



*Omis Cranes*  
*built around your business*



In the national crane market since 1967, OMIS has become one of the most important crane manufacturer in Europe, thanks to the quality and reliability of its products.

OMIS product range includes high-level material handling components for standard bridge cranes, developed for own use and now available on the market.

The use of quality-controlled materials, the application of advanced working processes and the accurate checks on the smallest details have allowed OMIS to fulfil any customer's needs.

Therefore, OMIS can be considered the ideal partner for crane manufacturers throughout Europe.



An efficient technical service, made from qualified maintenance engineers, is at customers disposal to ensure appropriate functionality of all parts cranes are made of, from erection onward.



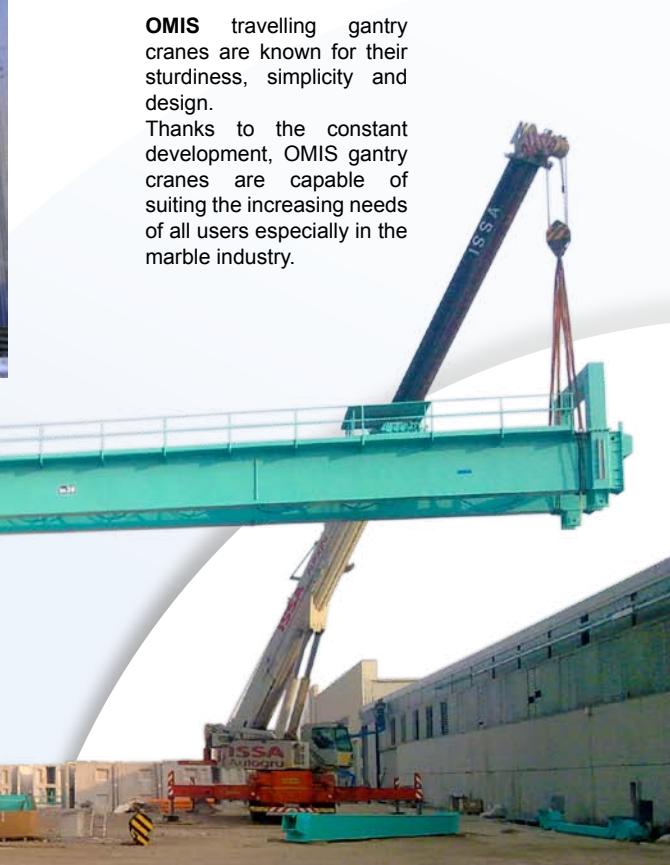


**OMIS** is the Italian leading company in the standard bridge crane market, that is for cranes characterised by a hook capacity up to 20,000 kg and bridge span up to 25 m. OMIS also manufactures special-purpose cranes of any capacity and bridge span.





**OMIS** product range also includes light handling systems such as jib cranes, monorails and bridge cranes. Next to the standard production, specific solutions are provided to satisfy different needs.



**OMIS** travelling gantry cranes are known for their sturdiness, simplicity and design.

Thanks to the constant development, **OMIS** gantry cranes are capable of suiting the increasing needs of all users especially in the marble industry.

- Council Directive 89/392/eeC And Following Amending Directives 91/368/eeC, 93/44/eeC And 93/68/eeC
- Low Voltage Directive 73/23/eeC
- Electromagnetic Compatibility 89/336/eeC • En - 292 Part 1 And 2 (Safety Of Electrical Equipment Of Machines)
- En - 60204-1 (Safety Of Electrical Equipment Of Machines)
- En 29001 (Warranty Of Quality)
- Din 15401 / 15402 (Lifting Hooks for Lifting Appliances)
- Din 40050 (Ip Protections)
- Fem 1001 - 3rd Edition (Lifting Appliances; Calculation)
- Fem 9761 (Overload Limit Devices)
- Fem 9755 (Safe Work Period)
- Fem 9341 (Local Stress On Beam Flanges) • Agma 2001 - B88 (Gearings)

#### **CONDITIONS OF USE**

The crane components treated in this catalogue are manufactured with regard to the following environmental conditions:

|                            |             |
|----------------------------|-------------|
| <b>WORKING TEMPERATURE</b> | -10 + 40°C  |
| <b>UMIDITY RATIO</b>       | max. 80%    |
| <b>ALTITUDE</b>            | max. 1000 m |

The standard power supply is characterised by a three-phase voltage of 380V and a frequency of 50 Hz, with a 10% allowance.

OMIS crane components are designed to be used in environments protected from atmospheric corrosion.

See paragraph 'Electrical equipment' for details.

The sound level of all components is lower than 85 dB, measured 1 m away and at 1.6 m from the ground.

# OMIS

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# END CARRIAGES



OMIS offers a wide range of end carriages for single and double girder bridge cranes, for hook capacities up to 60 tons

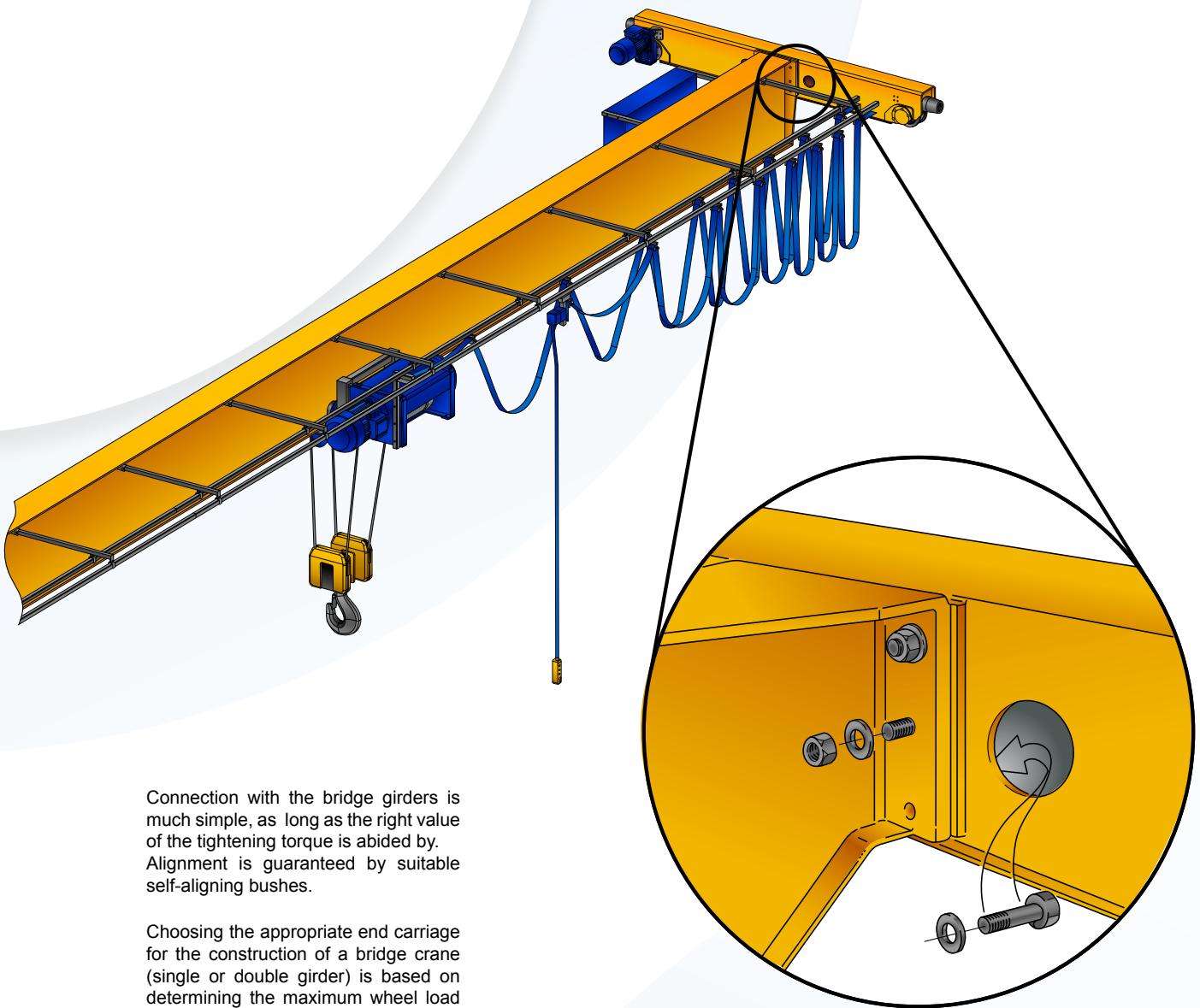
Manufactured by means of high-technology processes involving automatic welding and machining centres, OMIS end carriages feature high quality and modularity of components.

The large productive capacity allows cost effectiveness and fast delivery.

Structure is of box girder construction characterised by high resistance to bending and torsional stresses. Self-aligning bushes are fitted into the bolted connections to guarantee perfect bridge squareness. Buffers are fabricated from polyurethane resin featuring high shock-absorbing resistance.



# END CARRIAGES

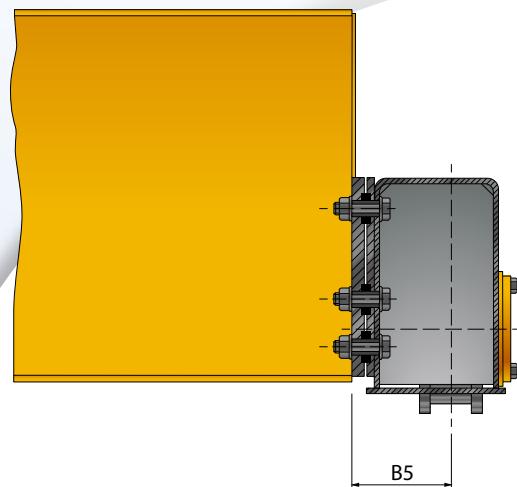


Connection with the bridge girders is much simple, as long as the right value of the tightening torque is abided by. Alignment is guaranteed by suitable self-aligning bushes.

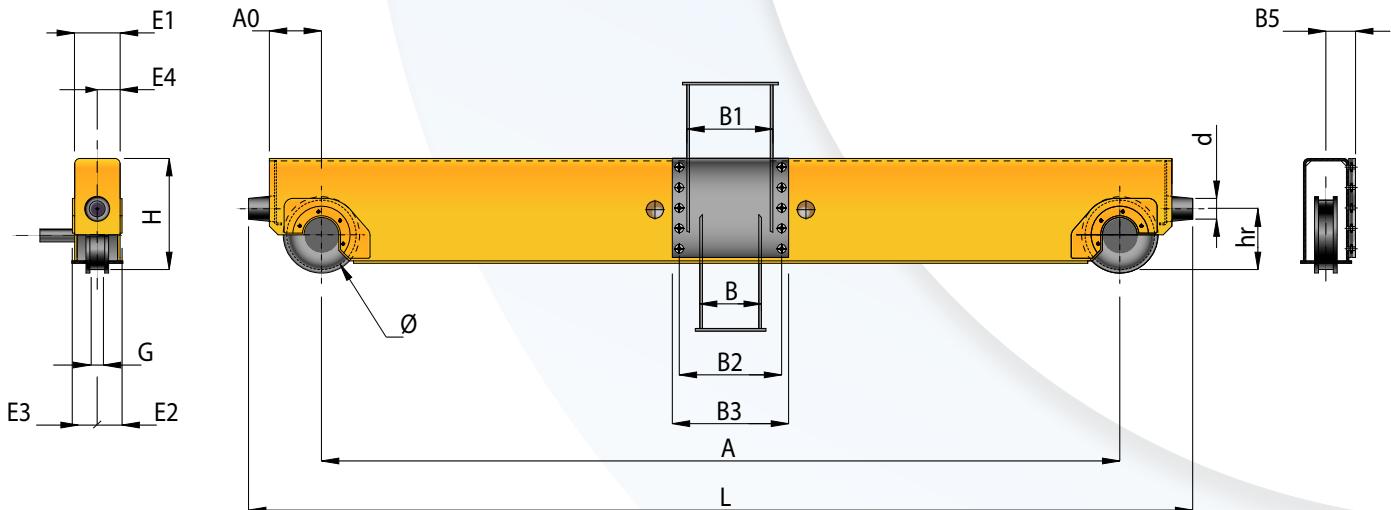
Choosing the appropriate end carriage for the construction of a bridge crane (single or double girder) is based on determining the maximum wheel load imposed upon each wheel. With regard to FEM classification, the tables given in the next pages show the maximum wheel load each end carriage is capable of bearing.

Bridge girders are geometrically linked with the type of end carriage, and it is therefore fundamental that dimensions B1, B2 and B3 must be complied with. OMIS supplies counter-flanges to be welded on the bridge girders.

Gearmotors are normally designed to provide a long travel speed of 40 m/min, duty group M5 (2m), but alternative solutions can be supplied in accordance with the gearmotors selection table hereinafter enclosed.



# END CARRIAGES FOR SINGLE GIRDER CRANES



| CODE    | DUTY GROUP  |            |            | FEATURES |    |      | kg / pair | STANDARD GEARMOTORS |                   |
|---------|-------------|------------|------------|----------|----|------|-----------|---------------------|-------------------|
|         | M4<br>(1am) | M5<br>(2m) | M6<br>(3m) | Ø        | G  | A    |           | FOR<br>INVERTER     | FOR DUAL<br>SPEED |
|         | kN          | kN         | kN         | mm       | mm | mm   |           |                     |                   |
| T 11957 | 33          | 29         | 26         | 125      | 60 | 1500 | 160       | SNR05080020         | SFR05090250       |
| T 11958 | 36          | 32         | 29         | 160      |    | 2200 | 280       | SNR05080020         | SFR05090300       |
| T 11961 | 48          | 44         | 40         |          |    | 2000 | 420       | SNR05080020         | SFR05090300       |
| T 11945 | 40          | 36         | 33         |          |    | 2350 | 380       | SNR05080020         | SFR05090300       |
| T 11946 | 44          | 39         | 36         |          |    | 2700 | 470       | SNR05080020         | SFR15090350       |
| T 11944 | 48          | 44         | 40         |          |    | 3700 | 650       | SNR05080020         | SFR15090350       |
| T 11948 | 60          | 54         | 49         |          |    | 2700 | 640       | SFR15090030         | SFR15090350       |
| T 11960 | 60          | 54         | 49         |          |    | 3700 | 950       | SFR15090035         | SFR15090370       |

- type T 11957 is for H-profile girders
- the max. wheel load is calculated based on an LT speed of 40 m/min and on a rail width of 40 mm for T11957 and a width of 50 mm for all the other end-carriages. For narrower rails and/or higher speeds the max. wheel load will be lower and must be calculated case by case
- weight is referred to two end carriages without gearmotors
- standard gearmotors are related to an LT speed of 40 m/min

| CODE    | A0  | L    | H   | E1  | E2  | E3  | E4 | B   | B1  | B2  | B3  | B5  | d   | hr  |
|---------|-----|------|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|
| T 11957 | 150 | 1880 | 248 | 140 | 88  | 88  | 70 | —   | —   | 220 | 320 | 105 | 100 | 170 |
| T 11958 | 160 | 2680 | 267 | 152 | 94  | 94  | 76 | 180 | 236 | 315 | 395 | 120 | 100 | 180 |
| T 11961 | 175 | 2500 | 375 | 196 | 105 | 155 | 73 | 230 | 280 | 360 | 440 | 159 | 100 | 210 |
| T 11945 | 175 | 2850 | 335 | 194 | 105 | 155 | 72 | 180 | 236 | 315 | 395 | 158 | 100 | 210 |
| T 11946 | 175 | 3200 | 335 | 196 | 105 | 155 | 73 | 230 | 280 | 360 | 440 | 159 | 100 | 210 |
| T 11944 | 175 | 4200 | 375 | 196 | 105 | 155 | 73 | 290 | 325 | 405 | 485 | 159 | 100 | 210 |
| T 11948 | 200 | 3245 | 375 | 210 | 110 | 175 | 80 | 230 | 280 | 360 | 440 | 166 | 100 | 250 |
| T 11960 | 200 | 4245 | 385 | 210 | 110 | 175 | 80 | 290 | 325 | 405 | 485 | 166 | 100 | 250 |

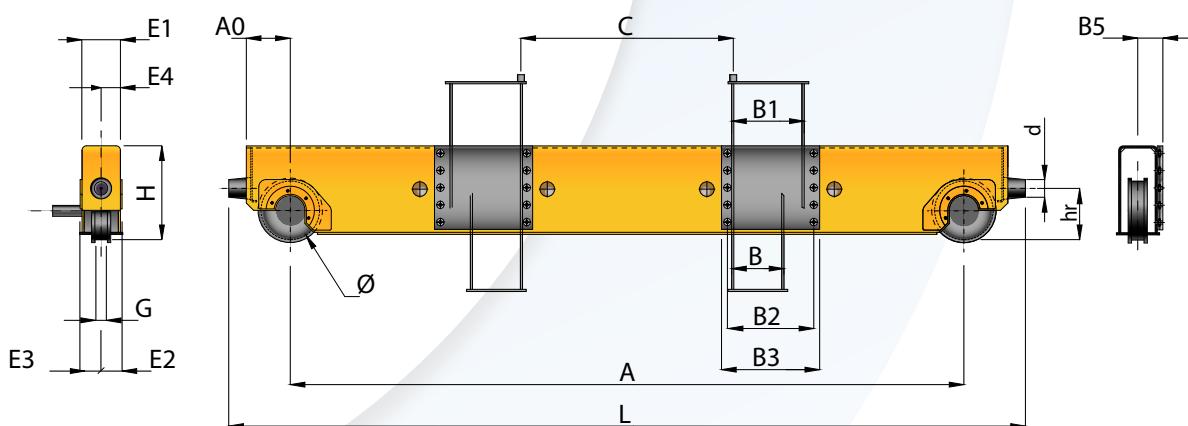
- B and B1 are the minimum and maximum allowed girder widths
- B5 includes the counter-flanges (welded on the girder)

Choosing the appropriate end carriage for the construction of a bridge crane, whether single or double girder version, is based on determining the maximum wheel load imposed upon each wheel. With regard to FEM classification, the first table gives the maximum wheel load each end carriage is capable of bearing.

The bridge girders have to be manufactured in compliance with the dimensions given in the bottom table, in particular B and B1 must be carefully checked. OMIS supplies the counter-flanges to be welded on the girders.

The standard gearmotors that are coupled with each end carriage are shown in the same table, while other possible choices are given in the gearmotors table in the next pages.

