

Yale

HOISTING EQUIPMENT



GENERAL

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 be 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!

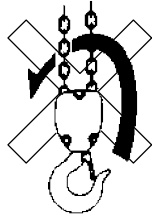
INFO

You will find the General Terms and Conditions at the end of the catalogue.

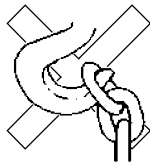
Please note the information on our training courses on page 4.

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.



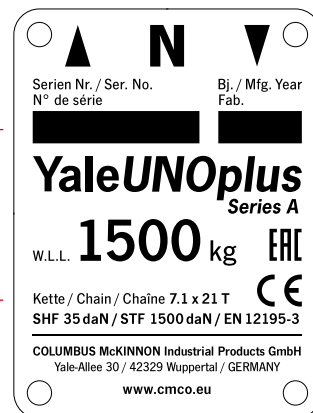
- The load must always be seated in the saddle of the hook. Never attach the load on the tip of the hook. This applies to top and bottom hooks.
- The operator must ensure that the load is attached in a manner that does not expose himself or other personnel to danger by the hoist, chain(s) or the load.
- 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.

Labelling (Example)

Serial or model number

Chain dimension and design (grade) of load chain



Year of manufacture

Rated capacity

Load securing

Manufacturer or supplier





Maintenance and repair

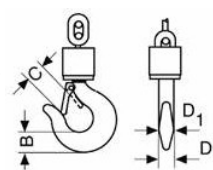
- To ensure safe operation, all hoisting equipment must be subjected to regular inspections according to the maintenance instructions given by the manufacturer.
- Hoists which are due for maintenance (normally once per year, unless adverse working conditions dictate shorter periods) or products with 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.





C 85 **Ratchet lever hoist** **with roller chain**

Capacity 750 - 3000 kg

D 85 **Ratchet lever hoist** **with link chain**

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.
- Wet painting colour code RAL 1023.
- 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, in accordance with national and international standards and regulations.

INFO

Since 1936, the Velbert factory has built over 1 million units!

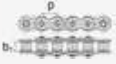
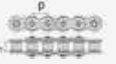
All ratchet lever hoists with a capacity exceeding 750 kg can be used for load attachment according to EN 12195.

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



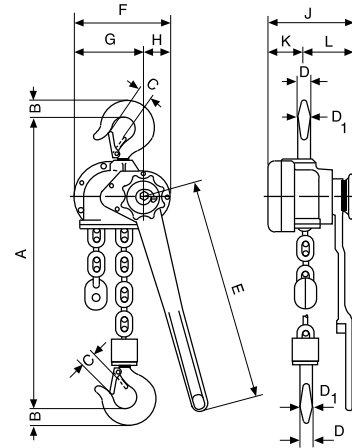
We are pleased to send you our new Atex catalogue in PDF format.

Technical data C 85

Model	Art.-No.	Capacity	Number of chain falls	Chain dimensions p x b	Chain dimensions p x b	Lift with one full lever turn	Handle pull at WLL	Weight at standard lift (1.5 m)
		kg		 Zoll	 mm	mm	daN	kg
PUL-LIFT C 85 750	N01141295	750	1	5/8" x 3/8"	15.875 x 9.65	115	38	8.7
PUL-LIFT C 85 1500	N01141296	1500	1	1" x 1/2"	25.4 x 12.7	45	31	17.0
PUL-LIFT C 85 3000	N01141297	3000	1	1 1/4" x 5/8"	31.75 x 15.875	36	40	22.2

Dimensions C 85

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



Technical data D 85

Model	Art.-No.	Capacity	Number of chain falls	Chain dimensions d x p in mm/ Version	Lift with one full lever turn mm	Handle pull at WLL daN	Weight at standard lift (1.5 m) kg
		kg					
PUL-LIFT D 85 750	N01541291	750	1	6 x 18.5 - T	111	38	8.2
PUL-LIFT D 85 1500	N01541292	1500	1	9 x 27 - T	45	31	16.3
PUL-LIFT D 85 3000	N01541293	3000	1	11 x 31 - T	33	40	19.6
PUL-LIFT D 85 6000	N01541294	6000	2	11 x 31 - T	17	42	32.9
PUL-LIFT D 85 10000	N01541511	10000	3	11 x 31 - T	11	37	60.0

Dimensions 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



Yale^{ERGO} 360[®]

Ratchet lever hoist

Capacity 750 - 9000 kg

Redefining lever-operated hoists, the Yale^{ERGO} 360[®] features the revolutionary crank handle that allows for efficient operation in both lifting and pulling applications. Ergonomically designed for increased safety, the patented Yale^{ERGO} 360[®] lets the operator work up to 12 times faster and with as much as 30 % less pull force than with conventional ratchet lever tools.

Features

- The lightweight, high-strength aluminium housing with powder coating and high-quality bearings offer a long service life even with intensive use and rough operating conditions.
- The hand lever with integrated snap crank ensures ideal power transmission and enables a 360° working range. This increases productivity and reduces the risk of injury.
- Display of the operating direction or free chaining in the viewing window of the hand lever.
- The covered load pressure brake remains free of dirt and moisture, which enables precise load positioning.
- Standard free chaining device to quickly attach the load or to pull the chain through the hoist in both directions.
- Chain guide and stripper are made of robust cast iron and zinc plated to protect against corrosion.
- Alloyed steel link chain with zinc-plated resp. yellow chromated finish, in accordance with national and international standards and regulations.
- Rotatable, forged top and load hooks and casted safety latches provide reliable and safe load suspension. The screwed top hook cross bars and bottom blocks are allowed for easy maintenance.

Optional

- All Yale^{ERGO} 360[®] units can be equipped with an over-load protection device in the form of a slip clutch which is factory preset to approx. 25 % ± 15 % overload.
- Shipyard hooks available for 1500 kg and 3000 kg units.



PATENTED
**HAND LEVER WITH
RETRACTABLE CRANK**
DESIGNED FOR OPTIMAL
EFFICIENCY & SAFETY



**Capacity
750 kg**

Shortest hook space
(Amin.) 320 mm
Handle pull at WLL
crank lever handle operation
20 daN
Weight 6.7 kg



**Capacity
1500 kg**

Shortest hook space
(Amin.) 375 mm
Handle pull at WLL
crank lever handle operation
24 daN
Weight 9.6 kg



**Capacity
3000 kg**

Shortest hook space
(Amin.) 445 mm
Handle pull at WLL
crank lever handle operation
35 daN
Weight 17.2 kg



**Capacity
6000 kg**

Shortest hook space
(Amin.) 563 mm
Handle pull at WLL
crank lever handle operation
37 daN
Weight 28.9 kg



**Capacity
9000 kg**

Shortest hook space
(Amin.) 695 mm
Handle pull at WLL
crank lever handle operation
41 daN
Weight 49.5 kg



When folded out, the lever handle can serve as a carrying grip for easy transport. Simply attach the end stop to the hook and slip the hook onto the crank handle.



Unique body design allows the YaleERGO 360® to lay flat to minimize tipping or slipping during operation.



The YaleERGO 360® in conventional use.

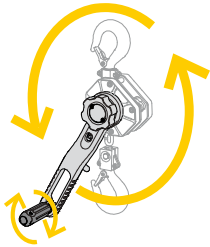
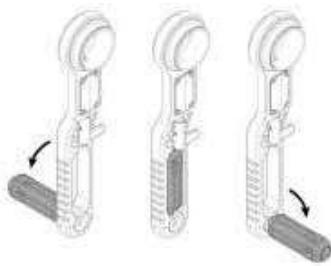


The YaleERGO 360® in use of the extended crank handle.

DISTINCTIVE (((CLICKING SOUND)))

ENSURES THE HANDLE IS LOCKED INTO POSITION

To return handle to upright position, simply pull the handle outward and snap into place inside the lever.



The hand lever with integrated crank

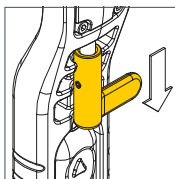
- 360° rotation increases efficiency, allowing operators to work up to 12 times faster than with a conventional ratchet lever hoist.
- Requires 30 % less pull force to operate.
- Easy and effective operation from any angle with handle that folds down and locks into position on either side of the lever.
- Design keeps the operator's body aligned with the load chain, reducing the risk of the twist effect – when a hoist twists around the chain. No need to use a second hand to stabilize the hoist.
- Operator can securely grip the grooved, no-slip handle.
- Crank handle made of durable polyamide with a heavy-duty steel core for rugged use.



SAFE & SECURE

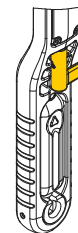
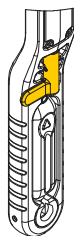
SELECTOR LEVER LOCKS IN PLACE TO PREVENT ACCIDENTALLY SWITCHING.

Pull down on the selector lever to unlock it, turn it to the desired direction, and release it into the locking position.



Convenient directional indicator

Easy-to-use, highly visible directional indicator window located in the handle clearly shows the operating direction as LIFTING (▲), LOWERING (▼) or NEUTRAL (N).

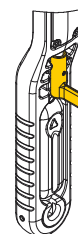


Simple & smooth free chaining device

Quick positioning of the unloaded chain - even with one-handed operation.

In this operating mode, the chain can be pulled through the unit by hand in both directions in order to attach it more quickly.

The free chaining device is activated by moving (shifting) the lever to the neutral position (N).



Technical data YaleERGO 360®

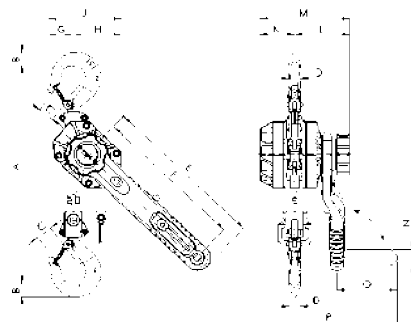
Model	Art.-No.	Capacity kg	Number of chain falls	Chain dimensions d x p in mm/ design	Lift with one full lever turn mm	Handle pull at WLL daN	Handle pull at WLL with crank daN	Weight at standard lift (1.5 m) kg
YaleERGO 360 750	192028204	750	1	5.6 x 17.1 - T	27.2	21	20	6.7
YaleERGO 360 1500	192028202	1500	1	7.1 x 21 - T	21.7	31	24	9.6
YaleERGO 360 3000	192028553	3000	1	10 x 28 - V	20.1	43	35	17.2
YaleERGO 360 6000	192035451	6000	2	10 x 28 - V	10.1	46	37	28.9
YaleERGO 360 9000	192039362	9000	3	10 x 28 - V	6.7	50	41	49.5

Dimensions YaleERGO 360®

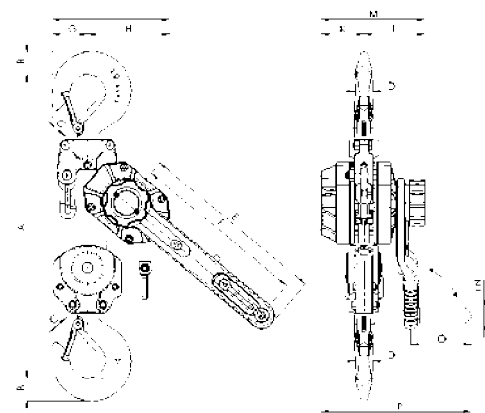
Model	YaleERGO 360 750	YaleERGO 360 1500	YaleERGO 360 3000	YaleERGO 360 6000	YaleERGO 360 9000
A min., mm	320	375	445	563	695
B, mm	20	26	37	45	68
C, mm	27	31	40	47	68
D, mm	18	21	28	35	50
E, mm	327	327	377	377	377
F, mm	300	300	350	350	350
G, mm	40	51	57	71	116
H, mm	81	96	123	162	199
J, mm	121	147	180	233	315
K, mm	56	69	86	86	86
L, mm	105	110	121	121	121
M, mm	161	179	207	207	207
N, mm	30	30	30	30	30
O, mm	120	120	120	120	120
P, mm	257	273	299	299	299

Optional:
Shipyards hooks
for capacities
1500 and 3000 kg.

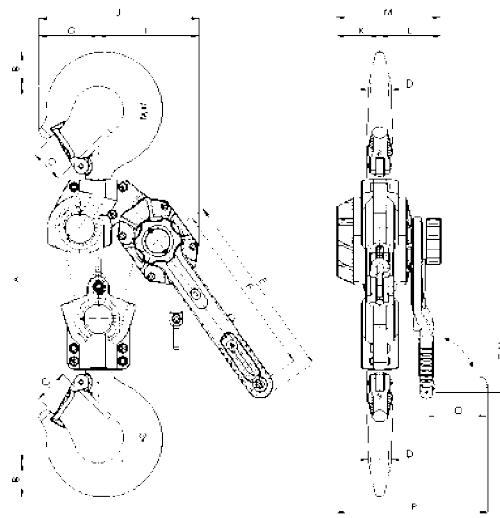
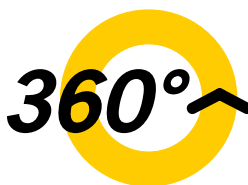
Based on a special
design the shipyard
hooks can be fixed to
avoid slipping
(resp. on steel plates
which were braced
for welding).



YaleERGO 360®, 750 - 3000 kg, single fall



YaleERGO 360®, 6000 kg, double fall



YaleERGO 360®, 9000 kg, three fall



Yale **ERGO 360**® UT *Utility!*

Ratchet lever hoist with safety gear

Capacity 1500 - 9000 kg

The Yale **ERGO 360**® UT is now also redefining the world of hoists for overhead line construction. The automatically acting safety gear, with a pending patent, once more increases the safety of use.

Here, too, the ergonomic and safety enhancing design of the device and the revolutionary, patented hand lever enable efficient work at any angle, for lifting and pulling applications.

Features

AUTOMATICALLY ACTING SAFETY GEAR

The Yale **ERGO 360**® UT has a unique, automatically locking safety device to prevent a sudden drop (patent pending). It guarantees permanent monitoring and is active during operation as well as during inactive moments without the user having to activate it.

In case of emergency, i.e. after failure of the load pressure brake and consequently exceeding the specified speed, the safety gear will automatically activate. It safely absorbs the load, preventing the creation of larger dynamic forces which could cause further damage. Due to its design, the device remains in a safe state even in the event of an error (e.g. rusted ratchet pawl, broken springs or other influences such as basic corrosion or dirt).

EXCELLENT CORROSION PROTECTION

A housing optimized for outdoor applications (incl. water drainage holes on all sides) prevents a build up of water and the influence of moisture in extreme conditions (e.g. rain, fluctuations in temperature). External components such as the chain guide and the stripper are zinc plated. Some of the internal moving parts such as the drive pinion, the ratchet pawl, the load chain wheel and the ratchet are MKS coated (zinc flake coating).

Optional

CHAIN STOP & CHAIN CLAW*

Optionally, the devices can be equipped with our proven and tested YKST chain stop or the KKL chain claw.

*The usage is based on each country's specific regulations.



PATENTED **AUTOMATICALLY ACTING SAFETY GEAR**

DESIGNED FOR OPTIMAL EFFICIENCY & SAFETY

In accordance with EN 1808 -
Safety requirements for suspended access equipment, 8.9.2

In cooperation with BGHM Berufsgenossenschaft Holz und Metall and BG ETEM Energie Textil Elektro Medienerzeugnisse

Extract from BG ETEM statement:

"This is to confirm that the integrated safety gear in the ratchet lever hoist Yale **ERGO 360**® UT makes organizational measures such as the parallel use of several devices, the additional insertion of slings or the use and repositioning of an additional chain stopper obsolete.

