

Yale

HOISTING EQUIPMENT



Hoisting Equipment

Yale and Pfaff-silberblau hoisting equipment products are reliable and proven equipment renowned world-wide for applications in industry, trade and services.

The comprehensive range includes manual and powered hoisting equipment for a safe lifting and handling of loads ranging from 125kg to 20000kg. The products feature a long service life as well as easy and quick maintenance or repair.

Yale and Pfaff-silberblau hoisting equipment products comply with national and international regulations such as the EC Machinery Directive 2006/42/EC and corresponding supplements. In order to meet our high quality standard, the devices are subjected to an overload test in the factory and provided with a test certificate and operating instructions with a declaration of conformity or a manufacturer's declaration.

INFO

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

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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:

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

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

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

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

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

1.2 Short time duty

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

1.3 Calculation example intermittant duty

Electric chain hoist	:	CPV 5-8
Lifting speed	:	8m/min
Lifting height	:	2,8m
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:

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

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 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 12mm.

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.

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

Technical questionnaire to identify a suitable electric chain hoist

Company: _____

Date: _____

Contact: _____

e-Mail: _____

Phone: _____

Fax: _____

Details about intended use

Required capacity

Lifting height

Ambient conditions

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

How long is the hoist in operation

- _____ Load cycles per hour
- _____ Hours per day
- _____ Days per week
- _____ Distance covered per lifting cycle

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

Type of load

- Permanent
- Changing
- Shocks
- Vibration
- Static

Trolley drive

- Motor
- Manual

Hook suspension

Other

Operating voltage

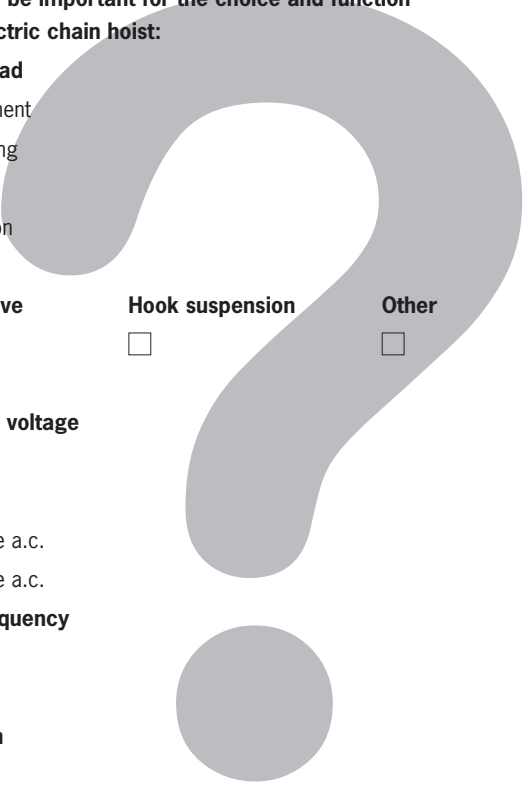
- 400V
- 230V
- 3-phase a.c.
- 1-phase a.c.

Power frequency

- 50Hz
- 60Hz

Protection

- IP 54
- Other





Electric chain hoist with suspension hook model CPS

Capacity 125 - 500 kg

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

Features

- Classification: 1 Am/M4 resp. 1 Bm/M3 at 230V, 1-phase, 50Hz. On request, the classification can be modified by derating the capacity and duty cycle.
- The standard version comes with direct control.
- Two year warranty (excluding wear parts).
- Thermal overload protection as standard.
- Duty cycle 30% ED resp. 25% ED at 230V, 1-phase, 50Hz.
- Safe hold of the load even in case of electric failure due to electromagnetic spring pressure brake.
- Standard operating voltage: Euro-voltage 400V, 3-phase, 50Hz resp. 125kg also as 230V, 1-phase, 50Hz version.
- Motor protected to IP54, against ingress of dust and splashing.
- Push-button pendant control, IP65 against ingress of dust and water jets from all directions.
- The overload protection (slip clutch) avoids overloading and extends the lifetime of the hoist.
- Robust aluminium housing, powder coated.
- Extremely low headroom for use in applications with limited room.
- The standard case hardened and zinc-plated link chain is matched perfectly to the load chain to guarantee smooth and precise chain motion. All requirements of national and international standards and regulations are fulfilled.
- The 10-pocket load sheave ensures smooth running of the chain and minimizes chain wear.
- Drop forged suspension and load hooks are made from non-aging, high tensile steel and fitted with robust safety latches.

INFO

Festooned cable systems please see pages 140-141.

Options

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

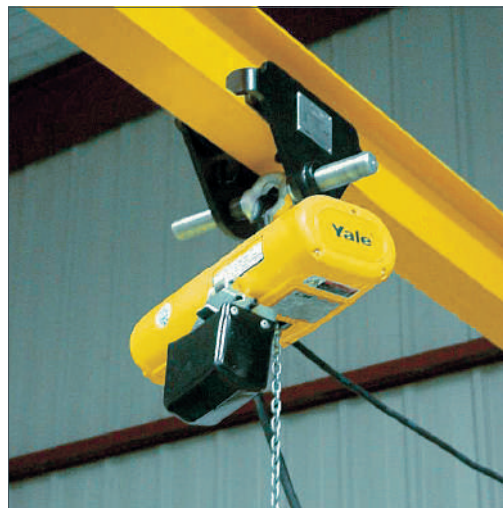
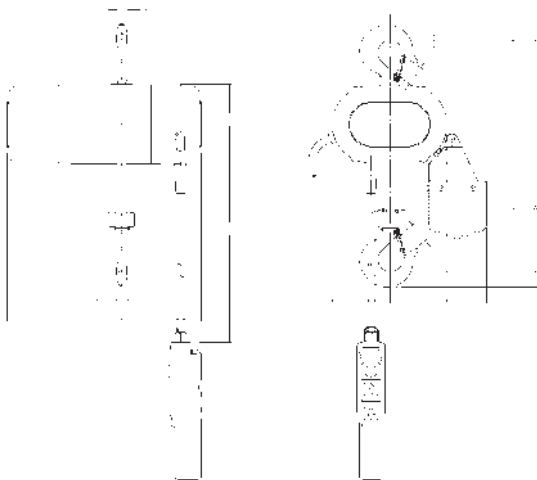
Technical data model CPS

