29
Y 16	*051828	1600	60	30	790/1190	11.5	14	0.53
Y 32	*078870	3200	40	50	790/1190	16	21	1

Dimensions model Yaletrac

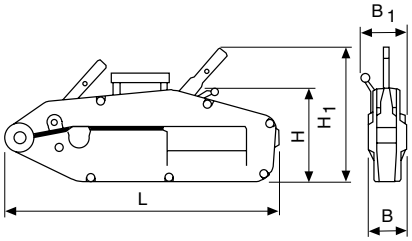
Model	Y 08	Y 16	Y 32
L, mm	430	545	680
H, mm	168	190	230
H1, mm	240	270	330
B, mm	60	72	91
B1, mm	–	97	110



Model Y 08



Model Y 16



Model Y 32









Option:
Yaletrac storage box made from steel plate, approx. 74x26x45 cm



Option:
Eye sling hook with safety latch

INFO

Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.

Complementary products available like cable grips (see page 87), pulley blocks (see page 86) and textile slings (see pages 232-235).



Cable puller model LP

Capacity 500 kg

A practical aid for pulling, lifting, tensioning and lowering in many applications in- and outdoors.
A compact, handy tool – ideal for service and assembly, for workshops and recreation.

Features

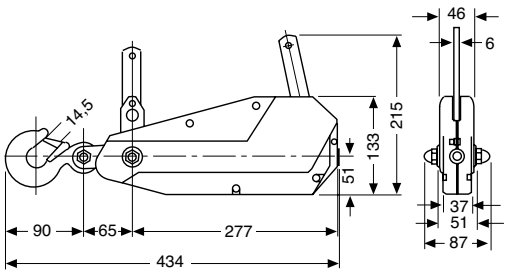
- The stamped steel housing is lightweight and resistant.
- The complete set comprises of a cable puller with anchor bolt and eye sling hook, telescopic operating lever, 10 metres of wire rope, carrying handle and a webbing sling of 1 metre length which can be used as a rigging point.

INFO

Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.

Technical data model LP

Model	EAN-No. 4025092*	Capacity WLL kg	Rope advance per double stroke mm	Lever pull at WLL daN	Lever length mm	Rope diameter mm	Weight without rope and lever kg
LP 500	*051804	500	35	15	600	8.3	4



Cable puller model LM

Pulling force 500 - 1800 daN

The use of aluminium alloy castings provide a lightweight, corrosion resistant unit for pulling and tensioning applications. The double interlocking pawl system ensures safe function, all load bearing shafts are mounted on prelubricated bearings to reduce wear.

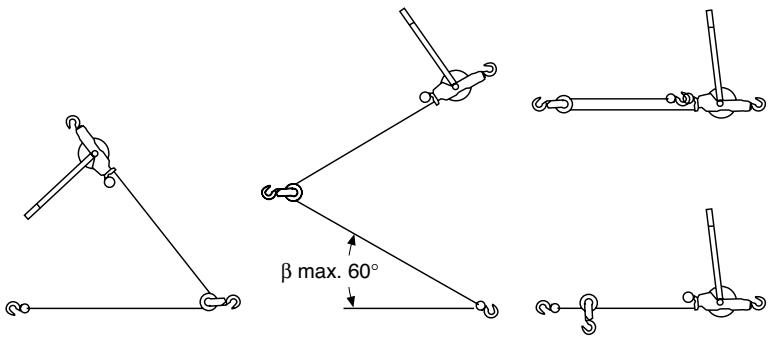
Features

- All springs and shafts are manufactured from stainless steel. The lifting medium is a non-twisting, galvanized, special steel wire rope.
- The hooks are fitted with safety latches and are free to rotate 360°.
- The cable puller LM can be used in single or double legged configuration. In double legged configuration the pulling force is doubled and the lifting height is halved.



Technical data model LM

Model	EAN-No. 4025092*	1 legged design			2 legged design			Weight	Lever length	Hook opening	Rope diameter
		pulling force daN	hook path m	headroom mm	pulling force daN	hook path m	headroom mm	kg	mm	mm	mm
115 DV-B	*077293	500	4.6	550	1000	2.3	700	4.5	420	22	4.8
202 WN-VB	*077309	500	6.0	525	1000	3.0	690	5.2	520	22	4.8
434 WN-VB	*077316	500	9.0	550	1000	4.5	710	5.8	530	22	4.8
S 434 WN-VB	*077491	700	6.0	565	1400	3.0	725	6.0	530	22	5.6
S 404 WN-VB	*077323	900	5.2	575	1800	2.6	720	5.9	635	22	6.4



Rigging configurations - Attention! reduced capacity!

INFO

Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.

The units may only be used for pulling and tensioning. Lifting and lowering of loads is not permitted.



Pulley blocks, hinged, with single steel sheave

Capacity 1000 - 6400 kg

One side of the Yale pulley blocks is hinged and can be opened for easy and quick positioning of the wire rope on the sheave. It can also provide a quick and versatile rigging point or redirect a wire rope.

Features

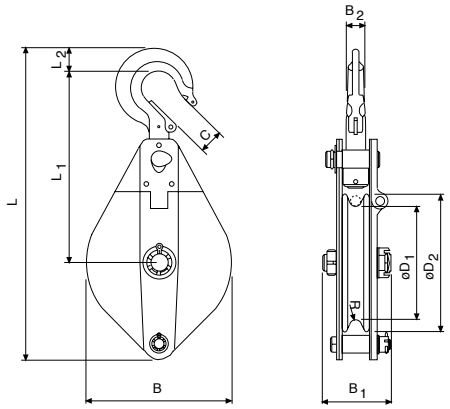
- Swinging the hook in the direction of pull securely locks the pulley block.
- The high quality cast steel sheaves have machined grooves and are fitted with Permaglide® bushes.
- When choosing and classifying pulley blocks, take the "Principles for Rope Drives" DIN 15020 into consideration.

Technical data pulley blocks

Model	EAN-No. 4025092*	Capacity kg	Rope diameter mm	Weight kg
Pulley blocks 1000	*455817	1000	7	3.3
Pulley blocks 2000	*455794	2000	13	8.9
Pulley blocks 3200	*455800	3200	15	15.5
Pulley blocks 6400	*455824	6400	18	26.5

Dimensions pulley blocks

Model	Kloben 1000	Kloben 2000	Kloben 3200	Kloben 6400
B, mm	118	199	230	270
B1, mm	76	92	108	116
B2, mm	17	24	28	35
C, mm	23	27	31	42
Ø D1, mm	85	150	180	210
Ø D2, mm	105	190	220	260
L, mm	305	425	496	655
L1, mm	200	263	295	375
L2, mm	23	30	40	47
R, mm	4	7	9	10



INFO

Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.



Cable grip model LMG

Pulling force 2000 - 5000 daN

The LITTLE MULE® cable grip is a device for gripping, pulling and tensioning uncoated wire ropes, cables and metal rods in all forms up to a tensile strength of 1770 N/mm² but is dependant on the diameter and surface condition.

The parallel jaws provide a firm, non-slip grip without causing damage to the wire rope. A special spring-loaded guide prevents the grip from dropping off the wire rope and allows instant release without jamming.

The model LMG II-X is supplied with grooved jaws and is suitable for wire ropes with a tensile strength of up to 1960 N/mm², but is dependant on the rope diameter and surface condition.



Technical data model LMG

Model	EAN-No. 4025092*	Pulling force daN	For rope diameter mm	Eye opening mm	Weight kg
LMG I	*052214	2000	5 - 15	31 x 44	1.6
LMG II	*052221	3000	8 - 20	31 x 44	2.9
LMG II-X	*052245	3000	8 - 20	31 x 44	2.9
LMG III	*052238	5000	18 - 32	66 x 93	9.5

INFO

Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.

Steel rope for manual and electric winches

All Pfaff-silberblau electric winches are supplied without load bearing mechanisms as standard. To ensure safe operation an optimum rope design, optimum length and associated fastening elements (hooks, shackles) are selected.

We recommend to choose wire ropes on the basis of design, type of construction and strength to suit the intended use and frequency of use. The features of the different types of rope design are as follows:

Breaking load
→ Load bearing capacity, strength of the rope

Bending fatigue + flexibility
→ Service life

External wear
→ Stability of the outer strands

Torsion characteristics
→ Lifting of guided or unguided loads

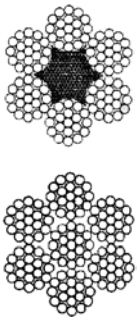
INFO

The use of plastic-coated steel wire ropes with lifting equipment is not permitted.

To meet individual requirements we can provide assistance for the selection of length, diameter and type of the rope, as well as a fastening equipment (thimbles, hooks, rope clips, etc.).

Handling

Our product range includes winches for lifting, pulling and moving of loads. In combination to our winches the following rope types apply:

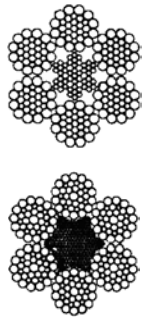


Standard design
6 x 19 + FE 1770 N/mm²

Manual winch rope with fiber inlay 3 - 12 mm Ø

Galvanized or stainless steel in mat. 1.4401
Nominal strength 1570 N/mm² (low breaking load)

- not non-twisting
- crosslay type of construction
- low-tension
- lifting rope for infrequent actuation
- rugged and widely resistant

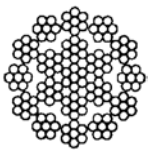


Warrington-Seale
6 x 36 WS + SES (FE) 1770 N/mm²

Manual and electric winch rope in parallel type of construction 10 - 28 mm Ø

Galvanized, with fiber or steel inlays as options

- highly flexible
- high breaking load
- average number of reversed bending stresses

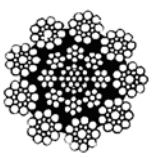


Non-rotating special rope
SE-znk - 1960 N/mm²

Standard rope for electric winches, non-rotating spiral strand rope 3 - 13 mm Ø

Galvanized

- balanced characteristics
- lifting rope for unguided single rope suspension elements
- lifting rope for large lifting heights with multiple rope suspension elements
- not to be used with a swivel
- high strength
- high bending fatigue characteristics



Heavy duty winch rope

Electric winch rope with plastic-coated steel core in double-parallel type of construction 6 - 30 mm Ø

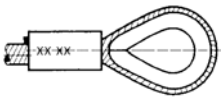
Bright and greased, not non-twisting

- special rope for frequent bending stress reversals and long use
- to be used only with matching rope sheaves and drums
- optimized break loads due to higher fill factor

Rope fasteners/rope connections

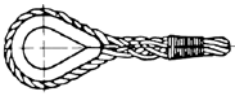
The safe functioning of the rope drive depends to a large extent on the rope fastenings on the winch and on the load. Rope connections and ropes themselves have to be checked at regular intervals by competent persons.
The following rope connections are permissible for use with lifting equipment:

Non-releasable rope connections



Aluminium press-on connection
with thimbles

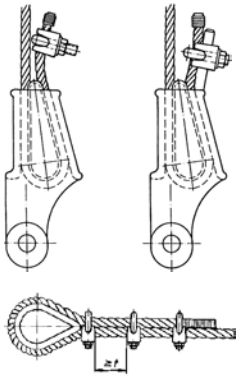
in combination with safety eye hooks or screw shackles provide a simple and safe means of suspending loads.



Splice connections (uncoated)
in combination with thimbles, hooks, etc.

In the most unfavourable situation, splice connections can lead to a reduction in the breaking load of the rope line of up to 40 %.

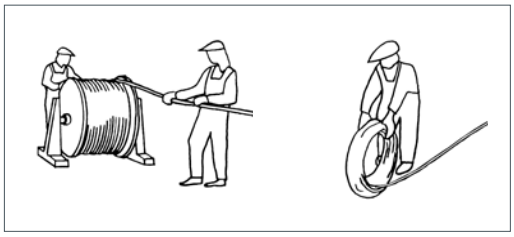
Releasable rope connections



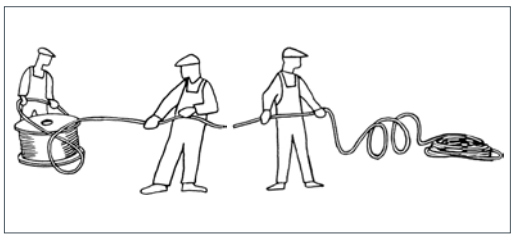
Rope clips

- The end which is not under load must never be fastened to the load-bearing line.
- The length of the unloaded rope end should be at least 20 times the diameter of the rope and not less than 150 mm.
- Clips may no longer be used once the rope has worn by more than 10 %.
- Wire rope clamps may not be used for rope connections for lifting equipment, with the exception of fastening equipment which is manufactured for none-recuring, special purposes!