In accordance with the S-T-O-P principle, the additional safety gear represents a technical solution that is superior to the organizational solutions used to date."

drain holes on all sides
of the housing prevent
standing water and
moisture

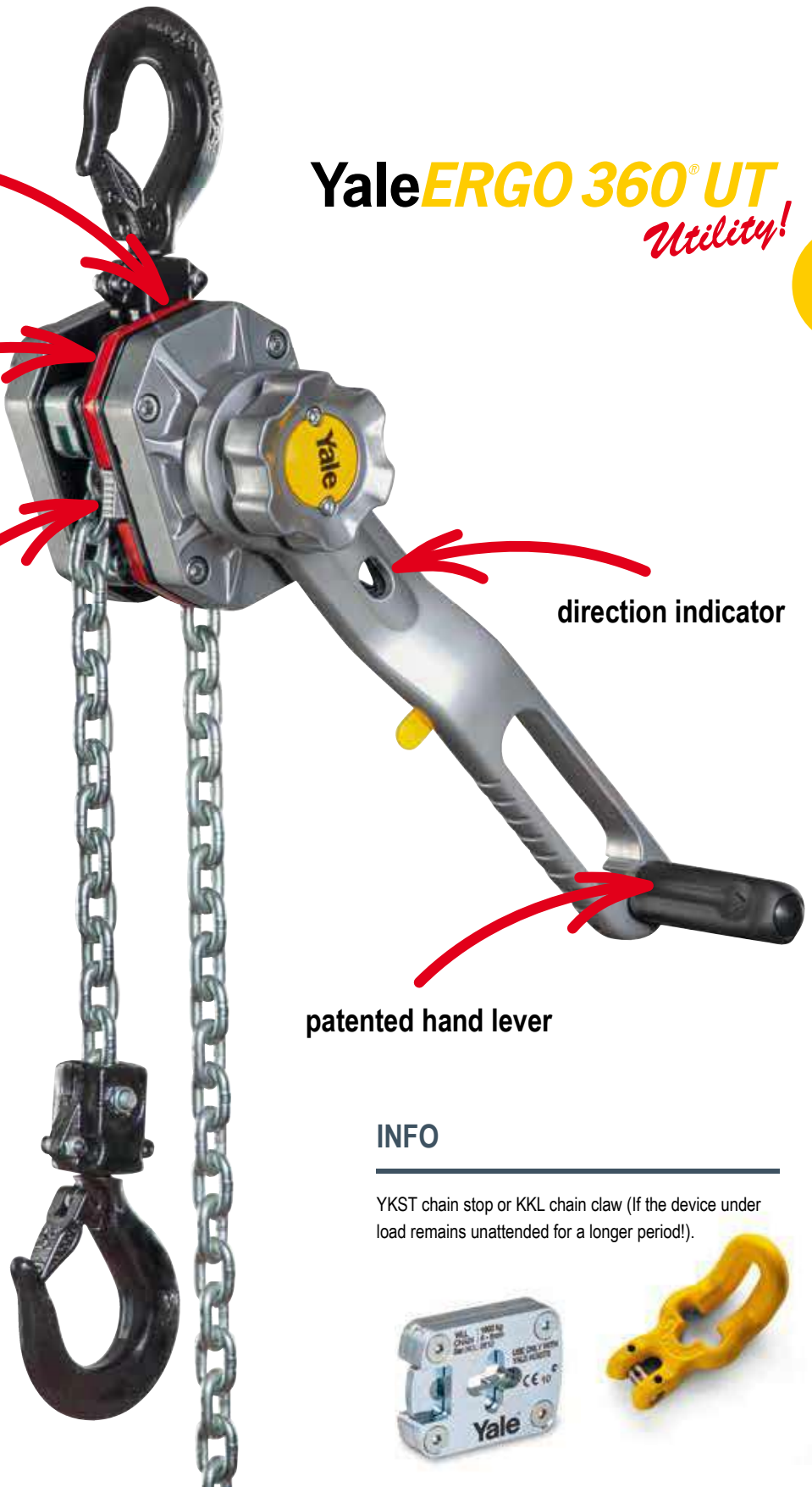
Yale*ERGO 360[®] UT*
Utility!

automatically
acting safety gear

push button to fully
reset the safety gear

direction indicator

patented hand lever

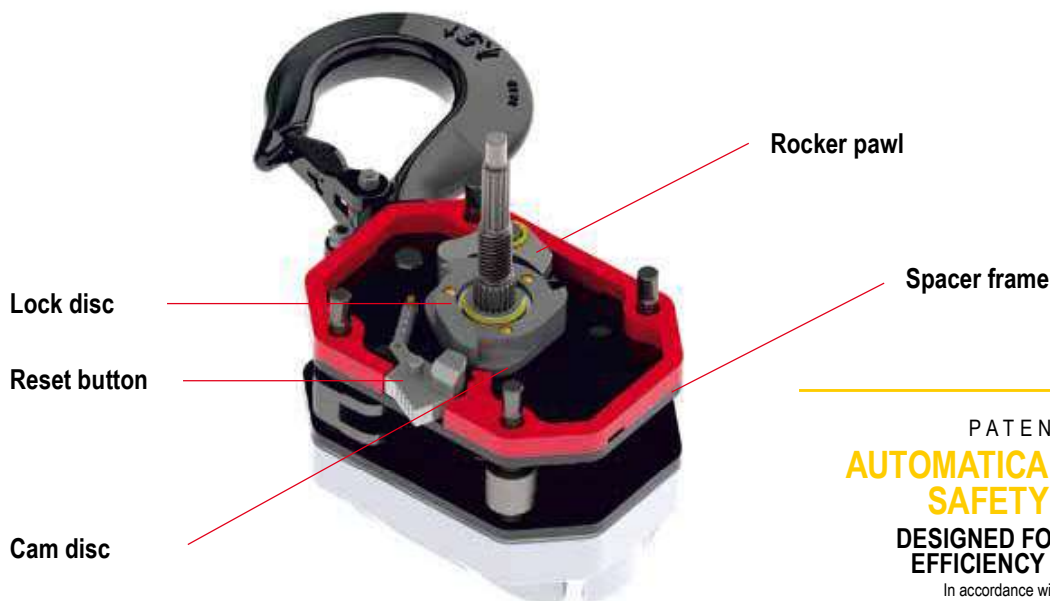


INFO

YKST chain stop or KKL chain claw (If the device under load remains unattended for a longer period!).



STRUCTURE & FUNCTIONALITY OF THE AUTOMATIC SAFETY GEAR



PATENTED
**AUTOMATICALLY ACTING
SAFETY GEAR**
DESIGNED FOR OPTIMAL
EFFICIENCY & SAFETY

In accordance with EN 1808 -
Safety requirements for suspended access equipment, 8.9.2

REQUIREMENTS FOR THE REDUNDANT SAFETY GEAR

in accordance with EN 1808 -
Safety requirements for suspended
access equipment, 8.9.2

- shall automatically engage in the event of overspeed (more than 0.5 m/s)
- the stopping distance must not exceed 500 mm
- shall be capable of being reset
- shall be capable of being tested
- shall permit lifting at any time

FUNCTION NORMAL OPERATION

Speed < 0.5 m/s

The rocker pawl moves continuously along the contours of the cam disc and lock disc.



FUNCTION ABSORPTION

Speed > 0.5 m/s

As soon as the speed exceeds 0.5 m/s, the rocker pawl engages the lock disc and safely absorbs the load.



INFO

In any cases the load is caught exceeding a speed of 0.5 m/s.

Speeds below 0.5 m/s (corresponds to 2 km/h) are not safety relevant according to EN 1808.

Extensive corrosion protection measures of the individual components ensure the proper functioning of the safety gear even during long-term use under poor weather conditions.



Overhead line construction



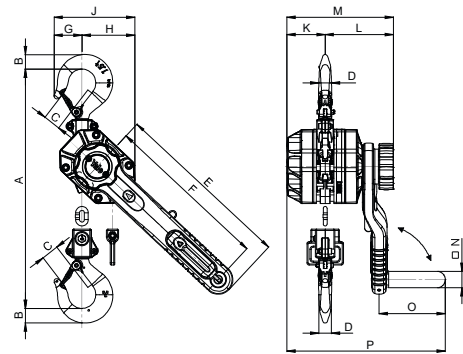
Aerial construction

Technical data YaleERGO 360® UT

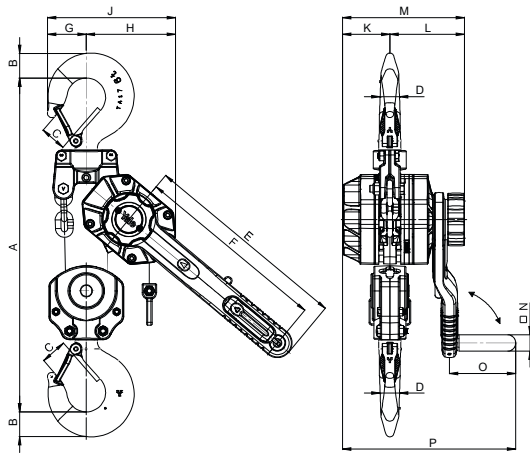
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YaleERGO 360 UT 1500	192069625	1500	1	7.1 x 21 - T	21.7	31	24	9.8
YaleERGO 360 UT 3000	192069671	3000	1	10 x 28 - V	20.1	43	35	18.1
YaleERGO 360 UT 6000	192071416	6000	2	10 x 28 - V	10.1	46	37	29.8
YaleERGO 360 UT 9000	192083321	9000	3	10 x 28 - V	6.7	50	41	50.4

Dimensions YaleERGO 360® UT

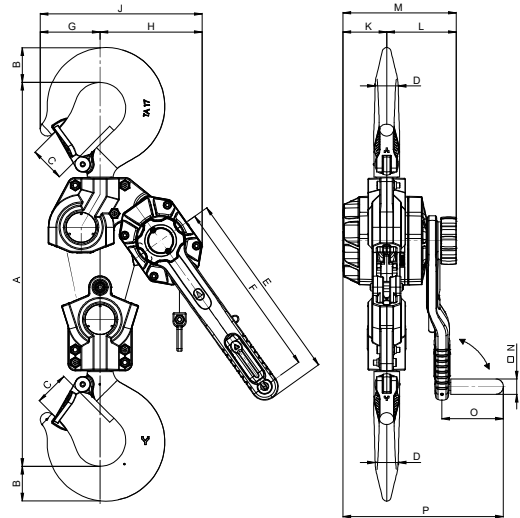
Model	YaleERGO 360 UT 1500	YaleERGO 360 UT 3000	YaleERGO 360 UT 6000	YaleERGO 360 UT 9000
A min., mm	375	445	563	695
B, mm	26	37	45	68
C, mm	31	40	47	68
D, mm	21	28	35	50
E, mm	327	377	377	377
F, mm	300	350	350	350
G, mm	51	57	71	116
H, mm	96	123	162	199
J, mm	147	180	233	315
K, mm	69	86	86	86
L, mm	124	136	136	136
M, mm	193	222	222	222
N mm	30	30	30	30
O, mm	120	120	120	120
P, mm	287	314	314	314



YaleERGO 360® UT, 1500 - 3000 kg, single fall



YaleERGO 360® UT, 6000 kg, double fall



YaleERGO 360® UT, 9000 kg, three fall



Construction of contact lines



Cable car construction



Positioning of loads



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.

AL Ratchet lever hoist

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 faultless chain movement.
- Alloyed steel link chain with zinc-plated resp. yellow chromated finish, in accordance with national and international standards and regulations.

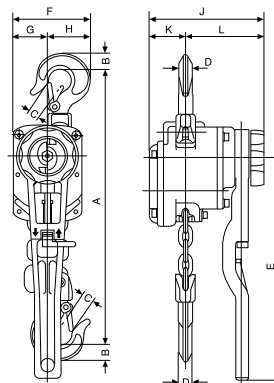


Technical data AL

Model	Art.-No.	Capacity kg	Number of chain falls	Chain dimensions d x p in mm/ design	Lift with one full lever turn mm	Handle pull at WLL daN	Weight at standard lift (1.5 m) kg
AL 750	N02041251	750	1	6.3 x 19.1 - T	30	20	6.4
AL 1000	N02041252	1000	1	6.3 x 19.1 - T	30	22	6.6
AL 1500	N02041253	1500	1	7.1 x 21.2 - T	16	21	10.0
AL 3000	N02041254	3000	1	10 x 30.2 - T	14	28	18.0

Dimensions 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



Yale **UNOplus** Series A Ratchet lever hoist

Capacity 750 - 6000 kg

The *UNOplus - Series A* ratchet lever hoist is the result of further technical development of the *UNOplus*, which has proven itself over many years.

The versatile tool for lifting, pulling and securing of loads is characterised by its compact design, robust stamped steel construction and the smoothly running free chaining device. The further reduced weight optimizes operation, makes the application even more comfortable and the *UNOplus - Series A* to a convenient, versatile device.

Features

- Due to optimized gearing and improved bearings in the housing cover a minimum effort is required to operate the short hand lever.
- 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.
- Robust chain end stop
- Comfortable rubber grip provides for extra protection against slippage.
- Alloyed steel link chain with zinc-plated resp. yellow chromated finish, in accordance with national and international standards and regulations.
- Forged suspension and load hooks are made from non-aging, high tensile steel and fitted with robust safety latches.

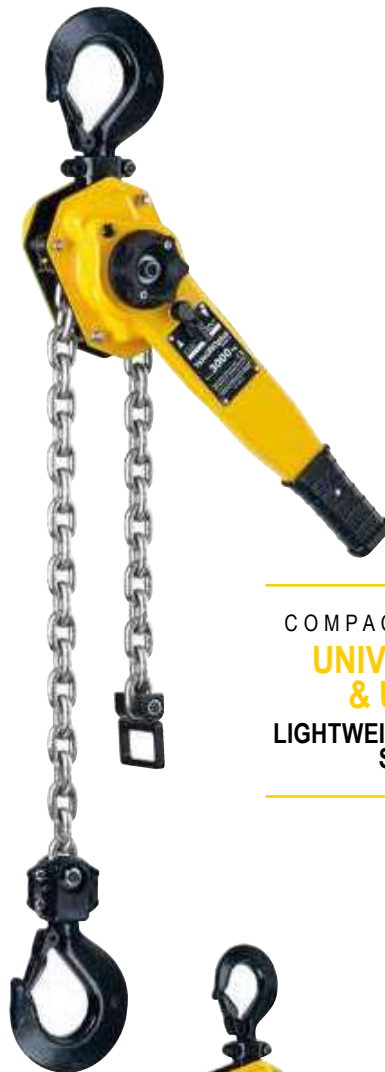
INFO

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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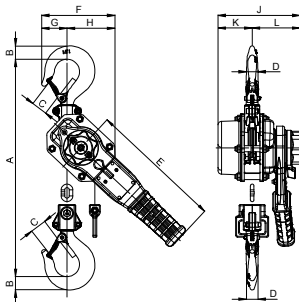


Technical data *UNOplus-A*

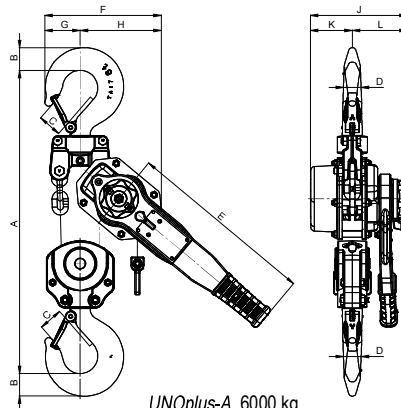
Model	Art.-No.	Capacity kg	Number of chain falls	Chain dimensions d x p in mm/ design	Lift with one full lever turn mm	Handle pull at WLL daN	Weight at standard lift (1.5 m) kg
<i>UNOplus-A 750</i>	192049841	750	1	5.6 x 17.1 - T	27	22	6.3
<i>UNOplus-A 1500</i>	192049940	1500	1	7.1 x 21 - T	22	35	9.2
<i>UNOplus-A 3000</i>	192050025	3000	1	10 x 28 - V	20	40	16.9
<i>UNOplus-A 6000</i>	192050579	6000	2	10 x 28 - V	10	43	28.6

Dimensions *UNOplus-A*

Model	<i>UNOplus-A</i> 750	<i>UNOplus-A</i> 1500	<i>UNOplus-A</i> 3000	<i>UNOplus-A</i> 6000
A min., mm	312	375	445	563
B, mm	20	26	37	45
C, mm	27	31	40	47
D, mm	18	21	28	35
E, mm	267	267	376	376
F, mm	121	146	180	232
G, mm	40	51	57	71
H, mm	81	95	123	161
J, mm	144	164	193	193
K, mm	53	68	83	83
L, mm	91	96	110	110



UNOplus-A, 750 - 3000 kg,
single fall



UNOplus-A, 6000 kg,
double fall



Yale **UNOplus** ARCTIC EDITION Series A

Ratchet lever hoist

Capacity 750 - 6000 kg

With the Yale *ARCTIC EDITION* the field of application of the tried and tested Yalelift 360 manual hand chain hoist can now be expanded to applications under extreme low temperatures.

Care was taken to ensure that all functions, especially its innovative 360° hand chain guide, function optimally and safely even under extreme temperatures. The materials and lubricants used were adapted to the requirements and tested and certified in complex low-temperature test procedures.

This allows the user to work safely and productively with the Yalelift 360 even at temperatures down to -40°C, whereas standard hoists without these measures may only be used down to -20°C (DIN EN13157 Cranes - Safety - hand-operated cranes).

In addition to static tests, dynamic low-temperature tests were also carried out to rule out malfunctions and material failure.

We can confirm the user's suitability with a certificate.



INFO

Standard hoists according to EN13157
(cranes - safety - hand operated cranes)

5.1.12 Temperature

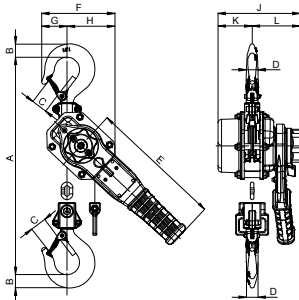
Hand chain blocks and their components shall be capable of operating within an ambient temperature range of -10°C to +50°C unless another temperature range is agreed between the manufacturer and the purchaser. Standard hoist products from CMCO are suitable for a temperature range of -20°C to +50°C!