Model	EAN-No. 4025092*	Capacity in kg/ number of chain falls	Standard lifting height m	Chain dimensions d x p mm	Classification FEM/ISO	Lifting speed m/min	Hoist motor kW	Weight kg	Operating voltage
CPS 1-4	*076654	125/1	3	4x12.2	1 Bm/M3	4	0.10	11.5	230V/1 Ph/50Hz
CPS 1-10	*076661	125/1	3	4x12.2	1 Am/M4	10	0.25	11.5	400V/3 Ph/50Hz
CPS 2-6	*076678	250/1	3	4x12.2	1 Am/M4	6	0.28	11.5	400V/3 Ph/50Hz
CPS 5-3	*076685	500/2	3	4x12.2	1 Am/M4	3	0.28	12.5	400V/3 Ph/50Hz

Dimensions model CPS

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

¹Dimensions at standard lift (3m).



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

INFO

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



High speed units up to 18 m/min available

Options

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

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

Capacity 250 - 2000 kg

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

Features

- Classification 1 Am/M4. For 1-phase hoists: 1 Bm/M3. As required (with appropriate changes to lifting capacity resp. duty cycle) the model CPV can also be re-classified up to 3m/M6.
- Main contactor as standard, for increased safety.
- Increased operating safety through 42V control voltage (low voltage control), push-button pendant control, IP65.
- 2 year warranty (excluding wear parts) and a lifetime lubricated gearbox.
- Duty cycle 50% ED for single speed.
- Electromagnetic spring pressure brake holds the load safely even in the event of power failure.
- Standard operating voltage: Euro-voltage 400V, 3-phase, 50Hz.
- Motor protected to IP55 (acc. to VDE 0530), against ingress of dust and water jets.
- The externally adjustable slip clutch is designed to guarantee a permanent connection between the load and the brake.
- The standard, oil bath lubricated and case hardened gearbox has a helical gearing for particularly smooth running and enhanced lifetime. Greased gearbox by CPV/F 2-8.
- Suspension lug for compact dimensions and easy integration in closed-eye constructions.
- Steel chain guide, model CPV/F 2-8 comes with chain guides made of POM.

INFO

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

1-phase units are single speed only!

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

Technical data model CPV/CPVF

Model	EAN-No. 4025092* 4053981**	Capacity in kg/ number of chain falls	Chain dimensions d x p mm	Classification FEM/ISO	Lifting speed main lift m/min	Lifting speed fine lift m/min	Hoist motor kW	Motor rating ED %	Weight ¹ suspension lug kg	Weight ¹ push trolley ² kg	Weight ¹ electric trolley ³ kg
CPV 2-8	–	250/1	4x12.2	1 Am/M4	8	–	0.37	50	on request	on request	on request
CPVF 2-8	**874067	250/1	4x12.2	1 Am/M4	8	2	0.37/0.09	33/17	19	28	33
CPVF 2-18	*925341	250/1	5x15.1	1 Am/M4	18	4.5	0.75/0.18	33/17	27	42	50
CPV 5-4	–	500/2	4x12.2	1 Am/M4	4	–	0.37	50	on request	on request	on request
CPVF 5-4	**874074	500/2	4x12.2	1 Am/M4	4	1	0.37/0.09	33/17	19	28	33
CPV 5-8	*173766	500/1	5x15.1	1 Am/M4	8	–	0.75	50	26	41	49
CPVF 5-8	*173803	500/1	5x15.1	1 Am/M4	8	2	0.75/0.18	33/17	27	42	50
CPVF 5-18	*303729	500/1	7.1x20.5	1 Am/M4	18	4.5	1.5/0.37	33/17	59	78	85
CPV 10-4	*174473	1000/2	5x15.1	1 Am/M4	4	–	0.75	50	28	43	51
CPVF10-4	*174725	1000/2	5x15.1	1 Am/M4	4	1	0.75/0.18	33/17	29	44	52
CPV 10-8	*173797	1000/1	7.1x20.5	1 Am/M4	8	–	1.5	50	58	77	84
CPVF10-8	*173780	1000/1	7.1x20.5	1 Am/M4	8	2	1.5/0.37	33/17	59	78	85
CPV 20-4	*174480	2000/2	7.1x20.5	1 Am/M4	4	–	1.5	50	63	82	89
CPVF 20-4	*174459	2000/2	7.1x20.5	1 Am/M4	4	1	1.5/0.37	33/17	64	83	90

¹Weight at standard lift (3m). Other lifting heights on request.

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

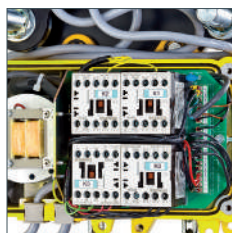
³For electric trolley (VTE) with 2 speeds +2.0kg

Lifting speed CPV 10-8 at 230V, 1-phase, 50Hz = 4 m/min

Lifting speed CPV 20-4 at 230V, 1-phase, 50Hz = 2 m/min

INFO

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



Increased operating safety through 42V control voltage



Externally adjustable slip clutch



Integrated limit switch



Depicted suspension hook and chain container optionally available.