Handling of ropes – Unwinding



RIGHT



WRONG

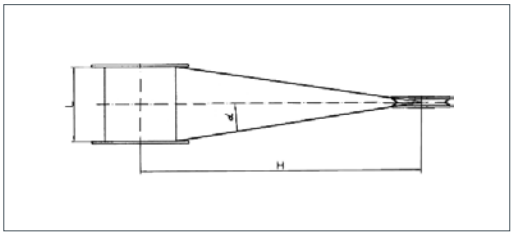
Care of ropes

"Running ropes" in particular will only offer optimum service lives if they are well lubricated. The use of steel ropes without grease will cause them to wear quickly and the load bearing mechanism will have to be replaced early.

INFO

Pressed and splice connections may only be produced by specialist firms or rope manufacturers.

Notes on the installation of winches



The distance between rope drum and sheave must be selected in a way that the maximum deflection angle for the type of rope used is not exceeded:

Standard rope – Deflection angle < 3°
(Minimum distance = Drum width x 10)

Special rope - Deflection angle < 1.5°
(Minimum distance = Drum width x 20)

- To prevent the wire rope from becoming slack when unloaded it should always have an additional rope weight when used with lifting equipment
- Guided loads must be monitored with a slack rope cut-out.
- To prevent the rope from becoming damaged, steel wire ropes must never be guided
  - over edges
  - over deflection radii which are too small or
  - over rope sheaves with grooves which are too small.
- High dynamic forces can lead to sudden breaks or crashes of the load. It is therefore imperative that loads are never brought to a dead stop ("on block") and that loads are never allowed to drop into the rope.



Applications of electric winches

Pfaff-silberblau and Yale winches are versatile tools made to lift, lower, pull or position loads. All winches are characterized by high-quality components and drive motors, irrespective of the design as standard or customized version.
All products are differentiated by long lifetimes and a reliable operational safety.

Capacities between 250 kg up to 7500 kg make them a versatile tool for a great number of applications: general industry, aviation and maritime industries, construction, theatres and studios, distributors, retailing and trade, furniture and department stores as well as passenger elevation.



Königsgalerie Duisburg (Image top left)

A number of BETA winches are used to provide visitors to the Königsgalerie shopping centre with an attractive spectacle suspended up high.
In continuous operation, the individual segments of a crown are moved so as to form the impression of a complete crown at regular intervals following various lifting paths.

Tiblisi Centre of Music and Culture (Image left)

Thanks to the immense load of three redundant DELTA theatre winches, a heavy sound element weighing approx. 35 t is moved above the heads of the audience. Two redundantly arranged gear motors with a brake on each winch are also used to guarantee maximum safety.





Flood defence in Dresden

Ready for action at all times – this is the most important feature of the BETA traversing winch, which, in an emergency in Dresden, ensures that a flood defence barrier is pulled across the road in good time, thus protecting the city against flood waters from the river Elbe.

Electric construction winch model EBW 200

Capacity 200 kg

For easy and quick lifting and lowering of loads on construction sites.

Features

- Extending slewing frame and clips for tube racks up to max. 45 mm, quickly ready for use.
- Operating cable (length: 1 m) and push-button pendant control with emergency stop.
- Standard operating voltage: 230 V, 1-phase, 50 Hz



INFO

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

Technical data model EBW 200

Model	Art.-No.	Capacity kg	Lifting height m	Lifting speed m/min	Weight without rope kg
EBW 200	031100030	200	25	19.2	48.5



Electric winch model RPE

Capacity 250 - 1000 kg

Winches series RPE and RPA are designed explicitly for performance, efficiency and safety and offer many advantages and options. RPE's and RPA's extremely compact, practical cube design and universal rope lead-offs allow individual applications in almost any position and make them powerful aids for lifting and pulling loads.
The winches are designed to DIN 15020, classification 1 Bm/M3, safety regulation DGUV Vorschrift 52 (BGV D8) and, of course, the EC machinery directives.

Every winch is factory tested with overload.
The units are supplied with a test certificate showing the unit's serial-no. and an operating instructions manual which contains a manufacturer's declaration.

Features

- Compact dimensions due to internal brake motor.
- Voltage 400 V/230 V, 3-phase, 50 Hz, protected to IP 54, insulation class F.
- Adjustable slip clutch to protect the winch from overloading standard for model RPE 10-6.
- Spur gear transmission with helical first gear ensures smooth motion. Lubricated by grease and can, therefore, be used in any position.
- Spring pressure disc brake incorporated in the motor holds the load secure even in the event of a power failure.
- Plain rope drum 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.
- Direct control or 42 V low voltage control (incl. push-button with emergency-stop and 2 m control cable).



Rope attachment



Spring pressure disc brake



Brake motor

INFO

When selecting the length of the rope please bear in mind that a minimum of 2-3 windings have to remain on the drum.

Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.

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 42 V low voltage control).
- Single-phase A.C. motor 230 V, 50 Hz, 42 V low voltage control.
- Slack rope switch to automatically stop the winch when rope tension eases e.g. when the load touches down (only in combination with low voltage control).
- Frequency converter for stepless speed control.
- Adjustable slip clutch to protect the winch from overloading for models RPE 2-13, RPE 5-6 and RPE 5-12.
- Special design according to DGUV Vorschrift 17 (BGV C1) for theater stage applications available.
- Radio remote control
- Other operating voltages
- Stainless brake



INFO

Special design for wind energy as well as customised constructions on request!

Also available as zinc-plated version on request!


Single-phase A.C. motor


Geared limit switches


Gearbox with slip clutch


Different drum designs



Technical data model RPE

Model	EAN-No. 4025092*	Capacity kg	Lifting speed 1st layer m/min	Lifting speed top layer m/min	Rope diameter mm	Motor kW	ED %	Useable rope length 1st layer m	Useable rope length top layer m	Weight without rope kg
RPE 2-13	*071796	250	10.2	13.2	4	0.55	40	11.2	54.5	31.8
RPE 5-6	*071857	500	4.6	6.6	6	0.55	40	7.0	38.8	32.8
RPE 5-12	*071918	500	8.7	12.6	6	1.1	40	11.0	55.4	41.0
RPE 9-6	*071956	990	5.1	6.5	8	1.1	40	10.2	37.4	76.0
RPE 10-6 [1]	*072014	1000	5.1	6.5	8	1.1	40	10.2	37.4	76.9

[1] With slip clutch

Plain drum (longer useable rope length)

Model	Capacity top layer kg	Drum size	Useable rope length max. m
RPE 2-13 L	250	2	80
RPE 5-6 L	500	2	58
RPE 9-6/10-6 L	990/1000	2	56
RPE 2-13 XL	250	3	200
RPE 5-6 XL	500	3	140
RPE 5-12 XL	500	3	140
RPE 9-6/10-6 XL	990/1000	3	100

Grooved drum (recommended for single layer operation)

Model	Capacity top layer kg	Drum size	Useable rope length 1st layer m	Useable rope length max. m
RPE 2-13 R	250	1	8.8	43
RPE 5-6 R	500	1	6.2	33
RPE 9-6/10-6 R	990/1000	1	8.2	30
RPE 2-13 LR	250	2	13.3	64
RPE 5-6 LR	500	2	9.5	49
RPE 5-12 LR	500	2	9.5	49
RPE 9-6/10-6 LR	990/1000	2	12.9	47
RPE 2-13 XLR	250	3	35.3	165
RPE 5-6 XLR	500	3	25.7	128
RPE 5-12 XLR	500	3	25.7	128
RPE 9-6/10-6 XLR	990/1000	3	25.2	89



INFO

When selecting the length of the rope please bear in mind that a minimum of 2-3 windings have to remain on the drum.

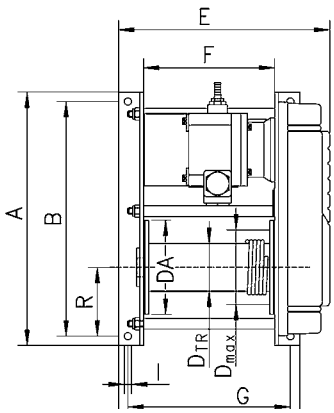
Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.

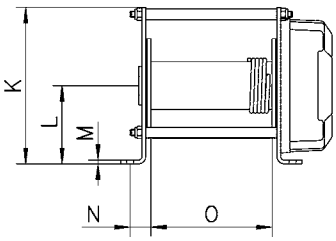
Winches with drums for longer useable rope lengths have partly other dimensions than those shown on page 95.

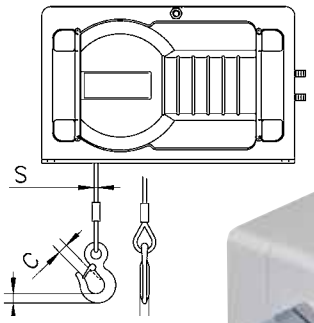
Dimensions model RPE (400 V direct control, standard drum)

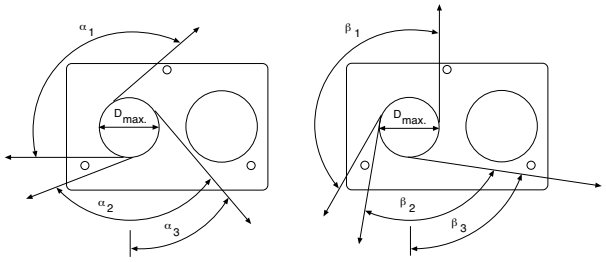
Model	RPE 2-13	RPE 5-6	RPE 5-12	RPE 9-6	RPE 10-6
A, mm	405	405	405	525	525
B, mm	375	375	375	485	485
C, mm	18	18	18	25	25
DTR, mm	76	76	76	108	108
D max, mm	104	118	118	148	148
DA, mm	150	150	150	180	180
E, mm	338	338	428	450	450
F, mm	210	210	300	270	270
G, mm	260	260	350	345	345
H, mm	290	290	380	380	380
I, mm	11	11	11	13	13
K, mm	250	250	250	340	340
L, mm	125	125	125	170	170
M, mm	6	6	6	10	10
N, mm	33	33	33	47.5	47.5
O, mm	194	194	284	250	250
P, mm	19	19	19	24	24
Q, mm	13	13	13	19	19
R, mm	125	125	125	170	170
S, mm	4	6	6	8	8
α 1, °	130	130	130	145	145
α 2, °	110	110	110	125	125
α 3, °	40	40	40	50	50
β 1, °	150	150	150	155	155
β 2, °	90	90	90	100	100
β 3, °	80	80	80	83	83

Dimensions for s with optional features are available on request!









Rope lead-offs for electric winch RPE





Pneumatic winch model RPA

Capacity 250 - 500 kg

The conception is in accordance with the design of the model RPE.
With 100 % duty rating and an unlimited number of starts the model RPA is suitable for heavy duty applications. It is insusceptible to contamination, humidity and aggressive mediums from the outside.

Features

- Robust rotating piston motor with high starting torque, designed for operating pressures 4 to 6 bar.
- Spring pressure disc brake incorporated in the motor holds the load secure even in the event of an air failure.
- Sensitive control by means of direct acting valves in the control switch.

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.
- Control including 2.5 m hose and air coupler.
- Maintenance unit for main air supply pipe (pressure regulator, manometer, lubricator and support).



Rope attachment



Different drum designs

INFO

To ensure faultless operation the compressed air supply must be filtered and oiled!

Available in corrosion proof version on request!

Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.

