



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 42V 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 2-6 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 2-6 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

Feetworn 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.



## Yale CPV

Further standards

### CPV „Quick Delivery“ 24 h programme

Capacity 250 - 1000 kg

## Features

- Top suspension hook
- Lifting height 5m
- 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<br>kg | Number of<br>chain falls | Lifting speed in min<br>main lift | 5m lift |
|-----------|-----------|----------------|--------------------------|-----------------------------------|---------|
| CPVF 2-4  | 100052434 | 250            | 1                        | 8                                 | 2       |
| CPVF 5-4  | 100052435 | 500            | 1                        | 8                                 | 2       |
| CPVF 10-6 | 100052436 | 1000           | 1                        | 8                                 | 2       |

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

| Capacity<br>kg | Model     | Number of<br>chain falls | Chain<br>dimensions<br>d x p<br>mm | Classification<br>PEB(S)C | Lifting speed<br>main lift<br>min/min | 5m lift<br>min/min | Hoist motor<br>rating<br>kW | Motor<br>rating<br>ED % | Weight at standard lift (3m) <sup>1</sup><br>suspension<br>kg | push<br>brake <sup>2</sup><br>kg | electric<br>brake <sup>2</sup><br>kg |
|----------------|-----------|--------------------------|------------------------------------|---------------------------|---------------------------------------|--------------------|-----------------------------|-------------------------|---------------------------------------------------------------|----------------------------------|--------------------------------------|
| 125            | CPV 2-4   | 1                        | 4 x 12.2                           | 3mMS                      | 8                                     | —                  | 0.37                        | 75                      | 17                                                            | 26                               | 31                                   |
| 125            | CPVF 2-6  | 1                        | 4 x 12.2                           | 3mMS                      | 8                                     | 2                  | 0.37/0.39                   | 50/25                   | 18                                                            | 27                               | 32                                   |
| 250            | CPV 3-4   | 1                        | 4 x 12.2                           | 1.6mMS                    | 8                                     | —                  | 0.37                        | 50                      | 17                                                            | 26                               | 31                                   |
| 250            | CPVF 3-6  | 1                        | 4 x 12.2                           | 1.6mMS                    | 8                                     | 2                  | 0.37/0.39                   | 33/17                   | 18                                                            | 27                               | 32                                   |
| 250            | CPVF 3-18 | 1                        | 5 x 15.1                           | 1.6mMS                    | 18                                    | 4.5                | 0.75/0.18                   | 33/17                   | 27                                                            | 42                               | 50                                   |
| 320            | CPV 5-4   | 1                        | 5 x 15.1                           | 3mMS                      | 8                                     | —                  | 0.75                        | 67                      | 26                                                            | 41                               | 48                                   |
| 320            | CPVF 5-6  | 1                        | 5 x 15.1                           | 3mMS                      | 8                                     | 2                  | 0.75/0.18                   | 45/22                   | 27                                                            | 42                               | 50                                   |
| 500            | CPV 5-4   | 2                        | 4 x 12.2                           | 1.6mMS                    | 4                                     | —                  | 0.37                        | 50                      | 20                                                            | 29                               | 34                                   |
| 500            | CPVF 5-4  | 2                        | 4 x 12.2                           | 1.6mMS                    | 4                                     | 1                  | 0.37/0.39                   | 33/17                   | 21                                                            | 30                               | 35                                   |
| 500            | CPV 5-6   | 1                        | 5 x 15.1                           | 1.6mMS                    | 8                                     | —                  | 0.75                        | 50                      | 20                                                            | 41                               | 48                                   |
| 500            | CPVF 5-6  | 1                        | 5 x 15.1                           | 1.6mMS                    | 8                                     | 2                  | 0.75/0.18                   | 33/17                   | 27                                                            | 42                               | 50                                   |