Option: radio remote control

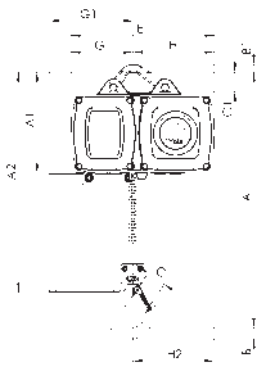
Technical data trolleys

Suitable for model	Capacity kg	Size	Beam flange width b mm	Beam flange thickness t max. mm	Curve radius min. m	Electric trolley travel speed m/min at 50Hz	Electric trolley motor kW at 50Hz
CPV/CPVF 2-8 up to CPVF 5-4	500	A	58 - 180	12	0.9	11 or 18	0.09
CPV/CPVF 2-8 up to CPVF 5-4	500	B	180 - 300	19	0.9	18 or 18	0.09
CPV 5-8 up to CPVF 10-4	1000	A	58 - 180	19	0.9	18 or 18/4.5	0.18 or 0.18/0.06
CPV 5-8 up to CPVF 10-4	1000	B	180 - 300	19	0.9	18 or 18/4.5	0.18 or 0.18/0.06
CPV 10-8 up to CPVF 20-4	2000	A	58 - 180	19	1.15	18 or 18/4.5	0.18 or 0.18/0.06
CPV 10-8 up to CPVF 20-4	2000	B	180 - 300	19	1.15	18 or 18/4.5	0.18 or 0.18/0.06

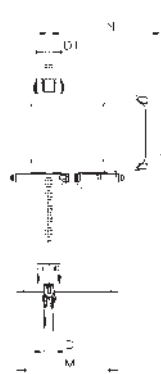
Dimensions model CPV/CPVF

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

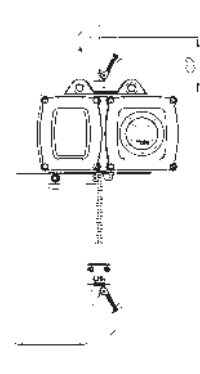
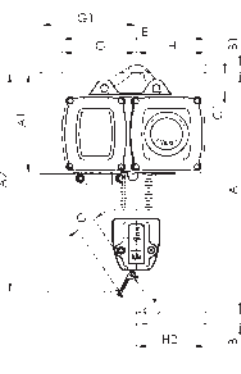
¹for 230V, 1-phase, 50Hz: +35mm



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



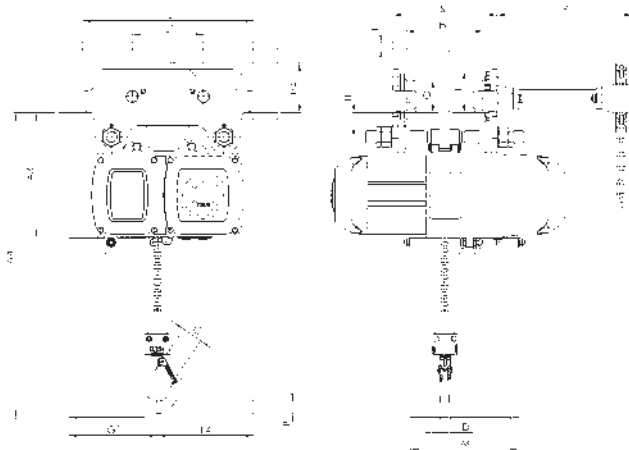
Model CPV/CPVF
with suspension lug, 500 - 2000kg, double fall



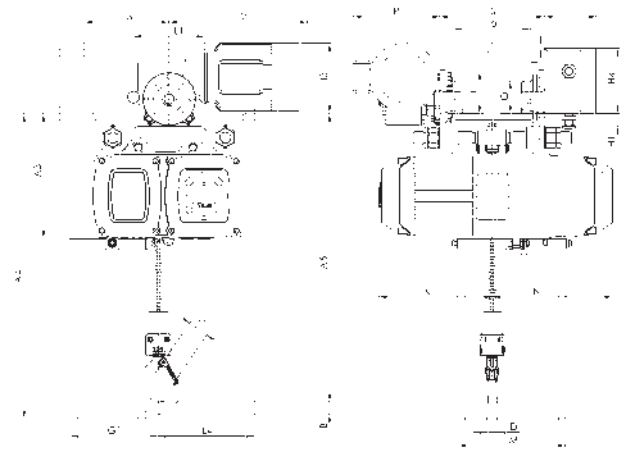
Model CPV/CPVF
with suspension hook,
250 - 2000 kg

Dimensions model CPV/CPVF

Model	CPV 2-8/ CPVF 2-8	CPV 5-4/ CPVF 5-4	CPVF 2-18 CPV/CPVF 5-8	CPV/CPVF 10-4	CPVF 5-18 CPV/CPVF 10-8	CPV/CPVF 20-4
A3, mm	228/199	228/199	228	228	263	263
A4 (Size I), mm	508/379	508/379	508	508	593	593
A4 (Size II), mm	558/449	558/449	558	558	673	673
A4 (Size III), mm	638/519	638/519	638	638	768	768
A4 (Size IV), mm	830/589	830/589	830	830	968	968
A5, mm	389/365	389/365	389	462	460	558
b, mm	A = 58 - 180 B = 180 - 300	A = 58 - 180 B = 180 - 300	A = 58 - 180 B = 180 - 300	A = 58 - 180 B = 180 - 300	A = 58 - 180 B = 180 - 300	A = 58 - 180 B = 180 - 300
H1, mm	24/25	24/25	24	24	23	23
H3, mm	129/113	129/113	129	129	129	129
H4 (VTG), mm	95	95	95	95	95	95
H4 (VTE), mm	142	142	142	142	142	142
l (Push trolley), mm	72	72	72	72	96	96
l (Geared trolley), mm	77/76	77/76	77	77	98	98
L (VTP/VTG), mm	310	310	310	310	360	360
L1, mm	130	130	130	130	150	150
L2 (CPV), mm	255	255	255	255	255	255
L2 (CPVF), mm	222	222	263	263	263	263
L3, mm	155/135	155/135	155	155	180	180
L4, mm	161/131	161/131	173	161	203	203
O, mm	60	60	60	60	80	80
P, mm	200/171	200/171	180	180	180	180
P1, mm	246/236	246/236	246	246	246	246
S, mm	b + 50	b + 50	b + 50	b + 50	b + 54	b + 54
T, mm	94	94	94	94	94	94
tmax., mm	19/12	19/12	19	19	19	19