# END CARRIAGES FOR DOUBLE GIRDER CRANES



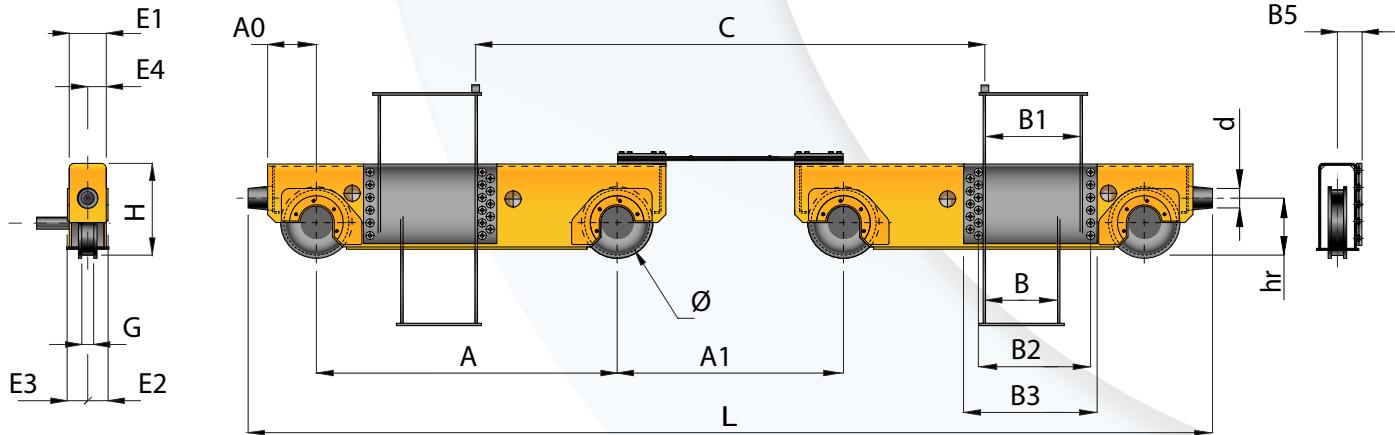
| CODE    | DUTY GROUP |         |         | FEATURES |     |      |      | WEIGHT<br>kg / pair | STANDARD GEARMOTORS |                |
|---------|------------|---------|---------|----------|-----|------|------|---------------------|---------------------|----------------|
|         | M4 (1am)   | M5 (2m) | M6 (3m) | Ø        | G   | A    | C    |                     | FOR INVERTER        | FOR DUAL SPEED |
|         | kN         | kN      | kN      | mm       | mm  | mm   | mm   |                     |                     |                |
| T 11930 | 40         | 38      | 31      | 160      |     | 2000 | 1000 | 290                 | SNR05080020         | SFR05090300    |
| T 11933 | 56         | 45      | 35      | 200      |     | 2500 | 1000 | 440                 | SNR05080020         | SFR05090300    |
| T 11934 | 52         | 45      | 35      |          | 70  | 3150 | 1000 | 570                 | SNR05080020         | SFR15090350    |
| T 11936 | 73         | 71      | 60      |          | 70  | 2500 | 1000 | 520                 | SFR15090030         | SFR15090350    |
| T 11937 | 80         | 78      | 60      |          | 250 | 3150 | 1000 | 710                 | SFR15090030         | SFR15090360    |
| T 11938 | 92         | 88      | 60      |          | 250 | 3700 | 1000 | 940                 | SFR15090035         | SFR15090370    |
| T 11986 | 71         | 68      | 60      |          | 315 | 4600 | 1000 | 1150                | SFR15090035         | SFR15090370    |
| T 11940 | 124        | 114     | 106     |          | 315 | 3150 | 1200 | 780                 | SFR25100055         | SFR20090400    |
| T 11941 | 132        | 128     | 106     |          | 315 | 3700 | 1200 | 1200                | SFR25100055         | SFR20090400    |
| T 11942 | 156        | 148     | 106     |          | 80  | 3700 | 1450 | 1220                | SFR25100055         | SOR25100700    |
| T 11949 | 159        | 159     | 106     |          | 80  | 2700 | 1450 | 710                 | SFR25100055         | SOR25100700    |
| T 11987 | 110        | 106     | 106     |          | 80  | 4600 | 1000 | 1460                | SFR25100055         | SOR25100700    |
| T 11988 | 220        | 220     | 180     |          | 90  | 3700 | 1450 | 1650                | SFR25100055         | SOSTD112850    |
| T 11989 | 210        | 180     | 180     |          | 90  | 4600 | 1200 | 1990                | SFR25100055         | SOSTD112850    |
| T 11990 | 212        | 212     | 180     |          | 90  | 4600 | 1450 | 2420                | SOR25100040         | SOSTD112850    |
| T 11996 | 212        | 212     | 180     |          | 90  | 3700 | 2000 | 1650                | SOSTD100050         | SOSTD112900    |
| T 11991 | 270        | 270     | 240     | 500      | 90  | 4600 | 1450 | 2840                | SOSTD100050         | SOSTD112900    |
| T 11992 | 270        | 270     | 240     | 500      | 90  | 4600 | 2000 | 2840                | SOSTD112060         | SOSTD112900    |

- the max. wheel load is calculated based on an LT speed of 40 m/min and on a rail width of 50 mm for wheels up to 250 mm, a rail width of 60 mm for wheel of 315 mm and a rail width of 70 mm for wheels up to 500 mm. For narrower rails and/or higher speeds the max. wheel load will be lower and must be calculated case by case
- weight is referred to two end carriages without gearmotors
- standard gearmotors are related to an LT speed of 40 m/min

| CODE    | A0  | L    | H   | E1  | E2  | E3  | E4  | B   | B1  | B2  | B3  | B5  | d   | hr  |
|---------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| T 11930 | 160 | 2480 | 267 | 152 | 94  | 94  | 76  | *   | *   | 220 | 320 | 110 | 100 | 180 |
| T 11933 | 175 | 3000 | 335 | 192 | 105 | 155 | 71  | 210 | 250 | 335 | 415 | 157 | 100 | 210 |
| T 11934 | 175 | 3650 | 335 | 194 | 105 | 155 | 72  | 280 | 320 | 405 | 485 | 158 | 100 | 210 |
| T 11936 | 200 | 3045 | 375 | 202 | 115 | 165 | 76  | 250 | 290 | 375 | 455 | 162 | 100 | 250 |
| T 11937 | 200 | 3695 | 375 | 206 | 115 | 165 | 78  | 280 | 320 | 405 | 485 | 164 | 100 | 250 |
| T 11938 | 200 | 4245 | 375 | 210 | 115 | 165 | 80  | 330 | 370 | 455 | 535 | 166 | 100 | 250 |
| T 11986 | 200 | 5145 | 385 | 210 | 115 | 165 | 80  | 420 | 460 | 540 | 620 | 166 | 100 | 250 |
| T 11940 | 240 | 3878 | 403 | 226 | 130 | 180 | 88  | 280 | 320 | 405 | 485 | 174 | 150 | 310 |
| T 11941 | 240 | 4430 | 403 | 234 | 130 | 180 | 92  | 380 | 420 | 505 | 585 | 178 | 150 | 310 |
| T 11942 | 240 | 4428 | 483 | 230 | 130 | 180 | 90  | 380 | 420 | 505 | 585 | 176 | 150 | 310 |
| T 11949 | 240 | 3428 | 403 | 226 | 130 | 180 | 88  | 280 | 320 | 405 | 485 | 174 | 150 | 310 |
| T 11987 | 240 | 5328 | 493 | 230 | 130 | 180 | 90  | 420 | 460 | 540 | 620 | 176 | 150 | 310 |
| T 11951 | 300 | 4540 | 550 | 224 | 165 | 165 | 112 | 420 | 460 | 540 | 620 | 148 | 150 | 350 |
| T 11952 | 300 | 4540 | 550 | 224 | 165 | 165 | 112 | 380 | 420 | 505 | 585 | 148 | 150 | 350 |
| T 11988 | 300 | 4540 | 550 | 224 | 165 | 165 | 112 | 420 | 460 | 540 | 620 | 148 | 150 | 350 |
| T 11989 | 300 | 5440 | 580 | 224 | 165 | 165 | 112 | 470 | 510 | 590 | 670 | 148 | 150 | 350 |
| T 11990 | 300 | 5440 | 640 | 228 | 165 | 165 | 114 | 470 | 510 | 590 | 670 | 150 | 150 | 350 |
| T 11996 | 300 | 4540 | 565 | 224 | 165 | 165 | 112 | 420 | 460 | 540 | 620 | 148 | 150 | 350 |
| T 11991 | 350 | 5880 | 700 | 225 | 165 | 165 | 112 | 520 | 560 | 640 | 720 | 148 | 200 | 420 |
| T 11992 | 350 | 5880 | 700 | 225 | 165 | 165 | 112 | 520 | 560 | 640 | 720 | 148 | 200 | 420 |

- B and B1 are the minimum and maximum allowed girder widths
- B5 includes the counter-flanges (welded on the girder)
- (\*) end carriage for H-beams

# BOGIE TYPE END CARRIAGES



| CODE    | DUTY GROUP |     |     | FEATURES |    |      |       | WEIGHT<br>kg / set |
|---------|------------|-----|-----|----------|----|------|-------|--------------------|
|         | M4         | M5  | M6  | Ø        | G  | A    | C min |                    |
|         | 1am        | 2m  | 3m  | mm       | mm | mm   | mm    |                    |
| T 11993 | 159        | 159 | 106 | 315      | 80 | 1600 | 2000  | 1700               |
| T 11994 | 220        | 220 | 200 | 400      | 90 | 1850 | 2500  | 2700               |
| T 11995 | 300        | 275 | 240 | 500      |    | 2300 | 3000  | 3500               |

| STANDARD GEARMOTORS |                |
|---------------------|----------------|
| FOR INVERTER        | FOR DUAL SPEED |
| SFR25090055         | SOSTD112850    |
| SOSTD100050         | SOSTD112900    |
| SOSTD112060         | —              |

- The max. wheel load is calculated based on an LT speed of 40 m/min and on a rail width of 60 mm for wheels of 315 mm and a rail width of 70 mm for wheels of 400 mm and 500 mm. For narrower rails and/or higher speeds the max. wheel load will be lower and must be calculated case by case
- weight is referred to four bogies without gearmotors
- C min is the minimum trolley gauge

| CODE    | A0  | A1 min | L min | H   | E1  | E2  | E3  | E4  | B   | B1  | B2  | B3  | B5  | d   | hr  |
|---------|-----|--------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| T 11993 | 240 | 560    | 4460  | 615 | 230 | 130 | 180 | 90  | 420 | 505 | 590 | 720 | 181 | 150 | 310 |
| T 11994 | 300 | 760    | 5300  | 700 | 220 | 165 | 165 | 112 | 530 | 610 | 690 | 820 | 150 | 150 | 350 |
| T 11995 | 325 | 750    | 6650  | 850 | 225 | 165 | 165 | 112 | 580 | 660 | 740 | 880 | 165 | 200 | 420 |

- B and B1 are the minimum and maximum allowed girder widths
- B5 includes the counter-flanges (welded on the girder)





**OMIS** drive units have been developed to meet the specific needs in the material handling market. They are characterised by graduality of starting and slowing down. They also offer smooth and noiseless running. The use of high-quality materials and the constant control of all components in every production phase, allow great reliability. OMIS drive units ensure low maintenance costs as they have been designed to suit the most severe operative conditions.

**Gears** are of helical spur type and constructed from casehardening steel.

Boxes are obtained from cast iron in two halves.

**Once** closed, gearboxes are life-time lubricated with grease. High mechanical efficiency is ensured by accurate controls during the assembling phase.

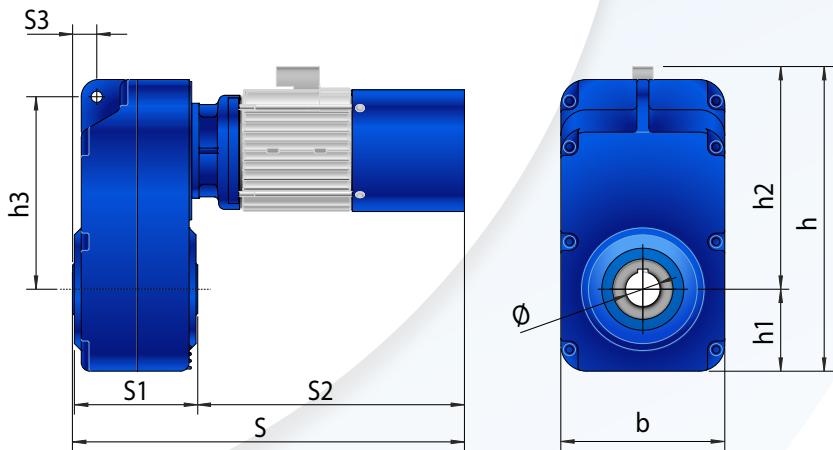
**Motors** are of short-circuited type. They feature protection IP55 and insulation class F.

The possibility to match each gearbox with different motors allows several LT and CT speeds.



MQ motors are cylindrical rotor, flux deviation motors and are suitable for Inverter use. MEC motors feature an external electro-magnetic brake that guarantees higher braking torques. They come as single pole rotor motors for inverter use or as dual-speed, rotor pole change motors.

# GEARMOTORS



| GEARMOTOR          | GEARBOX |                  |      |     | MOTOR |            |          |           | DIMENSIONS [mm] |     |     |     |    |     |     |     |     |     |     |  | WEIGHT |
|--------------------|---------|------------------|------|-----|-------|------------|----------|-----------|-----------------|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|--|--------|
| CODE               | TYPE    | DUTY (vs. ratio) | TYPE | USE |       | rpm        | kW       | Ø         | s               | s1  | s2  | s3  | b  | h   | h1  | h2  | h3  | kg  |     |  |        |
| 61.3               |         |                  |      |     |       |            |          |           |                 |     |     |     |    |     |     |     |     |     |     |  |        |
| <b>SNR03080005</b> | R03     | M5               | —    | —   | MQ    | Inverter   | 2860     | 0.37      | 30              | 340 | 100 | 240 | 27 | 145 | 284 | 70  | 214 | 150 | 19  |  |        |
| <b>SNR03080100</b> | R03     | M5               | —    | —   | MQ    | Dual Speed | 2500/820 | 0.25/0.08 | 30              | 340 | 100 | 240 | 27 | 145 | 284 | 70  | 214 | 150 | 21  |  |        |
| <b>SFR03080150</b> | R03     | M5               | —    | —   | MQ    | Dual Speed | 2500/820 | 0.37/0.12 | 30              | 340 | 100 | 240 | 27 | 145 | 284 | 70  | 214 | 150 | 23  |  |        |
| 61.2 40.7 31.3     |         |                  |      |     |       |            |          |           |                 |     |     |     |    |     |     |     |     |     |     |  |        |
| <b>SNR05080010</b> | R05     | M5               | M6   | M6  | MQ    | Inverter   | 2860     | 0.37      | 30              | 345 | 105 | 240 | 25 | 155 | 327 | 90  | 237 | 180 | 24  |  |        |
| <b>SNR05080020</b> | R05     | M4               | M5   | M6  | MQ    | Inverter   | 2830     | 0.75      | 30              | 345 | 105 | 240 | 25 | 155 | 327 | 90  | 237 | 180 | 25  |  |        |
| <b>SFR05080200</b> | R05     | M5               | M6   | M6  | MQ    | Dual Speed | 2500/820 | 0.37/0.12 | 30              | 415 | 105 | 310 | 25 | 155 | 327 | 90  | 237 | 180 | 28  |  |        |
| <b>SFR05080250</b> | R05     | M4               | M5   | M5  | MQ    | Dual Speed | 2400/870 | 0.55/0.18 | 30              | 415 | 105 | 310 | 25 | 155 | 327 | 90  | 237 | 180 | 28  |  |        |
| <b>SFR05090300</b> | R05     | M4               | M5   | M5  | MQ    | Dual Speed | 2600/800 | 0.75/0.25 | 30              | 465 | 105 | 360 | 25 | 155 | 327 | 90  | 237 | 180 | 32  |  |        |
| 61.3 51.4 40.8     |         |                  |      |     |       |            |          |           |                 |     |     |     |    |     |     |     |     |     |     |  |        |
| <b>SFR15090030</b> | R15     | M5               | M6   | M6  | MQ    | Inverter   | 2800     | 1.1       | 40              | 430 | 120 | 310 | 24 | 180 | 353 | 90  | 263 | 200 | 36  |  |        |
| <b>SFR15090035</b> | R15     | M5               | M5   | M6  | MQ    | Inverter   | 2750     | 1.5       | 40              | 430 | 120 | 310 | 24 | 180 | 353 | 90  | 263 | 200 | 37  |  |        |
| <b>SFR15090350</b> | R15     | M5               | M6   | M6  | MQ    | Dual Speed | 2600/800 | 0.75/0.25 | 40              | 480 | 120 | 360 | 24 | 180 | 353 | 90  | 263 | 200 | 37  |  |        |
| <b>SFR15090360</b> | R15     | M5               | M6   | M6  | MQ    | Dual Speed | 2500/760 | 1.1/0.36  | 40              | 480 | 120 | 360 | 24 | 180 | 353 | 90  | 263 | 200 | 42  |  |        |
| <b>SFR15090370</b> | R15     | M5               | M5   | M6  | MQ    | Dual Speed | 2600/840 | 1.5/0.5   | 40              | 500 | 120 | 380 | 24 | 180 | 353 | 90  | 263 | 200 | 42  |  |        |
| 82.3               |         |                  |      |     |       |            |          |           |                 |     |     |     |    |     |     |     |     |     |     |  |        |
| <b>SFR20090040</b> | R20     | M6               | —    | —   | MQ    | Inverter   | 2800     | 1.1       | 40              | 455 | 145 | 310 | 28 | 190 | 357 | 95  | 262 | 223 | 46  |  |        |
| <b>SFR20090045</b> | R20     | M5               | —    | —   | MQ    | Inverter   | 2750     | 1.5       | 40              | 455 | 145 | 310 | 28 | 190 | 357 | 95  | 262 | 223 | 47  |  |        |
| <b>SFR20090380</b> | R20     | M6               | —    | —   | MQ    | Dual Speed | 2600/800 | 0.75/0.25 | 40              | 505 | 145 | 360 | 28 | 190 | 357 | 95  | 262 | 223 | 49  |  |        |
| <b>SFR20090390</b> | R20     | M6               | —    | —   | MQ    | Dual Speed | 2500/760 | 1.1/0.36  | 40              | 505 | 145 | 360 | 28 | 190 | 357 | 95  | 262 | 223 | 52  |  |        |
| <b>SFR20090400</b> | R20     | M5               | —    | —   | MQ    | Dual Speed | 2600/840 | 1.5/0.5   | 40              | 525 | 145 | 380 | 28 | 190 | 357 | 95  | 262 | 223 | 52  |  |        |
| 91.1 72.9 62.6     |         |                  |      |     |       |            |          |           |                 |     |     |     |    |     |     |     |     |     |     |  |        |
| <b>SFR25100055</b> | R25     | M5               | M6   | M6  | MQ    | Inverter   | 2750     | 2.2       | 50              | 500 | 175 | 325 | 35 | 240 | 421 | 136 | 285 | 250 | 74  |  |        |
| <b>SOR25100037</b> | R25     | M5               | M6   | M6  | MEC   | Inverter   | 1400     | 2.2       | 50              | 540 | 175 | 365 | 35 | 240 | 480 | 136 | 344 | 250 | 80  |  |        |
| <b>SOR25100040</b> | R25     | M4               | M5   | M6  | MEC   | Inverter   | 1400     | 3         | 50              | 540 | 175 | 365 | 35 | 240 | 480 | 136 | 344 | 250 | 80  |  |        |
| <b>SNR25090420</b> | R25     | M6               | M6   | M6  | MQ    | Dual Speed | 2500/760 | 1.1/0.36  | 50              | 530 | 175 | 355 | 35 | 240 | 421 | 136 | 285 | 250 | 75  |  |        |
| <b>SNR25090430</b> | R25     | M6               | M6   | M6  | MQ    | Dual Speed | 2600/840 | 1.5/0.5   | 50              | 550 | 175 | 375 | 35 | 240 | 421 | 136 | 285 | 250 | 78  |  |        |
| <b>SOR25100700</b> | R25     | M6               | M6   | M6  | MEC   | Dual Speed | 2865/945 | 1.5/0.5   | 50              | 570 | 175 | 395 | 35 | 240 | 480 | 136 | 344 | 250 | 82  |  |        |
| 104.2 80.2 59.8    |         |                  |      |     |       |            |          |           |                 |     |     |     |    |     |     |     |     |     |     |  |        |
| <b>SOSTD100045</b> | R30     | M6               | M6   | M6  | MEC   | Inverter   | 1400     | 2.2       | 70              | 570 | 210 | 360 | 38 | 300 | 547 | 150 | 397 | 360 | 132 |  |        |
| <b>SOSTD100050</b> | R30     | M5               | M6   | M6  | MEC   | Inverter   | 1400     | 3         | 70              | 570 | 210 | 360 | 38 | 300 | 547 | 150 | 397 | 360 | 135 |  |        |
| <b>SOSTD112060</b> | R30     | M5               | M5   | M6  | MEC   | Inverter   | 1400     | 4         | 70              | 615 | 210 | 405 | 38 | 300 | 565 | 150 | 415 | 360 | 147 |  |        |
| <b>SOSTD100750</b> | R30     | M6               | M6   | M6  | MEC   | Dual Speed | 2850/945 | 1.5/0.5   | 70              | 570 | 210 | 360 | 38 | 300 | 547 | 150 | 397 | 360 | 138 |  |        |
| <b>SOSTD112850</b> | R30     | M6               | M6   | M6  | MEC   | Dual Speed | 2850/945 | 2.2/0.76  | 70              | 595 | 210 | 415 | 38 | 300 | 565 | 150 | 415 | 360 | 147 |  |        |
| <b>SOSTD112900</b> | R30     | M5               | M6   | M6  | MEC   | Dual Speed | 2850/945 | 3/1       | 70              | 595 | 210 | 415 | 38 | 300 | 565 | 150 | 415 | 360 | 151 |  |        |

R30 gearboxes are also available with the following reduction ratios: 120.2 - 91.1 - 71.0 - 52.3 - 46.1 - 40.8 - 30.9 - 27.2 - 24.1

The reliability of OMIS's OPE series of hoist units is endorsed by 20 years of success throughout Europe and the loyalty of thousands of customers who recognize it as extremely versatile, cost-effective and of easy maintenance.