Technical data *UNOplus-A ARCTIC EDITION*

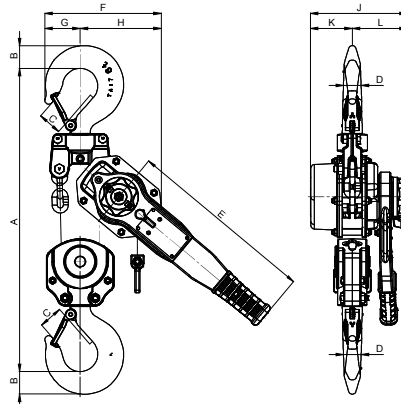
Model	Art.-No.	Capacity kg	Number of chain falls	Chain dimensions d x p in mm/ design	Lift with one full lever turn mm	Handle pull at WLL daN	Weight at standard lift (1.5 m) kg
<i>UNOplus-A 750 ARCTIC EDITION</i>	192099226	750	1	5.6 x 17.1 - T	27	22	6.3
<i>UNOplus-A 1500 ARCTIC EDITION</i>	192099227	1500	1	7.1 x 21 - T	22	35	9.2
<i>UNOplus-A 3000 ARCTIC EDITION</i>	192099228	3000	1	10 x 28 - V	20	40	16.9
<i>UNOplus-A 6000 ARCTIC EDITION</i>	192099229	6000	2	10 x 28 - V	10	43	28.6

Dimensions *UNOplus-A ARCTIC EDITION*

Model	<i>UNOplus-A 750 ARCTIC EDITION</i>	<i>UNOplus-A 1500 ARCTIC EDITION</i>	<i>UNOplus-A 3000 ARCTIC EDITION</i>	<i>UNOplus-A 6000 ARCTIC EDITION</i>
A min., mm	312	375	445	563
B, mm	20	26	37	45
C, mm	27	31	40	47
D, mm	18	21	28	35
E, mm	267	267	376	376
F, mm	121	146	180	232
G, mm	40	51	57	71
H, mm	81	95	123	161
J, mm	144	164	193	193
K, mm	53	68	83	83
L, mm	91	96	110	110



UNOplus-A ARCTIC EDITION,
750 - 3000 kg, single fall



UNOplus-A ARCTIC EDITION,
6000 kg, double fall



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 & USER FRIENDLY**
 LIGHTWEIGHT & CAN BE USED IN THE
 SMALLEST AREAS.

Yalehandy

Ratchet lever hoist

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 handle lever 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.
- Forged suspension and load hooks are made from non-aging, high tensile steel and fitted with robust safety latches.



INFO

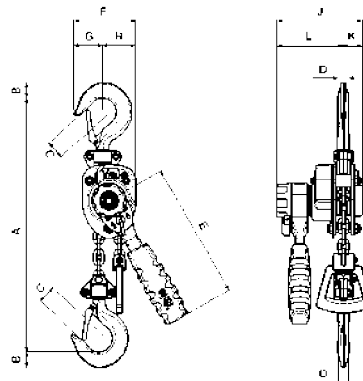
Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.

Technical data Yalehandy

Model	Art.-No.	Capacity kg	Number of chain falls	Chain dimensions d x p in mm/ design	Lift with one full lever turn mm	Handle pull at WLL daN	Weight at standard lift (1.5 m) kg
Yalehandy 250	N02300018	250	1	4 x 12 - T	80	25	2.2
Yalehandy 500	N02300070	500	1	4 x 12 - V	40	25	2.8

Dimensions 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



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.



Silverline HZ S Ratchet lever hoist

Capacity 750 - 6000 kg

The Silverline HZ S is designed and built for safe and efficient operation.

A hoist with low maintenance - at an economical price.

Features

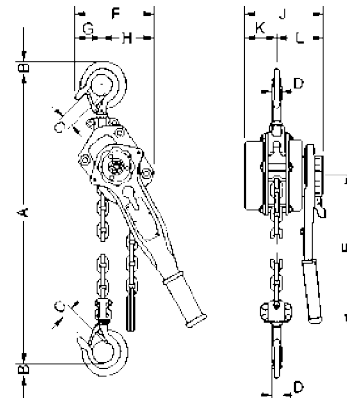
- Strong bolts between side plates and housing cover ensure increased stability.
- Chain guide rollers eliminate fouling and jamming of chain.
- Bearings for side plates permit a long service life.
- Zinc-plated load chain as standard.
- Forged suspension and load hooks are made from high tensile steel and fitted with safety latches.

Technical data Silverline HZ S

Model	Art.-No.	Capacity kg	Number of chain falls	Chain dimensions d x p in mm/ design	Lift with one full lever turn mm	Handle pull at WLL daN	Weight at standard lift (1.5 m) kg
HZ S 750	N02300113	750	1	6 x 18 - T	20	20	7.0
HZ S 1500	N02300114	1500	1	8 x 24 - T	10	36	10.0
HZ S 3000	N02300115	3000	1	10 x 30 - T	17	38	18.0
HZ S 6000	N02300116	6000	2	10 x 30 - T	9	39	27.0

Dimensions Silverline HZ S

Model	HZ S 750	HZ S 1500	HZ S 3000	HZ S 6000
A min., mm	330	410	490	640
B, mm	24	30	45	55
C, mm	26	31	34	46
D, mm	14	18	26	37
E, mm	280	410	410	410
F, mm	111	175	190	240
G, mm	33	50	60	80
H, mm	78	125	130	160
J, mm	142	180	195	200
K, mm	55	75	85	90
L, mm	87	105	110	110



Silverline Stira S Hand chain hoist

Capacity 500 - 5000 kg

The hand chain run is just as smooth as on the models Yalelift 360 and VSIII, but the Silverline Stira S series is a low-priced alternative to the high-quality units.

Features

- Strong bolts between side plates and housing cover ensure increased stability.
- Chain guide rollers eliminate fouling and jamming of chain.
- The design prevents the hand chain from jamming and jumping off.
- Bearings for side plates permit a long service life.
- Zinc-plated load chain as standard.
- Forged suspension and load hooks are made from high tensile steel and fitted with safety latches.



INFO

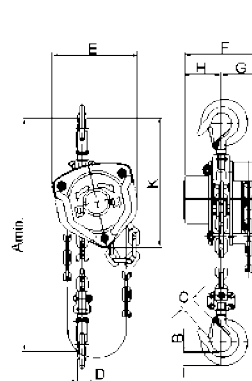
Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.

Technical data Silverline Stira S

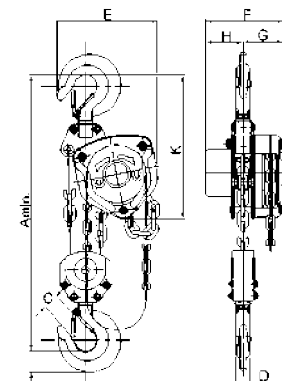
Model	Art.-No.	Capacity kg	Number of chain falls	Chain dimensions d x p in mm/ design	Lift per 1 m hand chain overhaul mm	Handle pull at WLL daN	Weight at standard lift (3 m) kg
Stira S 500	N04500041	500	1	6 x 18 - T	29	23	12.0
Stira S 1000	N04500042	1000	1	6 x 18 - T	27	31	14.0
Stira S 1500	N04500043	1500	1	8 x 24 - T	20	32	19.0
Stira S 2000	N04500044	2000	1	8 x 24 - T	15	36	21.0
Stira S 3000	N04500045	3000	2	8 x 24 - T	5	34	27.0
Stira S 5000	N04500046	5000	2	10 x 30 - T	3	41	43.0

Dimensions Silverline Stira S

Model	Stira S 500	Stira S 1000	Stira S 1500	Stira S 2000	Stira S 3000	Stira S 5000
A min.	270	317	399	414	465	636
B	18	23	28	28	35	46
C	30	34	38	41	48	52
D	13	16	20	23	27	35
E	127	158	174	187	199	253
F	131	140	161	161	161	186
G	74	77	82	84	82	93
H	57	63	79	77	79	91
K	220	250	280	300	310	400



Silverline Stira S
500 - 2000 kg, single fall



Silverline Stira S
3000 - 5000 kg, double fall



Yale VS III

Hand chain hoist

Capacity 250 - 5000 kg

Extremely low overall height allows optimal use of available headroom. Fully enclosed stamped steel housing allows also outdoor use. 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. The hooks are equipped with robust safety latches and can rotate 360°.

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.

Optional

- Overload protection device (from 500 kg available)
- Chain container



Load chain sheave with needle bearing



Side plate with ball bearing



Housing cover with ball bearing

Yale VS III

Hand chain hoist

Capacity 10000 - 50000 kg

Having long years of experience with this solid product, we decided to extend the VSIII series by the load capacities 10 t, 20 t, 30 t and 50 t.

In order to serve all industries (even the paper- or the ship industry), the VSIII lifts the loads very sensitively, as the components and construction parts have been positioned very precisely.

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.

Optional

- Overload protection device
- Chain container on request

SERIES EXTENSION
NOW WITH HIGH SWL!
30000 - 50000 kg



INFO

To avoid bruising or injuries, the chain inlet as well as the top hook connection is covered in protective material.

Technical data VS///

Model	Art.-No.	Capacity in kg/ Number of chain falls	Chain dimensions d x p in mm/ design	Lift per 1 m hand chain overhaul mm	Handle pull at WLL daN	Weight at standard lift (3 m) kg
VS/// 0,25/1	N04200123	250/1	4 x 12 - T	50	20	4.9
VS/// 0,5/1	N04200124	500/1	5 x 15 - T	26	21	9.0
VS/// 1,0/1	N04200125	1000/1	6 x 18 - T	24	24	11.5
VS/// 1,5/1	N04200134	1500/1	8 x 24 - T	17	30	17.5
VS/// 2,0/1	N04200126	2000/1	8 x 24 - T	19	32	19.0
VS/// 2,0/2	N04200127	2000/2	6 x 18 - T	15	29	17.3
VS/// 3,0/1	N04200128	3000/1	10 x 30 - T	12	40	31.0
VS/// 3,0/2	N04200129	3000/2	8 x 24 - T	10	37	27.0
VS/// 5,0/2	N04200130	5000/2	10 x 30 - T	8	41	43.0
VS/// 10/4	192039383	10000/4	10 x 30 - T	2.84	37	78.5
VS/// 20/8	192039384	20000/8	10 x 30 - T	1.42	44.5	197
VS/// 30/12	192039385	30000/12	10 x 30 - T	0.83	46.3	268
VS/// 50/18	192039386	50000/18	10 x 30 - T	0.56	53.6	540

Dimensions VS///

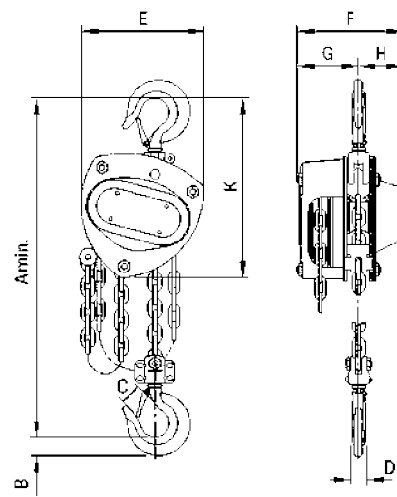
Model	VS/// 0,25/1	VS/// 0,5/1	VS/// 1,0/1	VS/// 1,5/1	VS/// 2,0/1	VS/// 2,0/2	VS/// 3,0/1	VS/// 3,0/2	VS/// 5,0/2	VS/// 10/4	VS/// 20/8	VS/// 30/12	VS/// 50/18
A min., mm	290	350	380	450	460	490	570	580	700	860	950	1112	1700
B, mm	12	21	27	33	37	37	46	46	56	63	90	90	165
C, mm	26	28	32	37	41	41	44	44	50	65	86	85	135
D, mm	11	16	19	22	27	27	31	31	37	47	69	67	108
E, mm	118	145	158	180	205	170	240	220	250	463	860	704	776
F, mm	113	140	155	175	180	155	210	175	190	104	200	410	627
G, mm	65	80	87	85	94	87	110	94	95	55	100	225	314
H, mm	48	60	68	90	86	68	100	81	95	50	100	186	314
K, mm	190	240	270	300	320	285	370	340	410	448	508	528	656

INFO

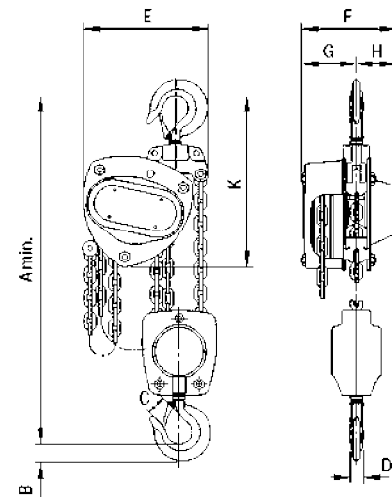
Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.



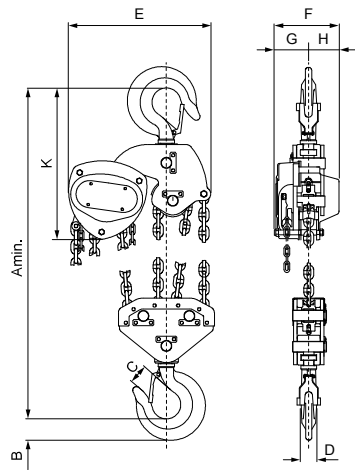
Optional: Chain container



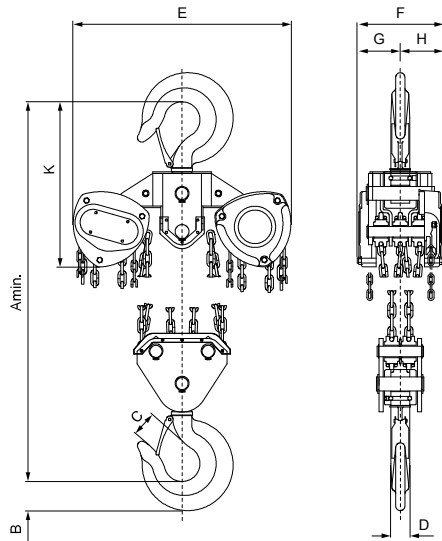
VS///, 250 - 3000 kg, single fall



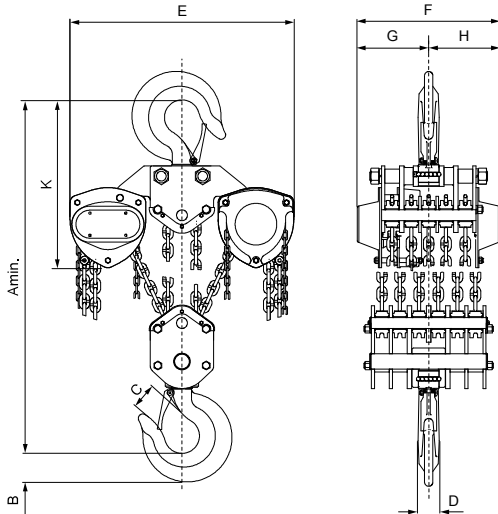
VS///, 2000 - 5000 kg, double fall



VS III, 10000 kg, four chain falls



VS III, 20000 kg, eight chain falls

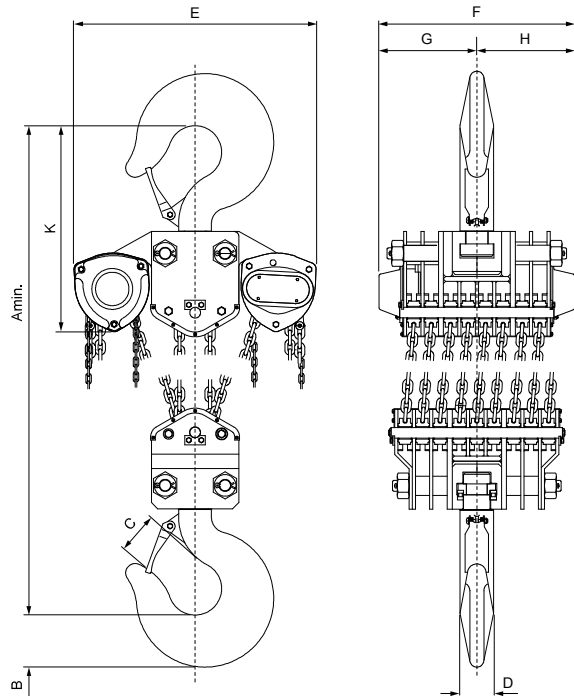
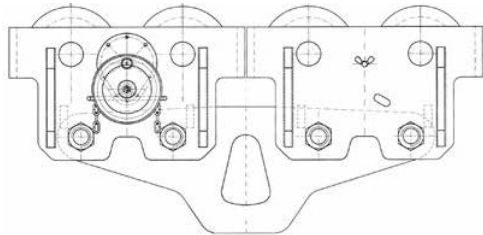


VS III, 30000 kg, twelve chain falls

INFO

HTG trolleys for hand chain hoists upwards 10000 kg
please see pages 54 - 57.