Model CPV/CPVF with integrated manual push or geared trolley



Model CPV/CPVF with integrated electric trolley



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

Capacity 1600 - 10000 kg

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

Features

- Classification 1 Am/M4, except models CPE(F) 20-8, CPE(F) 30-5 and CPE(F) 40-4, with classification 1 Bm/M3. On request, the classification can be modified by derating the capacity and duty cycle.
- Direct control or 42V low voltage control.
- 2 year warranty (excluding wear parts) as well as a lifetime lubricated gear box.
- Motor fitted with a bimetallic thermal protection (useable in connection with low voltage control).
- Duty cycle 40% at one operating speed.
- The heavy duty squirrel cage motor has an adjustable spring pressure brake that holds the load secure even in the event of a power failure.
- Standard operating voltage:
Euro-voltage 400V, 3-phase, 50Hz.
- Motor protected to IP54, insulation class F.
- Encapsulated pendant control protected to IP65, against ingress of dust and water jets.
- The 5-pocket load chain sheave, manufactured from wear resistant case hardening steel, is matched perfectly to the load chain to guarantee smooth and precise chain motion.
- The standard, oil bath lubricated planetary gearbox is particularly smooth running.
- Drop forged suspension and load hooks are made from non-aging, high tensile steel and fitted with robust safety latches.
- The standard case hardened and zinc-plated link chain is matched perfectly to the load chain to guarantee smooth and precise chain motion.
All requirements of national and international standards and regulations are fulfilled.

Options

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

Twin hoist model CPE 100-2

Capacity 10000kg

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

Options

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

INFO

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

Festooned cable systems please see pages 140-141.



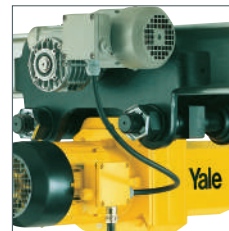
5-pocket load chain
sheave machined for smooth, precise chain motion.



Universal connection
to suspension hook, trolley or steel structures.



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



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



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



*Electric chain hoist
with
low headroom
integrated trolley*

INFO

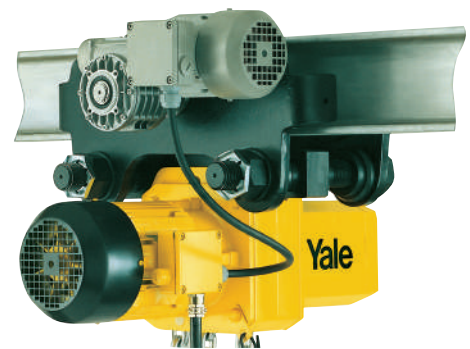
The low headroom hoist CPE LH is available on request in capacities up to 5 t with the resp. standard speeds.

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

Technical data model CPE/CPEF

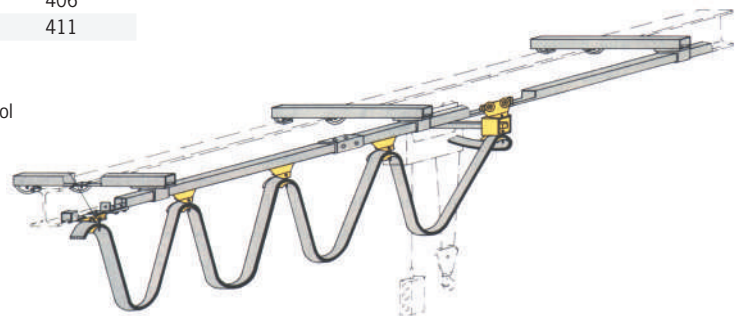
Model	EAN-No. 4025092*	Capacity in kg/ number of chain falls	Chain dimensions d x p mm	Classification	Lifting speed main lift m/min	Lifting speed fine lift m/min	Hoist motor kW	Motor rating ED %
				FEM/ISO				
CPE 16-8	*073240	1600/1	11 x 31	1 Am/M4	8	–	2.3	40
CPEF 16-8	*073257	1600/1	11 x 31	1 Am/M4	8	2	2.3/0.58	40/20
CPE 20-8	*073264	2000/1	11 x 31	1 Bm/M3	8	–	2.8	25
CPEF 20-8	*073271	2000/1	11 x 31	1 Bm/M3	8	2	2.8/0.7	25/15
CPE 25-5	*073288	2500/1	11 x 31	1 Am/M4	5	–	2.3	40
CPEF 25-5	*073295	2500/1	11 x 31	1 Am/M4	5	1.25	2.3/0.58	40/20
CPE 30-5	*073301	3000/1	11 x 31	1 Bm/M3	5	–	2.8	25
CPEF 30-5	*073318	3000/1	11 x 31	1 Bm/M3	5	1.25	2.8/0.7	25/15
CPE 32-4	*073325	3200/2	11 x 31	1 Am/M4	4	–	2.3	40
CPEF 32-4	*073332	3200/2	11 x 31	1 Am/M4	4	1	2.3/0.58	40/20
CPE 40-4	*073349	4000/2	11 x 31	1 Bm/M3	4	–	2.8	25
CPEF 40-4	*073356	4000/2	11 x 31	1 Bm/M3	4	1	2.8/0.7	25/15
CPE 50-2	*073363	5000/2	11 x 31	1 Am/M4	2.5	–	2.3	40
CPEF 50-2	*073370	5000/2	11 x 31	1 Am/M4	2.5	0.6	2.3/0.58	40/20
CPE 75-1,6	*079907	7500/3	11 x 31	1 Am/M4	1.6	–	2.8	40
CPEF 75-1,6	*079914	7500/3	11 x 31	1 Am/M4	1.6	0.4	2.8/0.58	40/20
CPE 100-2	*060585	10000/4	11 x 31	1 Am/M4	2.5	–	2x2.3	40
CPEF 100-2	*060592	10000/4	11 x 31	1 Am/M4	2.5	0.6	2x2.3/0.58	40/20

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



INFO

Festooned cable systems please see pages 140-141.