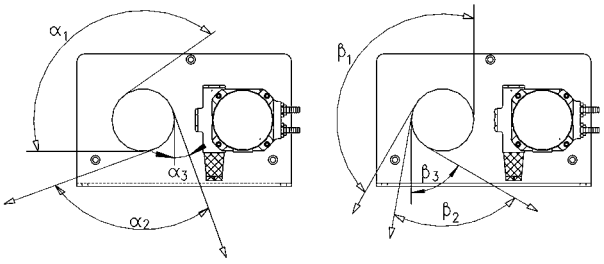
Technical data model RPA

Model	EAN-No. 4025092*	Capacity daN	Lifting speed with rated load [1] m/min	Lifting speed without load [1] m/min	Lowering speed with rated load [1] m/min	Rope diameter mm	Motor kW	Useable rope length top layer m	Weight without rope kg
RPA 2-13	*072397	250	12.5	20	22	4	0.55	54.5	36.7
RPA 5-6	*072458	500	6.2	10	11	6	0.55	38.8	36.7

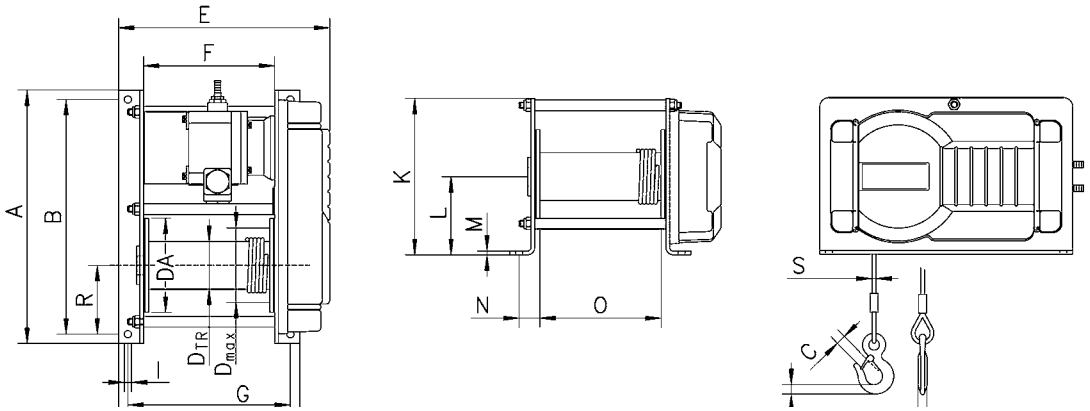
[1] Values in the top layer for 6 bar, air consumption 0.75 m³/min

Dimensions model RPA

Model	RPA 2-13	RPA 5-6
A, mm	405	405
B, mm	375	375
C, mm	18	18
DTR, mm	76	76
Dmax, mm	104	118
DA, mm	150	150
E, mm	336	336
F, mm	210	210
G, mm	260	260
H, mm	290	290
I, mm	11	11
K, mm	250	250
L, mm	125	125
M, mm	6	6
N, mm	33	33
O, mm	194	194
P, mm	19	19
Q, mm	13	13
R, mm	125	125
S, mm	4	6
α 1, °	130	130
α 2, °	90	90
α 3, °	20	20
β 1, °	150	150
β 2, °	70	70
β 3, °	60	60



Rope lead-offs for pneumatic rope winch RPA



INFO

When selecting the length of the rope please bear in mind that a minimum of 2-3 windings have to remain on the drum.





Electric winch model BETA SL

Capacity 250 - 2000 kg

Electric winches of the BETA SL 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

- 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 - 420 V, 50 Hz or 440 - 460 V, 60 Hz.
  Motor type of enclosure IP 55, duty factor 40 % ED.
- Electronic overload protection from 1000 kg 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.
- Contactor control (incl. gear limit switch).
- Complies DGUV Vorschrift 54 (BGV D8).

Also available at short notice with the following options:



Optional: Frequency converter
(For infinitely variable speed regulation)

- **Rope pressure roll**
  Supports the tidy coiling of the rope, especially with high lifting heights.
- **Slack rope switch**
  Prevents unwanted uncoiling if the wire rope is not under load.
- **Control switch with 3 m control cable**
  Greater freedom of movement for the user, better view of the working area of the wire rope winch.
- **Frequency converter (SL 1 - SL 3)**
  Infinitely variable rope speed controlled via potentiometer, control range 20-87 Hz (SL 3 = 20-50 Hz).
  The frequency converter allows loads to be moved gently and sensitively.

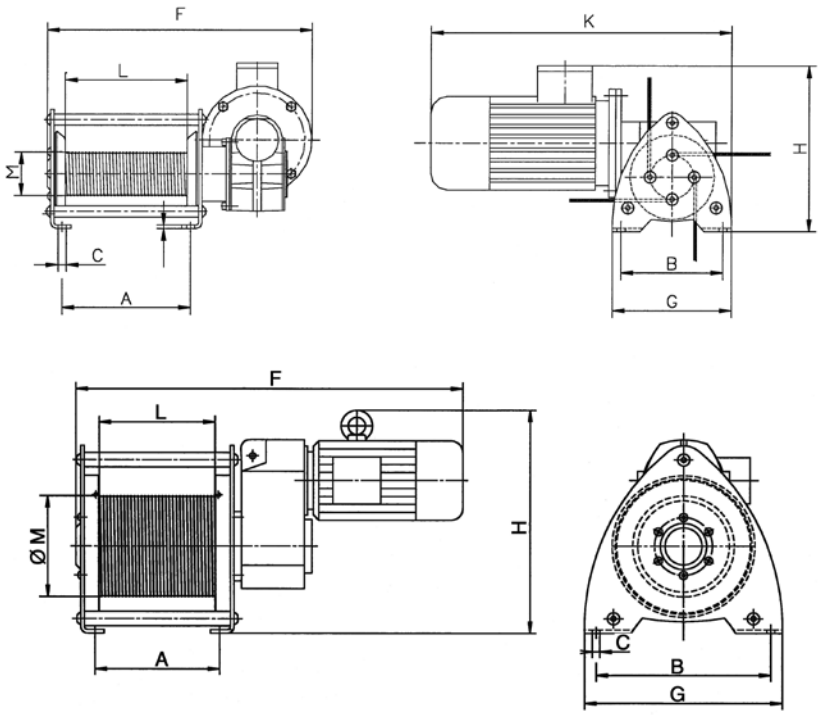
Technical data model BETA SL

EAN-No. 4053981** 4050939***	Size	Capacity 1st layer kg	Lifting speed 1st layer m/min	Rope diameter [3] mm	Motor kW	Classification FEM/ISO	Useable rope length 1st layer m/min	Useable rope length top layer m/min
**011912	SL 0	250	2.5	4	0.25	1Bm/M3	7	46.7
***050498	SL 0	250	4.7	4	0.37	1Bm/M3	7	46.7
**011929	SL 1	500	6.8	6	0.75	1Am/M4	6.7	48.9
**011936	SL 1	630	6.8	6	0.75	1Bm/M3	6.7	48.9
**011943	SL 2	980	6.0	9	1.1	1Am/M4	11	77.5
**011950	SL 2	1250	6.0	9	1.1	1Am/M4	11	77.5
**011967	SL 3	2000	6.8	12	2.2	1Bm/M3	10	74.5

[3] recommended rope: DIN 3069 FE-znk 1960 sZ-spa

Dimensions model BETA SL

EAN-No.	**011912	***050498	**011929	**011936	**011943	**011950	**011967
A, mm	185	185	215	215	270	270	320
B, mm	170	170	300	300	400	400	510
Ø C, mm	12	12	13.5	13.5	18	18	22
F, mm	389	389	740	750	920	930	1070
G, mm	200	200	340	340	465	465	570
H, mm	241	241	340	345	475	480	614
K, mm	432	–	–	–	–	–	–
L, mm	180	180	200	200	250	250	300
Ø M, mm	64	64	86	86	175	175	175



INFO

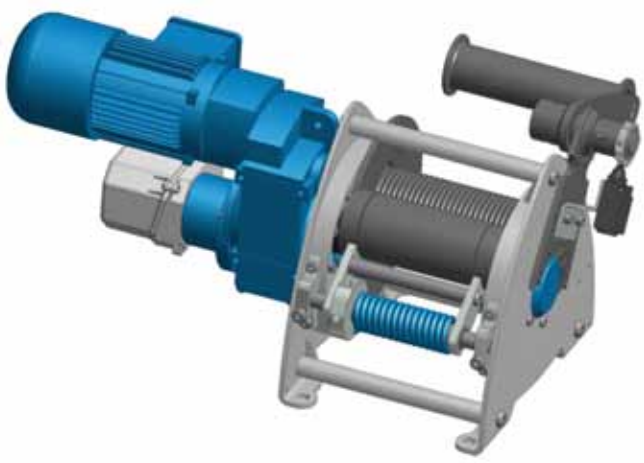
Additional options and an adaptation for special applications are offered exclusively for model BETA EL (see page 100).

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



Application oriented winch solutions





Electric winch model BETA EL

Capacity 320 - 7500 kg

The BETA EL electric wire rope winches are used for lifting, pulling and positioning loads under difficult conditions.
All the models are constructed on a modular basis and comprise various options for maximum flexibility in putting together an individual solution.
The application of high-quality components and gear motors ensure safety and a long service life.

- 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 - 420 V, 50 Hz oder 440 - 460 V, 60 Hz.
  Motor type of enclosure IP 55, duty factor 40 % ED.
- Electronic overload protection from 1000 kg lifting load as standard.
- The maintenance-free, oil lubricated gearbox has quiet running characteristics due to milled and ground gears with helical teeth.
- Variable rope lead-in due to two rope attachment points (left and right).
- Increased operating safety due to 42 V contactor control.

Equipment options

- Various drum designs e.g. extended for a larger rope capacity, special rope drums for operation with several ropes.
- Rope pressure rollers to prevent the unloaded rope from jumping off the drum.
- Adjustable gear limit switch for limiting the rope path in both directions.
- Slack rope switch for automatically stopping the winch when the rope tension eases or when the load is set down.
- Frequency inverter for infinitely variable speed control.
- External operation via cable/radio
- Other operating voltages
- Other motor protection
- Absolute or incremental encoder
- Special preservation
- In compliance with DGUV Vorschrift 17 (BGV C1) also available for application on stages and in studios.

Available in explosion proof version (please see page 464).

Sheave block for rope guidance, equipped with ball bearings model DSRB S



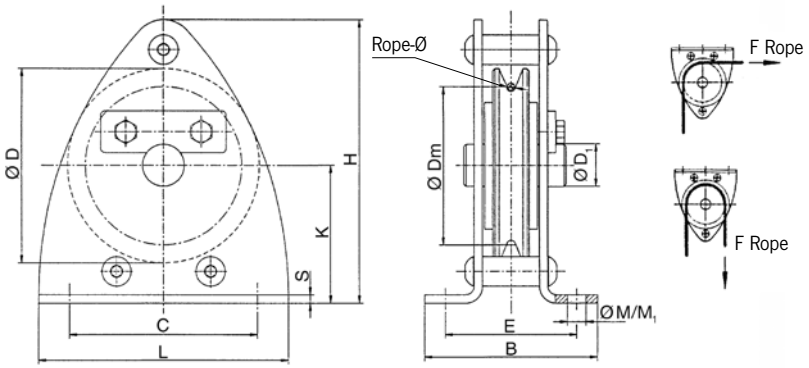
Technical data model DSRB S

Model	EAN-No. 4025092* 4050939***	Classification FEM/ISO	Pulling force in kg at deflection 90°	Pulling force in kg at deflection 180°	Rope diameter mm
DSRB S 90/4	***066062	2m/M5	700	500	4
DSRB S 145/5	***065812	4m/M6	1100	800	5
DSRB S 145/6	*994811	2m/M5	1100	800	6
DSRB S 185/8	***065843	2m/M5	2300	1630	8
DSRB S 185/9	***065850	1Am/M4	2300	1630	9
DSRB S 270/12	***065980	2m/M5	2500	1800	12
DSRB S 325/14	***066055	2m/M5	4500	3200	14
DSRB S 400/16	***066130	3m/M6	5000	3800	16
DSRB S 400/18	***065720	2m/M5	5000	3800	18
DSRB S 490/20	***065751	3m/M6	8000	6000	20

Dimensions model DSRB S

Model	DSRB S 90/4	DSRB S 145/5	DSRB S 145/6	DSRB S 185/8	DSRB S 185/9	DSRB S 270/12	DSRB S 325/14	DSRB S 400/16	DSRB S 400/18	DSRB S 490/20
EAN-No.	***066062	***065812	*994811	***065843	***065850	***065980	***066055	***066130	***065720	***065751
B, mm	85	125	125	138	138	191	260	302	302	313
C, mm	90	160	160	195	195	290	350	430	430	580
Ø D, mm	90	145	145	185	185	270	325	400	400	490
Ø D1, mm	20	25	25	30	30	40	50	50	50	65
Ø Dm, mm	80	125	125	160	162	246	297	368	364	450
E, mm	62	88	88	106	106	138	180	212	212	220
H, mm	134	224	224	273	273	407	490	612	612	694
K, mm	65	110	110	135	135	202	242	310	310	340
L, mm	120	200	200	245	245	360	440	530	530	650
Ø M/M1, mm	9/9	11.5/13	11.5/13	13.5/15	13.5/15	18/20	22/25	26/30	26/30	34/40
S, mm	4	6	6	8	8	10	12	15	15	16

Available in explosion proof version (please see page 465).



Mobile endless winch up to 300 kg!



Endless winch, mobile model YaleMtrac

New!

