

Yale

The new electric chain hoist generation

CPV/F



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Yale[®]
Industrial Products

Yale Industrial Products

Supplied as standard
with Lug suspension
point



Pendants shown
are for illustration
purposes only.
Supplied as standard
with Telemecanique®
(See pg. 4).

Yale CPV/F

- 1877 Yale designs the first spur geared hand chain hoist incorporating the Weston screw-and-disc type load brake. The design principle is used today for almost all hand chain hoists.
- 1936 Yale start manufacturing of hoists with production of the world renowned Yale Pul-Lift® ratchet lever hoist. This robust and reliable tool was (and still is) the key product establishing Yale's reputation in hoisting technology in Europe and abroad. To date more than one million Yale Pul-Lift® units have been manufactured at our German plant.
- 1985 A new era began with the formation of Yale Industrial Products. By continuous and innovative product development and expanding the international network through Yale sales organisations and distributors Yale Industrial Products has gained a leading position for hoisting equipment.
- 2002 Yale presents the Yalelift 360. Areas of operation as well as operator conditions have been improved considerably. Innovative thinking and design give additional flexibility, the operator is no longer forced to work in the danger zone near the load.
- 2008 Yale starts production for the new electric chain hoist model Yale CPV/F.

The advantages at a glance

Quality engineering –

Innovative design, utilizing the most modern material and precise manufacturing processes leading to increased safety and reduced maintenance time.

Easy access –

Easily removable housing cover giving direct access to all electrical connections.

Smooth running –

Helical gearing ensures an extremely low noise level and an increased operational lifetime.

Additional advantage –

Direct access to the chain end anchor for hoists with double chain fall.

Easy maintenance –

Convenient access to wearing parts for easier maintenance.

Improved protection –

The enclosed design protects electrical components and especially the load brake from contamination to level IP55 as standard.

Increased safety –

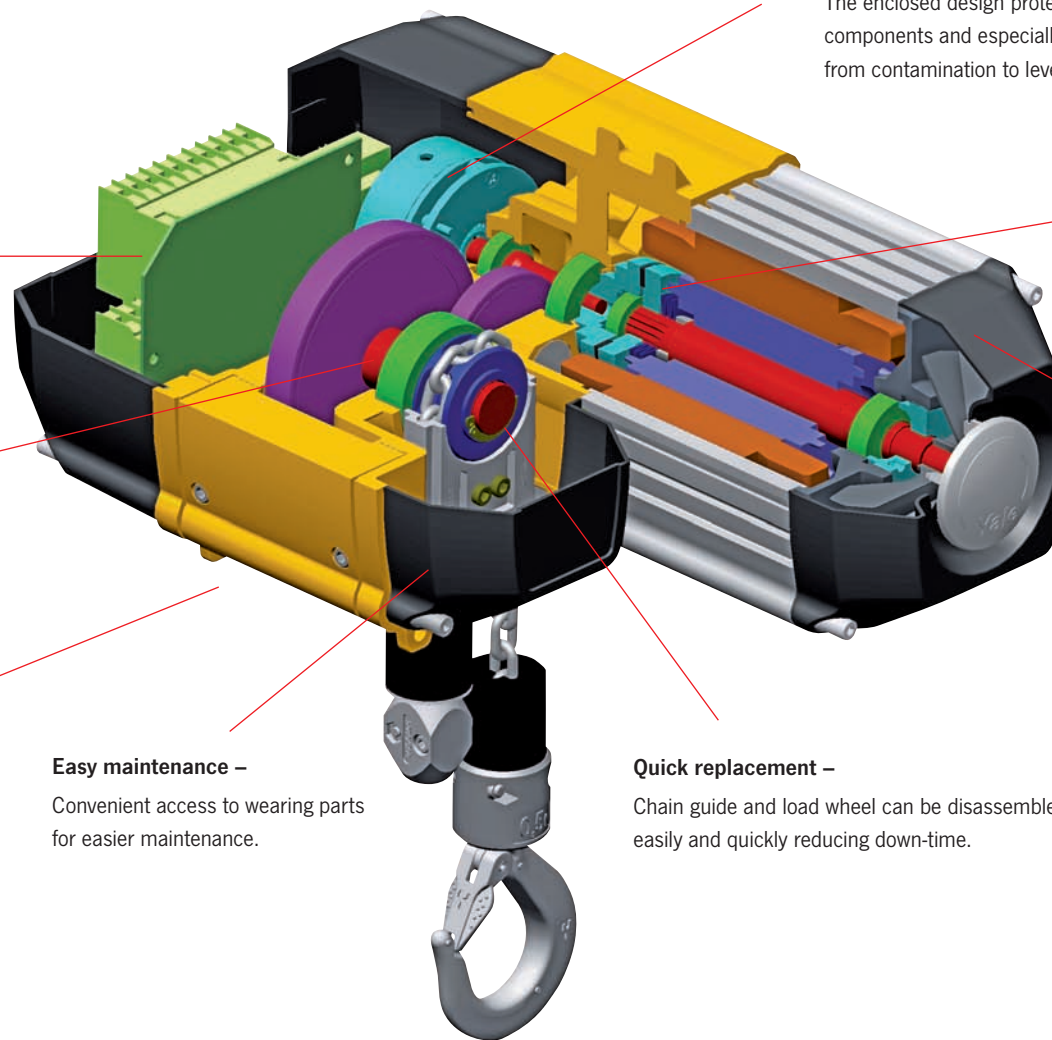
The externally adjustable slip clutch is designed to guarantee a permanent connection between the load and the brake, even in extreme cases of overload.