¹Weight at standard lift (3m). Other lifting heights on request.

²Additional weight for 2 speed version 2.0kg

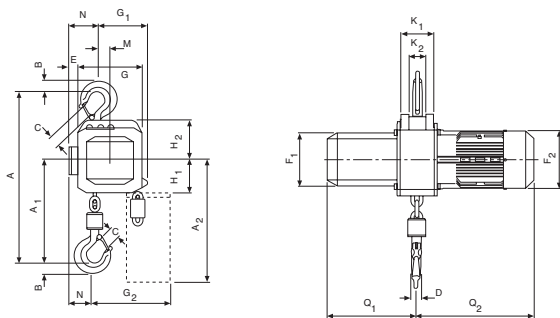
³Limit switches for highest and lowest hook positions – 42V low voltage control

Technical data trolleys

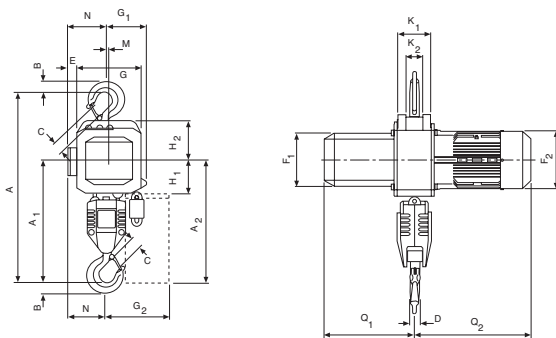
Capacity kg	Size	Beam flange width b mm	Beam flange thickness t max. mm	Curve radius min. m	Electric trolley travel speed m/min at 50 Hz	Electric trolley motor kW at 50 Hz
1600 - 5000	A	98 - 180	27	2.0	11 or 11/2.8	0.37 or 0.3/0.09
1600 - 5000	B	180 - 300	27	1.8	11 or 11/2.8	0.37 or 0.3/0.09
7500 - 10000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

Dimensions model CPE/CPEF

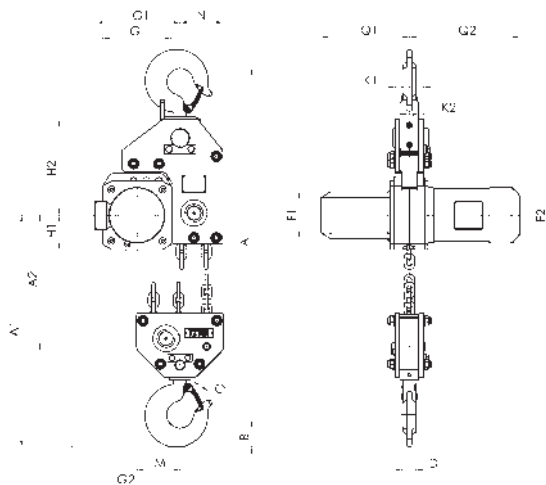
Model	CPE/CPEF 16-8	CPE/CPEF 20-8	CPE/CPEF 25-5	CPE/CPEF 30-5	CPE/CPEF 32-4	CPE/CPEF 40-4	CPE/CPEF 50-2	CPE/CPEF 75-1,6	CPE/CPEF 100-2
A, mm	516	516	516	516	681	681	681	950	1068
A1, mm	286	286	286	286	428	428	428	479	651
A2 (13m), mm	430	430	430	430	430	430	430	-	-
A2 (21m), mm	530	530	530	530	530	530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



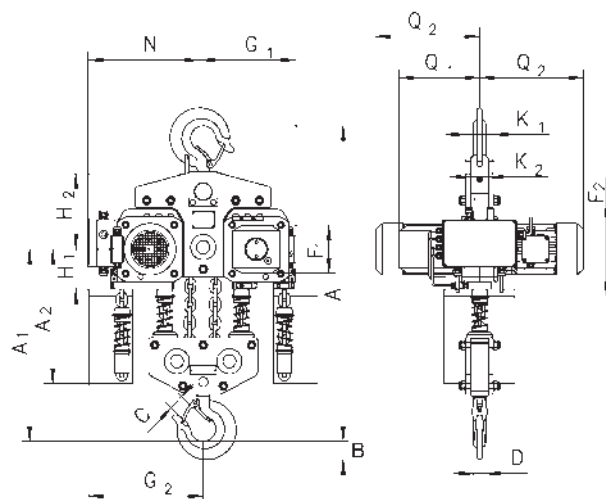
Model CPE/CPEF with suspension hook, 1600 - 3000kg, single fall



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



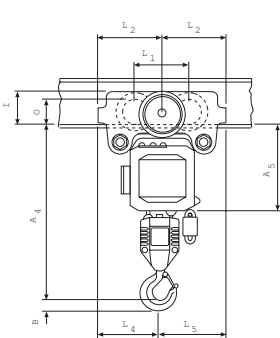
Model CPE/CPEF 75-1,6 with suspension hook, 7500kg



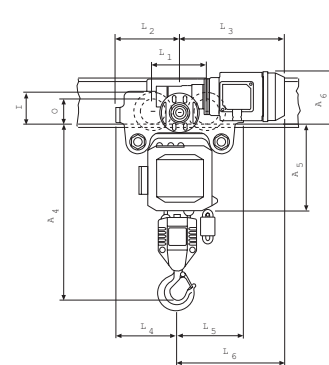
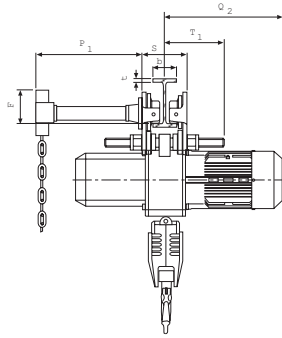
Model CPE/CPEF 100-2 with suspension hook, 10000kg