| 500            | CPVF 5-18 | 1                        | 7.1 x 20.5                         | 1.6mMS                    | 18                                    | 4.5                | 1.5/0.37                    | 33/17                   | 59                                                            | 78                               | 85                                   |
| 630            | CPV 10-6  | 1                        | 7.1 x 20.5                         | 3mMS                      | 8                                     | —                  | 1.5                         | 67                      | 58                                                            | 77                               | 94                                   |
| 630            | CPVF 10-6 | 1                        | 7.1 x 20.5                         | 3mMS                      | 8                                     | 2                  | 1.5/0.37                    | 45/22                   | 59                                                            | 78                               | 85                                   |
| 1000           | CPV 10-4  | 2                        | 5 x 15.1                           | 1.6mMS                    | 4                                     | —                  | 0.75                        | 50                      | 25                                                            | 43                               | 51                                   |
| 1000           | CPVF 10-4 | 2                        | 5 x 15.1                           | 1.6mMS                    | 4                                     | 1                  | 0.75/0.18                   | 33/17                   | 29                                                            | 44                               | 52                                   |
| 1000           | CPV 10-6  | 1                        | 7.1 x 20.5                         | 1.6mMS                    | 8                                     | —                  | 1.5                         | 50                      | 58                                                            | 77                               | 94                                   |
| 1000           | CPVF 10-6 | 1                        | 7.1 x 20.5                         | 1.6mMS                    | 8                                     | 2                  | 1.5/0.37                    | 33/17                   | 59                                                            | 78                               | 85                                   |
| 1500           | CPV 20-4  | 2                        | 7.1 x 20.5                         | 2mMS                      | 4                                     | —                  | 1.5                         | 62                      | 63                                                            | 82                               | 89                                   |
| 1500           | CPVF 20-4 | 2                        | 7.1 x 20.5                         | 2mMS                      | 4                                     | 1                  | 1.5/0.37                    | 41/21                   | 64                                                            | 83                               | 90                                   |
| 2000           | CPV 20-4  | 2                        | 7.1 x 20.5                         | 1.6mMS                    | 4                                     | —                  | 1.5                         | 50                      | 63                                                            | 82                               | 89                                   |
| 2000           | CPVF 20-4 | 2                        | 7.1 x 20.5                         | 1.6mMS                    | 4                                     | 1                  | 1.5/0.37                    | 33/17                   | 64                                                            | 83                               | 90                                   |
| 2000           | CPV 20-6  | 1                        | 11.3 x 31                          | 2mMS                      | 8                                     | 2                  | 3.6/0.9                     | 39/20                   | 85                                                            | 147                              | 151                                  |
| 2500           | CPV 25-4  | 1                        | 11.3 x 31                          | 1.6mMS                    | 8                                     | 2                  | 3.6/0.9                     | 33/17                   | 85                                                            | 147                              | 151                                  |
| 3200           | CPVF 30-4 | 2                        | 11.3 x 31                          | 3mMS                      | 4                                     | 1                  | 3.6/0.9                     | 44/22                   | 98                                                            | 160                              | 174                                  |
| 5000           | CPVF 50-4 | 2                        | 11.3 x 31                          | 1.6mMS                    | 4                                     | 1                  | 3.6/0.9                     | 33/17                   | 98                                                            | 160                              | 174                                  |