SERIES EXTENSION
NOW WITH HIGH SWL!
30000 - 50000 kg



VS III, 50000 kg, eighteen chain falls



Rotating hand chain guide!

360°

**EXPERIENCE THE
ADVANTAGE OF 360°**



We are pleased to send you our new Atex catalogue in PDF format.

INFO

Easy modification from Yalelift 360 to Yalelift IT is possible.

Yalelift 360

Hand chain hoist

Capacity 500 - 10000 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. They are optimally matched to the load sprocket and ensure safe and long-lasting operation of the unit.
- 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°.

Optional

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

Yale*lift* 360

Hand chain hoist, 20 t

Capacity 20000 kg

In spite of its high capacity, the Yale*lift* 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 1065 mm) allows maximum use of the lifting height.
- The Yale*lift* 360 20 t is equipped with six chain falls only which results in higher speed and lower weight.

Optional

- 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.



Chain guide



UPGRADE
SIMPLE & FLEXIBLE
FROM Yale*lift* 360 TO Yale*lift* IT

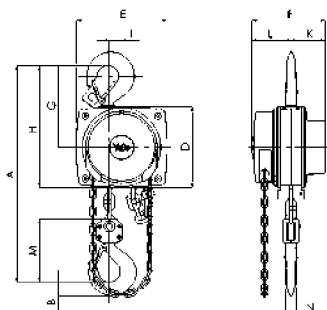
Technical data Yale/lift 360

Model	Art-No.	Capacity kg	Number of chain falls	Chain dimensions d x p in mm/ design	Lift per 1 m hand chain overhaul mm	Handle pull at WLL daN	Weight at standard lift (3 m) kg
YL 500	N04700109	500	1	5 x 15 - T	33	21	9
YL 1000	N04700110	1000	1	6 x 18 - T	20	30	13
YL 2000	N04700111	2000	1	8 x 24 - T	14	32	21
YL 3000	N04700112	3000	1	10 x 30 - V	12	38	34
YL 5000	N04700113	5000	2	10 x 30 - T	6	34	48
YL 10000	N04700075	10000	3	10 x 30 - V	4	44	71
YL 20000	N04700077	20000	6	10 x 30 - V	2	2 x 44	196

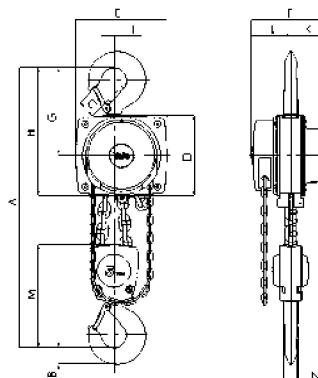


Dimensions Yalelift 360

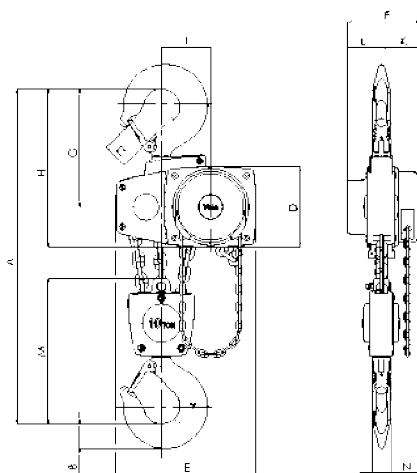
Model	YL 500	YL 1000	YL 2000	YL 3000	YL 5000	YL 10000	YL 20000
A min., mm	300	335	395	520	654	825	1.065
B, mm	17	22	30	38	45	68	85
C, mm	24	29	35	40	47	68	64
D, mm	133	156	182	220	220	220	303
E, mm	148	175	203	250	250	383	555
F, mm	148	167	194	219	219	219	250
G, mm	139	164	192	225	242	326	391
H, mm	206	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



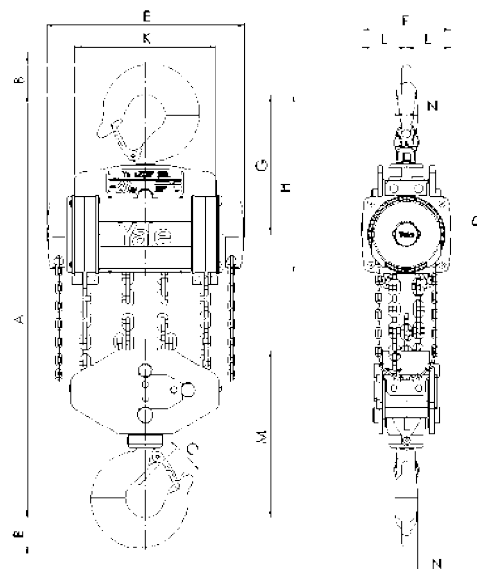
Yalelift 360, 500 - 3000 kg, single fall



Yalelift 360, 5000 kg, double fall



Yalelift 360, 10000 kg, three falls



Yalelift 360, 20000 kg, six falls



**EXPERIENCE THE
ADVANTAGE OF 360°**



Yalelift 360

ARCTIC EDITION

Hand chain hoist

Capacity 500 - 20000 kg

As with the Yalelift 360, we are also introducing the Yale UNOplus Series A in *ARCTIC EDITION*, a hand lever hoist for extreme applications.

It was ensured that all functions even under extremes temperatures work satisfactory. Materials used for this purpose as well as lubricants adapted to the requirements and tested and certified in complex low-temperature test procedures, which means that the user can work safely and productively with the YaleUNOplus Series A, allows temperatures down to -40°C.

In addition to static tests, dynamic low-temperature tests were also carried out to rule out malfunctions and material failure.

We can confirm the user's suitability with a certificate!

INFO

Standard hoists according to EN13157
(cranes - safety - hand operated cranes)

5.1.12 Temperature

Hand chain blocks and their components shall be capable of operating within an ambient temperature range of -10°C to +50°C unless another temperature range is agreed between the manufacturer and the purchaser. Standard hoist products from CMCO are suitable for a temperature range of -20°C to +50°C!

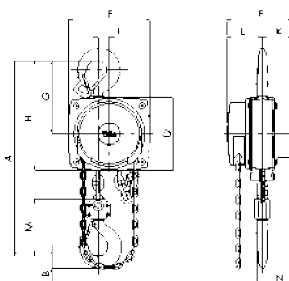


Technical data Yalelift 360 ARCTIC EDITION

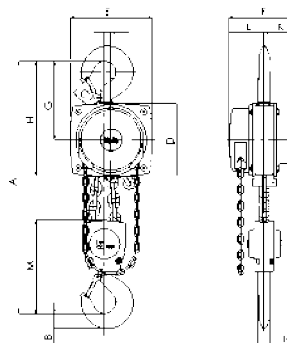
Model	Art-No.	Capacity kg	Number of chain falls	Chain dimensions d x p in mm/ design	Lift per 1 m hand chain overhaul mm	Handle pull at WLL daN	Weight at standard lift (3 m) kg
YL 500 ARCTIC EDITION	192099205	500	1	5 x 15 - T	33	21	9
YL 1000 ARCTIC EDITION	192099206	1000	1	6 x 18 - T	20	30	13
YL 2000 ARCTIC EDITION	192099207	2000	1	8 x 24 - T	14	32	21
YL 3000 ARCTIC EDITION	192099208	3000	1	10 x 30 - V	12	38	34
YL 5000 ARCTIC EDITION	192099209	5000	2	10 x 30 - T	6	34	48
YL 10000 ARCTIC EDITION	192099210	10000	3	10 x 30 - V	4	44	71
YL 20000 ARCTIC EDITION	192099211	20000	6	10 x 30 - V	2	2 x 44	196

Dimensions Yalelift 360 ARCTIC EDITION

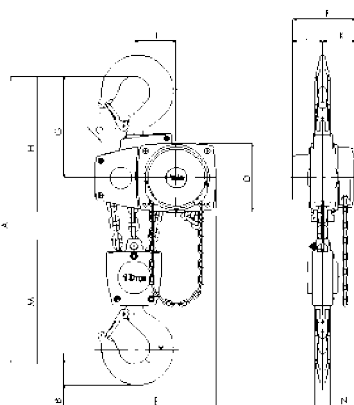
Model	YL 500 ARCTIC EDITION	YL 1000 ARCTIC EDITION	YL 2000 ARCTIC EDITION	YL 3000 ARCTIC EDITION	YL 5000 ARCTIC EDITION	YL 10000 ARCTIC EDITION	YL 20000 ARCTIC EDITION
A min., mm	300	335	395	520	654	825	1065
B, mm	17	22	30	38	45	68	85
C, mm	24	29	35	40	47	68	64
D, mm	133	156	182	220	220	220	303
E, mm	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



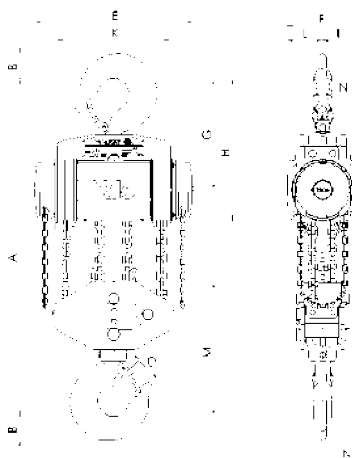
Yalelift 360, 500 - 3000 kg, single fall



Yalelift 360, 5000 kg, double fall



Yalelift 360, 10000 kg, three falls



Yalelift 360, 20000 kg, six falls



**EXPERIENCE THE
ADVANTAGE OF 360°**

Yalelift 360

**YLIT – Hand chain hoist
with integrated push or with
integrated geared trolley**

Capacity 500 - 20000 kg

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

Features

- All units of this series up to a capacity of 3000 kg are built with a single chain fall, the min. headroom (Dim. A) has been further reduced. Ideal for applications with low ceilings and limited headroom.
- The approved and almost stepless adjustment system of the trolley enables the simple and quick assembly due to adjusting nuts.
- Trolleys up to 5 t capacity are offered for two beam ranges; range A for a flange width of 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 pre-lubricated, encapsulated ball bearings.
- Anti-drop and anti-tilt devices as standard.

Optional

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

UPGRADE
SIMPLE & FLEXIBLE
FROM 360 TO Yalelift IT

Technical data Yale/lift ITP - with integrated push trolley

Model	Art-No.	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) kg
YL ITP 500	N04900044	500/1	A	50 - 180	19	0.9	20
YL ITP 1000	N04900045	1000/1	A	50 - 180	19	0.9	27
YL ITP 2000	N04900046	2000/1	A	58 - 180	19	1.15	44
YL ITP 3000	N04900047	3000/1	A	74 - 180	27	1.5	77
YL ITP 5000	N04900020	5000/2	A	98 - 180	27	2.0	125
YL ITP 500	—	500/1	B	180 - 300	19	0.9	21
YL ITP 1000	—	1000/1	B	180 - 300	19	0.9	29
YL ITP 2000	—	2000/1	B	180 - 300	19	1.15	46
YL ITP 3000	—	3000/1	B	180 - 300	27	1.4	79
YL ITP 5000	—	5000/2	B	180 - 300	27	1.8	129

Technical data Yale/lift ITG - with integrated geared trolley

Model	Art-No.	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) kg
YL ITG 500	N04900056	500/1	A	50 - 180	19	0.9	24
YL ITG 1000	N04900057	1000/1	A	50 - 180	19	0.9	32
YL ITG 2000	N04900058	2000/1	A	58 - 180	19	1.15	49
YL ITG 3000	N04900059	3000/1	A	74 - 180	27	1.5	82
YL ITG 5000	N04900060	5000/2	A	98 - 180	27	2.0	130
YL ITG 500	—	500/1	B	180 - 300	19	0.9	25
YL ITG 1000	—	1000/1	B	180 - 300	19	0.9	33
YL ITG 2000	—	2000/1	B	180 - 300	19	1.15	50
YL ITG 3000	—	3000/1	B	180 - 300	27	1.4	84
YL ITG 5000	—	5000/2	B	180 - 300	27	1.8	134
YL ITG 10000	N04900061	10000/3	B	125 - 310	40	1.8	202
YL ITG 20000 ¹	N04900055	20000/6	B	180 - 310	40	9.5	on request

¹Dimensions on request



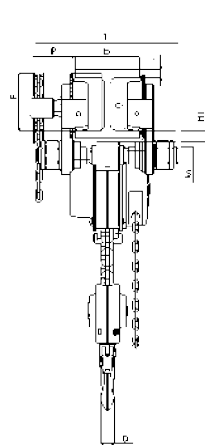
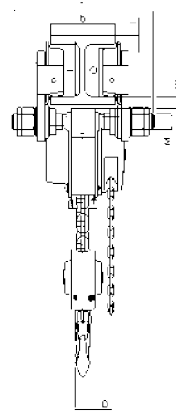
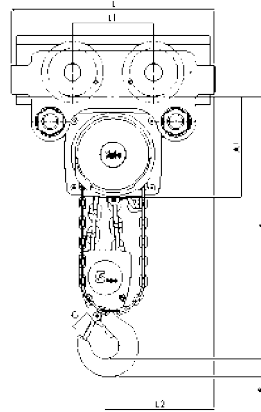
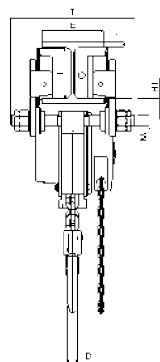
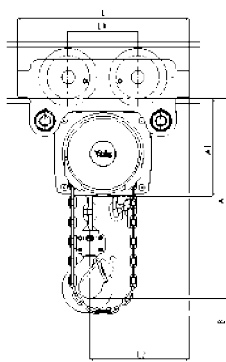
COMPLETE SERIES YALELIFT
**CAPACITIES FROM
 500 - 20000 KG**
 WITH
**INTEGRATED
 PUSH OR GEARED TROLLEY**



We are pleased to send you our new
 Atex catalogue in PDF format.

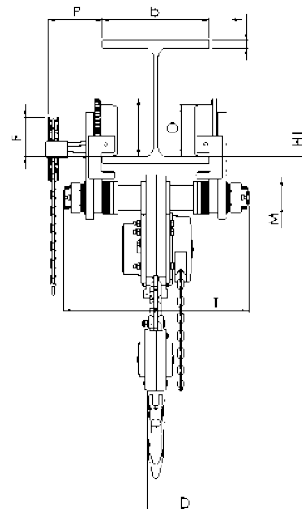
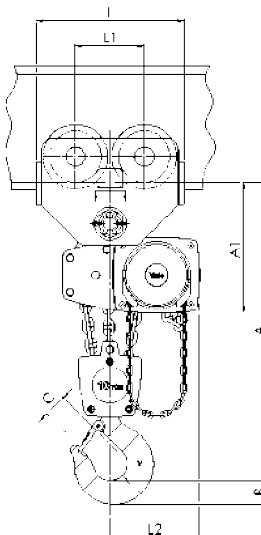
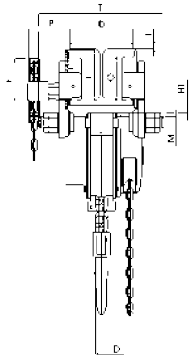
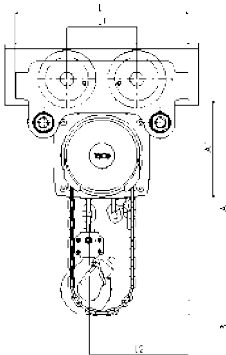
Dimensions Yale/lift ITP/ITG

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
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



Yale/lift ITP, 500 - 3000 kg, single fall

Yale/lift ITP/ITG, 5000 kg, double fall



Yale/lift ITG, 500 - 3000 kg, single fall

Yale/lift ITG, 10000 kg, three falls

Yale^{lift} 360

YLLH – Hand chain hoist with integrated push or with integrated geared trolley (low headroom)

Capacity 500 - 10000 kg

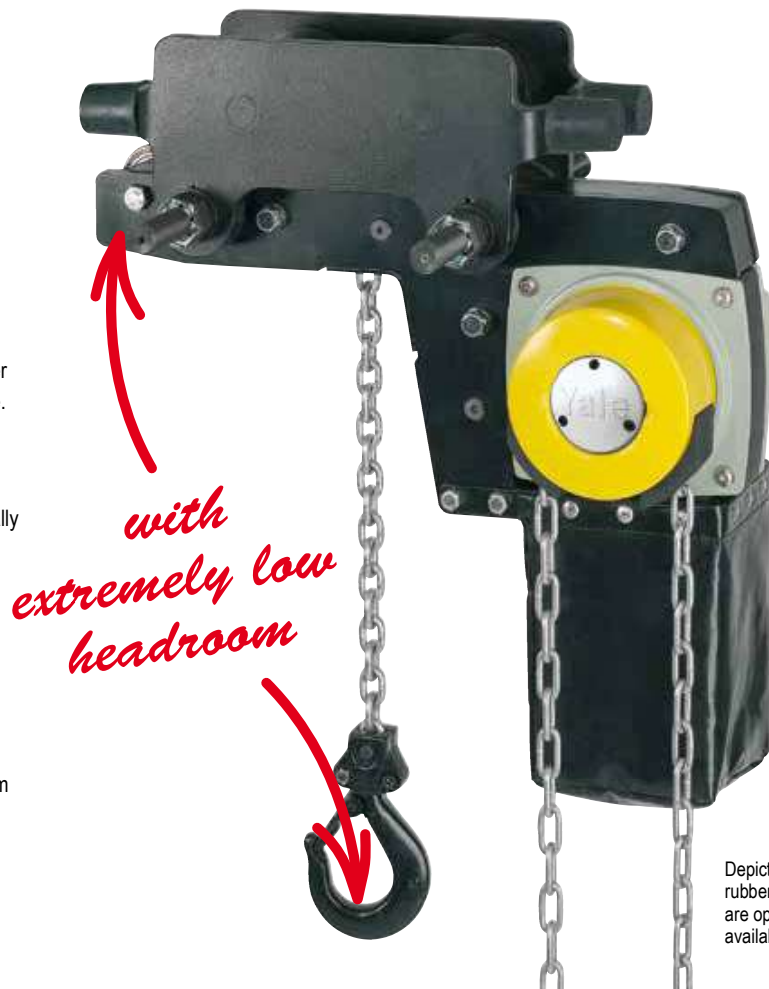
The hand chain hoist Yale^{lift} LH with integrated low headroom manual trolley is the consequent further development of the Yale^{lift} IT. Wherever an even smaller headroom is essential, the Yale^{lift} LH is the ideal choice.