Capacity 100 - 300 kg

The new compact and light weight mobile Yale-Endless winch, model YaleMtrac combines modern industry design with technical innovation. During the development stage, focus was set on simple and safe operation for mobile applications. The winch is capable of lifting loads up to 300 kg over long distances at high speed.
The highlight of the YaleMtrac winch is the increased efficiency as it can be operated bi-directionally.
The Yale Mtrac winch can lift, lower and pull loads at rated capacity in either direction. Depending on the application unnecessary waiting time to return the load hook to its start position may be eliminated.
A wide range of ropes and accessories (eye sling hooks, self-locking hooks, shackles) ensure that YaleMtrac winch can be used in many different applications.

Features

- The robust, precisely machined housing of die-cast aluminium with impact resistant plastic cover ensures a low deadweight and outstanding rigidity.
- The externally adjustable slip clutch is designed to guarantee a permanent connection between the load and the brake.
- High speed versions available to increase efficiency for high lifts.
- Easy access to all wearing parts due to modular design.
- The standard, oil bath lubricated and case hardened gearbox has a helical gearing for particularly smooth running and enhanced lifetime.
- Drive sheave made of specially hardened steel to minimize wear of the components.
- The standard version is supplied with an eye sling hook with safety latch.
- Multiple fixing points in the housing allow the YaleMtrac to be suspended in various positions.
- Classification: 1Bm/M3 acc. to FEM/ISO.
- Motor protected to IP 55 (acc. to VDE 0530), against ingress of dust and water jets.
- Standard operating voltage: Euro-voltage: 400 V, 3-phase, 50 Hz and 230 V, 1-phase, 50 Hz.
- Rubber buffers ensure no surface contact damage.
- Push-button pendant control, IP 65 against ingress of dust and water jets from all directions.
- Limit switch for upward and downward travel.

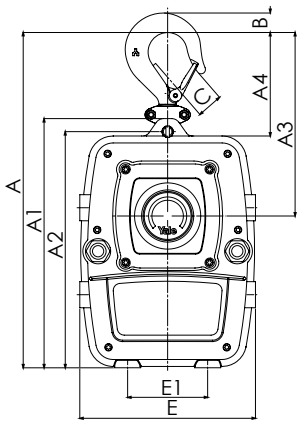
Options

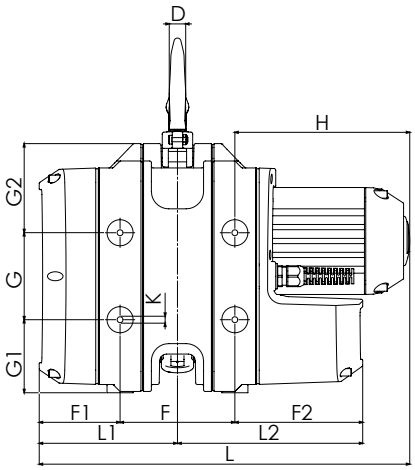
- Radio remote control with high range.
- Other operating voltages on request.
- Non-rotating steel wire ropes.
- Manual and electric trolleys.
- Frequency converter
- Transport and carrying frames for various applications.
- Counters for operating hours.

Technical data model YaleMtrac

Model	Capacity kg	Lifting speed m/min	Rope diameter mm	Motor kW	Operating voltage
YMT 1-15	100	15	6.5	0.25	230 V/1 Ph/50 Hz
YMT 3-5	300	5	6.5	0.25	230 V/1 Ph/50 Hz
YMTF 0,6-30	66	30/7.5	6.5	0.37	400 V/3 Ph/50 Hz
YMT 1-30	100	30	6.5	0.55	400 V/3 Ph/50 Hz
YMTF 2-10	200	10/2.5	6.5	0.37	400 V/3 Ph/50 Hz
YMT 3-10	300	10	6.5	0.55	400 V/3 Ph/50 Hz

Dimensions	
A, mm	385
A1, mm	287
A2, mm	272
A3, mm	221
A4, mm	119
B, mm	22
C, mm	29
D, mm	19
E, mm	202
E1, mm	92
F, mm	132
F1, mm	93
F2, mm	147
G, mm	100
G1, mm	84
G2, mm	103
H, mm	201
K, mm	M8
L, mm	426
L1, mm	159
L2, mm	147





INFO

Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.





Option:

Equipment based on transport frame and/or ergonomic handles facilitate handling and transport.



Endless winch for the transportation of goods- and personnel model YaleMtrac

With the new YaleMtrac, the rope is driven through the winch without the necessity of having to collect the rope on a reel etc. This enables unlimited lifting heights or traction lengths. Unlike a drum winch, the wire rope always enters the winch at the same place, thus eliminating undesirable hook movement across the drum and ensures rope speed and pulling force remain constant.

Endless winches can be used for various applications, wherever loads have to be lifted or pulled, e.g. for the use on waggons, mobile staffolds, or wind power stations.

Features

- The robust, precisely machined housing of die-cast aluminium ensures a low deadweight and outstanding rigidity. Standardised components feature easy access to all wearing parts.
- Drive sheave and pressure rollers made of specially hardened steel guarantee low wear of the components.
- Limit switch for lifting force as standard (only for winches for passenger elevation).
- The winch can be suspended from a central suspension point by means of a load pin. As an alternative, attachment points in the corners of the housing are available for flexible attachment of the winch with screws or pins.
- Classification 1 Bm/M3 (1 Cm/M2 for 18 m/min) acc. to FEM/ISO.
- All motors protected to IP 55 (acc. to VDE 0530) as standard, against ingress of dust and water jets.
- Standard operating voltage: Euro-voltage: 400 V, 3-phase, 50 Hz alternatively 460 V, 3-phase, 60 Hz.
- 24 V control voltage (except material transport control, stationary application – 42 V).
- Phase monitoring (except material transport control, stationary application) for an easy and safe connection to changing power supply.
- Hoist motor with thermal overload protection as standard for increased lifetime.
- Approved for passenger elevation applications in accordance with EN 1808.

INFO

Approved for passenger elevation applications in accordance with EN 1808.

Options

- Other operating voltages
- Radio remote control
- Double control for several winches.
- Limit switch for upward and downward travel.
- Counters for operating hours and number of starts
- Catching devices (overspeed or inclined position tripping,required for passenger elevation applications).
- Adaptor for fitting with shackle.
- Ropes for endless winches and catching device
- Overload protection (included in the scope of supply for passenger elevation winches).
- Storage reel for the unloaded rope.

Technical data model YaleMtrac Winches for material transport

Model	EAN-No. 4025092* for stationary application [1]	EAN-No. 4025092* for mobile application [2]	Capacity kg	Lifting speed m/min	Rope diameter mm	Motor kW	Weight for stationary application [1] kg	Weight for mobile application [2] kg
YMT 5-9-M8	*668569	*668644	500	9	8.4	1.1	54	62
YMT 5-18-M8	*668576	*668651	500	18	8.4	2.0	54	62
YMT 6-9-M8	*668583	*668668	600	9	8.4	1.1	55	63
YMT 6-18-M8	*668590	*668675	600	18	8.4	2.0	55	63
YMT 8-9-M8	*668606	*668682	800	9	8.4	1.8	55	63
YMT 8-18-M8	*668613	*668699	800	18	8.4	3.6	56	64
YMTF 8-18-M8	–	–	800	18/9	8.4	2.0/3.6	58	66
YMT 10-9-M9	*668620	*668712	980	9	9.0	1.8	55	63
YMT 10-18-M9	*668637	*668705	980	18	9.0	3.6	56	64
YMTF 10-18-M9	–	–	980	18/9	9.0	2.0/3.6	58	66

[1] incl. control voltage 400 V, 3-phase, 50 Hz, directly attached to the winch, pendant control with emergency-stop (length of control cable 3 m)
[2] incl. control cabinet with integrated CE-connector, pendant control with emergency-stop (length of control cable 3 m)

Contactor control for material transport applications (stationary application)

- Control cabinet (260 x 124 x 95 mm)
- Protected to IP 55 (acc. to EN 60 529)
- Temperature range -20 °C up to +40 °C
- Increased operating safety through 42 V control voltage
- Master control relay/emergency-stop contactor as standard for a high degree of safety.
- Easily accessible strip terminal
- Cable entry point by cable sleeves
- Motor connected with control cable



Hoist motor & brake

Special motor with classification 1 Bm/M3 (1 Cm/M2 for 18 m/min) according to FEM/ISO 4301-1, protected to IP 55.



Flexible attachment points

Central load pin suspension or alternatively screws or pins on four corners.

Control cabinet for material transport applications (mobile application)

- Control cabinet (300 x 400 x 150 mm)
- Protected to IP 55 (acc. to EN 60 529)
- Temperature range -20 °C up to +40 °C
- Increased operating safety through 24 V control voltage
- Master control relay/emergency-stop contactor as standard for a high degree of safety.
- Phase-sequence relay for monitoring the direction of rotation
- Control transformer according to EN 61558-2, input and output separately fused.
- Warning buzzer for signalling an overload
- Easily accessible strip terminal
- Cable entry point by screwed cable glands
- Motor connected with connector plug
- Power supply connection with phase-changing switch
- Connection for UP emergency limit switch provided



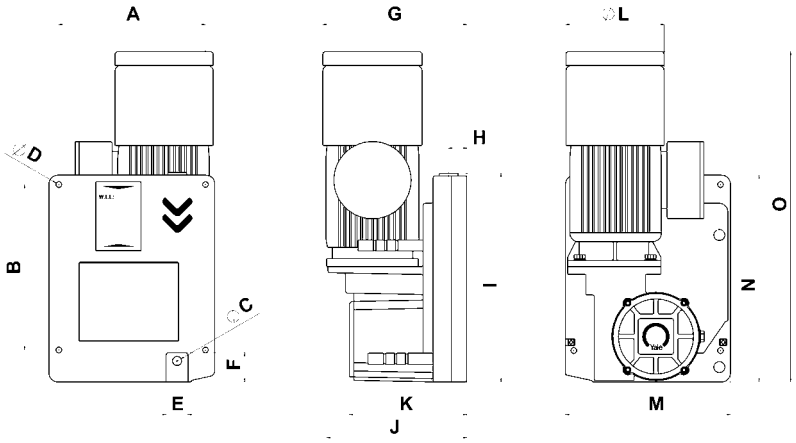


Technical data model YaleMtrac Winches for passenger elevation according to EN 1808

Model	EAN-No. 4025092*	Capacity kg	Lifting speed m/min	Rope diameter mm	Motor kW	Weight without rope incl. control cabinet kg
YMT 5-9-P8	*668729	500	9	8.4	1.1	72
YMT 5-18-P8	*668736	500	18	8.4	2.0	72
YMT 6-9-P8	*668743	600	9	8.4	1.1	73
YMT 6-18-P8	*668750	600	18	8.4	2.0	73
YMT 8-9-P9	*668767	800	9	9.0	1.8	73
YMT 8-18-P9	*668774	800	18	9.0	3.6	74
YMTF 8-18-P9	*911313	800	18/9	9.0	2.0/3.6	76
YMT 10-9-P10	*668781	1000	9	10.2	1.8	73
YMT 10-18-P10	*668798	1000	18	10.2	3.6	74
YMTF 10-18-P10	*911320	1000	18/9	10.2	2.0/3.6	76

Incl. control cabinet with integrated CE-connector
Incl. pendant control with emergency-stop (length of control cable 3 m)
Option: Emergency-stop and UP/DOWN buttons on control cabinet for controlling the winch

Dimensions	
A, mm	266
B, mm	300
Ø C, mm	16.5
Ø D, mm	10.5
E, mm	40
F, mm	57
G, mm	261
H, mm	34
I, mm	375
J, mm	261
K, mm	220
Ø L, mm	180
M, mm	301
N, mm	375
O, mm	599



Options

- Control cabinet for synchronous control of two winches
- Supporting feet and arms for fixing the control cabinet



Control cabinet for passenger elevation applications

- Control cabinet (300 x 400 x 150 mm)
- Protected to IP 55 (acc. to EN 60 529)
- Temperature range - 20 °C up to + 40 °C
- Increased operating safety through 24 V control voltage
- Master control relay/emergency-stop contactor as standard for a high degree of safety.
- Phase-sequence relay for monitoring the direction of rotation
- Control transformer according to EN 61558-2, input and output separately fused.
- Warning buzzer for signalling an overload
- Easily accessible strip terminal
- Cable entry point by screwed cable glands
- Motor connected with connector plug
- Power supply connection with phase-changing switch
- Connection for UP emergency limit switch provided

Safety for passenger elevation

In accordance with the requirements of EN 1808, each winch used for passenger elevation must feature a safety system on an independent safety rope. The product offering provides two different safety catching devices for two common applications.

Both types have been approved for passenger elevation and comply with standard EN 1808 "Safety requirements on suspended access equipment". In addition, the catching devices have been approved.



Safety hand wheel

In an emergency (power failure), upward movement with released brake is possible by means of the hand wheel included in the supply (standard delivery scope only for winches for passenger elevation application).