## CPV - 230V, 1PH, 50HZ

|      |          |   |          |        |   |   |      |    |
|------|----------|---|----------|--------|---|---|------|----|
| 125  | CPV 2-4  | 1 | 4 x 12.2 | 3mMS   | 4 | — | 0.37 | 35 |
| 250  | CPV 2-4  | 1 | 4 x 12.2 | 1.6mMS | 4 | — | 0.37 | 25 |
| 500  | CPV 3-2  | 2 | 4 x 12.2 | 1.6mMS | 2 | — | 0.37 | 25 |
| 500  | CPV 5-4  | 1 | 5 x 15.1 | 1.6mMS | 8 | — | 1.6  | 25 |
| 1000 | CPV 10-4 | 2 | 5 x 15.1 | 1.6mMS | 4 | — | 1.6  | 25 |

<sup>1</sup> Other lifting heights on request.<sup>2</sup> For trolleys type A and B: Additional weight for geared trolley (V7G): 2.5 kg<sup>3</sup> For electric trolley with 2 speeds (V7EP): 42.8 kg

## Trolleys

| Suitable for                  | Capacity of the<br>trolley<br>kg | Size | All trolleys<br>Beam Range<br>width<br>mm | Beam range<br>thickness<br>t max.<br>mm | Curve<br>radius<br>mm | Trawl speed<br>max/min<br>at 50Hz | Electric trolley<br>Motor<br>kW<br>at 50Hz |
|-------------------------------|----------------------------------|------|-------------------------------------------|-----------------------------------------|-----------------------|-----------------------------------|--------------------------------------------|
| CPV/CPVF 2-6/4, CPV3-4/5-3    | 500                              | A    | 50 - 190                                  | 16                                      | 0.9                   | 11 or 15                          | 0.09                                       |
| CPV/CPVF 3-6/4, CPV3-4/5-3    | 800                              | B    | 100 - 300                                 | 16                                      | 0.9                   | 11 or 15                          | 0.09                                       |
| CPV/CPVF 5-6/10-4, CPV 3-18   | 1000                             | A    | 50 - 190                                  | 16                                      | 0.9                   | 18 or 18/4.5 <sup>1</sup>         | 0.18 or 0.18/0.06                          |
| CPV/CPVF 5-6/10-4, CPV 3-18   | 1000                             | B    | 100 - 300                                 | 16                                      | 0.9                   | 18 or 18/4.5 <sup>1</sup>         | 0.18 or 0.18/0.06                          |
| CPV/CPVF 10-6/20-4, CPVF 5-18 | 2000                             | A    | 50 - 190                                  | 16                                      | 1.15                  | 18 or 18/4.5 <sup>1</sup>         | 0.18 or 0.18/0.06                          |
| CPV/CPVF 10-6/20-4, CPVF 5-18 | 2000                             | B    | 100 - 300                                 | 16                                      | 1.15                  | 18 or 18/4.5 <sup>1</sup>         | 0.18 or 0.18/0.06                          |
| CPVF 25-30/50-4               | 5000                             | A    | 90 - 190                                  | 27                                      | 2.5                   | 15 or 15/2.8                      | 0.37 or 0.37/0.06                          |
| CPVF 25-30/50-4               | 5000                             | B    | 100 - 300                                 | 27                                      | 1.8                   | 15 or 15/2.8                      | 0.37 or 0.37/0.06                          |

<sup>1</sup> Alternatively 11 or 11/2.8 min

## Yale CPV

## Options and features for applications

## FOR CORROSIVE ENVIRONMENT &amp; 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 and buffer stops
- 90° suspension on trolley
- Counter for operating hours
- Trolley travel and 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 2-4<br>CPV 2-4 | CPV/CPVF 5-4<br>CPV 5-2 | CPVF 2-18<br>CPV/CPVF 5-8 | CPV/CPVF 10-4 | CPVF 5-18<br>CPV/CPVF 10-8 | CPV/CPVF 20-4 | CPVF 25-4 | CPVF 50-4 |
|-----------------------------------------|-------------------------|-------------------------|---------------------------|---------------|----------------------------|---------------|-----------|-----------|
| A, mm                                   | 327                     | 303                     | 357                       | 433           | 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 (7.5m)              | 343 (7.5m)              | 476 (13m)                 | 476 (13m)     | 564 (12m)                  | 564 (12m)     | 586 (13m) | 586 (13m) |
| - Size II (for lifting height, m)       | 413 (12m)               | 413 (12m)               | 526 (15m)                 | 526 (15m)     | 644 (18m)                  | 644 (18m)     | 704 (20m) | 704 (20m) |
| - Size III (for lifting height, m)      | 483 (15m)               | 483 (15m)               | 606 (18m)                 | 606 (18m)     | 734 (21m)                  | 734 (21m)     | 854 (25m) | 854 (25m) |
| - Size IV (for lifting height, m)       | -                       | -                       | 798 (24m)                 | 798 (24m)     | 934 (26m)                  | 934 (26m)     | -         | -         |
| B, mm                                   | 25                      | 25                      | 27                        | 29            | 29                         | 37            | 37        | 37        |
| B1, mm                                  | 12                      | 12                      | 15                        | 15            | 20                         | 20            | 23        | 23        |
| C, mm                                   | 30                      | 30                      | 39                        | 35            | 35                         | 40            | 40        | 40        |
| C1, mm                                  | 30                      | 30                      | 38                        | 38            | 45                         | 45            | 71        | 71        |
| C2, mm                                  | 105                     | 105                     | 105                       | 105           | 154                        | 154           | 194       | 194       |
| D, mm                                   | 90                      | 90                      | 15                        | 21            | 21                         | 26            | 35        | 35        |
| D1, mm                                  | 90                      | 90                      | 15                        | 15            | 15                         | 25            | 25        | 25        |
| E, mm                                   | 205                     | 205                     | 277                       | 377           | 328                        | 328           | 409       | 409       |
| G, mm                                   | 106                     | 126                     | 130                       | 144           | 140                        | 173           | 179       | 179       |
| G1 (size I), mm                         | 124                     | 124                     | 142                       | 168           | 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                                   | 90                      | 70                      | 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           | 300       | 300       |
| M (size IV), mm                         | 157                     | 157                     | 197                       | 197           | 209                        | 209           | -         | -         |
| N <sup>1</sup> , mm                     | 189                     | 189                     | 219                       | 219           | 274                        | 274           | 289       | 289       |