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 Yale^{lift} LH uses the same manual trolleys as incorporated in the Yale^{lift} IT series.
- All units of this series up to a capacity of 3000 kg are built with a single chain fall.
- The approved and almost stepless adjustment system of the trolley enables the simple and quick assembly due to adjusting nuts.
- Trolleys up to 5 t capacity are offered for two beam ranges; range A for a flange width of 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 pre-lubricated, encapsulated ball bearings.
- The low headroom version of the Yale^{lift} IT is adjustable to fit a wide range of beam profiles (e.g. INP, IPE, IPB).
- Anti-drop and anti-tilt devices as standard.

Optional

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



Depicted rubber buffers are optionally available!

360°

**EXPERIENCE THE
ADVANTAGE OF 360°**



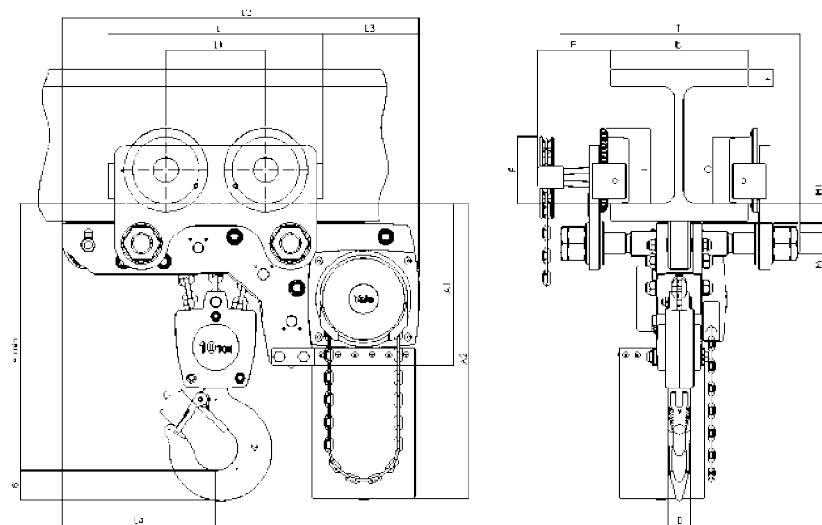
We are pleased to send you our new ATEX catalogue in PDF format.

Technical data Yale/lift LHP - with integrated push trolley

Model	Art-No.	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 (3m) kg
YLLHP 500	N05600017	500/1	A	60 - 180	19	0.9	27
YLLHP 1000	N05600018	1000/1	A	70 - 180	19	0.9	35
YLLHP 2000	N05600019	2000/1	A	82 - 180	19	1.15	61
YLLHP 3000	N05600020	3000/1	A	100 - 180	19	1.5	107
YLLHP 5000	N05600021	5000/2	A	110 - 180	27	2.0	152
YLLHP 500	—	500/1	B	180 - 300	19	0.9	27
YLLHP 1000	—	1000/1	B	180 - 300	19	0.9	36
YLLHP 2000	—	2000/1	B	180 - 300	19	1.15	62
YLLHP 3000	—	3000/1	B	180 - 300	19	1.4	109
YLLHP 5000	—	5000/2	B	180 - 300	27	1.8	156

Technical data Yale/lift LHG - with integrated geared trolley

Model	Art-No.	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 (3m) kg
YLLHG 500	N05600022	500/1	A	60 - 180	19	0.9	31
YLLHG 1000	N05600023	1000/1	A	70 - 180	19	0.9	40
YLLHG 2000	N05600024	2000/1	A	82 - 180	19	1.15	65
YLLHG 3000	N05600025	3000/1	A	100 - 180	19	1.5	112
YLLHG 5000	N05600026	5000/2	A	110 - 180	27	2.0	157
YLLHG 10000	192038865	10000/3	A	125 - 210	40	1.8	230
YLLHG 500	—	500/1	B	180 - 300	19	0.9	32
YLLHG 1000	—	1000/1	B	180 - 300	19	0.9	41
YLLHG 2000	—	2000/1	B	180 - 300	19	1.15	67
YLLHG 3000	—	3000/1	B	180 - 300	19	1.4	114
YLLHG 5000	—	5000/2	B	180 - 300	27	1.8	161
YLLHG 10000	N05600027	10000/3	B	190 - 310	40	1.8	232



Yale/lift LHG, 10000 kg, three falls



360°

**EXPERIENCE THE
ADVANTAGE OF 360°**



Yale **MINI 360** Hand chain hoist *new!*

Capacity 250 - 500 kg

The smallest of the Yale hand chain hoists has a compact design and a hand chain wheel cover that allows a rotation of 360°. This ensures a high level of safety, as it is possible to work outside the danger zone.

The housing of the new Yale MINI 360 is made of die-cast aluminium, which makes it a very lightweight hand chain hoist. Due to the low weight, there are countless possible applications, e.g. assembly work in industry, car repair shops, crafts etc.

Features

- With the 360° rotating hand chain guide, a very large work area can be covered, this makes it possible for the operator to stand clear of the danger zone.
- Compact design, light weight, easy to carry.
- Made of die-cast aluminium.
- Due to the compact housing, all internal parts are protected. The device can therefore also be used outdoors or in rough environments.
- The load pressure brake complies with all technical regulations, thus the load is held in any position.
- The standard equipment includes forged lifting and load hooks made from age-resistant high-alloy tempered steel, which open when overloaded without breaking. The hooks can be rotate through 360 degrees and are fitted with robust safety catches.
- The galvanized steel load chain complies with all applicable national and international regulations. The optimal fit to the load chain wheel ensures safe and long lasting operation.



Due to its size, the Yale MINI 360 fits into every tool box and supports the operator in his work.

Technical data YaleMINI 360

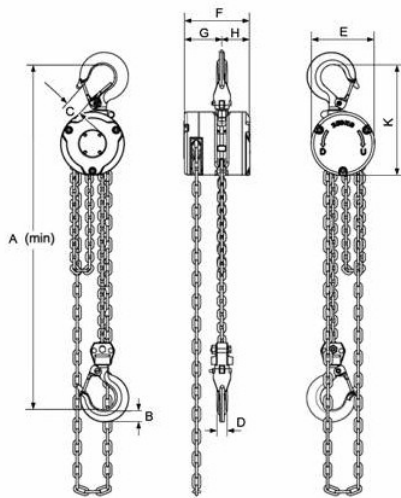
Model	Art.-No.	Capacity kg	Number of chain falls	Chain dimensions d x p in mm/ design	Lift per 1 m hand chain overhaul mm	Handle pull at WLL daN	Weight at standard lift (3 m) kg
YaleMINI 360 250	192084199	250	1	3 x 9 - T	40	25	2.9
YaleMINI 360 500	192084200	500	1	4 x 12 - T	25	24	4.3

Dimensions YaleMINI 360

Model	YaleMINI 360 250	YaleMINI 360 500
A min., mm	245	285
B, mm	17	22
C, mm	21	23
D, mm	13	18
E, mm	84	104
F, mm	87	101
G, mm	51	58
H, mm	36	43
K, mm	150	175

INFO

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



Lifting application



Pulling application



Corroded Yalelift with integrated trolley
– still functional after 9 years in use



**MKS coated hand chain hoist
Yalelift 360 with integrated trolley
and buffers.**

This is the standard version with the classification Atex Basic. However, the unit can also be used in non-explosive areas without hesitation.

Corrosion protection

What does corrosion actually mean?

Corrosion is a term from the Latin “corrodere” and means to decompose or eat away and is, from a technical point of view the reaction of a material with its environment. In popular speech, metals are also referred as “rusting”.

How does corrosion occur?

Nowadays, metals are exposed to a wide variety of environmental influences, such as climate and air pollution. This can change their structure. Especially with metals such as iron or steel, oxide formation has a negative effect on the material. Rust develops as a product of corrosion.

In untreated or damaged areas, humidity can hit the metal surface and thus attack it. The corresponding area begins to corrode to the point of rusting through completely.

Types of corrosion

Technically speaking, types of corrosion are classified according to material, cause and appearance and also according to where they occur.

The standard DIN EN ISO 8044 defines 37 different types of corrosion.

One of the best-known types of corrosion is contact corrosion, in which an electrochemical reaction between two different metallic materials in conjunction with e.g. humidity leads to corrosion of the less noble metal.

Other types of corrosion can be:

- pitting corrosion,
- surface corrosion,
- vibration corrosion cracking,
- gap corrosion, etc.

Areas of application

Corrosion-protected equipment with galvanised load or hand chains or rust and acid-resistant chains should be used wherever increased demands are made on corrosion resistance are required. Typical applications are in the food industry (e.g. dairies, slaughterhouses, etc.), the chemical industry (e.g. paper industry, colouring), agriculture or wastewater treatment plants.

Preventive corrosion protection

To prevent early corrosion, all our products are coated. This coating varies depending on the model and is carried out in the form of a wet coating, powder or MKS coating.

For specifications on corrosion protection, the DIN EN ISO 12944 series of standards is used in many cases. This series of standards is used for steel structures or structures whose components are made of unalloyed or low-alloyed steel with a thickness of at least 3 mm and which are designed in accordance with a structural safety designed.

We can only base our products on the corrosivity categories contained in this series of standards (see table below). For some models, increased corrosion protection can be achieved by applying additional or thicker coatings. You will find a detailed list on the next page.

INFO

Corrosion causes annually in Germany alone 75 billion € damage!

Corrosion protection classes in accordance to DIN EN ISO 12944

Atmospheric-Corrosivity categories, Corrosion stress	Corrosivity	Corrosion protection period	Protection period in years	Examples of typical environments
C1 very low	very low low-aggressive inside	short (L) medium (M) long (H) very long (VH)	up to 7 7 to 15 15 to 25 > 25	Only indoor rooms, insulated buildings 60% relative humidity
C2 low	low moderate aggressive outside/inside	short (L) medium (M) long (H) very long (VH)	up to 7 7 to 15 15 to 25 > 25	Slightly polluted atmosphere, dry climate, e.g. rural areas
C3 medium	moderate low-aggressive outside	short (L) medium (M) long (H) very long (VH)	up to 7 7 to 15 15 to 25 > 25	City and industrial atmosphere with moderate SO ₂ pollution or moderate climate
C4 high	high moderately aggressive outside/inside	short (L) medium (M) long (H) very long (VH)	up to 7 7 to 15 15 to 25 > 25	Industrial and coastal atmosphere with moderate salt pollution
C5 very high	very high aggressive outside/inside	short (L) medium (M) long (H) very long (VH)	up to 7 7 to 15 15 to 25 > 25	Industrial atmosphere with high relative humidity and aggressive atmosphere as well as coastal atmosphere with high salt content
CX extremely	very high maritim outside/inside	short (L) medium (M) long (H) very long (VH)	up to 7 7 to 15 15 to 25 > 25	Offshore areas with high salt content, industrial areas with extreme humidity and aggressive atmosphere as well as subtropical and tropical atmosphere

MKS Coating

The MKS coating (micro corrosion protection system) is a coating of zinc and aluminium lamellae which primarily protect the unit against corrosion. Even thin layers - typically a system consisting of base and top coat - can achieve high protective effects against base metal corrosion (red rust).

This MKS coating is used on the models Yale/lift 360 Atex and HTP/G Atex trolleys for use in explosion-protected areas, but also, for example in wastewater treatment plants.

Powder coating

This is a coating process in which a metal surface is coated with powder. A typical coating line consists of surface pre-treatment (cleaning and/or application of a conversion coating), intermediate drying, electrostatic coating zone and dryer. The workpieces are transported via a transport system. The powder coatings produced typically have layer thicknesses between 60 and 120 µm. However, depending on the application and surface characteristics, the coating thickness can also be above or below this range.

Wet painting

Varnish is a liquid coating material. This material is applied thinly to surfaces and built up into a continuous, solid film by chemical or physical processes (for example, evaporation of the solvent). Varnishes usually consist of binders such as resins, dispersions or emulsions, fillers, pigments, solvents and additives.

Coating types as standard:

Model	Coating type		
	Wet painting	Powder coating	MKS Coating
CD 85	+		
Yalelift 360		++	
YL with integrated trolley ¹	+	++	
HTP/G	+		
CPE/CPA (with integrated trolley/Atex)	+		
Yalelift 360 Atex			+++
YL Atex with integrated trolley			+++
HTP/HTG Atex			+++

¹ Hand chain hoist powder coated/trolley wet painted

Additional coating possible for:

Model	Coating type		
	Wet painting	Powder coating	MKS + Powder coating
CD 85	x		
Yalelift 360		x	
YL with integrated trolley ¹	x	x	
HTP/G	x		
CPE/CPA (with integrated trolley/Atex)	x		
Yalelift 360 Atex			x
YL Atex with integrated trolley			x
HTP/HTG Atex			x

¹ Hand chain hoist powder coated/trolley wet painted

All three types of coating have the same purpose:

- **Protection**
(protective effect, such as protective coating with combination of primer and top coat, protective varnishes),
- **Decoration**
(optical effect, specific colour effect) and
- **Function**
(special surface properties, such as modified electrical conductivity)

Selection criteria

The correct selection of an additional coating is essentially based on the following questions:

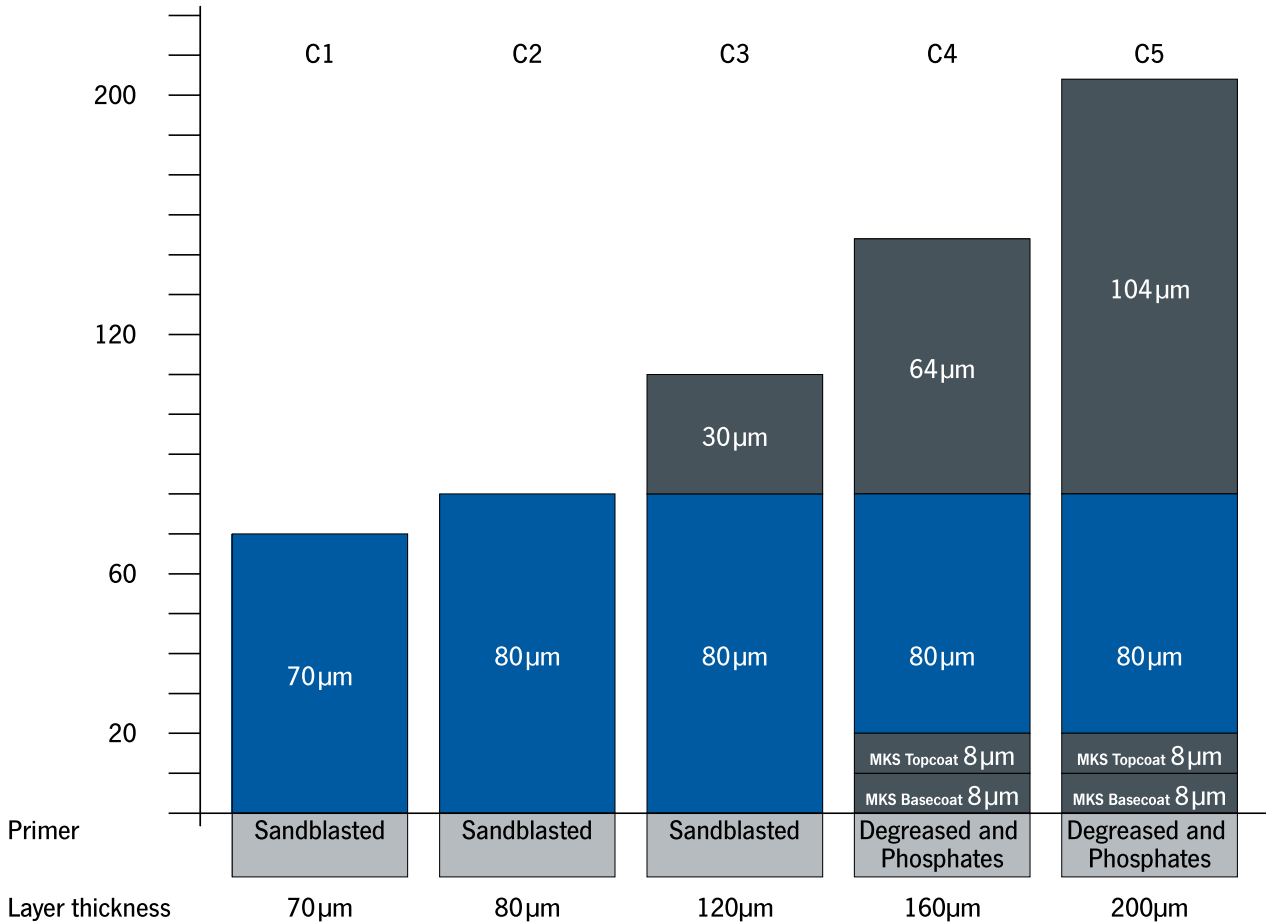
Where will the relevant equipment be used?