The OPE hoist has been designed with rectangular shape, which allows fitting-up on all frame sides.

A two fall-of-rope hoist can be transformed into a four fall-of-rope hoist (or vice-versa) by simply replacing the hook-block and by adding (or removing) the fixed sheave.

The drum can be accessed from all four sides. Motor and gearbox are simply flanged to the main frame to allow easy maintenance.

All parts are accurately inspected during all production phases and appropriately tested in the final testing procedure.

OPE hoists can be integrated into three main different configuration trolleys: supported (CBA) and underslung (CBS) for double girder cranes, low-headroom (CRO or CMR) for single girder cranes.



# HOISTS

## Gearbox

This is a two-stage planetary gearbox. Gears are heat treated and mounted on pinions supported by oil-lubricated bearings



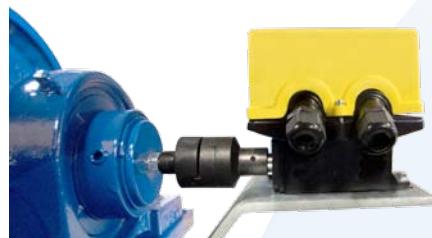
## Rope guide

Made up of two halves and easy to replace, rope guides are designed to guarantee smooth rope reeving and minimize wear.



## Drum

The drum is accurately machined from a thick steel tube. It is set in motion by the slow shaft of the gearbox through a convex grooved coupling to allow slight oscillation without producing additional stress.



## Hook-block

Hook is made from high-resistance forged steel and is equipped with a spring latch. Covers guarantee against accidental contacts with all moving parts such as sheaves and rope.

## Motor

The OPE hoists mounts a cylindrical rotor motor suitable for inverter use, though dual stage pole change motors are also available upon request. The motor is connected to the gearbox fast shaft through a flexible coupling, and it is fitted outside the hoist body to allow easy maintenance and adequate cooling. It features protection IP54, insulation class F.



## Load cell

The load cell is a strain-gauge device enclosed in the fixed-end pin, and it is connected to an electronic card where two load thresholds can be set up in to prevent hoist overloading in accordance with the European specifications.



## Limit switch

To prevent dangerous situations, OMIS hoists are equipped with an emergency limit switch that restricts the vertical lift. It consists of a micro-switch, mechanically operated by the guide ring, that acts on the control circuit.





## FOOT MOUNTED

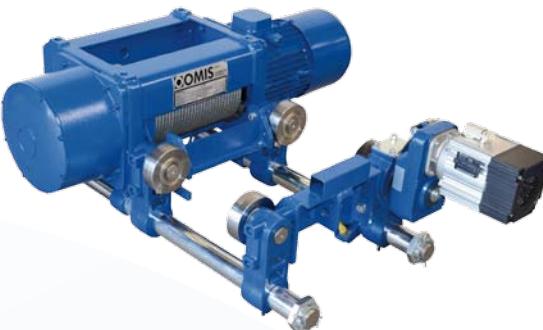
Given the particular rectangular shape, the OPE hoist can be easily integrated into different types of trolley frames, as it can be connected from all four sides.



## "CMR" VERSION

This is the traditional version of the low-headroom hoist units, with the hoist off-centered and balanced by means of a ballast on the other side of the beam.

The CT movement is achieved through two parallel shaft gearmotors.



## "CRO" VERSION

This is the new configuration OMIS is employing for their low-headroom hoist units, and it will soon replace all the previous CMR versions.

Basically, the ballast has been replaced by contrast wheels running on the bottom plate.

The CT movement is achieved through one parallel shaft gearmotor.



## "CBA" VERSION

This is the most common crab unit configuration, featuring a compact size trolley with two driven wheels.

These flanged wheels are connected through a shaft and are powered by a parallel shaft gearmotor.

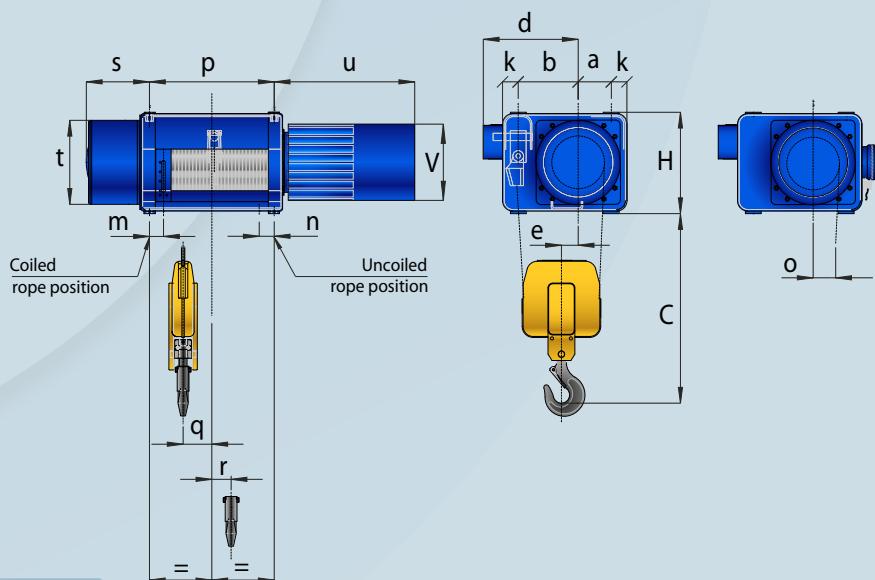


## "CBS" VERSION

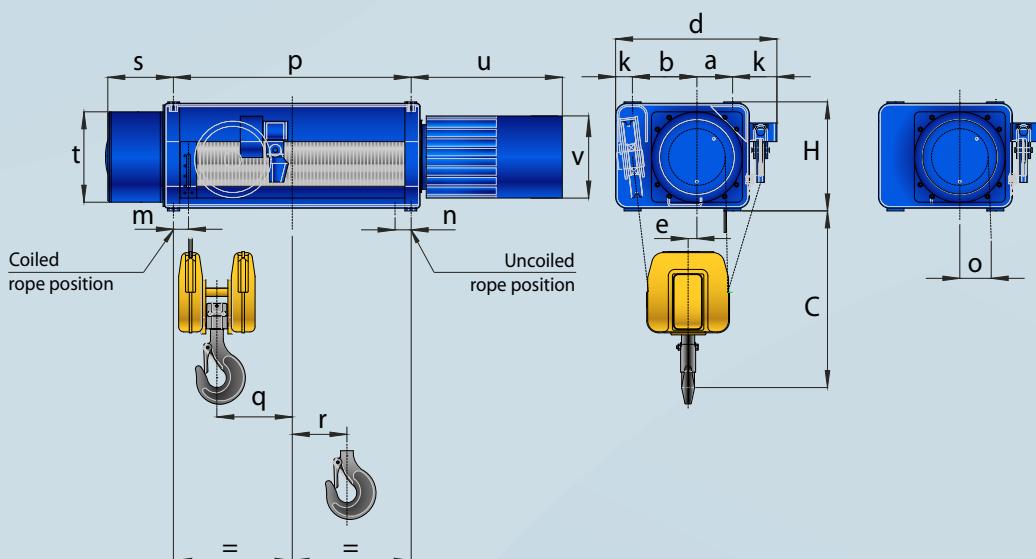
In this version, hoist and trolley are identical to the CBA version, only assembly differs. This interchangeability allows to change the configuration of the crab unit in case of need (typically when rail-to-roof clearance is less than expected).

# HOISTS - OPE SERIES

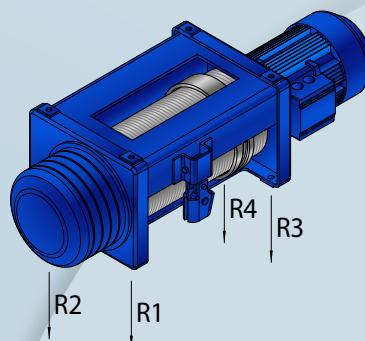
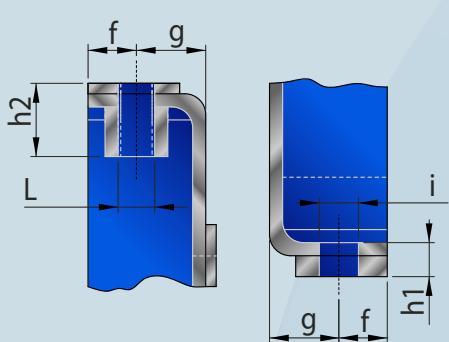
**HOIST WITH  
2/1 FALLS OF ROPE**



**HOIST WITH  
4/1 FALLS OF ROPE**



**STATIC REACTIONS**



# HOISTS - OPE SERIES

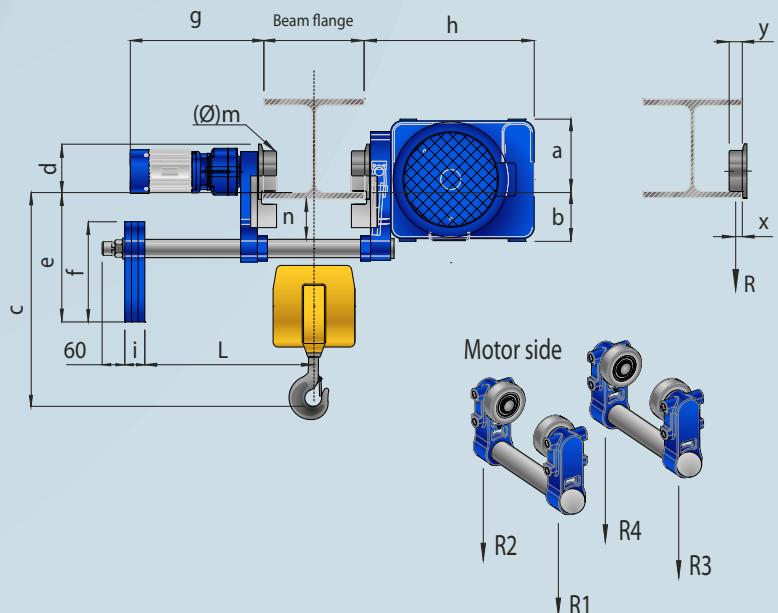
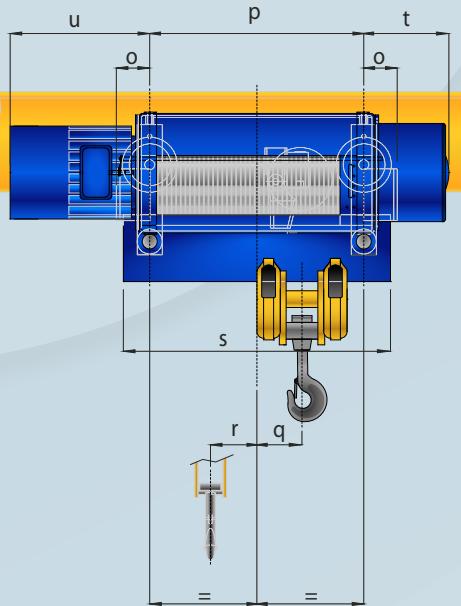
| CODE            | CAPACITY |         | REEVING | ROPE Ø | HOOK DIN 15401 | HOL  | LIFTING SPEED | MOTOR POWER | STATIC REACTIONS |      |      |      | WEIGHT |  |
|-----------------|----------|---------|---------|--------|----------------|------|---------------|-------------|------------------|------|------|------|--------|--|
|                 | t        |         |         | mm     | nr.            | m    | m/min         | kW          | kN               |      |      |      | Kg     |  |
|                 | M5 (2m)  | M6 (3m) |         |        |                |      |               |             | R1               | R2   | R3   | R4   |        |  |
| OPE 308 2T 10 N | 1.6      | 1       | 2/1     | 7      | 1              | 8.8  | 8/2           | 3           | 5.9              | 6.8  | 2.4  | 2.8  | 160    |  |
| OPE 308 2T 14 N | 1.6      | 1       | 2/1     | 7      | 1              | 12.8 | 8/2           | 3           | 6.4              | 7.4  | 2.0  | 2.3  | 170    |  |
| OPE 312 2T 10 N | 2.5      | 1.6     | 2/1     | 10     | 1.6            | 9.2  | 8/2           | 4           | 7.9              | 7.6  | 3.6  | 3.5  | 220    |  |
| OPE 312 2T 14 N | 2.5      | 1.6     | 2/1     | 10     | 1.6            | 13.2 | 8/2           | 4           | 8.6              | 8.3  | 3.0  | 2.9  | 240    |  |
| OPE 308 4T 7 N  | 3.2      | 2.5     | 4/1     | 7      | 1.6            | 6.4  | 4/1           | 3           | 14.0             | 11.4 | 5.0  | 4.0  | 190    |  |
| OPE 308 4T 10 N | 3.2      | 2.5     | 4/1     | 7      | 1.6            | 9.4  | 4/1           | 3           | 15.2             | 12.3 | 3.9  | 3.2  | 210    |  |
| OPE 308 4T 13 N | 3.2      | 2.5     | 4/1     | 7      | 1.6            | 12.4 | 4/1           | 3           | 15.9             | 12.9 | 3.3  | 2.7  | 230    |  |
| OPE 316 2T 10 N | 3.2      | 2.5     | 2/1     | 10     | 1.6            | 9.2  | 8/2           | 5           | 12.2             | 11.8 | 5.5  | 5.3  | 245    |  |
| OPE 316 2T 14 N | 3.2      | 2.5     | 2/1     | 10     | 1.6            | 13.2 | 8/2           | 5           | 13.4             | 12.9 | 4.5  | 4.3  | 270    |  |
| OPE 312 4T 7 N  | 5        | 4       | 4/1     | 10     | 2.5            | 6.6  | 4/1           | 4           | 22.2             | 16.5 | 8.3  | 6.2  | 260    |  |
| OPE 312 4T 10 N | 5        | 4       | 4/1     | 10     | 2.5            | 9.6  | 4/1           | 4           | 24.3             | 18.1 | 6.4  | 4.8  | 290    |  |
| OPE 312 4T 13 N | 5        | 4       | 4/1     | 10     | 2.5            | 12.6 | 4/1           | 4           | 25.5             | 19.0 | 5.3  | 4.0  | 320    |  |
| OPE 525 2T 10 N | 5        | 4       | 2/1     | 12     | 2.5            | 9.6  | 8/2           | 8           | 18.3             | 18.6 | 8.4  | 8.6  | 330    |  |
| OPE 525 2T 14 N | 5        | 4       | 2/1     | 12     | 2.5            | 13.6 | 8/2           | 8           | 20.0             | 20.4 | 6.7  | 6.9  | 350    |  |
| OPE 316 4T 7 N  | 6.3      | 5       | 4/1     | 10     | 4              | 6.6  | 4/1           | 5           | 27.8             | 20.7 | 10.3 | 7.7  | 290    |  |
| OPE 316 4T 10 N | 6.3      | 5       | 4/1     | 10     | 4              | 9.6  | 4/1           | 5           | 30.4             | 22.7 | 7.9  | 5.9  | 320    |  |
| OPE 316 4T 13 N | 6.3      | 5       | 4/1     | 10     | 4              | 12.6 | 4/1           | 5           | 31.9             | 23.8 | 6.6  | 4.9  | 360    |  |
| OPE 525 4T 7 N  | 10       | 8       | 4/1     | 12     | 4              | 6.8  | 4/1           | 8           | 42.5             | 32.7 | 16.8 | 12.9 | 390    |  |
| OPE 525 4T 10 N | 10       | 8       | 4/1     | 12     | 4              | 9.8  | 4/1           | 8           | 46.7             | 35.9 | 12.8 | 9.9  | 430    |  |
| OPE 525 4T 13 N | 10       | 8       | 4/1     | 12     | 4              | 12.8 | 4/1           | 8           | 49.1             | 37.8 | 10.6 | 8.2  | 470    |  |