\* for 220V, 1 Ph, 50Hz approx. +35mm



CPV/CPVF  
with suspension lug, 125 - 200 kg, single fall



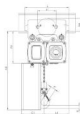
CPV/CPVF  
with suspension lug, 300 - 500 kg, double fall



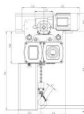
CPV/CPVF  
with suspension lug, 250 - 200 kg

## Dimensions CPV/CPVF

| Model                                   | CPV/CPVF 2-3<br>CPV 2-4       | CPV/CPVF 5-6<br>CPV 5-2       | CPVF 3-13<br>CPV/CPVF 5-8     | CPV/CPVF 16-4                 | CPVF 5-18<br>CPV/CPVF 16-8    | CPV/CPVF 20-4                 | CPVF 25-8                     | CPVF 50-4                     |
|-----------------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| A3, mm                                  | 199                           | 195                           | 225                           | 220                           | 263                           | 263                           | 319                           | 339                           |
| A4 (dimension with chain container), mm |                               |                               |                               |                               |                               |                               |                               |                               |
| -Size I (for lift height, m)            | 379 (10 m)                    | 379 (7.5 m)                   | 539 (10 m)                    | 558 (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<br>B = 180 - 300 | A = 58 - 180<br>B = 180 - 300 | A = 58 - 180<br>B = 180 - 300 | A = 58 - 180<br>B = 180 - 300 | A = 58 - 180<br>B = 180 - 300 | A = 58 - 180<br>B = 180 - 300 | A = 58 - 180<br>B = 180 - 300 | A = 58 - 180<br>B = 180 - 300 |
| H1, mm                                  | 25                            | 25                            | 24                            | 24                            | 23                            | 23                            | 33                            | 30                            |
| H2, mm                                  | 113                           | 113                           | 129                           | 129                           | 129                           | 129                           | 178                           | 178                           |
| H4 (VTE), 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                  | 78                            | 78                            | 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                                  | 136                           | 136                           | 155                           | 155                           | 180                           | 180                           | 263                           | 263                           |
| L4, mm                                  | 131                           | 115                           | 173                           | 181                           | 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 + 63                        | b + 63                        | b + 50                        | b + 50                        | b + 54                        | b + 54                        | b + 70                        | b + 70                        |
| T, mm                                   | 54                            | 54                            | 94                            | 54                            | 54                            | 54                            | 54                            | 54                            |
| imax, mm                                | 12                            | 12                            | 19                            | 19                            | 19                            | 19                            | 27                            | 27                            |



CPV/CPVF  
with integrated manual push or geared trolley



CPV/CPVF  
with integrated electric trolley