Chemical plants, refineries, off-/On-shore platforms etc.

What environmental stresses will the unit be exposed to?

This includes, for example, high humidity, industrial exhaust fumes, salty air, fluctuating temperature ranges, etc.

Layer thickness structure in general



Up to C3 we cover all standard coatings (wet painting and powder coating) on our products.
This means that the corrosivity categories C1 and C2 are also covered.

INFO

We expressly point out that abrasion of the coating occurs on all external moving parts, which reduces the coating thickness. Depending on the model and type of base coating, base metal corrosion can therefore not be completely ruled out.

When measuring the coating thickness, slight deviations from the values given here are possible, depending on the measuring point.

A coating protocol can be prepared on request, at an additional charge.

Inspection points of dry film thickness (DFT)

Order No.: _____
Model: _____
Serial No.: _____
Tag No.: _____

Note:
The dimensional unit for all specified measured values is µm!
P = Powder coating
N = Wet paint coating
MP = Measure Point

Date: _____
Sign: _____



HTP (Push trolley)



HTG (Geared trolley)

HTP and HTG Push and geared trolley

Capacity 500 - 50000 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 (up to 5000 kg capacity, from 8000 kg upwards the traverse is adjusted via sleeves and washers).
- The trolley wheels are designed for a max. beam profile incline of 14 % (DIN 1025 - part 1).

Optional

up to 20000 kg capacity:

- Rotating hand chain guide.
- Stainless steel hand chains.
- Locking device to secure the trolley in position on the beam (park position e.g. on ships).
- Both versions are also available with high-temperature bearings up to 350°. From 250° C, however, the load capacity is reduced to 90 % of the nominal load and from 300° C the corresponding capacity is reduced to 80 % of the nominal load.

all capacities:

- Buffers

SERIES EXTENSION
NOW WITH HIGH WWL!
30000 - 50000 kg

INFO

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

Technical data HTP

Model	Art.-No.	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	N05141273	500	A	50 - 220	25	0.9	–	8.0	14.5
HTP 1000	N05141274	1000	A	50 - 220	25	0.9	–	9.0	17.0
HTP 2000	N05141275	2000	A	66 - 220	25	1.15	–	16.0	24.0
HTP 3000	N05141276	3000	A	74 - 220	25	1.4	–	32.0	41.2
HTP 5000	N05141277	5000	A	90 - 220	25	1.8	–	48.0	58.5
HTP 500	N05148305	500	B	160 - 300	40	0.9	–	10.6	17.1
HTP 1000	N05148306	1000	B	160 - 300	40	0.9	–	12.0	20.0
HTP 2000	N05148307	2000	B	160 - 300	40	1.15	–	19.3	27.3
HTP 3000	N05148308	3000	B	160 - 300	40	1.4	–	35.8	45.0
HTP 5000	N05148309	5000	B	180 - 300	40	1.8	–	52.2	62.7

Technical data HTG

Model	Art.-No.	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	N05300006	500	A	50 - 220	25	0.9	3	9.7	16.2
HTG 1000	N05300007	1000	A	50 - 220	25	0.9	6	11.2	19.2
HTG 2000	N05300008	2000	A	66 - 220	25	1.15	7	18.0	26.0
HTG 3000	N05300009	3000	A	74 - 220	25	1.4	7	35.4	44.6
HTG 5000	N05300010	5000	A	90 - 220	25	1.8	9	51.8	62.3
HTG 500	N05300011	500	B	160 - 300	40	0.9	3	12.6	19.1
HTG 1000	N05300012	1000	B	160 - 300	40	0.9	6	14.1	22.1
HTG 2000	N05300013	2000	B	160 - 300	40	1.15	7	21.3	29.3
HTG 3000	N05300014	3000	B	160 - 300	40	1.4	7	39.2	48.4
HTG 5000	N05300015	5000	B	180 - 300	40	1.8	9	56.0	66.5
HTG 8000	N05300016	8000	B	125 - 310	40	1.8	14	104.0	–
HTG 10000	N05300017	10000	B	125 - 310	40	1.8	14	104.0	–
HTG 15000	N05300018	15000	B	125 - 310	40	5.0	29	230.0	–
HTG 20000	N05300019	20000	B	125 - 310	40	5.0	29	230.0	–
HTG 30000	192045613	30000	B	175 - 305	34	1.6	24	248.0	–
HTG 50000	192045614	50000	B	175 - 305	34	5.1	25	489.0	–

¹Weight without hand chain



We are pleased to send you our new Atex catalogue in PDF format.

Dimensions HTP

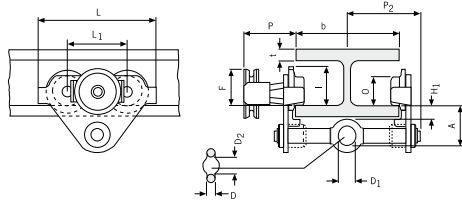
Model	HTP 500-A	HTP 1000-A	HTP 2000-A	HTP 3000-A	HTP 5000-A	HTP 500-B	HTP 1000-B	HTP 2000-B	HTP 3000-B	HTP 5000-B
A, mm	77	82.5	98.5	114	132.5	92	97.5	113.5	129	147.5
D, mm	16	17	22	26	33	16	17	22	26	33
D1, mm	25	30	40	48	60	25	30	40	48	60
D2, mm	30	35	47	58	70	30	35	47	58	70
F1, mm	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
H1, mm	30.5	30.5	30.5	30	30	45.5	45.5	45.5	45	49.5
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	177	177	177	180	187.5
L3, mm	346	346	396	476	556	346	346	396	476	556

Dimensions HTG

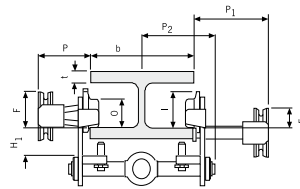
Model	HTG 500-A	HTG 1000-A	HTG 2000-A	HTG 3000-A	HTG 5000-A	HTG 500-B	HTG 1000-B	HTG 2000-B	HTG 3000-B	HTG 5000-B
A, mm	77	82.5	98.5	114	132.5	92	97.5	113.5	129	147.5
D, mm	16	17	22	26	33	16	17	22	26	33
D1, mm	25	30	40	48	60	25	30	40	48	60
D2, mm	30	35	47	58	70	30	35	47	58	70
F (HTG), mm	91.5	91.5	90.5	107.5	149.5	91.5	91.5	90.5	107.5	149.5
F1, mm	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
H1, mm	30.5	30.5	30.5	30	30	45.5	45.5	45.5	45	45
I (HTG), mm	76.5	76.5	98	132.5	148.5	76.5	76.5	98	132.5	148.5
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
P (HTG), mm	110	110	110	110	110	110	110	110	110	110
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
P3, mm	194	194	194	195	195	194	194	194	195	195

Dimensions HTG

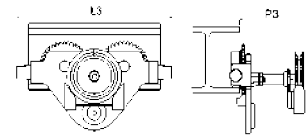
Model	HTG 8000-B	HTG 10000-B	HTG 15000-B	HTG 20000-B	HTG 30000-B	HTG 50000-B
A, mm	276	276	270	270	261	310
B, mm	52	52	70	70	65	100
D, mm	30	30	35	35	35	60
D1, mm	80	80	110	110	90	125
D2, mm	114	114	155	155	125	195
F (HTG), mm	113	113	113	113	93	93
F1, mm	77	77	—	—	—	—
H1, mm	45	45	45	45	40	40
I (HTG), mm	170	170	170	170	224	224
L, mm	430	430	870	870	625	1.260
L1, mm	200	200	200	200	296	296
L2, mm	—	—	115	115	164.5	164.5
O, mm	150	150	150	150	196	196
P (HTG), mm	163	163	163	163	165	165
P1, mm	193	193	—	—	—	—
T, mm	270	270	270	270	333	343
L3, mm	536	536	976	976	—	—



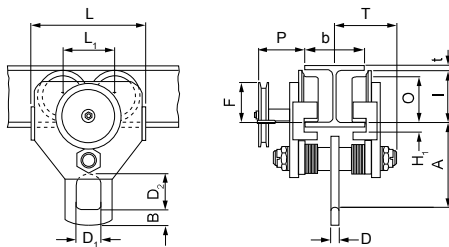
HTP/G, 500 - 5000 kg



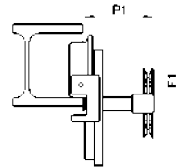
HTP/G, 500 - 5000 kg,
with locking device



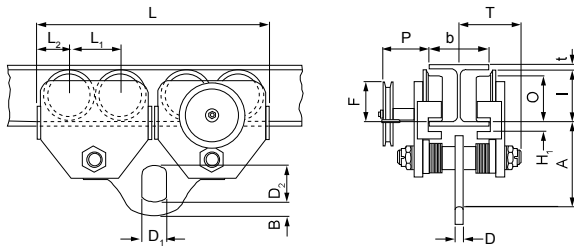
HTG, 500 - 5000 kg,
with rotating hand chain guide
and buffers



HTG, 10000 kg

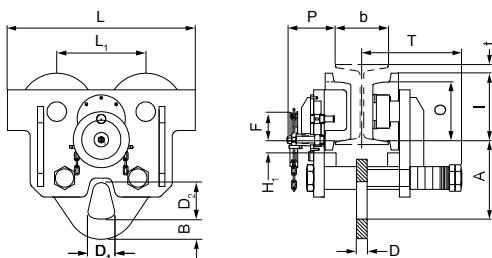


HTG, 10000 kg,
with locking device

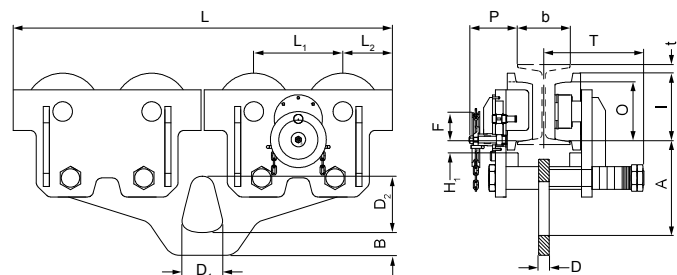


HTG, 15000 - 20000 kg

SERIES EXTENSION
NOW WITH HIGH WWL!
30000 - 50000 kg



HTG, 30000 kg



HTG, 50000 kg



CTP Trolley clamp

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 CTP

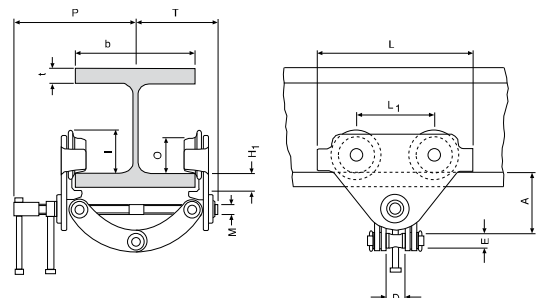
Model	Art.-No.	Capacity kg	Beam flange width b mm	Curve radius min. m	Weight kg
CTP 1-A	NO5500024	1000	60 - 150	0.6	2.5
CTP 2-A	NO5500025	2000	75 - 200	0.9	9.9
CTP 2-B	NO5500026	2000	200 - 300	0.9	10.3
CTP 3-A	NO5500027	3000	75 - 200	1.15	17.5
CTP 3-B	NO5500028	3000	200 - 320	1.15	19.5

Dimensions 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

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



VTE-U, VTEF-U Electric trolley with shackle

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 Ph, 50 Hz.
Single speed motors can be reconnected to 230 V, 3 Ph, 50 Hz.
- Motor protected to IP55 against dust and water jets.
Push-button pendant control IP65.
- 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.

Optional

- Low voltage control 42 V
- Rubber buffers
- 230 V, 1 Ph, 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 VTE-U, VTEF-U

Model	Art.-No.	Capacity	Travel speed	Motor	Beam flange width A ²	Beam flange thickness t max.	Curve radius min. at flange width A / B ² m	Weight at flange width A / B ² kg
		kg	m/min	kW	mm	mm		
VTE 1-A-18/U ¹	N06409625	1000	18 ¹	0.18	58 - 180	19	0.9/0.9	19.5/25.2
VTEF 1-A-18/4,5/U ¹	N06409943	1000	18/4.5 ¹	0.18/0.06	58 - 180	19	0.9/0.9	19.5/25.2
VTE 2-A-18/U ¹	N06409626	2000	18 ¹	0.18	58 - 180	19	1.15/1.15	26/30.2
VTEF 2-A-18/4,5/U ¹	N06409945	2000	18/4.5 ¹	0.18/0.06	58 - 180	19	1.15/1.15	26/30.2
VTE 3-A-11/U	N06409939	3000	11	0.37	74 - 180	27	1.5/1.4	51/53
VTEF 3-A-11/2,8/U	N06409947	3000	11/2.8	0.37/0.09	74 - 180	27	1.5/1.4	51/53
VTE 5-A-11/U	N06409941	5000	11	0.37	98 - 180	27	2.0/1.8	77/80
VTEF 5-A-11/2,8/U	N06409949	5000	11/2.8	0.37/0.09	98 - 180	27	2.0/1.8	77/80

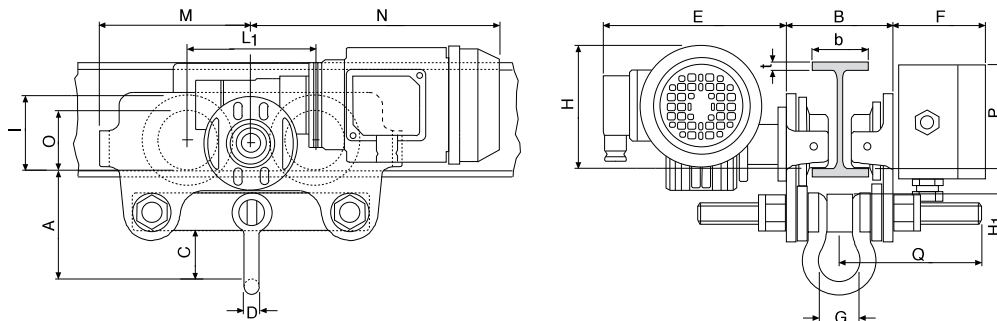
¹11 or 11/2.8 m/min travel speed on request

²Trolleys with beam flange width B are suitable for flange width of 180 - 300 mm

Dimensions VTE-U, VTEF-U

Model	VTE 1-A-18/U	VTE 2-A-18/U	VTE 3-A-11/U	VTE 5-A-11/U
A, mm	113	115	139	161
B, mm	b + 50	b + 54	b + 60	b + 70
C, mm	49	47	57	60
D, mm	16	16	19	22
E, mm	187	187	202	202
F, mm	94	94	94	94
G, mm	43	43	51	58
H, mm	129	128	144	178
H1, mm	24	24	32	32
I, mm	77	98	133	149
L1, mm	130	150	180	209
M, mm	155	180	208	263
N1G, mm	255	255	292	292
N2G, mm	263	263	296	296
O, mm	60	80	112	125
P, mm	123	123	129	121
Q, mm	145/205 ³	153/213 ³	160/220 ³	182/242 ³

³at beam flange width B



YC Beam clamp

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.