| CODE            | DIMENSIONS |     |     |     |    |    |    |     |    |    |    |    |    |    |     |     |     |      |     |     |     |     |
|-----------------|------------|-----|-----|-----|----|----|----|-----|----|----|----|----|----|----|-----|-----|-----|------|-----|-----|-----|-----|
|                 | mm         |     |     |     |    |    |    |     |    |    |    |    |    |    |     |     |     |      |     |     |     |     |
|                 | a          | b   | c   | d   | e  | f  | g  | H   | h1 | h2 | i  | L  | m  | n  | o   | p   | q   | r    | s   | t   | u   | v   |
| OPE 308 2T 10 N | 105        | 190 | 700 | 300 | 53 | 19 | 27 | 325 | 13 | 28 | 15 | 14 | 60 | 69 | 83  | 395 | 91  | 61   | 200 | 218 | 445 | 220 |
| OPE 308 2T 14 N | 105        | 190 | 700 | 300 | 53 | 19 | 27 | 325 | 13 | 28 | 15 | 14 | 60 | 69 | 83  | 520 | 154 | 61   | 200 | 218 | 445 | 220 |
| OPE 312 2T 10 N | 105        | 190 | 770 | 300 | 40 | 19 | 27 | 325 | 13 | 34 | 17 | 20 | 60 | 69 | 109 | 440 | 90  | 77   | 250 | 292 | 450 | 220 |
| OPE 312 2T 14 N | 105        | 190 | 770 | 300 | 40 | 19 | 27 | 325 | 13 | 34 | 17 | 20 | 60 | 69 | 109 | 570 | 155 | 77   | 250 | 292 | 450 | 220 |
| OPE 308 4T 7 N  | 105        | 190 | 635 | 470 | 27 | 19 | 27 | 325 | 13 | 28 | 15 | 14 | 60 | 69 | 83  | 520 | 132 | -25  | 200 | 218 | 445 | 220 |
| OPE 308 4T 10 N | 105        | 190 | 635 | 470 | 27 | 19 | 27 | 325 | 13 | 28 | 15 | 14 | 60 | 69 | 83  | 700 | 222 | -69  | 200 | 218 | 445 | 220 |
| OPE 308 4T 13 N | 105        | 190 | 635 | 470 | 27 | 19 | 27 | 325 | 13 | 28 | 15 | 14 | 60 | 69 | 83  | 885 | 314 | -115 | 200 | 218 | 445 | 220 |
| OPE 316 2T 10 N | 105        | 190 | 770 | 300 | 40 | 19 | 27 | 325 | 13 | 34 | 17 | 20 | 60 | 69 | 109 | 440 | 90  | 77   | 250 | 292 | 480 | 260 |
| OPE 316 2T 14 N | 105        | 190 | 770 | 300 | 40 | 19 | 27 | 325 | 13 | 34 | 17 | 20 | 60 | 69 | 109 | 570 | 155 | 77   | 250 | 292 | 480 | 260 |
| OPE 312 4T 7 N  | 105        | 190 | 700 | 470 | 21 | 19 | 27 | 325 | 13 | 34 | 17 | 20 | 60 | 69 | 109 | 570 | 137 | -19  | 250 | 292 | 450 | 220 |
| OPE 312 4T 10 N | 105        | 190 | 700 | 470 | 21 | 19 | 27 | 325 | 13 | 34 | 17 | 20 | 60 | 69 | 109 | 775 | 240 | -72  | 250 | 292 | 450 | 220 |
| OPE 312 4T 13 N | 105        | 190 | 700 | 470 | 21 | 19 | 27 | 325 | 13 | 34 | 17 | 20 | 60 | 69 | 109 | 975 | 340 | -122 | 250 | 292 | 450 | 220 |
| OPE 525 2T 10 N | 133        | 213 | 860 | 325 | 33 | 21 | 31 | 380 | 18 | 48 | 21 | 24 | 60 | 69 | 132 | 455 | 90  | 66   | 270 | 360 | 490 | 260 |
| OPE 525 2T 14 N | 133        | 213 | 860 | 325 | 33 | 21 | 31 | 380 | 18 | 48 | 21 | 24 | 60 | 69 | 132 | 590 | 157 | 66   | 270 | 360 | 490 | 260 |
| OPE 316 4T 7 N  | 105        | 190 | 715 | 470 | 21 | 19 | 27 | 325 | 13 | 34 | 17 | 20 | 60 | 69 | 109 | 570 | 137 | -19  | 250 | 292 | 480 | 260 |
| OPE 316 4T 10 N | 105        | 190 | 715 | 470 | 21 | 19 | 27 | 325 | 13 | 34 | 17 | 20 | 60 | 69 | 109 | 775 | 240 | -72  | 250 | 292 | 460 | 260 |
| OPE 316 4T 13 N | 105        | 190 | 715 | 470 | 21 | 19 | 27 | 325 | 13 | 34 | 17 | 20 | 60 | 69 | 109 | 975 | 340 | -122 | 250 | 292 | 460 | 260 |
| OPE 525 4T 7 N  | 133        | 213 | 770 | 545 | 12 | 21 | 31 | 380 | 18 | 48 | 21 | 24 | 60 | 69 | 132 | 590 | 133 | -15  | 270 | 360 | 490 | 260 |
| OPE 525 4T 10 N | 133        | 213 | 770 | 545 | 12 | 21 | 31 | 380 | 18 | 48 | 21 | 24 | 60 | 69 | 132 | 795 | 236 | -67  | 270 | 360 | 490 | 260 |
| OPE 525 4T 13 N | 133        | 213 | 770 | 545 | 12 | 21 | 31 | 380 | 18 | 48 | 21 | 24 | 60 | 69 | 132 | 995 | 336 | -117 | 270 | 360 | 490 | 260 |

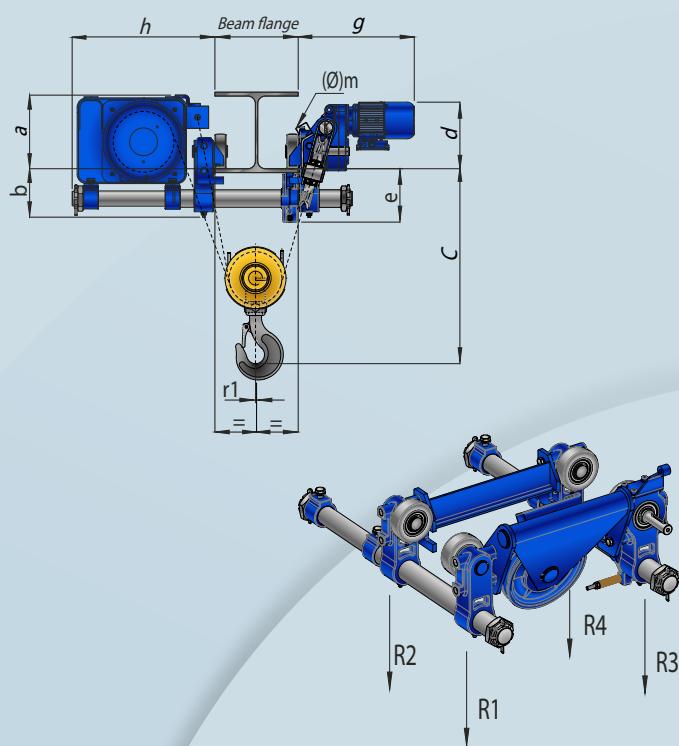
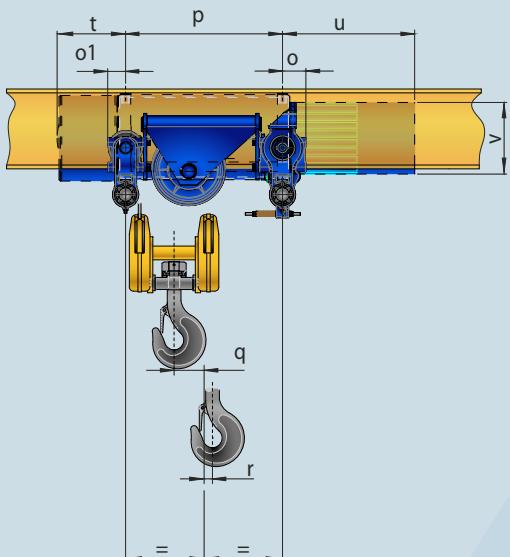
► All motors are for inverter use. Dual speed available upon request.

# LOW-HEADROOM HOISTS - OPE SERIES

"CMR" VERSION



"CRO" VERSION



# LOW-HEADROOM HOISTS - OPE SERIES

| CODE                  | CAPACITY |         | REEVING | ROPE Ø | HOOK DIN 15401 | HOL  | LIFTING SPEED | MOTOR POWER | CT POWER | STATIC REACTIONS |      |      |      | WEIGHT<br>Kg |
|-----------------------|----------|---------|---------|--------|----------------|------|---------------|-------------|----------|------------------|------|------|------|--------------|
|                       | t        | M5 (2m) |         |        |                |      |               |             |          | R1               | R2   | R3   | R4   |              |
|                       |          | M6 (3m) |         |        |                |      |               |             |          |                  |      |      |      |              |
| OPE 308 2T 10 N - CRO | 1.6      | 1       | 2/1     | 7      | 1              | 8.8  | 8/2           | 3           | 0.37     | 6.5              | 6.8  | 2.9  | 3.0  | 310          |
| OPE 308 2T 14 N - CMR | 1.6      | 1       | 2/1     | 7      | 1              | 12.8 | 8/2           | 3           | 2 x 0.18 | 7.3              | 7.3  | 2.5  | 2.5  | 340          |
| OPE 312 2T 10 N - CRO | 2.5      | 1.6     | 2/1     | 10     | 1.6            | 9.2  | 8/2           | 4           | 0.37     | 6.3              | 9.7  | 3.2  | 4.7  | 380          |
| OPE 312 2T 14 N - CMR | 2.5      | 1.6     | 2/1     | 10     | 1.6            | 13.2 | 8/2           | 4           | 2 x 0.18 | 9.0              | 9.0  | 3.5  | 3.5  | 470          |
| OPE 308 4T 7 N - CRO  | 3.2      | 2.5     | 4/1     | 7      | 1.6            | 6.4  | 4/1           | 3           | 0.37     | 11.0             | 11.4 | 6.6  | 6.8  | 360          |
| OPE 308 4T 10 N - CRO | 3.2      | 2.5     | 4/1     | 7      | 1.6            | 9.4  | 4/1           | 3           | 0.37     | 12.6             | 13.0 | 5.2  | 5.3  | 390          |
| OPE 308 4T 13 N - CMR | 3.2      | 2.5     | 4/1     | 7      | 1.6            | 12.4 | 4/1           | 3           | 2 x 0.18 | 15.1             | 15.1 | 2.6  | 2.6  | 480          |
| OPE 316 2T 10 N - CRO | 3.2      | 2.5     | 2/1     | 10     | 1.6            | 9.2  | 8/2           | 5           | 0.37     | 9.6              | 15.1 | 4.7  | 6.9  | 400          |
| OPE 316 2T 14 N - CMR | 3.2      | 2.5     | 2/1     | 10     | 1.6            | 13.2 | 8/2           | 5           | 2 x 0.18 | 12.7             | 12.7 | 6.1  | 6.1  | 520          |
| OPE 312 4T 7 N - CRO  | 5        | 4       | 4/1     | 10     | 2.5            | 6.6  | 4/1           | 4           | 0.37     | 16.1             | 17.1 | 10.4 | 11.0 | 440          |
| OPE 312 4T 10 N - CRO | 5        | 4       | 4/1     | 10     | 2.5            | 9.6  | 4/1           | 4           | 0.37     | 18.7             | 19.8 | 8.1  | 8.5  | 490          |
| OPE 312 4T 13 N - CMR | 5        | 4       | 4/1     | 10     | 2.5            | 12.6 | 4/1           | 4           | 2 x 0.24 | 22.9             | 22.9 | 5.3  | 5.3  | 590          |
| OPE 525 2T 10 N - CMR | 5        | 4       | 2/1     | 12     | 2.5            | 9.6  | 8/2           | 8           | 2 x 0.24 | 19.1             | 19.1 | 9.2  | 9.2  | 610          |
| OPE 525 2T 14 N - CMR | 5        | 4       | 2/1     | 12     | 2.5            | 13.6 | 8/2           | 8           | 2 x 0.24 | 21.0             | 21.0 | 7.6  | 7.6  | 660          |
| OPE 316 4T 7 N - CRO  | 6.3      | 5       | 4/1     | 10     | 4              | 6.6  | 4/1           | 5           | 0.75     | 20.1             | 21.3 | 13.0 | 13.7 | 480          |
| OPE 316 4T 10 N - CRO | 6.3      | 5       | 4/1     | 10     | 4              | 9.6  | 4/1           | 5           | 0.75     | 23.3             | 24.7 | 9.9  | 10.5 | 520          |
| OPE 316 4T 13 N - CMR | 6.3      | 5       | 4/1     | 10     | 4              | 12.6 | 4/1           | 5           | 2 x 0.24 | 28.6             | 28.6 | 6.5  | 6.5  | 660          |
| OPE 525 4T 7 N - CMR  | 10       | 8       | 4/1     | 12     | 4              | 6.8  | 4/1           | 8           | 2 x 0.30 | 38.3             | 38.3 | 15.5 | 15.5 | 660          |
| OPE 525 4T 10 N - CMR | 10       | 8       | 4/1     | 12     | 4              | 9.8  | 4/1           | 8           | 2 x 0.30 | 42.1             | 42.1 | 12.2 | 12.2 | 750          |
| OPE 525 4T 13 N - CMR | 10       | 8       | 4/1     | 12     | 4              | 12.8 | 4/1           | 8           | 2 x 0.30 | 44.4             | 44.4 | 10.3 | 10.3 | 840          |

| CODE                  | DIMENSIONS |     |      |     |     |     |     |     |     |         |     |    |     |     |     |     |     |    |      |     |     |     |    |    |
|-----------------------|------------|-----|------|-----|-----|-----|-----|-----|-----|---------|-----|----|-----|-----|-----|-----|-----|----|------|-----|-----|-----|----|----|
|                       | mm         |     |      |     |     |     |     |     |     |         |     |    |     |     |     |     |     |    |      |     |     |     |    |    |
|                       | a          | b   | C(*) | d   | e   | f   | g   | h   | i   | L(**)   | m   | n  | o1  | o   | p   | q   | r   | r1 | s    | t   | u   | v   | y  | x  |
| OPE 308 2T 10 N - CRO | 260        | 175 | 705  | 276 | 193 | —   | 425 | 515 | —   | —       | 125 | 66 | 65  | 85  | 395 | 91  | 61  | 0  | —    | 193 | 445 | 220 | —  |    |
| OPE 308 2T 14 N - CMR | 265        | 45  | 750  | 140 | 340 | 310 | 420 | 455 | 40  | 430÷345 | 125 | 61 | 100 | 100 | 520 | 149 | 65  | 0  | 720  | 200 | 445 | 220 | 40 | 20 |
| OPE 312 2T 10 N - CRO | 260        | 175 | 705  | 276 | 193 | —   | 425 | 515 | —   | —       | 125 | 61 | 65  | 85  | 440 | 90  | 77  | 0  | —    | 245 | 450 | 260 | —  | —  |
| OPE 312 2T 14 N - CMR | 240        | 70  | 820  | 140 | 370 | 310 | 425 | 470 | 80  | 465÷38  | 125 | 82 | 100 | 100 | 570 | 164 | 68  | 0  | 700  | 246 | 450 | 220 | 40 | 20 |
| OPE 308 4T 7 N - CRO  | 260        | 175 | 705  | 276 | 193 | —   | 425 | 515 | —   | —       | 125 | 66 | 65  | 85  | 520 | 132 | -25 | 0  | —    | 200 | 445 | 220 | —  | —  |
| OPE 308 4T 10 N - CRO | 260        | 175 | 705  | 276 | 193 | —   | 425 | 515 | —   | —       | 125 | 66 | 65  | 85  | 700 | 222 | 69  | 0  | —    | 200 | 445 | 220 | —  | —  |
| OPE 308 4T 13 N - CMR | 240        | 70  | 700  | 140 | 370 | 310 | 420 | 475 | 40  | 520÷435 | 125 | 82 | 100 | 100 | 440 | 99  | 68  | 0  | 700  | 246 | 445 | 220 | 40 | 20 |
| OPE 316 2T 10 N - CRO | 260        | 175 | 705  | 276 | 193 | —   | 425 | 515 | —   | —       | 125 | 61 | 65  | 85  | 440 | 90  | 77  | 0  | —    | 245 | 480 | 260 | —  | —  |
| OPE 316 2T 14 N - CMR | 240        | 70  | 820  | 140 | 370 | 310 | 425 | 470 | 80  | 465÷38  | 125 | 82 | 82  | 82  | 570 | 164 | 68  | 0  | 700  | 246 | 480 | 260 | 40 | 20 |
| OPE 312 4T 7 N - CRO  | 260        | 175 | 705  | 276 | 193 | —   | 425 | 515 | —   | —       | 125 | 61 | 65  | 85  | 570 | 137 | -19 | 0  | —    | 245 | 450 | 220 | —  | —  |
| OPE 312 4T 10 N - CRO | 260        | 175 | 705  | 276 | 193 | —   | 425 | 515 | —   | —       | 125 | 61 | 65  | 85  | 775 | 240 | -72 | 0  | —    | 245 | 450 | 220 | —  | —  |
| OPE 312 4T 13 N - CMR | 262        | 47  | 770  | 175 | 345 | 310 | 525 | 480 | 80  | 490÷405 | 125 | 60 | 120 | 120 | 975 | 225 | -10 | 0  | 1100 | 246 | 450 | 220 | 45 | 22 |
| OPE 525 2T 10 N - CMR | 285        | 70  | 925  | 146 | 360 | 310 | 485 | 525 | 100 | 490÷405 | 125 | 77 | 95  | 95  | 455 | 85  | 82  | 0  | 700  | 266 | 490 | 260 | 40 | 20 |
| OPE 525 2T 14 N - CMR | 285        | 70  | 925  | 146 | 360 | 310 | 485 | 525 | 100 | 490÷405 | 125 | 77 | 95  | 95  | 590 | 152 | 82  | 0  | 700  | 266 | 490 | 260 | 40 | 20 |
| OPE 316 4T 7 N - CRO  | 260        | 175 | 705  | 276 | 193 | —   | 425 | 515 | —   | —       | 125 | 61 | 65  | 85  | 570 | 137 | -19 | 0  | —    | 249 | 480 | 260 | —  | —  |
| OPE 316 4T 10 N - CRO | 260        | 175 | 705  | 276 | 193 | —   | 425 | 515 | —   | —       | 125 | 61 | 65  | 85  | 775 | 240 | -72 | 0  | —    | 249 | 480 | 260 | —  | —  |
| OPE 316 4T 13 N - CMR | 262        | 47  | 770  | 175 | 345 | 310 | 525 | 480 | 80  | 490÷405 | 155 | 60 | 120 | 120 | 975 | 225 | -10 | 0  | 1100 | 246 | 480 | 260 | 45 | 22 |
| OPE 525 4T 7 N - CMR  | 305        | 50  | 820  | 175 | 335 | 310 | 535 | 547 | 100 | 575÷49  | 155 | 58 | 120 | 120 | 590 | 60  | 60  | 0  | 700  | 266 | 490 | 260 | 45 | 22 |
| OPE 525 4T 10 N - CMR | 305        | 50  | 820  | 175 | 335 | 310 | 535 | 547 | 100 | 575÷49  | 155 | 58 | 120 | 120 | 795 | 165 | 5   | 0  | 900  | 266 | 490 | 260 | 45 | 22 |
| OPE 525 4T 13 N - CMR | 305        | 50  | 820  | 175 | 335 | 310 | 535 | 547 | 100 | 575÷49  | 155 | 58 | 120 | 120 | 995 | 265 | -45 | 0  | 1100 | 266 | 490 | 260 | 45 | 22 |

Beam flange width:

► min 250 / max 450 for hoists size 308, trolley type CRO

► min 250 / max 500 for hoists size 312 and 316, trolley type CRO

► min 130 / max 500 for all hoists with trolley type CMR

(\*) "C" refers to max beam width of 300 mm. For wider beams "C" increases by 12 mm every 10 mm of extra width.