High impact resistance –

Robust housing covers made from polyamide.

Quick replacement –

Chain guide and load wheel can be disassembled easily and quickly reducing down-time.



Easy maintenance

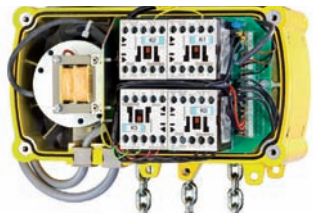


Convenient access and replacement of wearing parts such as load wheel, chain guide and chain alignment plate.

Chain guide made of glass reinforced polyamide for increased wear resistance.



Externally adjustable slipping clutch.



Easily removable covers make all connections quickly accessible for electric assembly.

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



Encapsulated pendant control and radio remote control to IP 65.



Direct access to the chain end anchor for hoists with double chain fall.

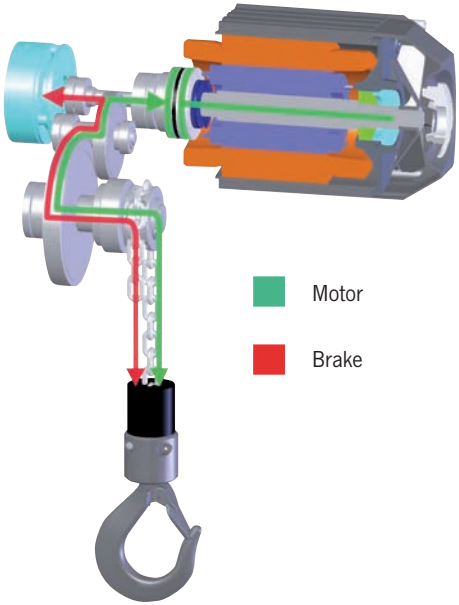
Safety



Advanced shock absorbing material provides improved cushioning when the limit switch is activated, this protects the bottom block and the housing against damage.



The integrated limit switch for the highest and lowest hook positions considerably extends the working life span of the slipping clutch, motor and gearbox.



By placing the slipping clutch between the brake and the motor, Yale engineers have ensured that the brake holds the load securely (red line), even when the slipping clutch is activated.

Features

Features include:

- Load sprocket and chain guide can easily be inspected or removed without disassembly of the complete unit.
- Designed to FEM 1Am.
- Main line contactor for increased safety.
- Two year warranty (excluding wearing parts) and a life time lubricated gearbox.
- Thermal overload protection as standard for the whole range. Optimised housing for improved cooling.
- Duty cycle 50% ED for single speed.
- Electromagnetic spring pressure brake holds the load safely even in the event of power failure.
- The externally adjustable slipping clutch is designed to guarantee a permanent connection between the load and the brake.
- Motor protected to IP 55 against ingress of dust and water.
- Standard operating voltage: 400v, 3-phase.
- Increased operating safety through 42v low voltage control with encapsulated pendant control to IP 65.
- Suspension lug (as standard) for reduced headroom and easy integration into trolley applications.
- Chain guide made of glass reinforced polyamide for increased wear resistance.
- The oil bath lubricated gearbox contains case hardened helical cut gearing for smooth, low noise running and enhanced lifetime.
- Fully compatible with the VTE/S range of trolleys.