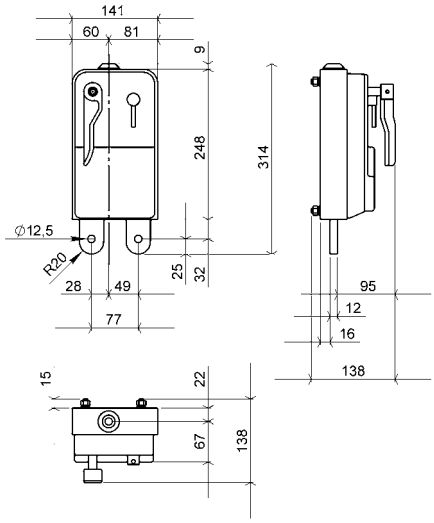
Safety lowering mechanism

In the event of a power failure, the electro-mechanical brake can be released manually in order to ensure safe and controlled lowering of the load. Safe lowering is guaranteed by the integrated centrifugal force brake.

Overspeed safety catching device (YOSL)

This overspeed catching device is automatically tripped when the lowering speed exceeds 30 m/min (0.5 m/s). The integrated clamping jaw mechanism of hardened steel stops the lowering movement of the system within a few centimetres.





Model	EAN-No. 4025092*	Capacity kg	For rope diameter mm
YOSL6-8	*582803	500	8.4
YOSL6-8	*582803	600	8.4
YOSL8-9	*582742	800	9.0
YOSL10-10	*582766	1000	10.2

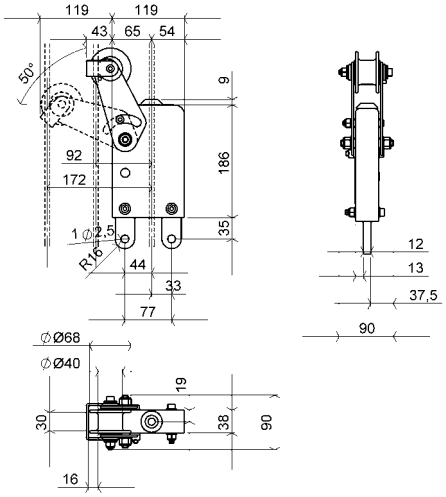
Inclined position safety catching device (YISL)

This inclined position catching device is automatically tripped when the angle of the rope or the platform exceeds 5°.

The integrated clamping jaw mechanism holds the rope and immediately stops the movement of the system.

- Robust sheet-steel enclosure
- Clamping mechanism of hardened steel
- Attachment with two screws (M12) or load pins (12 mm)





Model	EAN-No. 4025092*	Capacity kg	For rope diameter mm
YISL6-8	*582827	500	8.4
YISL6-8	*582827	600	8.4
YISL8-9	*582759	800	9.0
YISL10-10	*582797	1000	10.2



Safety crank, zinc-plated Siku

- With one-sided braking effect.
- The load is held safely at every height.
- With folding handle.



Ratchet pawl kit, zinc-plated
for crank execution
Siku and Raku
P13 EAN-No. 4025092 655811
P14 EAN-No. 4053981 827698

Technical data safety crank Siku

Model	EAN-No. 4025092* 4053981**	Capacity kg	Length of crank mm	Square drive mm	Drive torque max. Nm
Siku 1,5	**022703	1500	200	14	60
Siku 3	*562553	3000	250	14	60
Siku 5	*562553	5000	250	14	60
Siku 10	*993036	10000	300	17	120
Pfaff design					
Siku 1,5	*441469	1500	250	17	60
Siku 3	*441469	3000	250	17	60
Siku 5	*441469	5000	250	17	60



Safety ratchet crank, zinc-plated Raku

- Lifting or lowering movement adjustable by turning a lever.
- The load is held safely at every height.
- With folding handle.

Technical data safety ratchet crank Raku

Model	EAN-No. 4025092* 4053981**	Capacity kg	Length of crank mm	Square drive mm	Drive torque max. Nm
Raku 1,5	**022697	1500	200	14	60
Raku 3	*915649	3000	250	14	60
Raku 5	*915649	5000	250	14	60
Raku 10	*997492	10000	300	17	120
Pfaff design					
Raku 1,5	*655743	1500	250	17	60
Raku 3	*655743	3000	250	17	60
Raku 5	*655743	5000	250	17	60

Spring loaded safety crank Sifeku



- Without pawl.
- Silent
- Recoil proof
- Maintenance-free
- Enclosed housing
- Weather and temperature resistant.
- Braking effect at both ends.
- The load is held safely at every height, in the pushing and pulling direction.
- Approved by the TÜV as an independent crank.
- With folding handle.

Technical data spring loaded safety crank Sifeku

Model	EAN-No. 4025092*	Capacity kg	Length of crank mm	Square drive mm	Drive torque max. Nm
Sifeku 1,5	*562522	1500	250	14	60
Sifeku 3	*562522	3000	250	14	60
Sifeku 5	*562522	5000	250	14	60
Pfaff design					
Sifeku 1,5	*984041	1500	250	17	60
Sifeku 3	*984041	3000	250	17	60
Sifeku 5	*984041	5000	250	17	60

Crank with folding handle for model ZWW-L (only optional)



- Crank with collapsible handle, length of crank = 200 mm for ZWW-L 250 and 1000 EAN-No. 4025092 652025
- Crank with collapsible handle, length of crank = 250 mm for ZWW-L 500 EAN-No. 4025092 651882

INFO

For ordering the crank of the models STW-F, STW-V, STW-FvB, KHB and SCH-W it takes note to specify the manufacture year, capacity and the dimension of the square!

Safety spring-lock with plug crank Sifespe



- Plug crank removable
- No ratchet pawls in use
- Silent
- Maintenance-free
- Housing
- Weather and temperature resistant
- Braking effect at both ends
- The load is held safely at every height
- Handle not folding

Arm length 250 mm

- Square drive 14 mm or 17 mm

Safety spring-lock EAN-No. 4053981 022680
Plug crank EAN-No. 4053981 001968



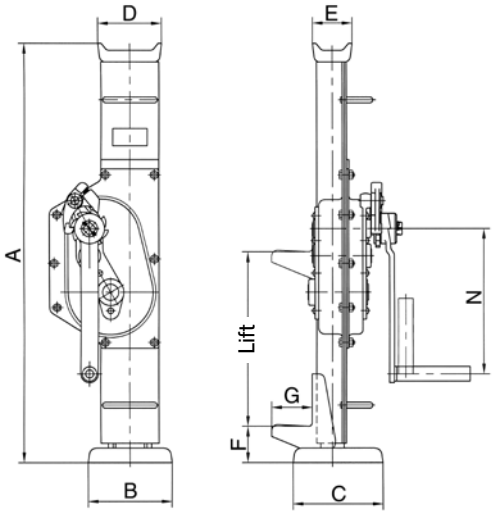
Steel jack acc. to DIN 7355 model SJ

Capacity 1500 - 10000 kg

Mechanical steel jacks can basically be used to lift almost all kinds of loads in maintenance and repair, ship building, construction as well as agriculture.

Features

- The precisely machined gear box with optimal gear ratio ensures a minimum of effort and smooth operation.
- The load is supported either on the claw or the head of the steel jack.
- By turning the operating lever the jack moves smoothly and conveniently up and down along the rack.
- The self-locking, anti-kickback operating lever reduces the risk of injuries. The handle can be tilted for use in confined spaces.
- The load is held securely in any position. Inside the load brake the axial brake pressure is generated by the load itself, thus, it is proportional to the size of the load.
- No reduction of capacity on the claw.



Technical data model SJ Siku

Model	EAN-No. 4025092* **Siku**	Capacity kg	Height A mm	Height of lift [1] mm	Hand effort at WLL daN	Weight kg
SJ 15	*080897	1500	725	360	28	17
SJ 30	*079877	3000	735	360	28	20
SJ 50	*079884	5000	730	350	28	27
SJ 100	*080903	10000	800	410	56	43

[1] Height of lift = Height + Lift

Dimensions model SJ

Model	SJ 15	SJ 30	SJ 50	SJ 100
A, mm	725	735	730	800
B, mm	164	200	190	252
C mm	140	140	170	170
D, mm	76	83	108	124
E, mm	38	38	52	65
F, mm	70	70	80	85
G, mm	60	65	71	86
N, mm	225	249	275	300

Steel jacks acc. to DIN 7355 with fixed lifting claw model STW-F

Capacity 1500 - 10000 kg

Steel jacks are traditional hoisting equipment for universal application in the forest and agricultural sector, in the industrial sector for assembly activities and many other fields of application.

Features

- The robust steel design and a toothed rack of solid material increase the service life of the jack.
- Low wear owing to hardened gearing parts and precisely machined teething.
- The precisely machined gears with a high degree of efficiency guarantees low crank forces.
- The load is supported either on the claw or the head of the steel jack.
- Robust base plate for a high level of stability.
- No reduction of capacity on the claw.



Model STW-F
with fixed lifting claw and Sifeku

Technical data model STW-F Siku

Model	EAN-No. 4025092* **Siku**	Capacity kg	Height A mm	Height of lift [1] mm	Hand effort at WLL daN	Weight kg
STW-F 15	*994132	1500	720	350	28	12
STW-F 30	*440875	3000	720	350	28	21
STW-F 50	*996334	5000	720	300	28	26
STW-F 100	*562690	10000	792	300	40	42

[1] Height of lift = Height + Lift

Technical data model STW-F Raku

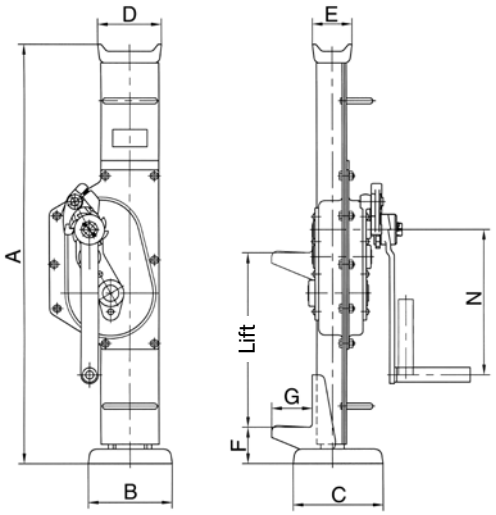
Model	EAN-No. 4025092* **Raku**	Capacity kg	Height A mm	Height of lift [1] mm	Hand effort at WLL daN	Weight kg
STW-F 15	*563093	1500	720	350	28	12
STW-F 30	*563116	3000	720	350	28	21
STW-F 50	*563147	5000	720	300	28	26
STW-F 100	*563161	10000	792	300	28	42

[1] Height of lift = Height + Lift

Technical data model STW-F Sifeku

Model	EAN-No. 4025092* 4050939*** **Sifeku**	Capacity kg	Height A mm	Height of lift [1] mm	Hand effort at WLL daN	Weight kg
STW-F 15	*563024	1500	720	350	28	12
STW-F 30	***055493	3000	720	350	28	21
STW-F 50	*562645	5000	720	300	28	26

[1] Height of lift = Height + Lift



Dimensions model STW-F

Model	STW-F 15	STW-F 30	STW-F 50	STW-F 100
A, mm	720	720	720	792
B, mm	130	130	145	145
C, mm	140	140	155	155
D, mm	90	90	110	125
E, mm	50	50	68	80
F, mm	60	61	62	85
G, mm	60	65	70	85
N, mm	250	250	250	300



Model STW-V
1,5t/3,0t/5,0t



Model STW-V 10,0t

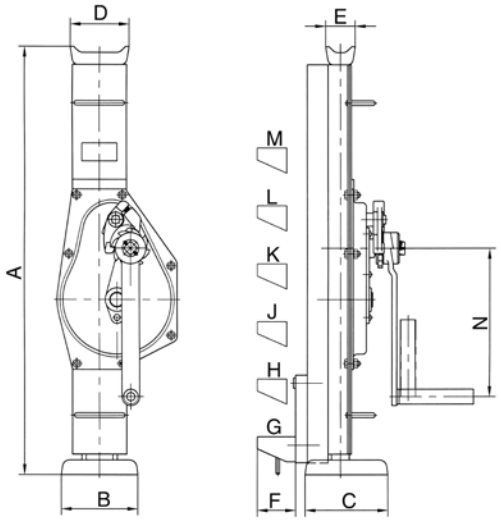
Steel jacks acc. to DIN 7355 with adjustable lifting claw model STW-V

Capacity 3000 - 10000 kg

The design of the steel jack allows for loads to be picked up and lowered from different heights over the entire length of the steel jack.
The adjustable claw is simply set to the appropriate application height in the load bar for this purpose.