Dimensions model CPE/CPEF

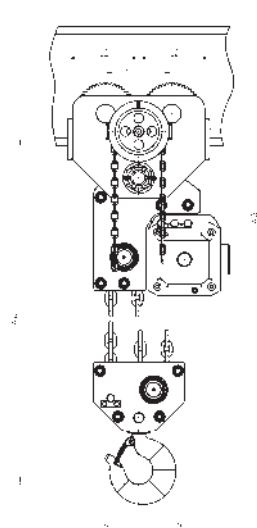
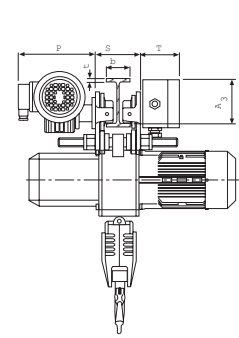
Model	CPE/CPEF 16-8	CPE/CPEF 20-8	CPE/CPEF 25-5	CPE/CPEF 30-5	CPE/CPEF 32-4	CPE/CPEF 40-4	CPE/CPEF 50-2	CPE/CPEF 75-1,6	CPE/CPEF 100-2
A3, mm	121	121	121	121	121	121	121	-	110
A4, mm	465	465	465	465	615	615	615	855	965
A5, mm	298	298	298	298	298	298	298	477	450
A6, mm	178	178	178	178	178	178	178	-	170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



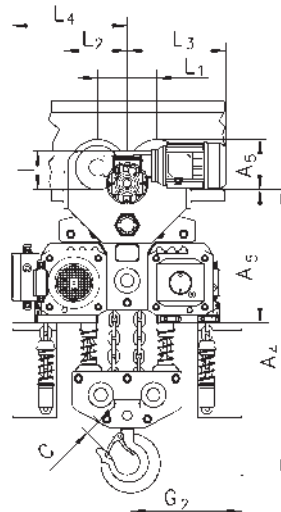
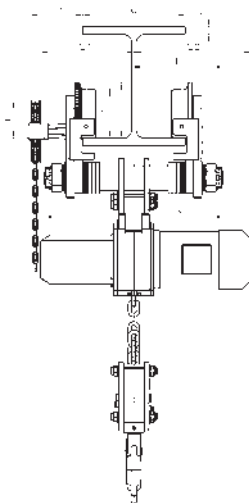
Model CPE/CPEF with integrated manual push or geared trolley



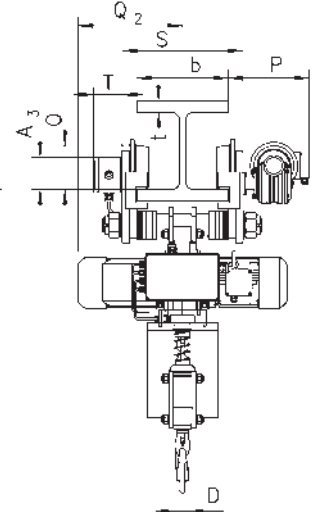
Model CPE/CPEF with integrated electric trolley



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



Model CPE/CPEF with integrated electric trolley, 10000kg



Pneumatic chain hoist model CPA

Capacity 125 - 980 kg

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

Features

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

Options

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

Applications

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



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

INFO

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

Also suitable for operation with nitrogen.

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

Technical data model CPA

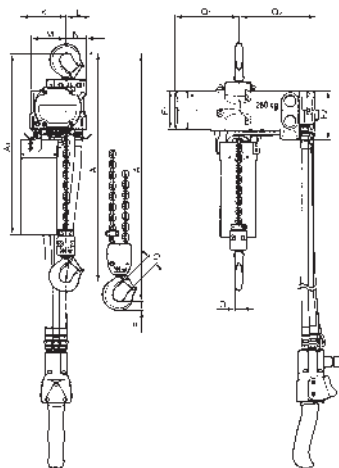
Model	EAN-No. 4025092*	Capacity in kg/ number of chain falls	Chain dimensions d x p mm	Classification FEM/ISO	Lifting speed with rated load ¹ m/min	Lifting speed without load ¹ m/min	Lowering speed with rated load ¹ m/min	Air consump- tion with rated load ¹ m ³ /min	Hoist motor kW	Weight at standard lift (3 m) kg
CPA 1-13	*911795	125/1	4x12.2	1 Am/M4	13.1	17.1	11.3	0.9	0.4	15.4
CPA 2-10	*911788	250/1	4x12.2	1 Am/M4	9.8	17.1	13.7	0.9	0.4	15.4
CPA 2-31	*911801	250/1	6.3x19.5	1 Bm/M3	31.0	52.0	36.0	2.1	1.33	21.8
CPA 5-5	*911818	500/2	4x12.2	1 Am/M4	4.6	7.9	6.7	0.9	0.4	17.2

¹ Values for 6.3bar (flow pressure) and 2m control drop. Speeds will be reduced in case of longer control length.

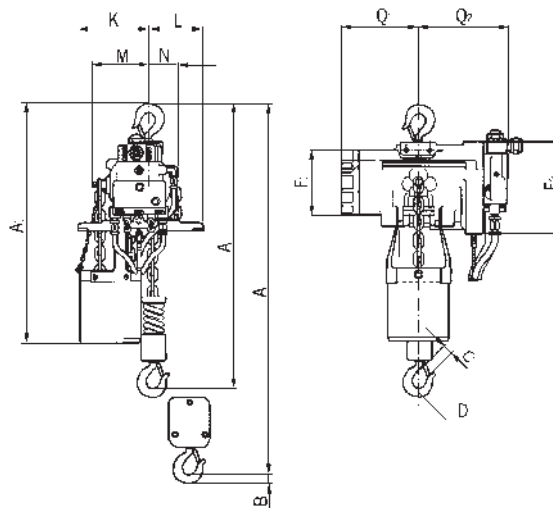
Model CPA 1-13, CPA 2-10 and CPA 5-5 hose length max. 12m, air supply 3/8" NPT
 Model CPA 2-31, CPA 5-17 and CPA 10-9 hose length max. 20m, air supply 1/2" NPT.