Optional extras:

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

Technical data Yale CPV/F

| Model | Capacity in kg / number of chain falls | Chain dimension d x p mm | Lifting speed main lift m/min | Lifting speed fine lift m/min | Hoist motor kW | Net weight* suspension lug kg | Net weight* push trolley** kg | Net weight* electric trolley*** kg |
|------------|---|---------------------------------------|--|--|-----------------------|--|--|---|
| CPV 2-8 | 250/1 | 4 x 12.2 | 8 | - | 0.37 | 24 | 39 | 47 |
| CPV/F 2-8 | 250/1 | 4 x 12.2 | 8 | 2 | 0.37/0.09 | 25 | 40 | 48 |
| CPV 5-4 | 500/2 | 4 x 12.2 | 4 | - | 0.37 | 25 | 40 | 48 |
| CVP/F 5-4 | 500/2 | 4 x 12.2 | 4 | 1 | 0.37/0.09 | 26 | 41 | 49 |
| CPV 5-8 | 500/1 | 5 x 15.1 | 8 | - | 0.75 | 26 | 41 | 49 |
| CPV/F 5-8 | 500/1 | 5 x 15.1 | 8 | 2 | 0.75/0.18 | 27 | 42 | 50 |
| CPV 10-4 | 1000/2 | 5 x 15.1 | 4 | - | 0.75 | 28 | 43 | 51 |
| CPV/F 10-4 | 1000/2 | 5 x 15.1 | 4 | 1 | 0.75/0.78 | 29 | 44 | 52 |
| CPV 10-8 | 1000/1 | 7.1 x 20.5 | 8 | - | 1.5 | 58 | 77 | 84 |
| CPV/F 10-8 | 1000/1 | 7.1 x 20.5 | 8 | 2 | 1.5/0.37 | 59 | 78 | 85 |
| CPV 20-4 | 2000/2 | 7.1 x 20.5 | 4 | - | 1.5 | 63 | 82 | 89 |
| CPV/F 20-4 | 2000/2 | 7.1 x 20.5 | 4 | 1 | 1.5/0.37 | 64 | 83 | 90 |

*Weight for standard 3 m lift. Other lifting heights on request.

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

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

Technical data trolleys

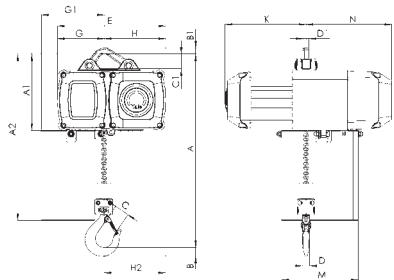
| Suitable for model | Capacity kg | Size | Beam flange width b mm | Beam flange thickness t max. mm | Curve radius min. m | Electric trolley travel speed m/min at 50 Hz | Electric trolley motor kW at 50 Hz |
|-------------------------------|--------------------|------|-------------------------------------|--|----------------------------------|---|---|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

Dimensions Yale CPV/F

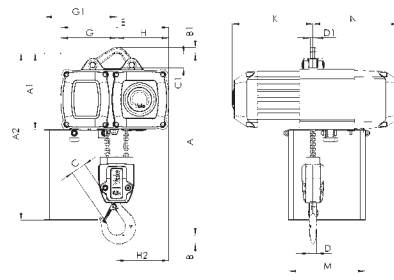
| Model | CPV/F 2-8 | CPV/F 5-4 | CPV/F 5-8 | CPV/F 10-4 | CPV/F 10-8 | CPV/F 20-4 |
|-------------------|--------------|--------------|--------------|---------------|---------------|---------------|
| A, mm | 353 | 393 | 353 | 430 | 428 | 524 |
| A1, mm | 196 | 196 | 196 | 196 | 234 | 234 |
| A2 (Size I), mm | 376 | 376 | 376 | 376 | 464 | 464 |
| A2 (Size II), mm | 426 | 426 | 426 | 426 | 544 | 544 |
| A2 (Size III), mm | 506 | 506 | 506 | 506 | - | - |
| B, mm | 22 | 22 | 22 | 29 | 29 | 37 |
| B1, mm | 15 | 15 | 15 | 15 | 20 | 20 |
| C, mm | 29 | 29 | 29 | 35 | 35 | 40 |
| C1, mm | 38 | 38 | 38 | 38 | 45 | 45 |
| D, mm | 15 | 15 | 15 | 21 | 21 | 26 |
| D1, mm | 15 | 15 | 15 | 15 | 15 | 15 |
| E, mm | 277 | 277 | 277 | 277 | 326 | 326 |
| G, mm | 120 | 144 | 120 | 144 | 140 | 173 |
| G1 (Size I), mm | 142 | 142 | 142 | 142 | 208 | 208 |
| G1 (Size II), mm | 162 | 162 | 162 | 162 | 208 | 208 |
| G1 (Size III), mm | 162 | 162 | 162 | 162 | - | - |
| H, mm | 157 | 133 | 157 | 133 | 186 | 154 |
| K (CPV), mm | 207 | 207 | 207 | 207 | 285 | 285 |
| K (CPV/F), mm | 207 | 207 | 207 | 207 | 285 | 285 |
| M (Size I), mm | 162 | 162 | 162 | 162 | 208 | 208 |
| M (Size II), mm | 197 | 197 | 197 | 197 | 208 | 208 |
| M (Size III), mm | 197 | 197 | 197 | 197 | - | - |
| N, mm | 219 | 219 | 219 | 219 | 274 | 274 |