Features

- The claw can be moved to any position on the adjusting rail.
- The load is supported either on the claw or the head of the steel jack.
- Robust base plate for a high level of stability.
- No reduction of capacity on the claw.



Dimensions model STW-V

Model	STW-V 15	STW-V 30	STW-V 50	STW-V 100
A, mm	725	725	725	800
B, mm	130	130	140	140
C, mm	140	140	160	160
D, mm	90	100	110	140
E, mm	50	50	68	76
F, mm	70	70	70	70
G, mm	80	80	80	95
H, mm	Claw freely adjustable on load bar (55 mm steps)			201
J, mm				307
K, mm				413
L, mm				519
M, mm				625
N, mm	250	250	250	300

Technical data model STW-V Siku

Model	EAN-No. 4025092* **Siku**	Capacity kg	Height A mm	Height of lift [1] mm	Hand effort at WLL daN	Weight kg
STW-V 15	*347327	1500	725	350	28	17
STW-V 30	*347365	3000	725	350	28	23
STW-V 50	*347389	5000	725	300	28	29
STW-V 100	*347426	10000	792	300	40	46

[1] Height of lift = Height + Lift

Technical data model STW-V Raku

Model	EAN-No. 4025092* **Raku**	Capacity kg	Height A mm	Height of lift [1] mm	Hand effort at WLL daN	Weight kg
STW-V 15	*347402	1500	725	350	28	17
STW-V 30	*347440	3000	725	350	28	23
STW-V 50	*347549	5000	725	300	28	29
STW-V 100	*347570	10000	792	300	40	46

[1] Height of lift = Height + Lift

Technical data model STW-V Sifeku

Model	EAN-No. 4025092* **Sifeku**	Capacity kg	Height A mm	Height of lift [1] mm	Hand effort at WLL daN	Weight kg
STW-V 15	*347624	1500	725	350	28	17
STW-V 30	*347631	3000	725	350	28	23
STW-V 50	*347693	5000	725	300	28	29

[1] Height of lift = Height + Lift

Steel jacks acc. to DIN 7355 with fixed lifting claw shortened design model STW-FvB

Capacity 1500 - 5000 kg

Wherever low headroom dimensions are required, the steel jack of shortened design is used.



Features

- The robust steel design and a toothed rack of solid material increase the service life of the jack.
- Low wear owing to hardened gearing parts and precisely machined teething.
- The precisely machined gears with a high degree of efficiency guarantees low crank forces.
- The load is supported either on the claw or the head of the steel jack.
- Robust base plate for a high level of stability.
- No reduction of capacity on the claw.

Technical data model STW-FvB Siku

Model	EAN-No. 4050939*** **Siku**	Capacity kg	Height A mm	Height of lift [1] mm	Hand effort at WLL daN	Weight kg
STW-FvB 15	***055363	1500	600	300	32	11
STW-FvB 30	***055424	3000	600	300	32	16
STW-FvB 50	***055585	5000	600	300	32	22

[1] Height of lift = Height + Lift

Technical data model STW-FvB Raku

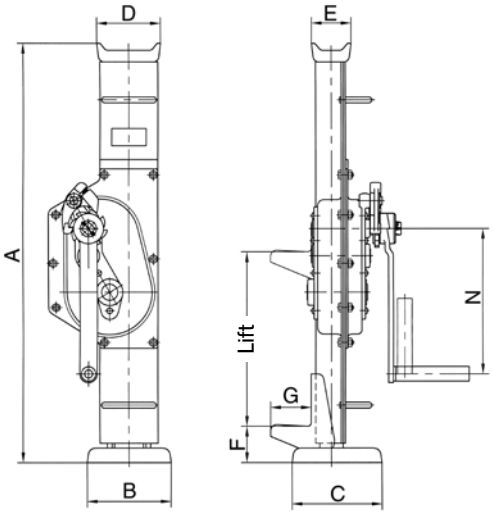
Model	EAN-No. 4050939*** **Raku**	Capacity kg	Height A mm	Height of lift [1] mm	Hand effort at WLL daN	Weight kg
STW-FvB 15	***055431	1500	600	300	32	11
STW-FvB 30	***055516	3000	600	300	32	16
STW-FvB 50	***055646	5000	600	300	32	22

[1] Height of lift = Height + Lift

Technical data model STW-FvB Sifeku

Model	EAN-No. 4050939*** **Sifeku**	Capacity kg	Height A mm	Height of lift [1] mm	Hand effort at WLL daN	Weight kg
STW-FvB 15	***055530	1500	600	300	28	11
STW-FvB 30	***055639	3000	600	300	28	16
STW-FvB 50	***055752	5000	600	300	28	22

[1] Height of lift = Height + Lift



Dimensions model STW-FvB

Model	STW-FvB 15	STW-FvB 30	STW-FvB 50
A, mm	600	600	600
B, mm	130	130	145
C, mm	140	140	155
D, mm	90	90	110
E, mm	50	50	68
F, mm	60	61	62
G, mm	60	65	70
N, mm	200	250	250



Rail jacks acc. to DIN 7355 model RSJ

Capacity 5000 kg

Track rails can be quickly and safely lifted by means of this jack, also under unfavourable conditions.
The shoe-type foot with a wider support surface makes it possible to apply the jack between the sleepers and the tracks.

Features

- The precisely machined gear box with optimal gear ratio ensures a minimum of effort and smooth operation.
- The load is supported either on the claw or the head of the steel jack.
- By turning the operating lever the jack moves smoothly and conveniently up and down along the rack.
- The self-locking, anti-kickback operating lever reduces the risk of injuries. The handle can be tilted for use in confined spaces.
- The load is held securely in any position. Inside the load brake the axial brake pressure is generated by the load itself, thus, it is proportional to the size of the load.
- No reduction of capacity on the claw.

INFO

On page 180 you will find also rail grab.

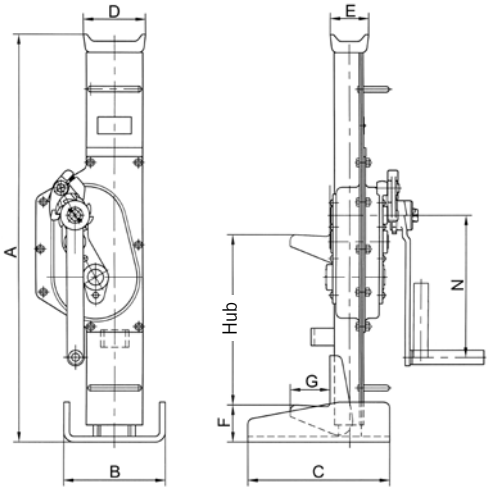
Technical data model RSJ Siku

Model	EAN-No. 4025092* **Siku**	Capacity kg	Height A mm	Height of lift [1] mm	Hand effort at WLL daN	Weight kg
RSJ 50	*039482	5000	740	360	28	29

[1] Height of lift = Height + Lift

Dimensions model RSJ

Model	RSJ 50
A, mm	740
B, mm	200
C mm	250
D, mm	108
E, mm	52
F, mm	90
G, mm	71
N, mm	275



Ratchet jack model Yaletaurus

Capacity 10000 kg

Mechanical ratchet jacks with lifting claw are designed for operation in confined areas where space below the load is restricted, thus preventing the use of traditional lifting equipment. The Yaletaurus is the ideal unit for lifting, positioning or transportation of machines resp. heavy objects as well as for repair and assembly jobs in cramped areas and under toughest conditions.
In spite of its capacity of 10000 kg the Yaletaurus has a weight of just 30 kg and the integrated carrying handle makes it a portable, versatile tool.
With a hand force of 45 kg on the detachable hand lever, the Yaletaurus will lift, press, push or lower a load of 10000 kg in any direction. A standard crank wheel will bring the jack quickly to the required position.



Features

- Automatic screw-and-disc type load brake.
  The axial brake pressure is generated by the load itself and is, therefore, proportional to the size of the load.
  The load is held secure in any position.
- Single part housing made from spheroidal cast iron with integrated lifting claw.
- The screw-and-disc type load brake originates from the Yale PUL-LIFT® (spare parts are easily available).
- Low lever pull and long life endurance due to optimum gearing and high quality materials.

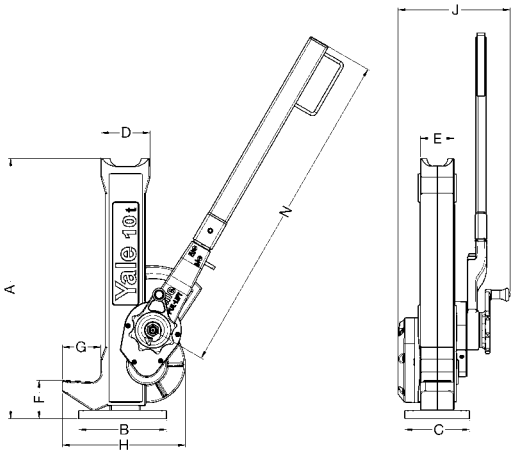
Technical data model Yaletaurus

Model	EAN-No. 4025092*	Capacity on the head kg	Capacity on the claw kg	Height A mm	Height of lift [1] mm	Hand effort at WLL daN	Weight kg
Yaletaurus	*076043	10000	7000	505	295	45	30

[1] Height of lift = Height + Lift

Dimensions model Yaletaurus

Model	Yaletaurus
A, mm	505
B, mm	170
C mm	125
D, mm	95
E, mm	65
F, mm	75
G, mm	75
H, mm	238
J, mm	217
N, mm	647





Model ZWW-L
capacity 250 kg and 500 kg



Model ZWW-L
capacity 1000 kg



Model ZWW
capacity 1500 kg



Assembly plate
– available for
following models only:
ZWW-L 250 and
ZWW-L 500



Model ZWW
capacity 10000 kg

Wall-mounted rack and pinion jacks model ZWW-L and model ZWW

Capacity 250 - 10000 kg

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

Features

- 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 teething.
- Up to 1000 kg lifting load for pushing or pulling loads are equal.
- Suitable for a lifting load from 1500 kg - 10000 kg for pushing or pulling loads.
- Rigid wall mounting.

Options

- Improved corrosion protection owing to zinc-plating or special coating of rack.
- Different rack length on request possible.
- Symmetrical toothing for model ZWW on request possible.
- Crank with folding handle for model ZWW-L suitable.
- Assembly plate (EAN 4053981283401) for model ZWW-L 250 and ZWW-L 500 with old hole separation suitable (165 mm). Thereby a one by one replacement between old model ZWW 250/500 kg and new model ZWW-L is warranted.

Available in explosion proof version (see page 467).

Technical data model ZWW-L

Model	EAN-No. 4025092* **Worm gear**	Tensile or pressure load kg	Rack length mm	Lift mm	Lift per crank rotation mm	Hand effort at WLL daN	Weight kg
ZWW-L 250/400	*437592	250	600	400	11	10	5.4
ZWW-L 500/400	*437752	500	600	400	11	15	6.0
ZWW-L 250/600	*383707	250	800	600	11	10	5.9
ZWW-L 500/600	*383806	500	800	600	11	15	6.5
ZWW-L 1000/600	*383967	1000	800	600	3.6	14	8.9
ZWW-L 250/800	*383448	250	1000	800	11	10	6.4
ZWW-L 500/800	*383837	500	1000	800	11	15	7.0
ZWW-L 1000/800	*383981	1000	1000	800	3.6	14	10.0
ZWW-L 250/1000	*383745	250	1200	1000	11	10	6.9
ZWW-L 500/1000	*383844	500	1200	1000	11	15	7.5
ZWW-L 1000/1000	*384018	1000	1200	1000	3.6	14	11.3
ZWW-L 250/1200	*383783	250	1400	1200	11	10	5.4
ZWW-L 500/1200	*383899	500	1400	1200	11	10	6.0
ZWW-L 1000/1200	*384025	1000	1400	1200	3.6	14	12.4
ZWW-L 1000/1400	*437868	1000	1600	1400	3.6	14	13.6

Technical data model ZWW Sifeku

Model	EAN-No. 4025092* **Sifeku**	Tensile or pressure load kg	Rack length mm	Lift mm	Lift per crank rotation mm	Hand effort at WLL daN	Weight kg
ZWW 1500/800	*654272	1500	1090	800	14	28	11
ZWW 3000/565	*653640	3000	975	565	9	28	19
ZWW 5000/700	*995931	5000	1170	700	4.5	28	28