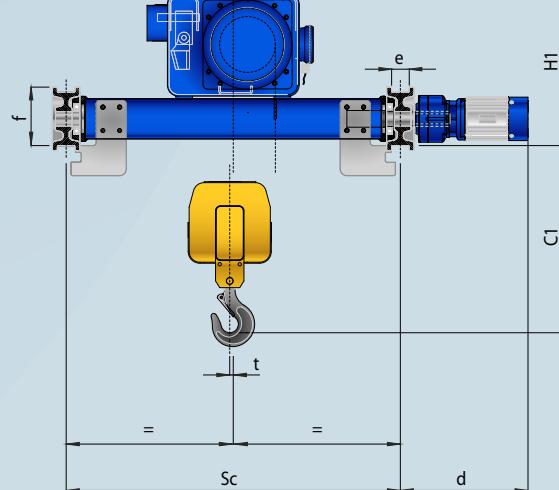
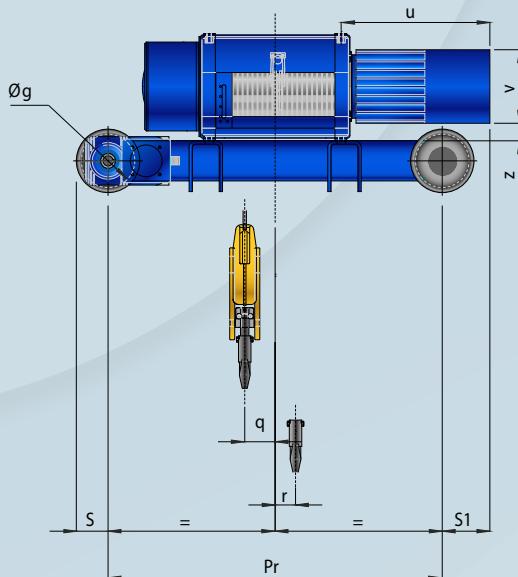
(\*\*) "L" refers to a beam width of 300 mm. For different widths, "L" increases or decreases by half of the width difference.

► All motors are for inverter use. Dual speed available upon request.

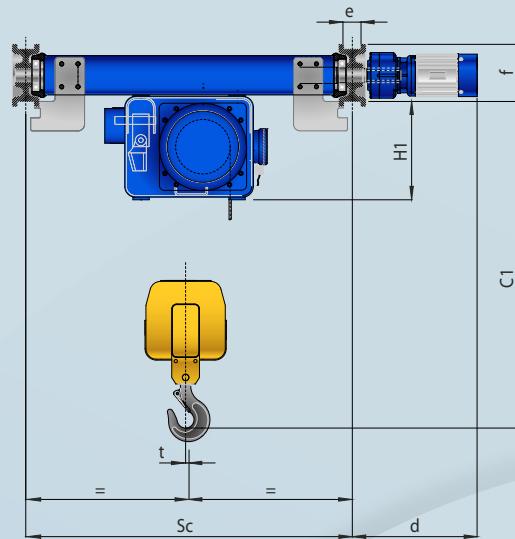
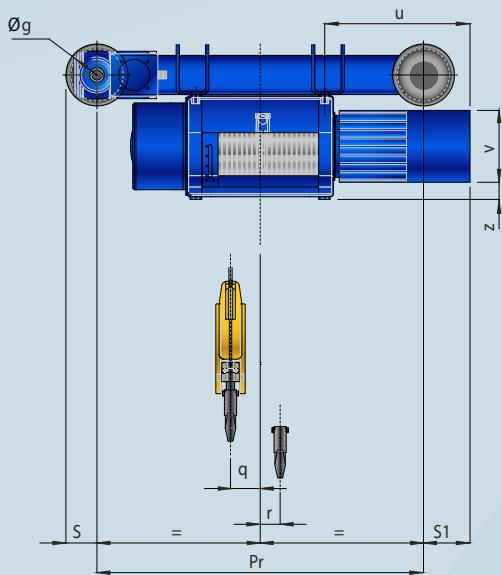
► Standard CT speed for all hoists is 20/5 m/min.

# CRAB UNITS - OPE SERIES

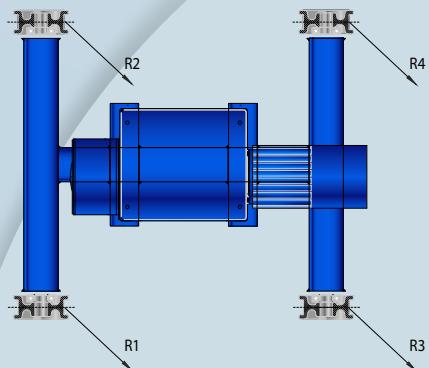
*FOOT-MOUNTED HOIST*



*UNDERSLUNG HOIST*



*STATIC REACTIONS*

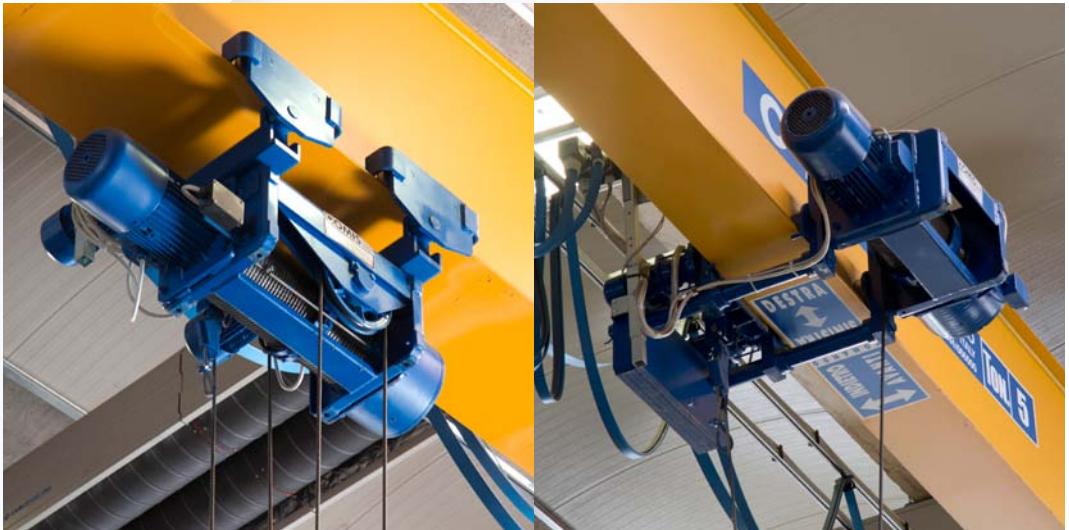


# CRAB UNITS - OPE SERIES

| CODE            | CAPACITY |         | REEV-<br>ING | ROPE<br>Ø | HOOK<br>DIN 15401 | HOL  | LIFTING<br>SPEED | MOTOR<br>POWER | CT<br>POWER | STATIC REACTIONS |      |      |      | WEIGHT<br>Kg |  |  |
|-----------------|----------|---------|--------------|-----------|-------------------|------|------------------|----------------|-------------|------------------|------|------|------|--------------|--|--|
|                 | t        |         |              | mm        | nr.               | m    | m/min            | kW             | kW          | kN               |      |      |      |              |  |  |
|                 | M5 (2m)  | M6 (3m) |              |           |                   |      |                  |                |             | R1               | R2   | R3   | R4   |              |  |  |
| OPE3082T10N-CBA | 1.6      | 1       | 2/1          | 7         | 1                 | 8.8  | 8/2              | 3              | 0.37        | 6.0              | 3.8  | 6.0  | 3.8  | 325          |  |  |
| OPE3082T14N-CBA | 1.6      | 1       | 2/1          | 7         | 1                 | 12.8 | 8/2              | 3              | 0.37        | 6.2              | 3.7  | 6.2  | 3.7  | 333          |  |  |
| OPE3122T10N-CBA | 2.5      | 1.6     | 2/1          | 10        | 1.6               | 9.2  | 8/2              | 4              | 0.37        | 7.4              | 4.8  | 7.4  | 4.8  | 385          |  |  |
| OPE3122T14N-CBA | 2.5      | 1.6     | 2/1          | 10        | 1.6               | 13.2 | 8/2              | 4              | 0.37        | 7.7              | 4.6  | 7.7  | 4.6  | 403          |  |  |
| OPE3084T7N-CBA  | 3.2      | 2.5     | 4/1          | 7         | 1.6               | 6.4  | 4/1              | 3              | 0.37        | 10.0             | 8.1  | 10.0 | 8.1  | 353          |  |  |
| OPE3084T10N-CBA | 3.2      | 2.5     | 4/1          | 7         | 1.6               | 9.4  | 4/1              | 3              | 0.37        | 12.0             | 6.2  | 12.0 | 6.2  | 380          |  |  |
| OPE3084T13N-CBA | 3.2      | 2.5     | 4/1          | 7         | 1.6               | 12.4 | 4/1              | 3              | 0.37        | 13.1             | 5.3  | 13.1 | 5.3  | 400          |  |  |
| OPE3162T10N-CBA | 3.2      | 2.5     | 2/1          | 10        | 1.6               | 9.2  | 8/2              | 5              | 0.37        | 10.6             | 7.7  | 10.6 | 7.7  | 410          |  |  |
| OPE3162T14N-CBA | 3.2      | 2.5     | 2/1          | 10        | 1.6               | 13.2 | 8/2              | 5              | 0.37        | 11.7             | 6.7  | 11.7 | 6.7  | 433          |  |  |
| OPE3124T7N-CBA  | 5        | 4       | 4/1          | 10        | 2.5               | 6.6  | 4/1              | 4              | 0.37        | 17.2             | 10.3 | 17.2 | 10.3 | 423          |  |  |
| OPE3124T10N-CBA | 5        | 4       | 4/1          | 10        | 2.5               | 9.6  | 4/1              | 4              | 0.37        | 18.8             | 8.8  | 18.8 | 8.8  | 457          |  |  |
| OPE3124T13N-CBA | 5        | 4       | 4/1          | 10        | 2.5               | 12.6 | 4/1              | 4              | 0.37        | 20.2             | 7.6  | 20.2 | 7.6  | 490          |  |  |
| OPE5252T10N-CBA | 5        | 4       | 2/1          | 12        | 2.5               | 9.6  | 8/2              | 8              | 0.37        | 16.1             | 11.6 | 16.9 | 11.6 | 493          |  |  |
| OPE5252T14N-CBA | 5        | 4       | 2/1          | 12        | 2.5               | 13.6 | 8/2              | 8              | 0.37        | 18.0             | 10.1 | 18.0 | 10.1 | 555          |  |  |
| OPE3164T7N-CBA  | 6.3      | 5       | 4/1          | 10        | 4                 | 6.6  | 4/1              | 5              | 0.37        | 21.6             | 12.6 | 21.6 | 12.6 | 453          |  |  |
| OPE3164T10N-CBA | 6.3      | 5       | 4/1          | 10        | 4                 | 9.6  | 4/1              | 5              | 0.37        | 23.5             | 10.9 | 23.5 | 10.9 | 487          |  |  |
| OPE3164T13N-CBA | 6.3      | 5       | 4/1          | 10        | 4                 | 12.6 | 4/1              | 5              | 0.37        | 25.2             | 9.3  | 25.2 | 9.3  | 530          |  |  |
| OPE5254T7N-CBA  | 10       | 8       | 4/1          | 12        | 4                 | 6.8  | 4/1              | 8              | 1.1         | 33.5             | 20.1 | 33.5 | 20.1 | 613          |  |  |
| OPE5254T10N-CBA | 10       | 8       | 4/1          | 12        | 4                 | 9.8  | 4/1              | 8              | 1.1         | 36.7             | 17.1 | 36.7 | 17.1 | 658          |  |  |
| OPE5254T13N-CBA | 10       | 8       | 4/1          | 12        | 4                 | 12.8 | 4/1              | 8              | 1.1         | 39.2             | 14.9 | 39.2 | 14.9 | 720          |  |  |

| CODE            | DIMENSIONS |         |         |     |    |     |     |         |         |      |     |     |    |     |    |     |     |    |  |
|-----------------|------------|---------|---------|-----|----|-----|-----|---------|---------|------|-----|-----|----|-----|----|-----|-----|----|--|
|                 | mm         |         |         |     |    |     |     |         |         |      |     |     |    |     |    |     |     |    |  |
|                 | Sc         | C1(CBA) | C1(CBS) | d   | e  | f   | Ø g | H1(CBA) | H1(CBS) | Pr   | q   | r   | s  | s1  | t  | u   | v   | z  |  |
| OPE3082T10N-CBA | 1000       | 560     | 1005    | 382 | 56 | 175 | 160 | 465     | 305     | 1000 | 91  | 61  | 95 | 142 | 10 | 445 | 220 | 50 |  |
| OPE3082T14N-CBA | 1000       | 560     | 1005    | 382 | 56 | 175 | 160 | 465     | 305     | 1000 | 154 | 61  | 95 | 205 | 10 | 445 | 220 | 50 |  |
| OPE3122T10N-CBA | 1000       | 630     | 1075    | 382 | 56 | 175 | 160 | 465     | 305     | 1000 | 90  | 77  | 95 | 170 | 2  | 445 | 220 | 50 |  |
| OPE3122T14N-CBA | 1000       | 630     | 1075    | 382 | 56 | 175 | 160 | 465     | 305     | 1000 | 155 | 77  | 95 | 235 | 2  | 450 | 220 | 50 |  |
| OPE3084T7N-CBA  | 1000       | 495     | 940     | 382 | 56 | 175 | 160 | 465     | 305     | 1000 | 132 | 25  | 95 | 205 | 16 | 445 | 220 | 50 |  |
| OPE3084T10N-CBA | 1000       | 495     | 940     | 382 | 56 | 175 | 160 | 465     | 305     | 1200 | 222 | 69  | 95 | 195 | 16 | 445 | 220 | 50 |  |
| OPE3084T13N-CBA | 1000       | 495     | 940     | 382 | 56 | 175 | 160 | 465     | 305     | 1300 | 314 | 115 | 95 | 237 | 16 | 445 | 220 | 50 |  |
| OPE3162T10N-CBA | 1000       | 630     | 1075    | 382 | 56 | 175 | 160 | 465     | 305     | 1000 | 90  | 77  | 95 | 200 | 2  | 480 | 260 | 30 |  |
| OPE3162T14N-CBA | 1000       | 630     | 1075    | 382 | 56 | 175 | 160 | 465     | 305     | 1000 | 155 | 77  | 95 | 265 | 2  | 480 | 260 | 30 |  |
| OPE3124T7N-CBA  | 1000       | 560     | 1005    | 382 | 56 | 175 | 160 | 465     | 305     | 1000 | 137 | 19  | 95 | 235 | 21 | 450 | 220 | 50 |  |
| OPE3124T10N-CBA | 1000       | 560     | 1005    | 382 | 56 | 175 | 160 | 465     | 305     | 1200 | 240 | 72  | 95 | 237 | 21 | 450 | 220 | 50 |  |
| OPE3124T13N-CBA | 1000       | 560     | 1005    | 382 | 56 | 175 | 160 | 465     | 305     | 1360 | 340 | 122 | 95 | 257 | 21 | 450 | 220 | 50 |  |
| OPE5252T10N-CBA | 1000       | 720     | 1220    | 382 | 56 | 175 | 160 | 518     | 360     | 1000 | 90  | 66  | 95 | 217 | 3  | 480 | 260 | 60 |  |
| OPE5252T14N-CBA | 1000       | 720     | 1220    | 382 | 56 | 175 | 160 | 518     | 360     | 1000 | 157 | 78  | 95 | 285 | 22 | 490 | 260 | 60 |  |
| OPE3164T7N-CBA  | 1000       | 575     | 1020    | 382 | 56 | 175 | 160 | 461     | 305     | 1000 | 137 | 19  | 95 | 265 | 21 | 480 | 260 | 30 |  |
| OPE3164T10N-CBA | 1000       | 575     | 1020    | 382 | 56 | 175 | 160 | 461     | 305     | 1200 | 240 | 72  | 95 | 267 | 21 | 480 | 260 | 30 |  |
| OPE3164T13N-CBA | 1000       | 575     | 1020    | 382 | 56 | 175 | 160 | 461     | 305     | 1360 | 340 | 122 | 95 | 287 | 21 | 480 | 260 | 30 |  |
| OPE5254T7N-CBA  | 1000       | 630     | 1130    | 472 | 56 | 175 | 160 | 518     | 360     | 1000 | 133 | 15  | 95 | 285 | 23 | 490 | 260 | 60 |  |
| OPE5254T10N-CBA | 1000       | 630     | 1130    | 472 | 56 | 175 | 160 | 518     | 360     | 1380 | 336 | 117 | 95 | 297 | 23 | 490 | 260 | 60 |  |
| OPE5254T13N-CBA | 1000       | 630     | 1130    | 472 | 56 | 175 | 160 | 518     | 360     | 1380 | 336 | 117 | 95 | 297 | 23 | 490 | 260 | 60 |  |

- All crabs units can be supplied both in "CBA" and in "CBS" versions.
- All motors are for inverter use. Dual speed available upon request.
- Standard CT speed for all hoists is 20/5 m/min.



# OPEN BARREL HOISTS

The **thirty-year experience** in the material handling field, have allowed OMIS to develop a new range of products where robustness, style, easy maintenance and cost-effectiveness are put together.

OMIS standard winches cover a wide range of applications, for SWL up to 35 ton and 2-4-6 falls of rope configurations. Creep speeds are obtained through a planetary gearing incorporated in the main gearbox.

The gearing axle (sun) is connected to an external drive unit in which the motor is of self-braking type. All winch components are of OMIS make and they are accurately controlled during the production.

At the end of the assembling, each winch is appropriately tested in order to verify its performances.



**Each winch** consists of a main gearbox, featuring either two or three reduction stages, connected to a three-phase asynchronous motor of short-circuited type.

The slow shaft is connected to a single-groove drum accurately machined.

The appropriate winding of the rope is ensured by a guide-ring.

**Braking** is ensured by an electro-hydraulic clasp brake, in which the blocks operate on a brake-drum connected to the fast shaft of the gearbox.

The vertical stroke is limited by a rotary limit switch fitted to the drum axle. All winches are equipped with an overload limiter according to the Machinery Directive.