Dimensions Yale CPV/F

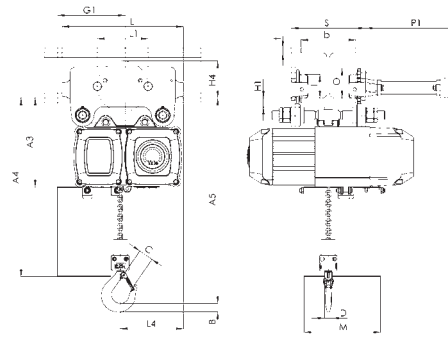
| Model | CPV/F 2-8 | CPV/F 5-4 | CPV/F 5-8 | CPV/F 10-4 | CPV/F 10-8 | CPV/F 20-4 |
|-------------------|--------------------------------|--------------|--------------|---------------|---------------|---------------|
| A3, mm | 228 | 228 | 228 | 228 | 263 | 263 |
| A4 (Size I), mm | 408 | 408 | 408 | 408 | 493 | 493 |
| A4 (Size II), mm | 458 | 458 | 458 | 458 | 573 | 573 |
| A4 (Size III), mm | 538 | 538 | 538 | 538 | - | - |
| A5, mm | 385 | 425 | 385 | 462 | 456 | 553 |
| b, mm | $A = 50 - 180 / B = 180 - 300$ | | | | | |
| H1, mm | 24 | 24 | 24 | 24 | 23 | 23 |
| H2, mm | 158 | 158 | 158 | 158 | 186 | 186 |
| H3, mm | 129 | 129 | 129 | 129 | 129 | 129 |
| H4 (VTG), mm | 95 | 95 | 95 | 95 | 95 | 95 |
| H4 (VTE), mm | 120 | 120 | 120 | 120 | 120 | 120 |
| I (VTP), mm | 72 | 72 | 72 | 72 | 96 | 96 |
| I (VTG), mm | 77 | 77 | 77 | 77 | 98 | 98 |
| L (VTP/VTG), mm | 310 | 310 | 310 | 310 | 360 | 360 |
| L1, mm | 130 | 130 | 130 | 130 | 150 | 150 |
| L2 (CPV), mm | 265 | 265 | 265 | 265 | 265 | 265 |
| L2 (CPV/F), mm | 265 | 265 | 265 | 265 | 265 | 265 |
| L3, mm | 155 | 155 | 155 | 155 | 180 | 180 |
| L4, mm | 161 | 161 | 161 | 161 | 203 | 203 |
| O, mm | 60 | 60 | 60 | 60 | 80 | 80 |
| P, mm | 200 | 200 | 200 | 200 | 200 | 200 |
| P1, mm | 246 | 246 | 246 | 246 | 246 | 246 |
| S, mm | b+50 | b+50 | b+50 | b+50 | b+54 | b+54 |
| T, mm | 95 | 95 | 95 | 95 | 95 | 95 |
| tmax., mm | 19 | 19 | 19 | 19 | 19 | 19 |



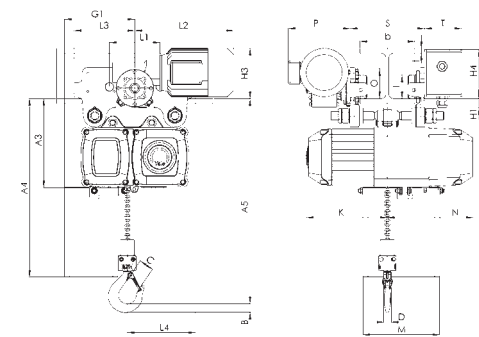
Model Yale CPV/F
with suspension bracket, 125 - 1000 kg, single fall



Model Yale CPV/F
with suspension bracket, 500 - 2000 kg, double fall



Model Yale CPV/F
with integrated manual push or geared trolley



Model Yale CPV/F
with integrated electric trolley