INFO

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

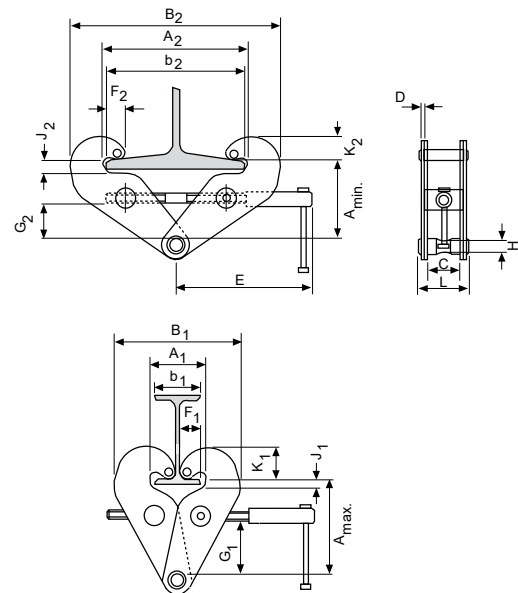
Suitable as a horizontal anchor point.
Can also be used as a lifting clamp.

Technical data YC

Model	Art.-No.	Capacity kg	Beam flange width mm	Weight kg
YC 1	NO5406181	1000	75 - 230	3.4
YC 2	NO5406182	2000	75 - 230	3.8
YC 3	NO5407417	3000	80 - 320	7.6
YC 5	NO5407418	5000	90 - 320	11.0
YC 10	NO5407419	10000	90 - 320	17.2

Dimensions 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	85	95	95
A2, mm	246	246	325	325	325
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	320	320
C, mm	50	50	70	70	70
D, mm	3	4	6	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	80	86	114	129	146





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 relationship between operating period under load, total operating time and the number of starts/hour.

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

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 intermittent 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

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

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

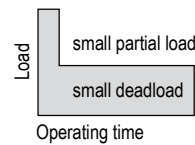
The average operating time can be estimated or calculated as follows:

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

2.2 Load spectrum

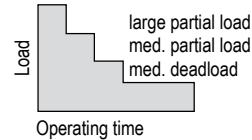
The load spectrum indicates to what extent a hoist or part thereof is subject to maximal stress or whether it is subject to smaller loads only. It can be calculated or estimated according to the diagrams on the right:

1 light



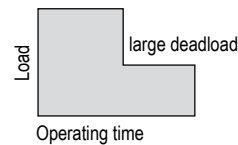
Hoists or parts thereof usually subject to very small loads and in exceptional cases only to maximum loads.

2 medium



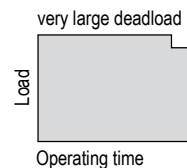
Hoists or parts thereof usually subject to small loads but rather often to maximum loads.

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.

2.3 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





Motor surface cooled

Protection	1 st digit		2 nd 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

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.

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 conditions².

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 time².

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 enclosure².

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
- ☐ vibrations
- ☐ static

Trolley drive

- ☐ motor
- ☐ manual

Operating voltage

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

Power frequency

- ☐ 50 Hz
- ☐ 60 Hz

Protection

- ☐ IP 54
- ☐ other



COMPLETE SERIES CPV
**CAPACITIES
125 - 5000 KG**
WITH
**SUSPENSION HOOK
AS STANDARD,
SUSPENSION LUG AS AN OPTION,
PUSH, GEARED OR
ELECTRIC TROLLEY**

Yale **CPV**

Electric chain hoist with suspension hook or with integrated trolley

Capacity 125 - 5000 kg

The electric chain hoist 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

- Increased operating safety through 42 V control voltage (low voltage control) and the main contactor.
- The integrated limit switch for the highest and lowest hook position considerably extends the service life of the slip clutch, motor and gearbox.
- Overload protection (slip clutch) in all CPV hoists is outside force flow to meet higher safety requirements.
- Electromagnetic spring pressure brake holds the load safely even in the event of power failure.
- Different suspension types available such as top hook, lug or an integrated trolley. A retro-fit to another type of suspension is possible.
- Any chain length (lifting height) as per customer order.
- Oil bath gearbox (or semifluid grease with CPV/F 2-8 and 5-4 as well as CPV 2-4 and 5-2) with helical gearing for particularly smooth service and enhanced lifetime.
- All-steel chain guide.
The chain guide of the smallest hoist CPV/F 2-8 and 5-4 as well as CPV 2-4 and 5-2 is a thermoplastic (POM) chain guide that is integral with the housing.
- CPV series are protected up to IP 55
- 2 year warranty (excluding wear parts).

INFO

Festooned cable systems please see pages 160 - 161.

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

Optional

- Other operating and control voltages.
- Flexible chain containers.
- Power supply cables, CEE plugs with phase changing switch.
- Radio remote controls, also acc. to DIN EN 13849-1, PL „d“.
- Pluggable control pendants.
- Wall mounted controls.
- Rotary limit switch as a back-up to standard limit switches.
- Frequency controllers, stepless and ramp controls.
- Suspensions 90° turned.
- Thermal sensors.



Optional:
Radio remote control



Optional:
with suspension lug

Yale **CPV**
Further standards

CPV „Quick Delivery“
24 h programme
Capacity 250 - 1000 kg

Features

- Top suspension hook
- Lifting height 6 m
- With chain container

SPECIAL MODEL CPV
“**QUICK DELIVERY**”
THE HOIST CAN BE SHIPPED
EX CMCO WUPPERTAL
WITHIN 24 HOURS

Technical data CPVF - 24 h “Quick Delivery” programme

Model	Art.-No.	Capacity kg	Number of chain falls	Lifting speed in m/min	
				main lift	fine lift
CPVF 2-8	192052434	250	1	8	2
CPVF 5-8	192052435	500	1	8	2
CPVF 10-8	192052436	1000	1	8	2

Technical data CPV/CPVF - 400 V, 3 Ph, 50 Hz

Capacity kg	Model	Number of chain falls	Chain dimensions d x p mm	Classification FEM/ISO	Lifting speed		Hoist motor rating kW	Motor rating ED %	Weight at standard lift (3 m) ¹		
					main lift m/min	fine lift m/min			suspension lug kg	push trolley ² kg	electric trolley ³ kg
125	CPV 2-8	1	4 x 12.2	3m/M6	8	–	0.37	75	17	26	31
125	CPVF 2-8	1	4 x 12.2	3m/M6	8	2	0.37/0.09	50/25	18	27	32
250	CPV 2-8	1	4 x 12.2	1Am/M4	8	–	0.37	50	17	26	31
250	CPVF 2-8	1	4 x 12.2	1Am/M4	8	2	0.37/0.09	33/17	18	27	32
250	CPVF 2-18	1	5 x 15.1	1Am/M4	18	4.5	0.75/0.18	33/17	27	42	50
320	CPV 5-8	1	5 x 15.1	3m/M6	8	–	0.75	67	26	41	49
320	CPVF 5-8	1	5 x 15.1	3m/M6	8	2	0.75/0.18	45/22	27	42	50
500	CPV 5-4	2	4 x 12.2	1Am/M4	4	–	0.37	50	20	29	34
500	CPVF 5-4	2	4 x 12.2	1Am/M4	4	1	0.37/0.09	33/17	21	30	35
500	CPV 5-8	1	5 x 15.1	1Am/M4	8	–	0.75	50	26	41	49
500	CPVF 5-8	1	5 x 15.1	1Am/M4	8	2	0.75/0.18	33/17	27	42	50
500	CPVF 5-18	1	7.1 x 20.5	1Am/M4	18	4.5	1.5/0.37	33/17	59	78	85
630	CPV 10-8	1	7.1 x 20.5	3m/M6	8	–	1.5	67	58	77	84
630	CPVF 10-8	1	7.1 x 20.5	3m/M6	8	2	1.5/0.37	45/22	59	78	85
1000	CPV 10-4	2	5 x 15.1	1Am/M4	4	–	0.75	50	28	43	51
1000	CPVF 10-4	2	5 x 15.1	1Am/M4	4	1	0.75/0.18	33/17	29	44	52
1000	CPV 10-8	1	7.1 x 20.5	1Am/M4	8	–	1.5	50	58	77	84
1000	CPVF 10-8	1	7.1 x 20.5	1Am/M4	8	2	1.5/0.37	33/17	59	78	85
1500	CPV 20-4	2	7.1 x 20.5	2m/M5	4	–	1.5	62	63	82	89
1500	CPVF 20-4	2	7.1 x 20.5	2m/M5	4	1	1.5/0.37	41/21	64	83	90
2000	CPV 20-4	2	7.1 x 20.5	1Am/M4	4	–	1.5	50	63	82	89
2000	CPVF 20-4	2	7.1 x 20.5	1Am/M4	4	1	1.5/0.37	33/17	64	83	90
2000	CPVF 25-8	1	11.3 x 31	2m/M5	8	2	3.6/0.9	39/20	85	147	161
2500	CPVF 25-8	1	11.3 x 31	1Am/M4	8	2	3.6/0.9	33/17	85	147	161
3200	CPVF 50-4	2	11.3 x 31	3m/M6	4	1	3.6/0.9	44/22	98	160	174
5000	CPVF 50-4	2	11.3 x 31	1Am/M4	4	1	3.6/0.9	33/17	98	160	174

CPV - 230 V, 1 PH, 50 HZ

125	CPV 2-4	1	4 x 12.2	3m/M6	4	–	0.37	35
250	CPV 2-4	1	4 x 12.2	1Bm/M3	4	–	0.37	25
500	CPV 5-2	2	4 x 12.2	1Bm/M3	2	–	0.37	25
500	CPV 5-8	1	5 x 15.1	1Bm/M3	8	–	1.0	25
1.000	CPV 10-4	2	5 x 15.1	1Bm/M3	4	–	1.0	25

¹Other lifting heights on request.

²For trolleys type A and B: Additional weight for geared trolley (VTG): 2.5 kg

³For electric trolley with 2 speeds (VTEF) +2.0 kg



Depicted
chain container
optionally
available.

Trolleys

Suitable for	Capacity of the trolley kg	Size	All trolleys			Electric trolley	
			Beam flange width b mm	Beam flange thickness t max. mm	Curve radius min. m	Travel speed m/min at 50 Hz	Motor kW at 50 Hz
CPV/CPVF 2-8/5-4, CPV 2-4/5-2	500	A	58 - 180	19	0.9	11 or 18	0.09
CPV/CPVF 2-8/5-4, CPV 2-4/5-2	500	B	180 - 300	19	0.9	11 or 18	0.09
CPV/CPVF 5-8/10-4, CPVF 2-18	1000	A	58 - 180	19	0.9	18 or 18/4.5 ¹	0.18 or 0.18/0.06
CPV/CPVF 5-8/10-4, CPVF 2-18	1000	B	180 - 300	19	0.9	18 or 18/4.5 ¹	0.18 or 0.18/0.06
CPV/CPVF 10-8/20-4, CPVF 5-18	2000	A	58 - 180	19	1.15	18 or 18/4.5 ¹	0.18 or 0.18/0.06
CPV/CPVF 10-8/20-4, CPVF 5-18	2000	B	180 - 300	19	1.15	18 or 18/4.5 ¹	0.18 or 0.18/0.06
CPVF 25-8/50-4	5000	A	98 - 180	27	2.0	11 or 11/2.8	0.37 or 0.3/0.09
CPVF 25-8/50-4	5000	B	180 - 300	27	1.8	11 or 11/2.8	0.37 or 0.3/0.09

¹Alternatively 11 or 11/2.8 m/min

Yale *CPV*

Options and features for applications

FOR CORROSIVE ENVIRONMENT & FOOD INDUSTRY

- Stainless steel load chains.
- Stainless steel load hooks for single fall hoists.
- Zinc- or copper- bottom blocks for double fall hoists.
- Zinc plated trolleys and/or 2-component topcoat.
- Food industry approved gearbox lubricants and grease (H1).
- Textile rain coats for hoists and trolleys.



FOR SIMULTANEOUS LIFTING

Yale offers solutions for lifting loads with two or more electric chain hoists simultaneously. Depending on the customer's application, the hoist system must meet various and sometimes very demanding requirements.

Please contact Columbus McKinnon to find a suitable solution.

- Radio or cable controls
- Movement selection: single or group movement
- On trolleys or as point hoists
- Coupled trolleys

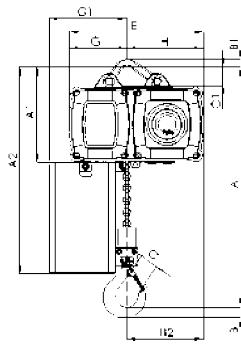
FOR CRANE BUILDING

- Beam locking device for trolleys
- Rubber buffers for trolleys
- Trolley travel end buffer stops
- 90° suspension on trolley
- Counter for operating hours
- Trolley travel end limit switches
- Signal horn or lamp for crane applications
- Festoon cable systems or other power supply
- Suspensions for light crane systems
- Crane operation pendants

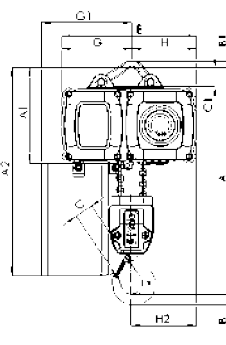
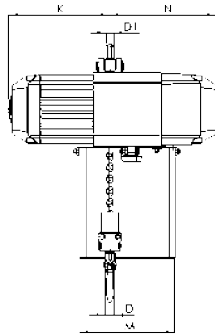
Dimensions CPV/CPVF

Model	CPV/CPVF 2-8 CPV 2-4	CPV/CPVF 5-4 CPV 5-2	CPVF 2-18 CPV/CPVF 5-8	CPV/CPVF 10-4	CPVF 5-18 CPV/CPVF 10-8	CPV/CPVF 20-4	CPVF 25-8	CPVF 50-4
A, mm	327	363	357	430	431	528	514	658
A1, mm	163	163	196	196	234	234	288	288
A2 (dimension with chain container), mm								
- Size I (for lifting height, m)	343 (15 m)	343 (7.5 m)	476 (10 m)	476 (5 m)	564 (12 m)	564 (6 m)	580 (13 m)	580 (6 m)
- Size II (for lifting height, m)	413 (32 m)	413 (16 m)	526 (22 m)	526 (11 m)	644 (18 m)	644 (9 m)	764 (25 m)	764 (12 m)
- Size III (for lifting height, m)	483 (52 m)	483 (26 m)	606 (40 m)	606 (20 m)	734 (25 m)	734 (12 m)	854 (30 m)	854 (15 m)
- Size IV (for lifting height, m)	—	—	798 (64 m)	798 (32 m)	934 (40 m)	934 (20 m)	—	—
B, mm	23	23	22	29	29	37	37	37
B1, mm	12	12	15	15	20	20	33	33
C, mm	30	30	29	35	35	40	46	46
C1, mm	30	30	38	38	45	45	71	71
C2, mm	105	105	105	105	154	154	194	194
D, mm	16	16	15	21	21	26	35	35
D1, mm	12	12	15	15	15	15	25	25
E, mm	205	205	277	277	326	326	409	409
G, mm	106	126	120	144	140	173	179	179
G1 (size I), mm	124	124	142	166	175	208	264	264
G1 (size II), mm	124	124	162	186	175	208	264	264
G1 (size III), mm	124	124	162	186	175	208	265	265
G1 (size IV), mm	124	124	162	186	175	208	—	—
H, mm	99	79	157	133	186	154	230	230
H2, mm	92	72	158	158	186	186	230	180
K, mm	215	215	208	208	285	285	335	335
M (size I), mm	157	157	162	162	209	209	300	300
M (size II), mm	157	157	197	197	209	209	300	300
M (size III), mm	157	157	197	197	209	209	301	301
M (size IV), mm	157	157	197	197	209	209	—	—
N ¹ , mm	159	159	219	219	274	274	299	299

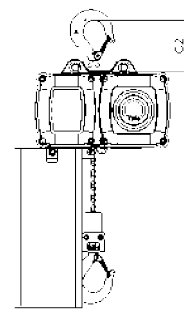
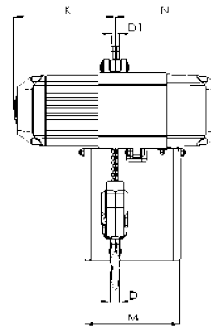
¹for 230 V, 1 Ph, 50 Hz: approx. +35 mm



CPV/CPVF
with suspension lug, 125 - 2500 kg, single fall



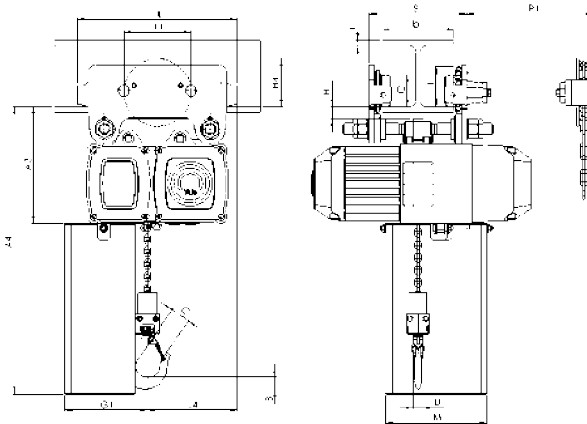
CPV/CPVF
with suspension lug, 500 - 5000 kg, double fall