**The cross travel** is performed through a drive unit connected directly to the wheel shaft.

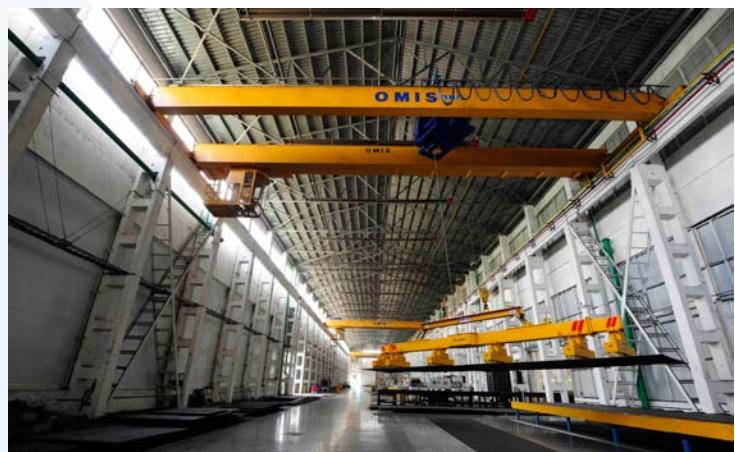
All motors are of self-braking short-circuited type and feature protection IP54 and insulation class F.

The choice of a winch is mainly based on the SWL with regard to the utilisation class according to FEM specs 1.001, ed. 1987. As the hereby table shows, different lifting speed are offered for each load capacity. All winches refer to short-circuited motors. Slip-ring motors can be furnished upon request. Overall dimensions refer to winches with no auxiliary motor for creep speed. Twenty-thirty cm must be added otherwise.

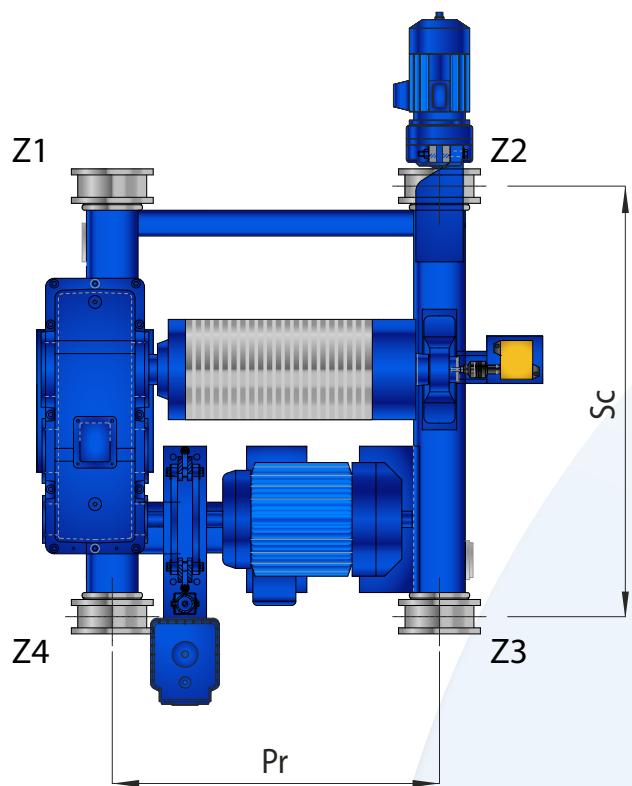
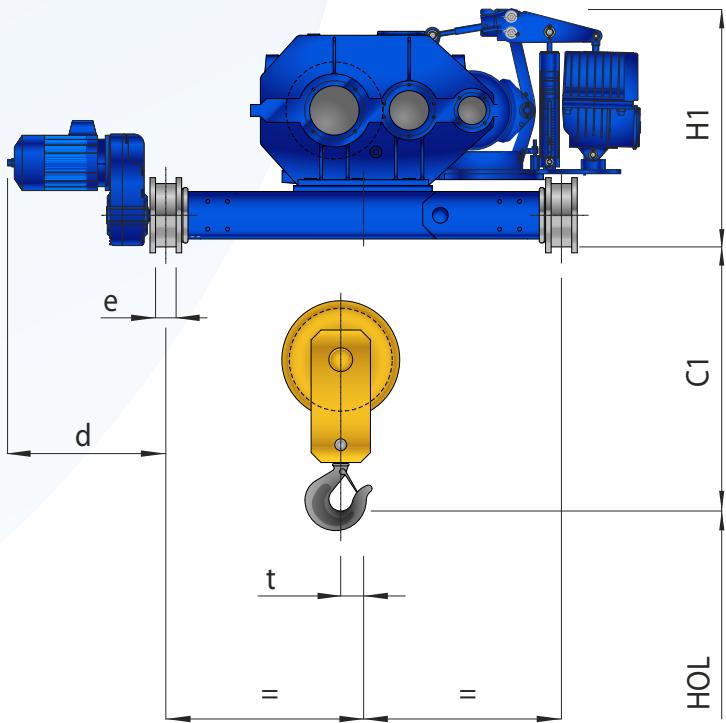
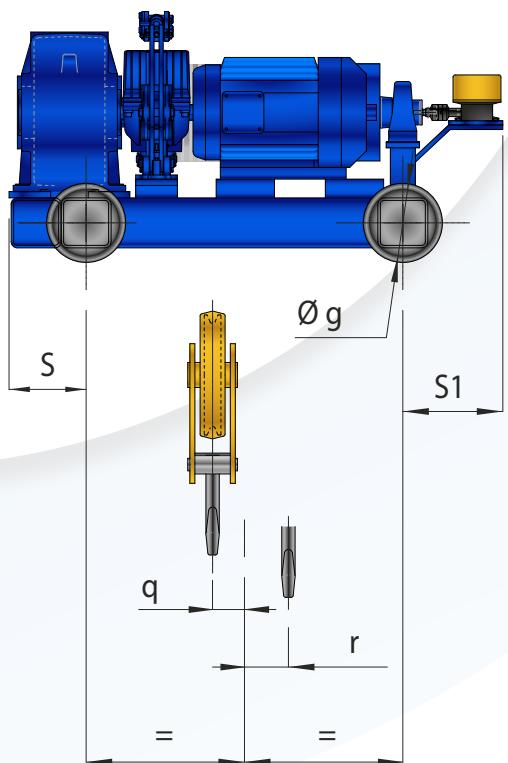
In addition to standard solutions, OMIS can offer special winches designed to meet individual needs.

Double-groove drum winches, two-drum winches and rotating winches come within OMIS normal production.

High hook path and SWL winches are included in OMIS production too.



# OPEN BARREL HOISTS - SINGLE REEVED 2/1



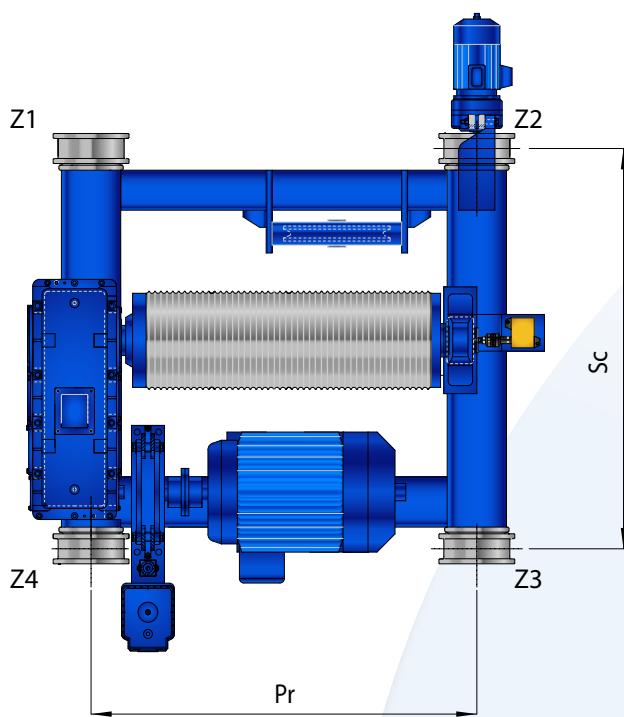
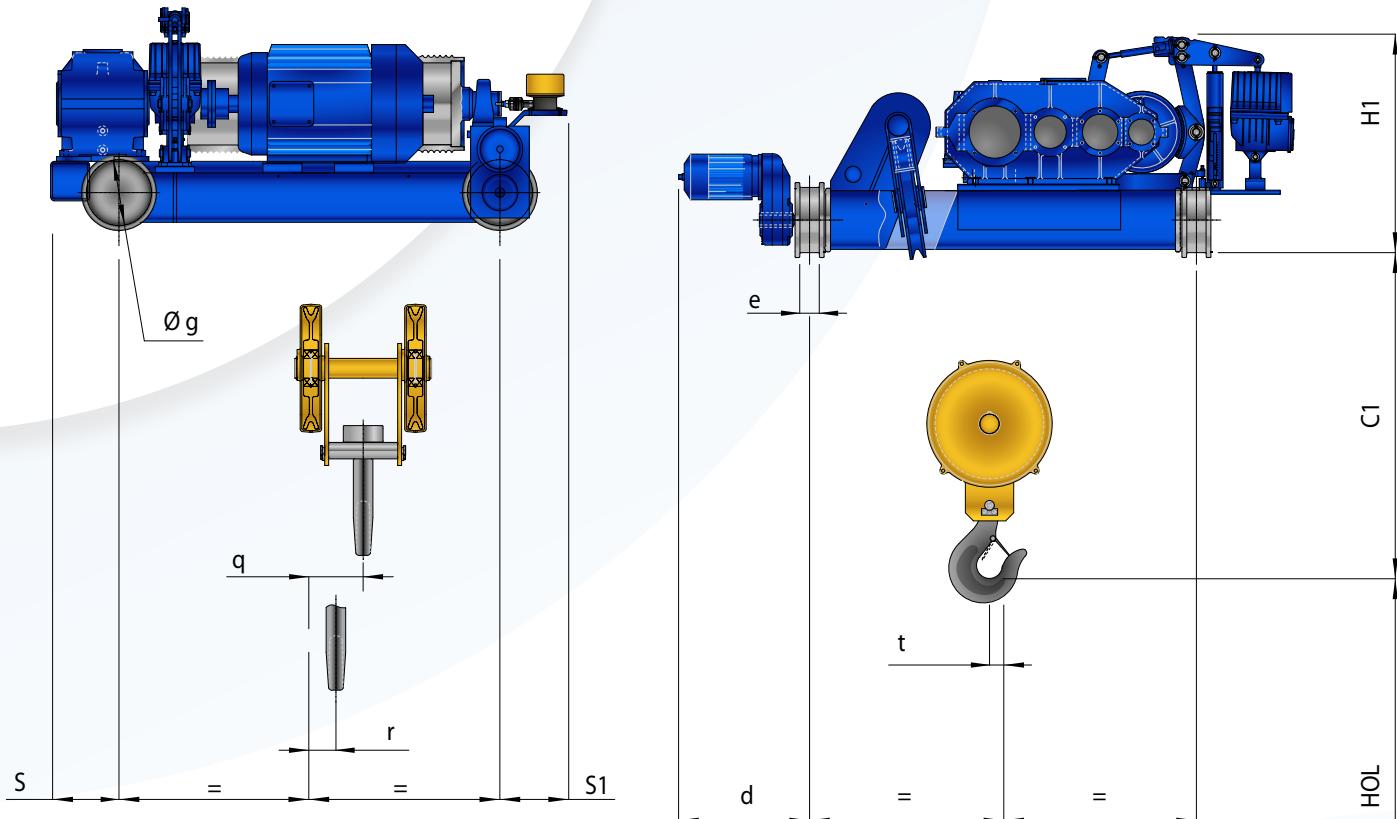
# OPEN BARREL HOISTS - SINGLE REEVED 2/1

| CODE           | CAPACITY |     | REEVING | ROPE Ø | HOOK DIN 15401 | HOL | LIFTING SPEED | MOTOR POWER | CT POWER | STATIC REACTIONS |      |      |      | WEIGHT<br>Kg |  |  |  |  |  |  |  |
|----------------|----------|-----|---------|--------|----------------|-----|---------------|-------------|----------|------------------|------|------|------|--------------|--|--|--|--|--|--|--|
|                | t        |     |         |        |                |     |               |             |          | Z1               | Z2   | Z3   | Z4   |              |  |  |  |  |  |  |  |
|                | M5       | M6  |         |        |                |     |               |             |          |                  |      |      |      |              |  |  |  |  |  |  |  |
| A260_B05_05_01 | 5        | 3.2 | 2/1     | 12     | 4              | 10  | 5/1           | 5.5         | 0.37     | 10.6             | 17.7 | 17.7 | 10.6 | 610          |  |  |  |  |  |  |  |
| A260_B08_05_01 | 5        | 3.2 | 2/1     | 12     | 4              | 10  | 8/1.6         | 7.5         | 0.37     | 10.6             | 17.7 | 17.7 | 10.6 | 610          |  |  |  |  |  |  |  |
| A260_B10_05_01 | 5        | 3.2 | 2/1     | 12     | 4              | 10  | 10/2          | 11          | 0.37     | 10.6             | 17.7 | 17.7 | 10.6 | 610          |  |  |  |  |  |  |  |
| A260_B12_05_01 | 5        | 3.2 | 2/1     | 12     | 4              | 10  | 12/2.4        | 11          | 0.37     | 10.6             | 17.7 | 17.7 | 10.6 | 610          |  |  |  |  |  |  |  |
| A260_B15_05_01 | —        | 3.2 | 2/1     | 12     | 4              | 10  | 15/3          | 11          | 0.37     | 7.4              | 11.9 | 11.9 | 7.4  | 610          |  |  |  |  |  |  |  |
| A260_C05_05_02 | 5        | 3.2 | 2/1     | 12     | 4              | 15  | 5/1           | 5.5         | 0.37     | 18.3             | 10.5 | 10.5 | 18.3 | 664          |  |  |  |  |  |  |  |
| A260_C08_05_02 | 5        | 3.2 | 2/1     | 12     | 4              | 15  | 8/1.6         | 7.5         | 0.37     | 18.3             | 10.5 | 10.5 | 18.3 | 664          |  |  |  |  |  |  |  |
| A260_C10_05_02 | 5        | 3.2 | 2/1     | 12     | 4              | 15  | 10/2          | 11          | 0.37     | 18.3             | 10.5 | 10.5 | 18.3 | 664          |  |  |  |  |  |  |  |
| A260_C12_05_02 | 5        | 3.2 | 2/1     | 12     | 4              | 15  | 12/2.4        | 11          | 0.37     | 18.3             | 10.5 | 10.5 | 18.3 | 664          |  |  |  |  |  |  |  |
| A260_C15_05_02 | —        | 3.2 | 2/1     | 12     | 4              | 15  | 15/3          | 11          | 0.37     | 12.4             | 7.4  | 7.4  | 12.4 | 664          |  |  |  |  |  |  |  |

| CODE           | DIMENSIONS |     |     |     |     |     |    |   |     |     |     |      |  |  |  |
|----------------|------------|-----|-----|-----|-----|-----|----|---|-----|-----|-----|------|--|--|--|
|                | mm         |     |     |     |     |     |    |   |     |     |     |      |  |  |  |
|                | S          | S1  | Øg  | q   | r   | d   | e  | t | H1  | C1  | Pr  | Sc   |  |  |  |
| A260_B05_05_01 | 185        | 240 | 160 | 77  | 106 | 400 | 56 | 0 | 600 | 670 | 760 | 1000 |  |  |  |
| A260_B08_05_01 | 185        | 240 | 160 | 77  | 106 | 400 | 56 | 0 | 600 | 670 | 760 | 1000 |  |  |  |
| A260_B10_05_01 | 185        | 240 | 160 | 77  | 106 | 400 | 56 | 0 | 600 | 670 | 760 | 1000 |  |  |  |
| A260_B12_05_01 | 185        | 240 | 160 | 77  | 106 | 400 | 56 | 0 | 600 | 670 | 760 | 1000 |  |  |  |
| A260_B15_05_01 | 185        | 240 | 160 | 77  | 106 | 400 | 56 | 0 | 600 | 670 | 760 | 1000 |  |  |  |
| A260_C05_05_02 | 185        | 240 | 160 | 147 | 102 | 400 | 56 | 0 | 600 | 670 | 940 | 1000 |  |  |  |
| A260_C08_05_02 | 185        | 240 | 160 | 147 | 102 | 400 | 56 | 0 | 600 | 670 | 940 | 1000 |  |  |  |
| A260_C10_05_02 | 185        | 240 | 160 | 147 | 102 | 400 | 56 | 0 | 600 | 670 | 940 | 1000 |  |  |  |
| A260_C12_05_02 | 185        | 240 | 160 | 147 | 102 | 400 | 56 | 0 | 600 | 670 | 940 | 1000 |  |  |  |
| A260_C15_05_02 | 185        | 240 | 160 | 147 | 102 | 400 | 56 | 0 | 600 | 670 | 940 | 1000 |  |  |  |

- Reactions refer to the max allowed capacity
- All motors are for inverter use. Dual speed available upon request.
- Standard CT speed for all hoists is 20/5 m/min.