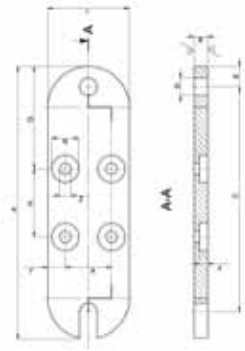
Technical data model ZWW Siku

Model	EAN-No. 4025092* **Siku**	Tensile or pressure load kg	Rack length mm	Lift mm	Lift per crank rotation mm	Hand effort at WLL daN	Weight kg
ZWW 10000/700	*285087	10000	1240	700	3.2	40	55

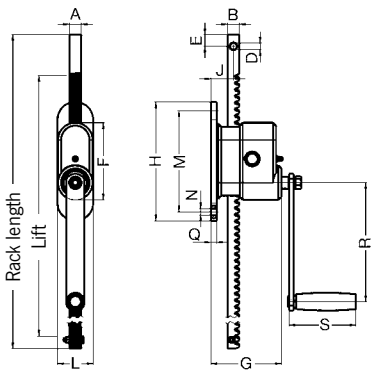
Dimensions model ZWW and model ZWW-L

Model	ZWW-L 250	ZWW-L 500	ZWW-L 1000	ZWW 1500	ZWW 3000	ZWW 5000	ZWW 10000	Assembly plate [1]
A, mm	20	20	25	35	45	50	60	200
B, mm	20	25	35	25	30	40	50	10
C, mm	–	–	–	215	280	330	380	165
Ø D, mm	11	13	16.5	21	21	21	30	13
E, mm	16	20	20	20	25	25	30	15
F, mm	130	130	127	135	165	140	160	6
G, mm	119	119	98	151	212	219	269	75
H, mm	200	200	180	310	395	400	480	50
I, mm	–	–	34.5	168	179	197	200	60
J, mm	38	35	29.5	26	31	37	39.5	13
K, mm	–	–	–	100	120	120	140	34
L, mm	60	60	140	130	160	160	180	–
M, mm	170	170	140	260	305	320	410	–
Ø N, mm	11	11	13	12.5	14.5	17	21	20
O, mm	–	–	100	110	120	105	125	–
P, mm	–	–	–	40	50	50	60	–
Q, mm	10	10	–	8	10	10	10	–
R, mm	200	250	200	250	250	250	300	–
S, mm	110	110	110	130	130	130	250	10
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	–
Ø Z, mm	–	–	–	–	–	–	–	8.2

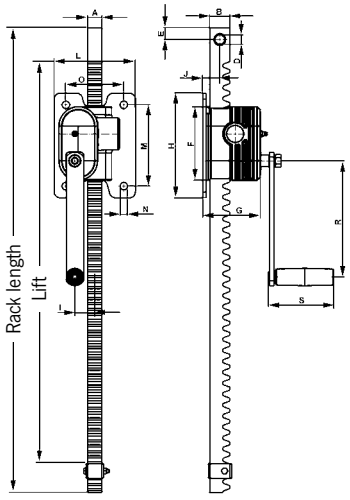
[1] available for following models only ZWW-L 250 and ZWW-L 500



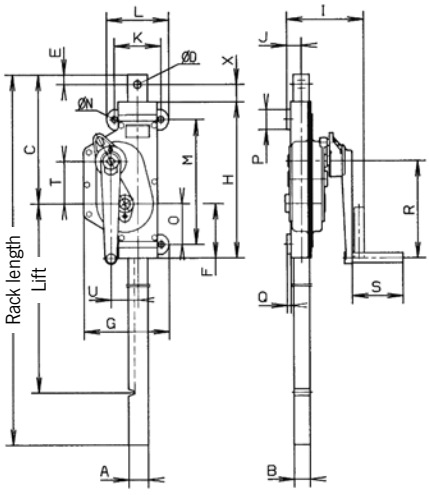
Assembly plate
– available for following models only:
ZWW-L 250 and
ZWW-L 500



Model ZWW-L, capacity 250 - 500 kg



Model ZWW-L,capacity 1000 kg



Model ZWW, capacity 1500 - 10000 kg



On systems with several racks in line at 90° to the crank axis

- Self-locking action **only gear unit with crank**
- Crank force = 15 kg, at a **maximum** total load of 1000 kg
- Connection to 1" tube (DIN 2440) on building side
- This combination is also possible for model ZWW-L 250 and model ZWW-L 500.

Model ZWW-L combinations

Capacity 1000 kg

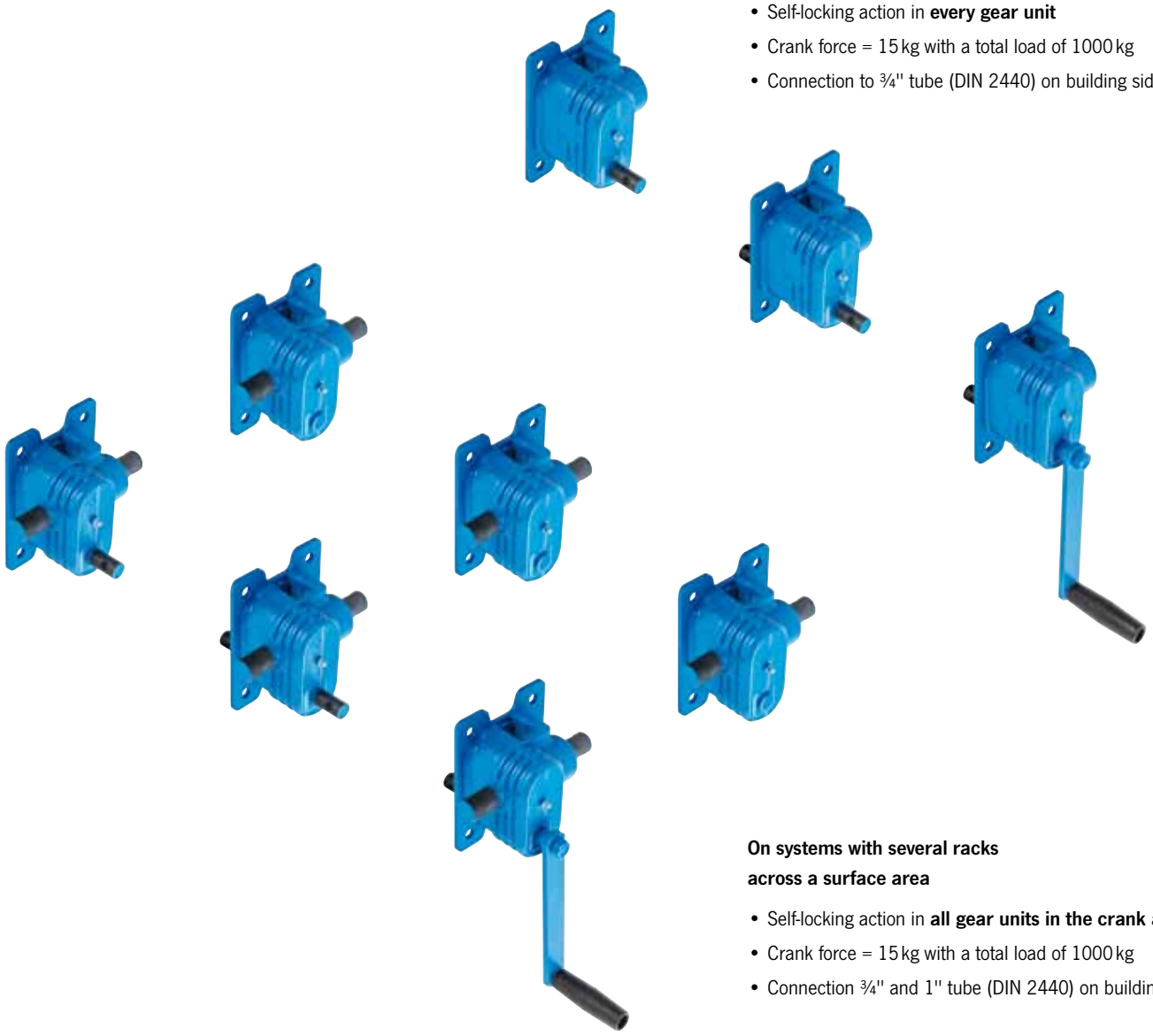
Wall-mounted rack and pinion jacks can also be coupled if it is necessary that both racks have to lift a load uniform. Thereby the direction - depending on the model - plays no matter.

The wall mounted rack and pinion jacks can be combine about ¾" and/or 1" pipes (DIN 2440). When connecting pipes over a length of 2 m, we recommend the pipes to stabilize so that it does not droop in the middle.

We like to advise you in this case.

On systems with several racks in line to the crank axis

- Self-locking action in **every gear unit**
- Crank force = 15 kg with a total load of 1000 kg
- Connection to ¾" tube (DIN 2440) on building side



On systems with several racks across a surface area

- Self-locking action in **all gear units in the crank axis**
- Crank force = 15 kg with a total load of 1000 kg
- Connection ¾" and 1" tube (DIN 2440) on building side

Gearbox with rack and pinion shaft acc. to 7355 model GmZ

Capacity 1500 - 5000 kg

The gearbox with rack and pinion shaft show exactly what it can do in the areas of plant engineering/construction, agriculture and workshops.

Features

- The robust steel design and a toothed rack of solid material increase the service life of the jack.
- Low wear owing to hardened gearing parts and precisely machined teething.
- The precisely machined gears with a high degree of efficiency guarantees low crank forces.

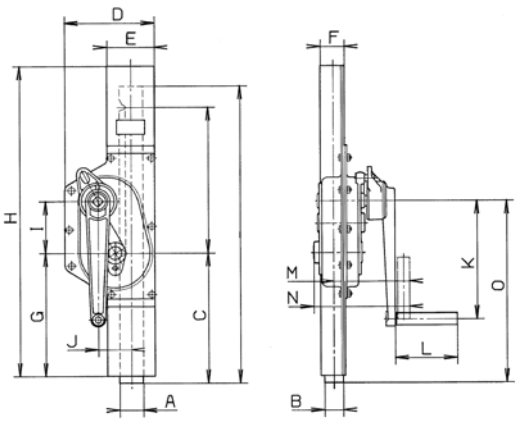


Technical data model GmZ Sifeku

Model	EAN-No. 4025092* 4050939*** **Sifeku**	Tensile or pressure load kg	Rack length mm	Lift mm	Lift per crank rotation mm	Hand effort at WLL daN	Weight kg
GmZ 1500/350	***055356	1500	675	350	14	28	9
GmZ 3000/350	***055448	3000	670	350	8	28	18
GmZ 5000/300	*005714	5000	628	300	4	28	22

Dimensions model GmZ

Model	GmZ 1500/350	GmZ 3000/350	GmZ 5000/300
A, mm	35	45	50
B, mm	25	30	40
C, mm	295	275	275
D, mm	125	204	189
E, mm	78	92	100
F, mm	33.5	39.5	51
G, mm	270	260	260
H, mm	655	655	655
I, mm	42	86	109
J, mm	43	53	70
K, mm	250	250	250
L, mm	130	130	130
M, mm	142	148	160
N, mm	173	183	202
O, mm	337	361	384







Crank
in special design
on request
EAN-No. 4053981 964942

Lifting jack model HB-W

Capacity 1500 kg

The stable lifting jack with integrated 1,5 t steel jack for supporting tube and bar material.

Features

- Load will be fixed in each position safely by a load brake system.
- Large base plate for a high level of stability.
- Wheels for easy transport.

Option

- The removable supporting roller facilitates sliding of heavy loads.

Technical data model HB-W

Model	EAN-No. 4053981** **Siku**	Capacity kg	Height mm	Lift [1] mm	Hand effort at WLL daN	Lift per crank rotation mm	Weight kg
HB-W 1500	**745879	1500	650	350	28	15	40

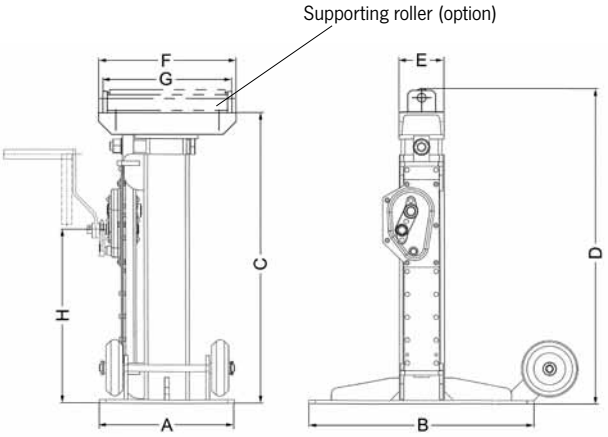
[1] Lifting height = Height + Lift

Technical data supporting roller HB-A

Model	EAN-No. 4050939***	Capacity kg	Height with supporting roller mm	Weight kg
Supporting roller	***055264	1500	705	5

Dimensions model HB-W

Model	HB-W 1500
A, mm	300
B, mm	500
C_{ein}, mm	650
D_{aus}, mm	1000
E, mm	100
F, mm	320
G, mm	300
H, mm	385



Truck body lifting jack model KHB

Capacity 5000 and 8000 kg

Truck body lifting jacks are used for supporting vehicle bridges, swap bodies and trailers; they are also used in vehicle construction and freight forwarding applications.