Dimensions model CPA

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



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



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



INFO

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

Also suitable for operation with nitrogen.

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

Other capacities on request.

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

Capacity 2000 - 10000kg

The conception is in accordance with the design of the model CPE.

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

Features

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

Options

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



Available in explosion proof version (see page 444).

Technical data model CPA

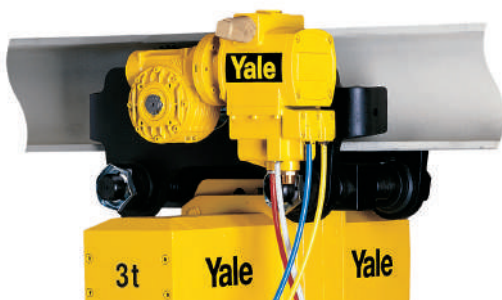
Model	EAN-No. 4025092*	Capacity in kg/ number of chain falls	Chain dimensions d x p mm	Classification FEM/ISO	Lifting speed with rated load ¹ m/min	Lifting speed without load ¹ m/min	Lowering speed with rated load ¹ m/min	Hoist motor kW
CPA 20-8	*073868	2000/1	11 x 31	1Bm/M3	7.4	9.9	11.0	2.6
CPA 30-6	*073875	3000/1	11 x 31	1Bm/M3	6.0	9.9	13.0	3.2
CPA 40-4	*073882	4000/2	11 x 31	1Bm/M3	3.7	5.0	5.5	2.6
CPA 50-3	*073899	5000/2	11 x 31	1Am/M4	3.4	5.0	6.0	3.0
CPA 60-3	*073905	6000/2	11 x 31	1Am/M4	3.0	5.0	6.5	3.2
CPA 75-2	*056915	7500/3	11 x 31	1Am/M4	2.0	3.3	4.3	3.2
CPA 100-3	*075701	10000/4	11 x 31	1Am/M4	3.4	5.0	6.0	2x3.0

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

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



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



Application with pneumatic trolley



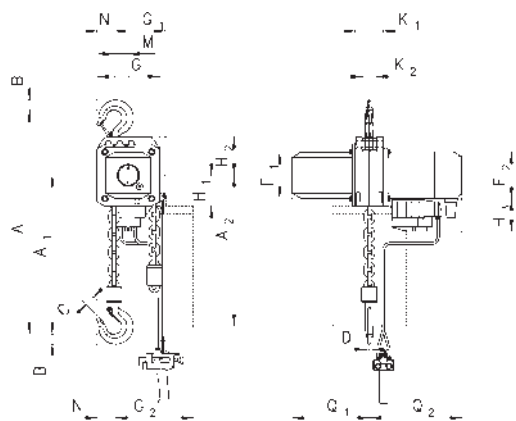
Technical data trolleys

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

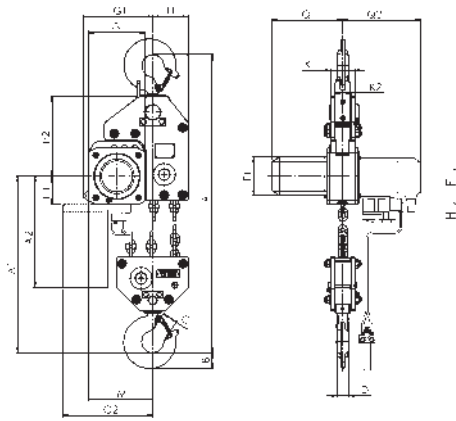
Values for 6 bar (flow pressure), air consumption with rated load 0.75 m³/min.

Dimensions model CPA

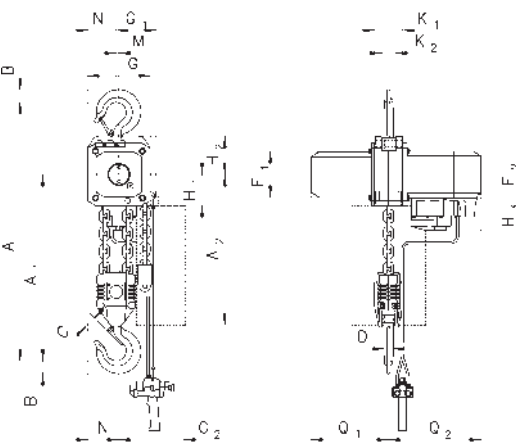
Model	CPA 20-8	CPA 30-6	CPA 40-4	CPA 50-3	CPA 60-3	CPA 75-2	CPA 100-3
A, mm	516	516	681	681	681	950	1068
A1, mm	286	286	428	428	428	479	651
B, mm	35	35	45	45	47	60	60
C, mm	37	37	46	46	42	52	52
D, mm	24	24	30	30	30	40/45	40/45
F1, mm	160	160	160	160	160	160	160
F2, mm	165	165	165	165	165	165	165
G, mm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