# OPEN BARREL HOISTS - SINGLE REEVED 4/1



# OPEN BARREL HOISTS - SINGLE REEVED 4/1

| CODE          | CAPACITY |    | REEVING | ROPE Ø | HOOK DIN 15401 | HOL | LIFTING SPEED | MOTOR POWER | CT POWER | STATIC REACTIONS |       |       |      | WEIGHT<br>Kg |
|---------------|----------|----|---------|--------|----------------|-----|---------------|-------------|----------|------------------|-------|-------|------|--------------|
|               | t        | M5 |         |        |                |     |               |             |          | kN               |       |       |      |              |
|               | M6       |    |         |        |                |     |               |             |          | Z1               | Z2    | Z3    | Z4   |              |
| A260_B04_6D3  | 6.3      | 5  | 4/1     | 12     | 5              | 10  | 4/0.8         | 5.5         | 1.1      | 10.5             | 25.7  | 25.7  | 10.5 | 830          |
| A260_B06_6D3  | 6.3      | 5  | 4/1     | 12     | 5              | 10  | 6/1.2         | 9           | 1.1      | 10.5             | 25.7  | 25.7  | 10.5 | 830          |
| A260_B08_6D3  | 6.3      | 5  | 4/1     | 12     | 5              | 10  | 8/1.6         | 11          | 1.1      | 10.5             | 25.7  | 25.7  | 10.5 | 830          |
| A260_C04_6D3  | 6.3      | 5  | 4/1     | 12     | 5              | 15  | 4/0.8         | 5.5         | 1.1      | 29.7             | 12.9  | 11.0  | 24.5 | 1130         |
| A260_C06_6D3  | 6.3      | 5  | 4/1     | 12     | 5              | 15  | 6/1.2         | 9           | 1.1      | 29.7             | 12.9  | 11.0  | 24.5 | 1130         |
| A260_C08_6D3  | 6.3      | 5  | 4/1     | 12     | 5              | 15  | 8/1.6         | 11          | 1.1      | 29.7             | 12.9  | 11.0  | 24.5 | 1130         |
| A260_B04_10   | 10       | 8  | 4/1     | 12     | 6              | 10  | 4/0.8         | 9           | 1.1      | 15.3             | 39.4  | 39.4  | 15.3 | 830          |
| A260_B06_10   | 10       | 8  | 4/1     | 12     | 6              | 10  | 6/1.2         | 11          | 1.1      | 15.3             | 39.4  | 39.4  | 15.3 | 830          |
| A260_B08_10   | 10       | 8  | 4/1     | 12     | 6              | 10  | 8/1.6         | 15          | 1.1      | 15.3             | 39.4  | 39.4  | 15.3 | 830          |
| A260_C04_10   | 10       | 8  | 4/1     | 12     | 6              | 15  | 4/0.8         | 9           | 1.1      | 44.8             | 18.3  | 15.4  | 36.6 | 1130         |
| A260_C06_10   | 10       | 8  | 4/1     | 12     | 6              | 15  | 6/1.2         | 11          | 1.1      | 44.8             | 18.3  | 15.4  | 36.6 | 1130         |
| A260_C08_10   | 10       | 8  | 4/1     | 12     | 6              | 15  | 8/1.6         | 15          | 1.1      | 44.8             | 18.3  | 15.4  | 36.6 | 1130         |
| A270_B04_12D5 | 12.5     | 10 | 4/1     | 15     | 8              | 10  | 4/0.8         | 11          | 1.1      | 27.5             | 46.8  | 40.0  | 23.7 | 1200         |
| A270_B06_12D5 | 12.5     | 10 | 4/1     | 15     | 8              | 10  | 6/1.2         | 15          | 1.1      | 27.5             | 46.8  | 40.0  | 23.7 | 1200         |
| A270_B08_12D5 | 12.5     | 10 | 4/1     | 15     | 8              | 10  | 8/1.6         | 22          | 1.1      | 27.5             | 46.8  | 40.0  | 23.7 | 1200         |
| A270_C04_12D5 | 12.5     | 10 | 4/1     | 15     | 8              | 15  | 4/0.8         | 11          | 1.1      | 21.1             | 55.5  | 46.1  | 18.0 | 1770         |
| A270_C06_12D5 | 12.5     | 10 | 4/1     | 15     | 8              | 15  | 6/1.2         | 15          | 1.1      | 21.1             | 55.5  | 46.1  | 18.0 | 1770         |
| A270_C08_12D5 | 12.5     | 10 | 4/1     | 15     | 8              | 15  | 8/1.6         | 22          | 1.1      | 21.1             | 55.5  | 46.1  | 18.0 | 1770         |
| A270_B04_16   | —        | 16 | 4/1     | 15     | 12             | 10  | 4/0.8         | 15          | 1.1      | 34.3             | 58.9  | 50.3  | 29.5 | 1200         |
| A270_B06_16   | —        | 16 | 4/1     | 15     | 12             | 10  | 6/1.2         | 22          | 1.1      | 34.3             | 58.9  | 50.3  | 29.5 | 1200         |
| A280_B08_16   | —        | 16 | 4/1     | 20     | 10             | 10  | 8/1.6         | 30          | 1.1      | 36.6             | 56.7  | 57.4  | 37.0 | 2460         |
| A270_C04_16   | —        | 16 | 4/1     | 15     | 12             | 15  | 4/0.8         | 15          | 1.1      | 25.9             | 21.9  | 57.9  | 69.9 | 1770         |
| A270_C06_16   | —        | 16 | 4/1     | 15     | 12             | 15  | 6/1.2         | 22          | 1.1      | 25.9             | 21.9  | 57.9  | 69.9 | 1770         |
| A280_C08_16   | —        | 16 | 4/1     | 20     | 10             | 15  | 8/1.6         | 30          | 1.1      | 34.2             | 65.1  | 59.0  | 31.4 | 2630         |
| A270_B04_20   | 20       | —  | 4/1     | 15     | 12             | 10  | 4/0.8         | 18.5        | 1.1      | 40.6             | 69.8  | 65.4  | 38.1 | 1285         |
| A270_C04_20   | 20       | —  | 4/1     | 15     | 12             | 15  | 4/0.8         | 18.5        | 1.1      | 27.6             | 90.5  | 76.7  | 23.4 | 1580         |
| A280_B04_20   | —        | 20 | 4/1     | 20     | 10             | 10  | 4/0.8         | 18.5        | 1.1      | 44.0             | 69.2  | 70.0  | 44.5 | 2460         |
| A280_B06_20   | —        | 20 | 4/1     | 20     | 10             | 10  | 6/1.2         | 30          | 1.1      | 44.0             | 69.2  | 70.0  | 44.5 | 2460         |
| A280_B08_20   | —        | 20 | 4/1     | 20     | 10             | 10  | 8/1.6         | 37          | 1.1      | 44.0             | 69.2  | 70.0  | 44.5 | 2460         |
| A280_C04_20   | —        | 20 | 4/1     | 20     | 10             | 10  | 4/0.8         | 18.5        | 1.1      | 40.9             | 79.5  | 71.9  | 37.4 | 2630         |
| A280_C06_20   | —        | 20 | 4/1     | 20     | 10             | 10  | 6/1.2         | 30          | 1.1      | 40.9             | 79.5  | 71.9  | 37.4 | 2630         |
| A280_C08_20   | —        | 20 | 4/1     | 20     | 10             | 10  | 8/1.6         | 37          | 1.1      | 40.9             | 79.5  | 71.9  | 37.4 | 2630         |
| A280_B04_30   | 30       | 25 | 4/1     | 20     | 10             | 10  | 4/0.8         | 22          | 2.2      | 62.5             | 100.3 | 101.6 | 62.5 | 2460         |
| A280_B06_25   | —        | 25 | 4/1     | 20     | 10             | 10  | 6/1.2         | 30          | 2.2      | 53.2             | 84.7  | 85.8  | 53.9 | 2460         |
| A280_C04_30   | 30       | 25 | 4/1     | 20     | 10             | 15  | 4/0.8         | 22          | 2.2      | 57.6             | 115.5 | 104.2 | 52.4 | 2630         |
| A280_C06_25   | —        | 25 | 4/1     | 20     | 10             | 15  | 6/1.2         | 30          | 2.2      | 49.3             | 97.5  | 88.1  | 44.9 | 2630         |
| A280_B06_30   | 30       | —  | 4/1     | 20     | 10             | 10  | 6/1.2         | 37          | 2.2      | 62.5             | 100.3 | 101.6 | 62.5 | 2460         |
| A280_C06_30   | 30       | —  | 4/1     | 20     | 10             | 15  | 6/1.2         | 37          | 2.2      | 57.6             | 115.5 | 104.2 | 52.4 | 2630         |
| A280_B03_32   | 32       | —  | 4/1     | 20     | 10             | 9   | 3.5/0.7       | 22          | 2.2      | 66.7             | 107.0 | 108.4 | 66.7 | 2460         |
| A280_B04_32   | 32       | —  | 4/1     | 20     | 10             | 9   | 4.5/0.8       | 30          | 2.2      | 66.7             | 107.0 | 108.4 | 66.7 | 2460         |
| A280_B05_32   | 32       | —  | 4/1     | 20     | 10             | 9   | 5.5/1.1       | 30          | 2.2      | 66.7             | 107.0 | 108.4 | 66.7 | 2460         |

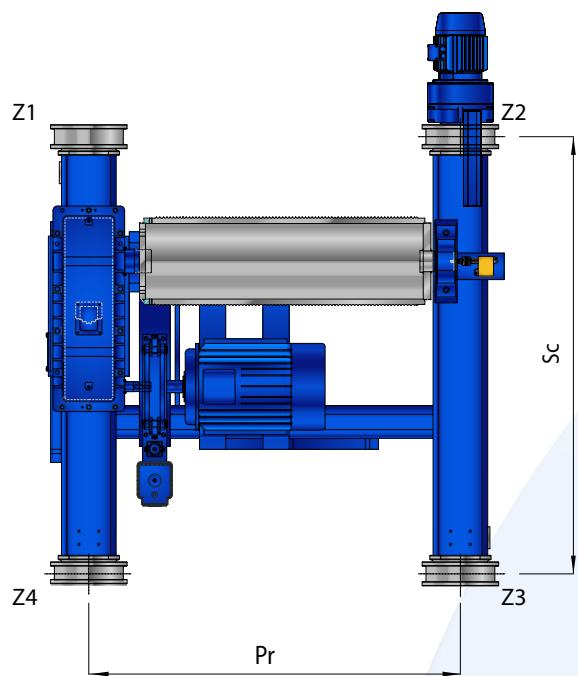
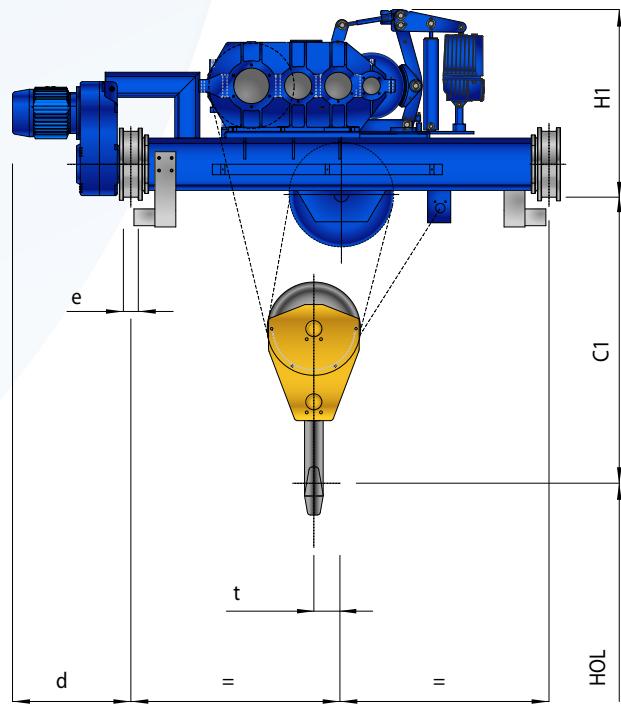
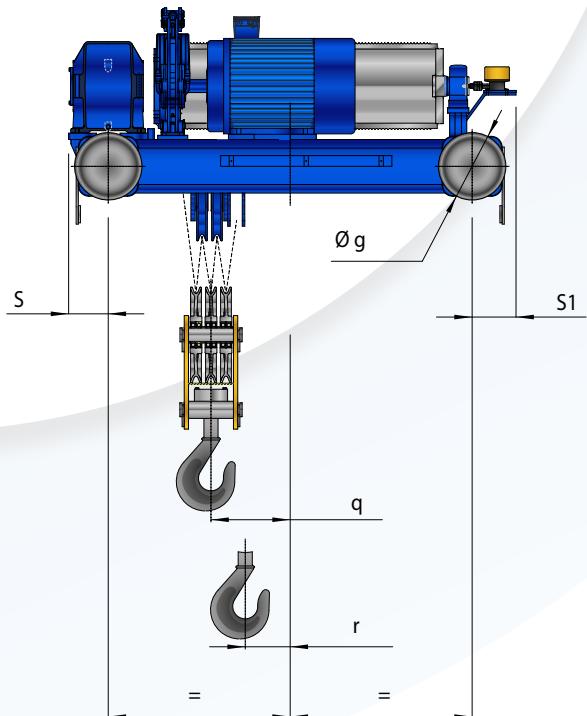
- Reactions refer to the max allowed capacity
- All motors are for inverter use. Dual speed available upon request.
- Standard CT speed for all hoists is 20/5 m/min.

# OPEN BARREL HOISTS - SINGLE REEVED 4/1

| CODE          | DIMENSIONS |     |     |     |     |     |    |     |     |      |      |      |  |
|---------------|------------|-----|-----|-----|-----|-----|----|-----|-----|------|------|------|--|
|               | mm         |     |     |     |     |     |    |     |     |      |      |      |  |
|               | S          | S1  | Øg  | q   | r   | d   | e  | t   | H1  | C1   | Pr   | Sc   |  |
| A260_B04_6D3  | 185        | 220 | 160 | 265 | 85  | 490 | 56 | 0   | 600 | 670  | 1110 | 1000 |  |
| A260_B06_6D3  | 185        | 220 | 160 | 265 | 85  | 490 | 56 | 0   | 600 | 670  | 1110 | 1000 |  |
| A260_B08_6D3  | 185        | 220 | 160 | 265 | 85  | 490 | 56 | 0   | 600 | 670  | 1110 | 1000 |  |
| A260_C04_6D3  | 145        | 220 | 200 | 365 | 90  | 505 | 56 | 0   | 620 | 900  | 1545 | 1000 |  |
| A260_C06_6D3  | 145        | 220 | 200 | 365 | 90  | 505 | 56 | 0   | 620 | 900  | 1545 | 1000 |  |
| A260_C08_6D3  | 145        | 220 | 200 | 365 | 90  | 505 | 56 | 0   | 620 | 900  | 1545 | 1000 |  |
| A260_B04_10   | 185        | 220 | 160 | 265 | 85  | 490 | 56 | 0   | 600 | 670  | 1110 | 1000 |  |
| A260_B06_10   | 185        | 220 | 160 | 265 | 85  | 490 | 56 | 0   | 600 | 670  | 1110 | 1000 |  |
| A260_B08_10   | 185        | 220 | 160 | 265 | 85  | 490 | 56 | 0   | 600 | 670  | 1110 | 1000 |  |
| A260_C04_10   | 145        | 220 | 200 | 365 | 90  | 505 | 56 | -55 | 620 | 900  | 1545 | 1000 |  |
| A260_C06_10   | 145        | 220 | 200 | 365 | 90  | 505 | 56 | -55 | 620 | 900  | 1545 | 1000 |  |
| A260_C08_10   | 145        | 220 | 200 | 365 | 90  | 505 | 56 | -55 | 620 | 900  | 1545 | 1000 |  |
| A270_B04_12D5 | 210        | 205 | 200 | 165 | 25  | 515 | 56 | -50 | 670 | 1000 | 1170 | 1200 |  |
| A270_B06_12D5 | 210        | 205 | 200 | 165 | 25  | 515 | 56 | -50 | 670 | 1000 | 1170 | 1200 |  |
| A270_B08_12D5 | 210        | 205 | 200 | 165 | 25  | 515 | 56 | -50 | 670 | 1000 | 1170 | 1200 |  |
| A270_C04_12D5 | 142        | 205 | 200 | 375 | 135 | 515 | 56 | -60 | 705 | 1050 | 1500 | 1200 |  |
| A270_C06_12D5 | 142        | 205 | 200 | 375 | 135 | 515 | 56 | -60 | 705 | 1050 | 1500 | 1200 |  |
| A270_B04_16   | 210        | 205 | 200 | 165 | 25  | 515 | 56 | -50 | 670 | 1000 | 1170 | 1200 |  |
| A270_B06_16   | 210        | 205 | 200 | 165 | 25  | 515 | 56 | -50 | 670 | 1000 | 1170 | 1200 |  |
| A280_B08_16   | 225        | 200 | 250 | 165 | 10  | 515 | 60 | 5   | 840 | 1000 | 1300 | 1450 |  |
| A270_C04_16   | 142        | 205 | 200 | 375 | 135 | 515 | 56 | -60 | 705 | 1050 | 1500 | 1200 |  |
| A270_C06_16   | 142        | 205 | 200 | 375 | 135 | 515 | 56 | -60 | 705 | 1050 | 1500 | 1200 |  |
| A280_C08_16   | 185        | 145 | 250 | 320 | 60  | 515 | 60 | -40 | 840 | 1000 | 1750 | 1450 |  |
| A270_B04_20   | 192        | 205 | 200 | 165 | 25  | 515 | 60 | -25 | 670 | 1000 | 1170 | 1450 |  |
| A270_C04_20   | 142        | 205 | 200 | 430 | 135 | 515 | 60 | -60 | 705 | 1000 | 1615 | 1450 |  |
| A280_B04_20   | 225        | 200 | 250 | 165 | 10  | 570 | 60 | 5   | 840 | 1000 | 1300 | 1450 |  |
| A280_B06_20   | 225        | 200 | 250 | 165 | 10  | 570 | 60 | 5   | 840 | 1000 | 1300 | 1450 |  |
| A280_B08_20   | 225        | 200 | 250 | 165 | 10  | 570 | 60 | 5   | 840 | 1000 | 1300 | 1450 |  |
| A280_C04_20   | 185        | 145 | 250 | 320 | 60  | 570 | 60 | -40 | 840 | 1000 | 1750 | 1450 |  |
| A280_C06_20   | 185        | 145 | 250 | 320 | 60  | 570 | 60 | -40 | 840 | 1000 | 1750 | 1450 |  |
| A280_C08_20   | 185        | 145 | 250 | 320 | 60  | 570 | 60 | -40 | 840 | 1000 | 1750 | 1450 |  |
| A280_B04_30   | 225        | 200 | 250 | 165 | 10  | 570 | 60 | 5   | 840 | 1000 | 1300 | 1450 |  |
| A280_B06_25   | 225        | 200 | 250 | 165 | 10  | 570 | 60 | 5   | 840 | 1000 | 1300 | 1450 |  |
| A280_C04_30   | 185        | 145 | 250 | 320 | 60  | 570 | 60 | -40 | 840 | 1000 | 1750 | 1450 |  |
| A280_C06_25   | 185        | 145 | 250 | 320 | 60  | 570 | 60 | -40 | 840 | 1000 | 1750 | 1450 |  |
| A280_B06_30   | 225        | 200 | 250 | 165 | 10  | 570 | 60 | 5   | 840 | 1000 | 1300 | 1450 |  |
| A280_C06_30   | 185        | 145 | 250 | 320 | 60  | 570 | 60 | -40 | 840 | 1000 | 1750 | 1450 |  |
| A280_B03_32   | 225        | 200 | 250 | 165 | 10  | 570 | 60 | 5   | 840 | 1000 | 1300 | 1450 |  |
| A280_B04_32   | 225        | 200 | 250 | 165 | 10  | 570 | 60 | 5   | 840 | 1000 | 1300 | 1450 |  |
| A280_B05_32   | 225        | 200 | 250 | 165 | 10  | 570 | 60 | 5   | 840 | 1000 | 1300 | 1450 |  |