Features

- High-quality, torsionally stiff steel design with large base plate for a high level of stability.
- Hardened gearing parts and precisely machined teeth-ing for improved handling and low wear.
- The load can either be supported on the head or on the adjustable claw.



Model KHB 5
capacity 5000 kg



Model KHB 8
capacity 8000 kg

Technical data model KHB Siku

Model	EAN-No. 4050939*** **Siku**	Capacity kg	Height mm	Lift [1] mm	Hand effort at WLL daN	Dim. B mm	Dim. C mm	Dim. D mm	Dim. E mm	Dim. F mm	Dim. O/P mm	Weight kg
KHB 5000/500	***055110	5000	1100	500	18	540	500	80	140	250	70/70	80
KHB 8000/500	***055196	8000	1100	500	26	540	500	100	170	300	150/180	111

[1] Lifting height = Height + Lift

Step height of adjustable lifting claw

Model	KHB 5000	KHB 8000
1. step, mm	175	290
2. step, mm	230	396
3. step, mm	285	502
4. step, mm	340	608
5. step, mm	395	714
6. step, mm	450	820
7. step, mm	505	926
8. step, mm	560	1032
9. step, mm	615	–
10. step, mm	670	–
11. step, mm	725	–
12. step, mm	780	–
13. step, mm	835	–
14. step, mm	890	–

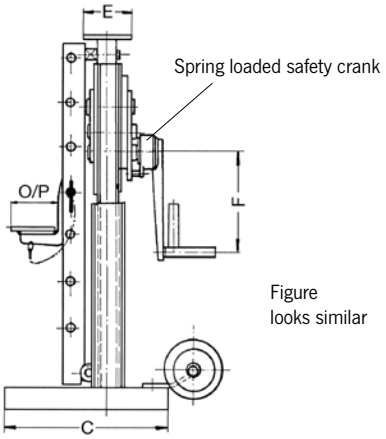
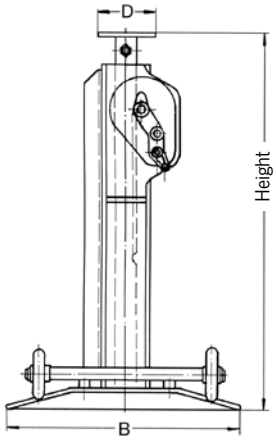


Figure
looks similar





Model S 20



Model S 24

Worm gear drive unit model S 20 and model S 24

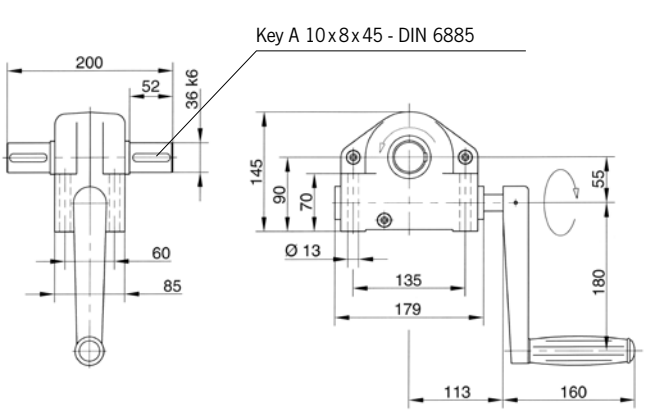
The worm gear drives are suitable for a large variety of applications in construction for moving or turning loads, as gears for rope drums or chain sprockets or slewing drives.

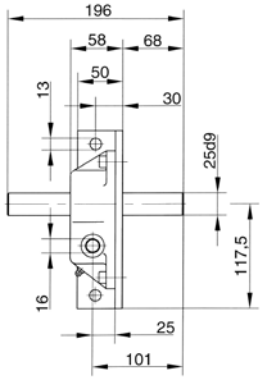
Features

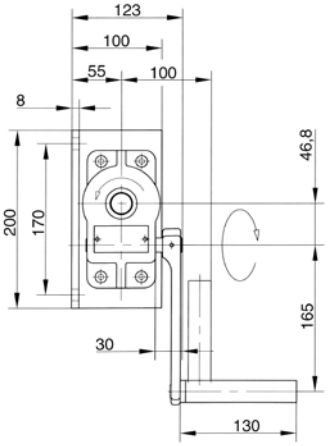
- Enclosed housing for the protection of parts inside.
- Enclosed and precisely machined gear for little effort and a long service life.

Technical data model S 20 and model S 24

Model	EAN-No. 4050939***	Ratio	Drive torque daNm	Required crank effort daN	Shaft length mm	Shaft diameter mm
S 20	***055257	20:1	12	11	196	25
S 24	***055462	24:1	36	22	200	36







Sluice gate jack model SCH-W

Capacity 1500 - 10000 kg

The reliable sluice gate jack for opening and closing gates in sluices.

Features

- The spring loaded safety crank permanently holds the sluice gate closed with pressure.
- Hardened gearing parts and precisely machined teeth-ing for improved handling and low wear.





Technical data model SCH-W Sifeku

Model	EAN-No. 4025092* **Sifeku**	Tensile or pressure load [1] kg	Rack length mm	Lift mm	Hand effort at WLL daN	Weight kg
SCH-W 15	*915175	1500	1200	800	28	18
SCH-W 30	*991698	3000	1250	800	28	23
SCH-W 50	*915182	5000	1350	900	28	32

[1] The pressure force is reduced with a larger lift (loading case II to Euler)

Technical data model SCH-W Siku

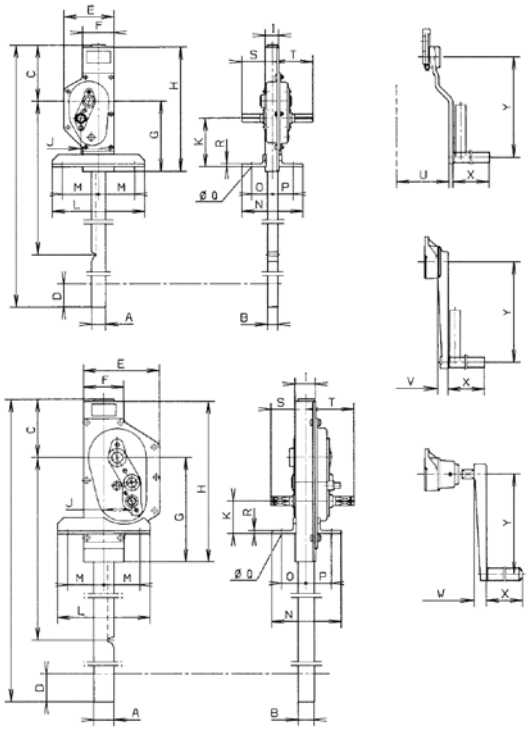
Model	EAN-No. 4025092* **Siku**	Tensile or pressure load* kg	Rack length mm	Lift mm	Hand effort at WLL daN	Weight kg
SCH-W 100	*911481	10000	1550	1000	40	56

INFO

Please fill in the questionnaire on the next page for sluice gate jack systems.

Dimensions model SCH-W

Model	SCH-W 15	SCHW-30	SCHW-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
Ø Q, 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



Technical questionnaire to identify a suitable sluice gate jack systems

Company: _____ Date: _____

Contact: _____ e-Mail: _____

Phone: _____ Fax: _____

☐ Manual drive

Manual operating force _____ kN

Sluice gate

Thickness _____ mm

Material

☐ Wood

☐ Steel

Weight _____ kg

Friction coefficient

☐ Steel/Wood

☐ Steel/Rubber

☐ Roller gate

☐ Motor drive with manual emergency drive

Lifting speed ☐ Standard

_____ m/min

Operating voltage _____ V

_____ Hz

☐ 230/400 V, 50 Hz three-phase current

Motor rating

Load cycles per hour _____

Lift per load cycle _____

Surrounding temperature _____

Remark

_____

Quantity

_____

Accessories

☐ Lifting motion limitation

☐ Electrical cut-out by safety clutch

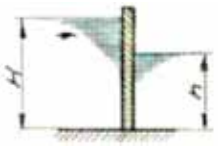
☐ Auma rotary drive

Indicate local conditions and water levels



H = _____

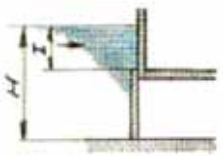
☐ without water below



H = _____

h = _____

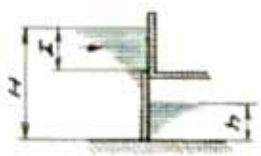
☐ with water below



H = _____

l = _____

☐ completely in water above

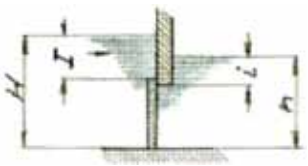


H = _____

l = _____

h = _____

☐ completely in water above, partly in water below



H = _____

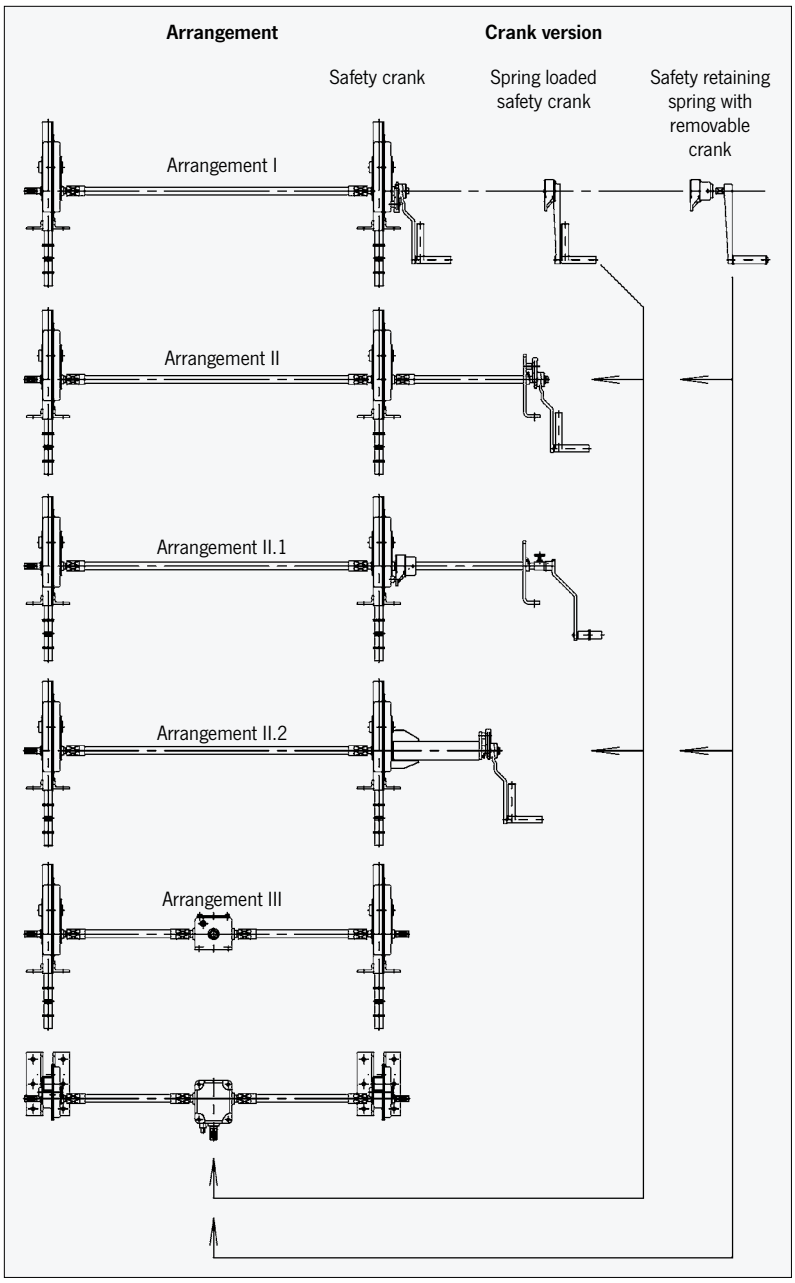
l = _____

h = _____

i = _____

☐ completely in water above and in water below

Technical questionnaire to identify a suitable sluice gate jack systems



Arrangement

Crank version

(Retaining springs not possible for 10 t model)

Date

Name

Application