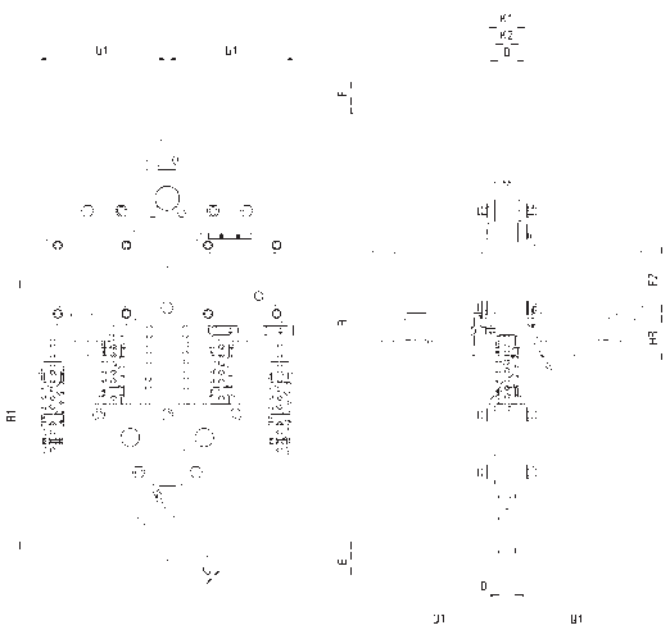
Model CPA with suspension hook, 2000 - 3000 kg, single fall



Model CPA with suspension hook, 7500 kg, three fall



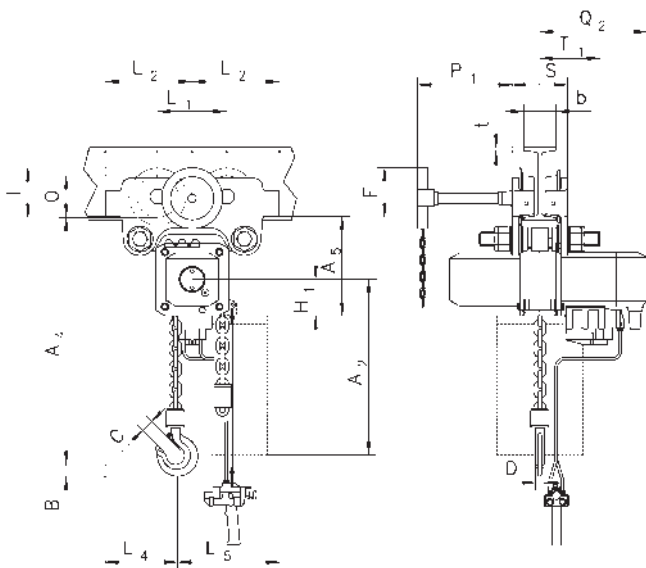
Model CPA with suspension hook, 4000 - 5000 kg, double fall



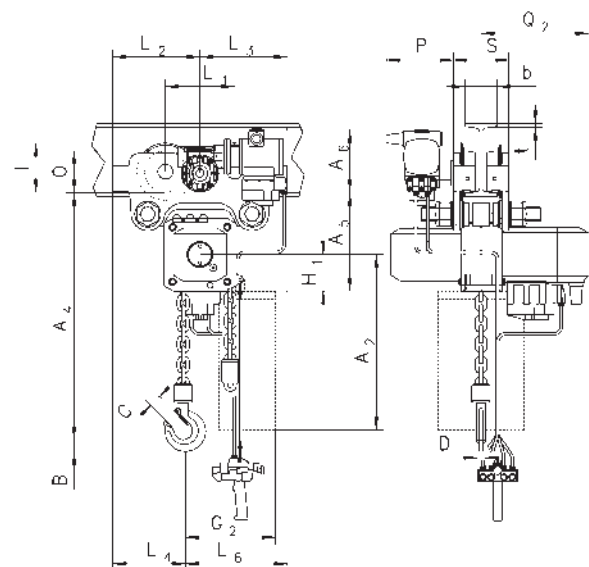
Model CPA with suspension hook, 10000 kg, four fall

Dimensions model CPA

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



Model CPA with integrated manual push or geared trolley



Model CPA with integrated pneumatic trolley

Yale link chains, zinc-plated

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





Yale link chains, stainless steel

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

INFO

For Yale hand chains see page 68.

Yale roller chains

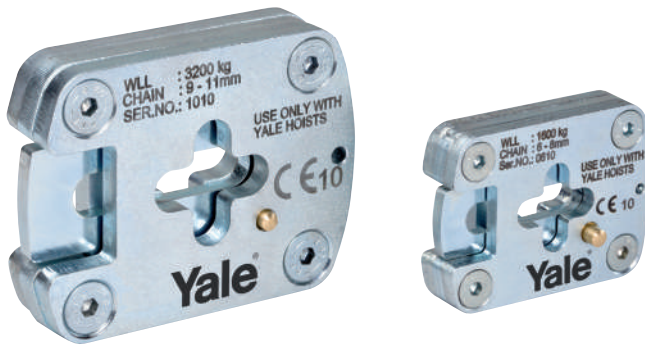
for	EAN-No. 4025092*	Capacity in kg/ number of chain falls	Chain dimensions d x p Inch	Chain stop
Model C85	*050449	750/1	5/8" x 3/8"	•
	*050456	1500/1	1" x 1/2"	•
	*050463	3000/1	1 1/4" x 5/8"	•
	*050463	6000/2	1 1/4" x 5/8"	•
	*050463	10000/3	1 1/4" x 5/8"	•

Yale hand chains, zinc-plated

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

Yale hand chains, stainless steel

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



Yale chain stop for round link and roller chains model YKST

The Yale chain stop is designed to be used as an additional fall arrester for round link and roller chains. The chain stop can be moved along the load chain of the hoist by actuating the safety device and pressing the slider at the same time.

When the slider is released, it automatically locks in the load chain and the safety lock blocks the system. In order to ensure safe functioning of the chain stop, the distance between the chain stop and the hoist must not exceed 15-20 mm. After the use of the hoist, the chain stop must be repositioned, as required.

Yale chain stop for link chains model YKST

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

Yale chain stop for roller chains model YKST

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

The use for different chain dimensions is not permitted.



Chain stop attached to roller chain



Chain stop attached to link chain

INFO

The nominal load which is marked on the chain stop is the max. load, that each single chain fall can lift, for example model D85, 10t, three chain falls, satisfy 3.334 kg per chain fall.