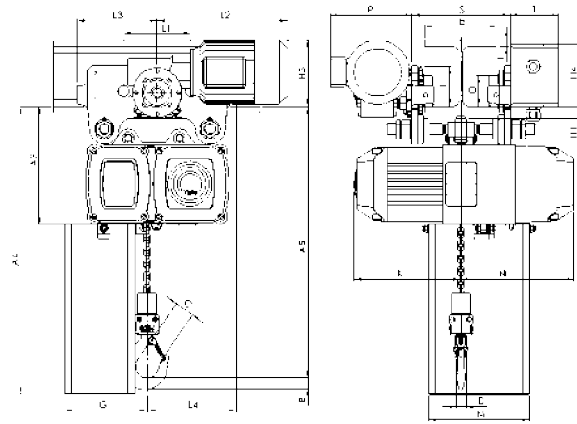
CPV/CPVF
with suspension lug, 250 - 2500 kg

Dimensions CPV/CPVF

Model	CPV/CPVF 2-8 CPV 2-4	CPV/CPVF 5-4 CPV 5-2	CPVF 2-18 CPV/CPVF 5-8	CPV/CPVF 10-4	CPVF 5-18 CPV/CPVF 10-8	CPV/CPVF 20-4	CPVF 25-8	CPVF 50-4
A3, mm	199	199	228	228	263	263	339	339
A4 (dimension with chain container), mm								
- Size I (for lift-height, m)	379 (15 m)	379 (7.5 m)	508 (10 m)	508 (5 m)	593 (12 m)	593 (6 m)	631 (13 m)	631 (6 m)
- Size II (for lift-height, m)	449 (32 m)	449 (16 m)	558 (22 m)	558 (11 m)	673 (18 m)	673 (9 m)	815 (25 m)	815 (12 m)
- Size III (for lift-height, m)	519 (52 m)	519 (26 m)	638 (40 m)	638 (20 m)	768 (25 m)	768 (12 m)	905 (30 m)	905 (15 m)
- Size IV (for lift-height, m)	—	—	830 (64 m)	830 (32 m)	968 (40 m)	968 (20 m)	—	—
A5, mm	365	401	389	462	460	558	648	738
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	A = 98 - 180 B = 180 - 300	A = 98 - 180 B = 180 - 300
H1, mm	25	25	24	24	23	23	30	30
H3, mm	113	113	129	129	129	129	178	178
H4 (VTG), mm	95	95	95	95	95	95	149	149
H4 (VTE), mm	142	142	142	142	142	142	121	121
I (Push trolley), mm	72	72	72	72	96	96	142	142
I (Geared trolley), mm	76	76	77	77	98	98	149	149
L (VTP/VTG), mm	310	310	310	310	360	360	525	525
L1, mm	130	130	130	130	150	150	209	209
L2 (VTE), mm	255	255	255	255	255	255	292	292
L2 (VTEF), mm	222	222	263	263	263	263	296	296
L3, mm	135	135	155	155	180	180	263	263
L4, mm	131	111	173	161	203	203	258	208
O, mm	60	60	60	60	80	80	125	125
P, mm	171	171	180	180	180	180	172	172
P1, mm	236	236	246	246	246	246	233	233
S, mm	b + 50	b + 50	b + 50	b + 50	b + 54	b + 54	b + 70	b + 70
T, mm	94	94	94	94	94	94	94	94
tmax., mm	12	12	19	19	19	19	27	27



CPV/CPVF
with integrated manual push or geared trolley



CPV/CPVF
with integrated electric trolley



The delivered product may differ from the product shown in the image.

Optional

- 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).
- Radio remote control
- Control for synchronized operation of several hoists.
- Manual and electric trolleys.
- Festooned cable system or conductor rail system

CPEF Electric chain hoist with suspension lug or with integrated trolley

Capacity 1600 - 7500 kg

The CPEF 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 1Am/M4, except CPEF 20-8, CPEF 30-5 und CPEF 40-4 with classification 1Bm/M3.
 - 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.
 - 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 Ph, 50 Hz.
 - Motor protected to IP 55, insulation class F, against ingress of dust and water jets.
 - 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.
 - 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.

CPEF 100-2 Electric chain hoist with suspension hook or with integrated trolley

Capacity 10000 kg

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

Optional

- Stainless steel load chain.
- Flexible chain container.
- Other operating voltages
- Motor with stainless steel brake.
- Radio remote control
- Festooned cable system or conductor rail 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 160 - 161.



The delivered product may differ from the product shown in the image.



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



Universal connection
to suspension hook, trolley or steel structures.



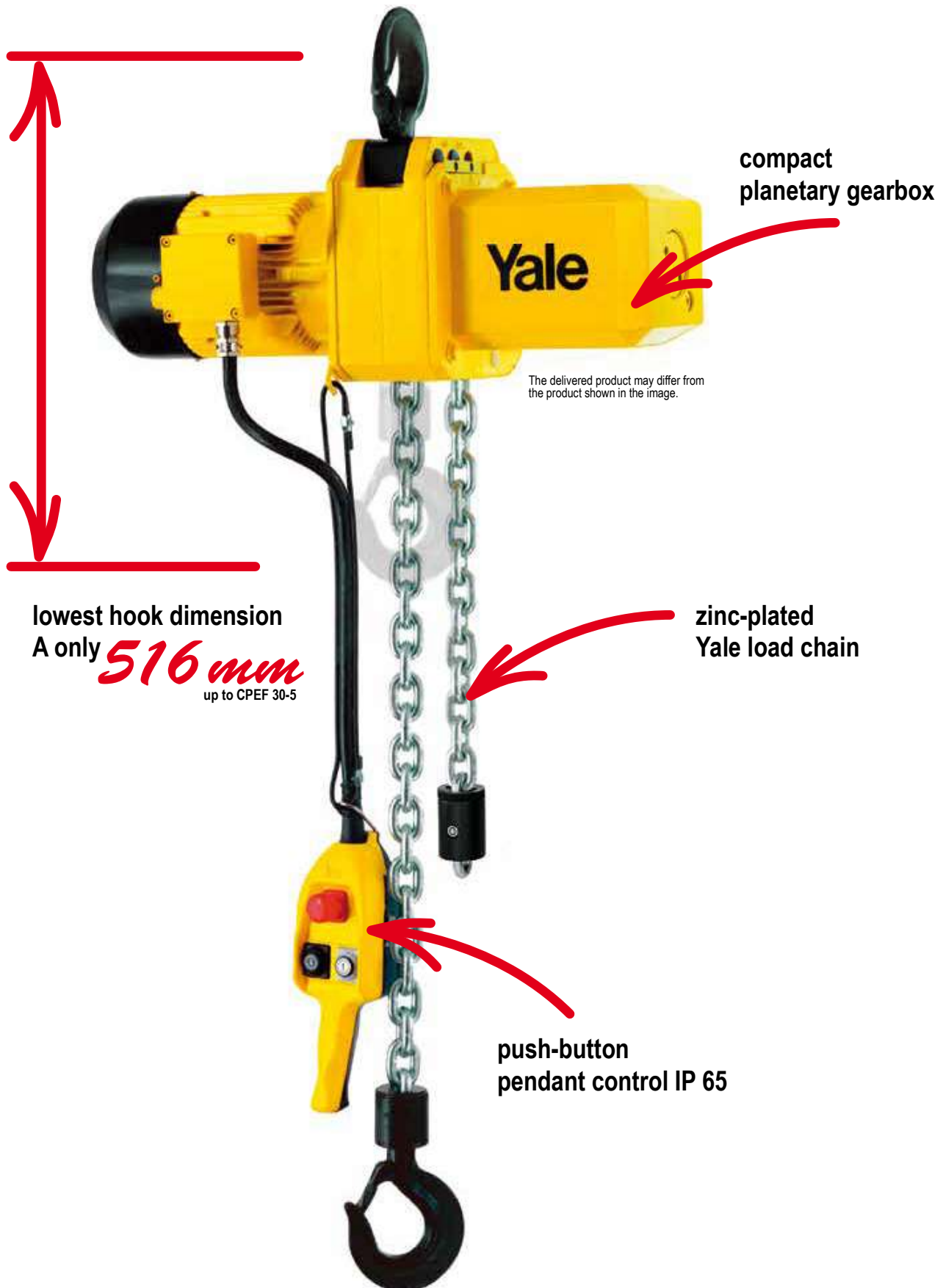
Double fall bottom block
for capacities between 3200 up to 5000 kg.



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



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



Technical data CPEF - 400 V, 3 Ph, 50 Hz

Model	Art.-No. CPEF with suspension hook	Capacity in kg/ Number of chain falls	Chain dimensions d x p mm	Classification FEM/ISO	Lifting speed		Hoist motor rating kW	Motor rating ED %
					main lift m/min	fine lift m/min		
CPEF 16-8	N06000246	1600/1	11.3 x 31	1Am/M4	8	2	2.3/0.58	40/20
CPEF 20-8	N06000248	2000/1	11.3 x 31	1Bm/M3	8	2	2.8/0.7	25/15
CPEF 25-5	N06000250	2500/1	11.3 x 31	1Am/M4	5	1.25	2.3/0.58	40/20
CPEF 30-5	N06000252	3000/1	11.3 x 31	1Bm/M3	5	1.25	2.8/0.7	25/15
CPEF 32-4	N06000254	3200/2	11.3 x 31	1Am/M4	4	1	2.3/0.58	40/20
CPEF 40-4	N06000256	4000/2	11.3 x 31	1Bm/M3	4	1	2.8/0.7	25/15
CPEF 50-2	N06000258	5000/2	11.3 x 31	1Am/M4	2.5	0.6	2.3/0.58	40/20
CPEF 75-1,6	N06000278	7500/3	11.3 x 31	1Am/M4	1.6	0.4	2.8/0.58	40/20
CPEF 100-2	N06041607	10000/4	11.3 x 31	1Am/M4	2.5	0.6	2 x 2.3/0.58	40/20

Model	Weight at standard lift (3 m) ¹		
	Suspension hook kg	Manual geared trolley kg	Electric trolley kg
CPEF 16-8	93	159	171
CPEF 20-8	93	159	171
CPEF 25-5	93	159	171
CPEF 30-5	93	159	171
CPEF 32-4	112	178	189
CPEF 40-4	112	178	189
CPEF 50-2	112	178	189
CPEF 75-1,6	226	326	348
CPEF 100-2	287	390	413

¹Other lifting heights on request.



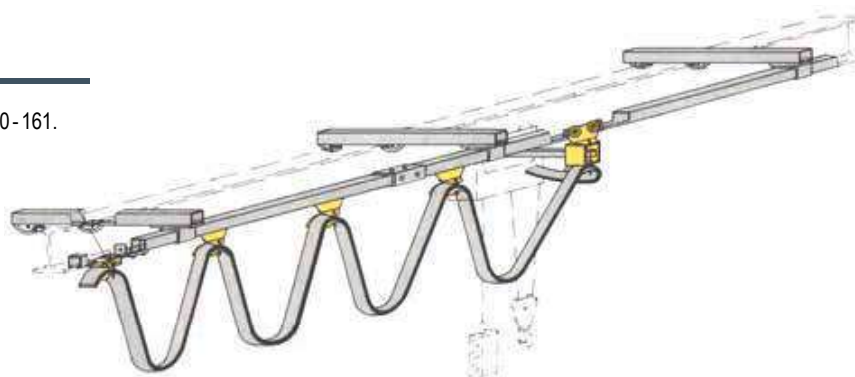
The delivered product may differ from the product shown in the image.

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	11/2.8	0.3/0.09
1600 - 5000	B	180 - 300	27	1.8	11/2.8	0.3/0.09
7500 - 10000	B	125 - 310	40	1.8	5/1.25	0.55/0.12

INFO

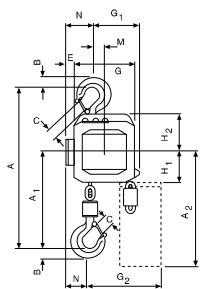
Festooned cable systems please see pages 160 - 161.



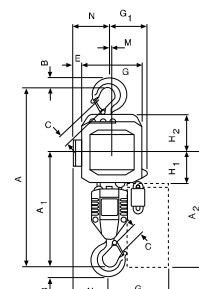
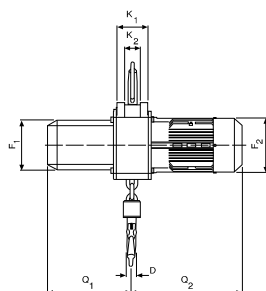
Dimensions CPE¹/CPEF

Model	CPE ¹ /CPEF 16-8	CPE ¹ /CPEF 20-8	CPE ¹ /CPEF 25-5	CPE ¹ /CPEF 30-5	CPE ¹ /CPEF 32-4	CPE ¹ /CPEF 40-4	CPE ¹ /CPEF 50-2	CPE ¹ /CPEF 75-1,6	CPE ¹ /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	45/50	45/50	45/50	45/50	45/50	45/50	45/50	—	—
F1, mm	160	160	160	160	160	160	160	160	160
F2, mm	184/195	184/195	184/195	184/195	184/195	184/195	184/195	184/195	184/195
G, mm	220	220	220	220	220	220	220	220	—
G1, mm	180	180	180	180	140	140	140	293/298	340/345
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	105/110	105/110	105/110	105/110	145/150	145/150	145/150	136	390
Q1, mm	280	280	280	280	280	280	280	280	280
Q2, mm	382/438	382/438	382/438	382/438	382/438	382/438	382/438	382/438	382/438

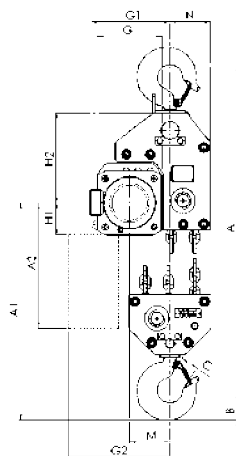
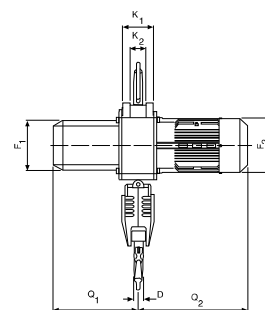
¹ The model CPE (single speed hoist) is available on request. Please consider the deviating motor dimensions in the above table.



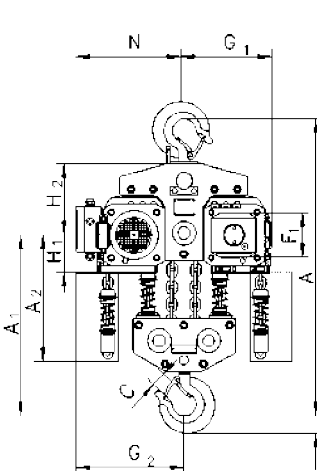
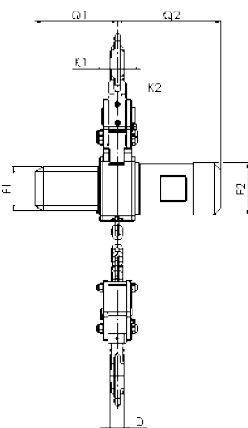
CPE¹/CPEF with suspension hook, 1600 - 3000 kg, single fall



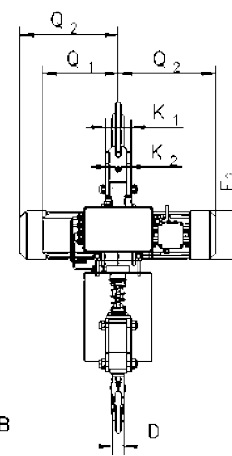
CPE¹/CPEF with suspension hook, 3200 - 5000 kg, double fall



CPE¹/CPEF 75-1,6 with suspension hook, 7500 kg

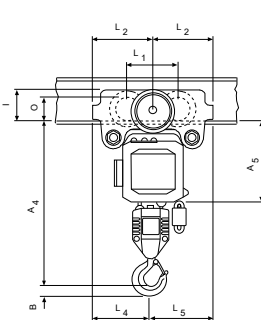


CPE¹/CPEF 100-2 with suspension hook, 10000 kg

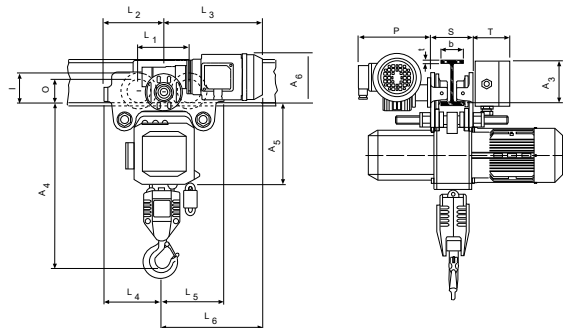


Dimensions CPEF

Model	CPEF 16-8	CPEF 20-8	CPEF 25-5	CPEF 30-5	CPEF 32-4	CPEF 40-4	CPEF 50-2	CPEF 75-1,6	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	148.5	148.5	148.5	148.5	148.5	148.5	148.5	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



CPE1/CPEF with integrated manual geared trolley



CPE1/CPEF with integrated electric trolley