# OPEN BARREL HOISTS - SINGLE REEVED 6/1



# OPEN BARREL HOISTS - SINGLE REEVED 6/1

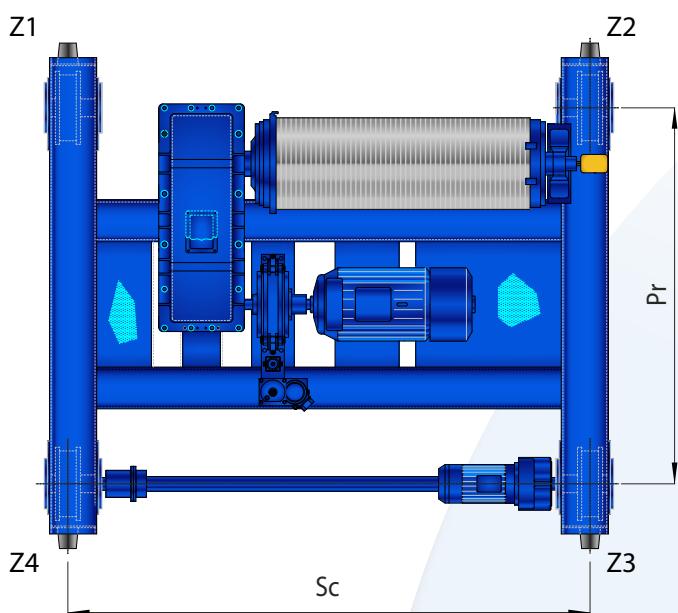
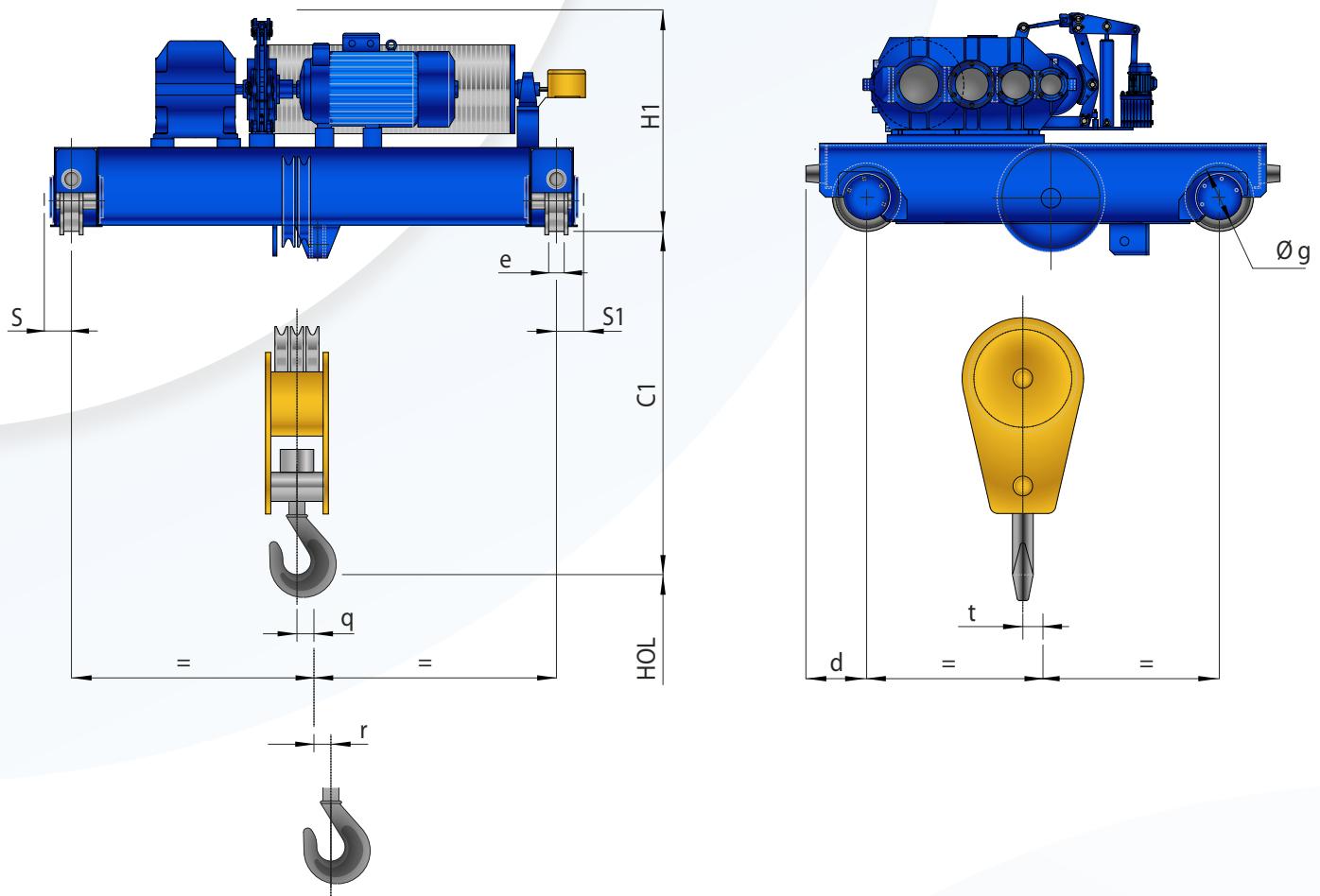
| CODE          | CAPACITY |    | REEVING | ROPE Ø | HOOK DIN 15401 | HOL | LIFTING SPEED | MOTOR POWER | CT POWER | STATIC REACTIONS |      |      |       | WEIGHT Kg |
|---------------|----------|----|---------|--------|----------------|-----|---------------|-------------|----------|------------------|------|------|-------|-----------|
|               | t        | M5 |         |        |                |     |               |             |          | Z1               | Z2   | Z3   | Z4    |           |
|               | M6       |    |         | mm     | nr.            | m   | m/min         | kW          | kW       |                  |      |      |       |           |
| A270_6B04_20  | —        | 20 | 6/1     | 15     | 10             | 10  | 4/0.8         | 18.5        | 1.1      | 73.2             | 31.2 | 34.6 | 82.2  | 1760      |
| A270_6B05_20  | —        | 20 | 6/1     | 15     | 10             | 10  | 5/1           | 22          | 1.1      | 73.2             | 31.2 | 34.6 | 82.2  | 1760      |
| A270_6C04_20  | —        | 20 | 6/1     | 15     | 10             | 15  | 4/0.8         | 18.5        | 1.1      | 75.1             | 23.4 | 28.4 | 94.3  | 2100      |
| A270_6C05_20  | —        | 20 | 6/1     | 15     | 10             | 15  | 5/1           | 22          | 1.1      | 75.1             | 23.4 | 28.4 | 94.3  | 2100      |
| A270_B04_25   | 25       | —  | 6/1     | 15     | 10             | 10  | 4/0.8         | 22          | 2.2      | 90.2             | 37.6 | 41.9 | 101.4 | 1760      |
| A270_C04_25   | 25       | —  | 6/1     | 15     | 10             | 15  | 4/0.8         | 22          | 2.2      | 94.6             | 24.6 | 31.4 | 120.6 | 2100      |
| A280_B03_35   | 35       | 32 | 6/1     | 20     | 12             | 10  | 3/0.6         | 30          | 2.2      | 134.5            | 58.3 | 58.3 | 134.5 | 3200      |
| A280_B04_35   | 35       | 32 | 6/1     | 20     | 12             | 10  | 4/0.8         | 30          | 2.2      | 134.5            | 58.3 | 58.3 | 134.5 | 3200      |
| A280_B05_35   | 35       | 32 | 6/1     | 20     | 12             | 10  | 5/1           | 37          | 2.2      | 134.5            | 58.3 | 58.3 | 134.5 | 3200      |
| A280_C03_35   | 35       | 32 | 6/1     | 20     | 12             | 15  | 3/0.6         | 30          | 2.2      | 127.9            | 68.4 | 66.1 | 123.3 | 3850      |
| A280_C04_35   | 35       | 32 | 6/1     | 20     | 12             | 15  | 4/0.8         | 30          | 2.2      | 127.9            | 68.4 | 66.1 | 123.3 | 3850      |
| A280_C05_35   | 35       | 32 | 6/1     | 20     | 12             | 15  | 5/1           | 37          | 2.2      | 127.9            | 68.4 | 66.1 | 123.3 | 3850      |
| A280_6B03_35  | —        | 35 | 6/1     | 20     | 16             | 10  | 3/0.6         | 30          | 2.2      | 134.5            | 58.3 | 58.3 | 134.5 | 3200      |
| A280_6B04_35  | —        | 35 | 6/1     | 20     | 16             | 10  | 4/0.8         | 30          | 2.2      | 134.5            | 58.3 | 58.3 | 134.5 | 3200      |
| A280_6B05_35  | —        | 35 | 6/1     | 20     | 16             | 10  | 5/1           | 37          | 2.2      | 134.5            | 58.3 | 58.3 | 134.5 | 3200      |
| A280_6C03_35  | —        | 35 | 6/1     | 20     | 16             | 15  | 3/0.6         | 30          | 2.2      | 127.9            | 68.4 | 68.4 | 123.3 | 3850      |
| A280_6C04_35  | —        | 35 | 6/1     | 20     | 16             | 15  | 4/0.8         | 30          | 2.2      | 127.9            | 68.4 | 68.4 | 123.3 | 3850      |
| A280_6C05_35  | —        | 35 | 6/1     | 20     | 16             | 15  | 5/1           | 37          | 2.2      | 127.9            | 68.4 | 68.4 | 123.3 | 3850      |
| A280_B03_40   | 40       | —  | 6/1     | 20     | 12             | 10  | 3/0.6         | 30          | 2.2      | 152.4            | 65.4 | 65.4 | 152.4 | 3200      |
| A280_B04_40   | 40       | —  | 6/1     | 20     | 12             | 10  | 4/0.8         | 37          | 2.2      | 152.4            | 65.4 | 65.4 | 152.4 | 3200      |
| A280_C03_40   | 40       | —  | 6/1     | 20     | 12             | 15  | 3/0.6         | 30          | 2.2      | 144.9            | 76.9 | 74.3 | 139.6 | 3850      |
| A280_C04_40   | 40       | —  | 6/1     | 20     | 12             | 15  | 4/0.8         | 37          | 2.2      | 144.9            | 76.9 | 74.3 | 139.6 | 3850      |
| A280_B03_50   | 50 (*)   | —  | 6/1     | 20     | 12             | 10  | 2.7/0.6       | 30          | 3        | 174.1            | 96.2 | 96.2 | 174.1 | 4000      |
| A280_B03D5_50 | 50 (*)   | —  | 6/1     | 20     | 12             | 10  | 3.5/0.7       | 37          | 3        | 174.1            | 96.2 | 96.2 | 174.1 | 4000      |

(\*) Hoists in M4 Duty Group

| CODE          | DIMENSIONS |     |     |     |     |     |    |     |      |      |      |      |  |
|---------------|------------|-----|-----|-----|-----|-----|----|-----|------|------|------|------|--|
|               | mm         |     |     |     |     |     |    |     |      |      |      |      |  |
|               | S          | S1  | Øg  | q   | r   | d   | e  | t   | H1   | C1   | Pr   | Sc   |  |
| A270_6B04_20  | 140        | 245 | 200 | 325 | 215 | 575 | 60 | -25 | 780  | 1160 | 1450 | 1450 |  |
| A270_6B05_20  | 140        | 245 | 200 | 325 | 215 | 575 | 60 | -25 | 780  | 1160 | 1450 | 1450 |  |
| A270_6C04_20  | 140        | 140 | 250 | 570 | 338 | 575 | 60 | -60 | 815  | 1150 | 1940 | 1450 |  |
| A270_6C05_20  | 140        | 140 | 250 | 570 | 338 | 575 | 60 | -60 | 815  | 1150 | 1940 | 1450 |  |
| A270_B04_25   | 140        | 245 | 200 | 325 | 215 | 575 | 60 | 45  | 780  | 1160 | 1450 | 1450 |  |
| A270_C04_25   | 140        | 140 | 250 | 570 | 338 | 575 | 60 | 88  | 815  | 1150 | 1940 | 1450 |  |
| A280_B03_35   | 185        | 205 | 315 | 370 | 210 | 680 | 70 | 0   | 900  | 1240 | 1700 | 2000 |  |
| A280_B04_35   | 185        | 205 | 315 | 370 | 210 | 680 | 70 | 0   | 900  | 1240 | 1700 | 2000 |  |
| A280_B05_35   | 185        | 205 | 315 | 370 | 210 | 680 | 70 | 0   | 900  | 1240 | 1700 | 2000 |  |
| A280_C03_35   | 175        | 205 | 315 | 450 | 200 | 680 | 70 | 20  | 900  | 1395 | 2700 | 2000 |  |
| A280_C04_35   | 175        | 205 | 315 | 450 | 200 | 680 | 70 | 20  | 900  | 1395 | 2700 | 2000 |  |
| A280_C05_35   | 175        | 205 | 315 | 450 | 200 | 680 | 70 | 20  | 900  | 1395 | 2700 | 2000 |  |
| A280_6B03_35  | 185        | 205 | 315 | 370 | 210 | 680 | 70 | 0   | 900  | 1320 | 1700 | 2000 |  |
| A280_6B04_35  | 185        | 205 | 315 | 370 | 210 | 680 | 70 | 0   | 900  | 1320 | 1700 | 2000 |  |
| A280_6B05_35  | 185        | 205 | 315 | 370 | 210 | 680 | 70 | 0   | 900  | 1320 | 1700 | 2000 |  |
| A280_6C03_35  | 175        | 205 | 315 | 450 | 200 | 680 | 70 | 20  | 900  | 1475 | 2700 | 2000 |  |
| A280_6C04_35  | 175        | 205 | 315 | 450 | 200 | 680 | 70 | 20  | 900  | 1475 | 2700 | 2000 |  |
| A280_6C05_35  | 175        | 205 | 315 | 450 | 200 | 680 | 70 | 20  | 900  | 1475 | 2700 | 2000 |  |
| A280_B03_40   | 185        | 205 | 315 | 370 | 210 | 680 | 70 | 0   | 900  | 1240 | 1700 | 2000 |  |
| A280_B04_40   | 185        | 205 | 315 | 370 | 210 | 680 | 70 | 0   | 900  | 1240 | 1700 | 2000 |  |
| A280_C03_40   | 175        | 205 | 315 | 450 | 200 | 680 | 70 | 20  | 900  | 1395 | 2700 | 2000 |  |
| A280_C04_40   | 175        | 205 | 315 | 450 | 200 | 680 | 70 | 20  | 900  | 1395 | 2700 | 2000 |  |
| A280_B03_50   | 185        | 205 | 315 | 440 | 250 | 750 | 70 | 0   | 1000 | 1320 | 1850 | 2500 |  |
| A280_B03D5_50 | 185        | 205 | 315 | 440 | 250 | 750 | 70 | 0   | 1000 | 1320 | 1850 | 2500 |  |

- Reactions refer to the max allowed capacity
- All motors are for inverter use. Dual speed available upon request.
- Standard CT speed for all hoists is 20/5 m/min.

# OPEN BARREL HOISTS - SINGLE REEVED 6/1 (RS350)



# OPEN BARREL HOISTS - SINGLE REEVED 6/1 (RS350)

| CODE         | CAPACITY |    | REEVING | ROPE Ø | HOOK DIN 15401 | HOL | LIFTING SPEED | MOTOR POWER | CT POWER | STATIC REACTIONS |       |       |       | WEIGHT<br>Kg |
|--------------|----------|----|---------|--------|----------------|-----|---------------|-------------|----------|------------------|-------|-------|-------|--------------|
|              | t        | M5 |         |        |                |     |               |             |          | Z1               | Z2    | Z3    | Z4    |              |
|              | M6       |    |         | mm     | nr.            | m   | m/min         | kW          | kW       |                  |       |       |       |              |
| A350_6B04_40 | —        | 40 | 6/1     | 22     | 16             | 10  | 4/0.8         | 37          | 2.2      | 121.5            | 107.5 | 107.5 | 121.5 | 4800         |
| A350_6B05_40 | —        | 40 | 6/1     | 22     | 16             | 10  | 5/1           | 45          | 2.2      | 121.5            | 107.5 | 107.5 | 121.5 | 4800         |
| A350_6B06_40 | —        | 40 | 6/1     | 22     | 16             | 10  | 6/1.2         | 55          | 2.2      | 121.5            | 107.5 | 107.5 | 121.5 | 4800         |
| A350_6C04_40 | —        | 40 | 6/1     | 22     | 16             | 15  | 4/0.8         | 37          | 2.2      | 127.0            | 105.1 | 105.1 | 127.0 | 5200         |
| A350_6C05_40 | —        | 40 | 6/1     | 22     | 16             | 15  | 5/1           | 45          | 2.2      | 127.0            | 105.1 | 105.1 | 127.0 | 5200         |
| A350_6C06_40 | —        | 40 | 6/1     | 22     | 16             | 15  | 6/1.2         | 55          | 2.2      | 127.0            | 105.1 | 105.1 | 127.0 | 5200         |
| A350_B03_50  | 50       | —  | 6/1     | 22     | 16             | 10  | 3.5/0.7       | 37          | 3        | 148.3            | 130.8 | 130.8 | 148.3 | 4800         |
| A350_B04_50  | 50       | —  | 6/1     | 22     | 16             | 10  | 4/0.8         | 45          | 3        | 148.3            | 130.8 | 130.8 | 148.3 | 4800         |
| A350_B05_50  | 50       | —  | 6/1     | 22     | 16             | 10  | 5/1           | 55          | 3        | 148.3            | 130.8 | 130.8 | 148.3 | 4800         |
| A350_C03_50  | 50       | —  | 6/1     | 22     | 16             | 15  | 3.5/0.7       | 37          | 3        | 154.8            | 127.3 | 127.3 | 154.8 | 5200         |
| A350_C04_50  | 50       | —  | 6/1     | 22     | 16             | 15  | 4/0.8         | 45          | 3        | 154.8            | 127.3 | 127.3 | 154.8 | 5200         |
| A350_C05_50  | 50       | —  | 6/1     | 22     | 16             | 15  | 5/1           | 55          | 3        | 154.8            | 127.3 | 127.3 | 154.8 | 5200         |
| A350_6B03_50 | —        | 50 | 6/1     | 22     | 20             | 10  | 3.5/0.7       | 37          | 3        | 148.3            | 130.8 | 130.8 | 148.3 | 4800         |
| A350_6B04_50 | —        | 50 | 6/1     | 22     | 20             | 10  | 4/0.8         | 45          | 3        | 148.3            | 130.8 | 130.8 | 148.3 | 4800         |
| A350_6B05_50 | —        | 50 | 6/1     | 22     | 20             | 10  | 5/1           | 55          | 3        | 148.3            | 130.8 | 130.8 | 148.3 | 4800         |
| A350_6C03_50 | —        | 50 | 6/1     | 22     | 20             | 15  | 3.5/0.7       | 37          | 3        | 154.8            | 127.3 | 127.3 | 154.8 | 5200         |
| A350_6C04_50 | —        | 50 | 6/1     | 22     | 20             | 15  | 4/0.8         | 45          | 3        | 154.8            | 127.3 | 127.3 | 154.8 | 5200         |
| A350_6C05_50 | —        | 50 | 6/1     | 22     | 20             | 15  | 5/1           | 55          | 3        | 154.8            | 127.3 | 127.3 | 154.8 | 5200         |
| A350_B02_60  | 60       | —  | 6/1     | 24     | 20             | 10  | 2/0.4         | 30          | 4        | 186.0            | 152.9 | 152.9 | 186.0 | 6800         |
| A350_B03_60  | 60       | —  | 6/1     | 24     | 20             | 10  | 3/0.6         | 37          | 4        | 186.0            | 152.9 | 152.9 | 186.0 | 6800         |
| A350_B04_60  | 60       | —  | 6/1     | 24     | 20             | 10  | 4/0.8         | 55          | 4        | 186.0            | 152.9 | 152.9 | 186.0 | 6800         |
| A350_C02_60  | 60       | —  | 6/1     | 24     | 20             | 15  | 2/0.4         | 30          | 4        | 187.8            | 153.8 | 153.8 | 187.8 | 7100         |
| A350_C03_60  | 60       | —  | 6/1     | 24     | 20             | 15  | 3/0.6         | 37          | 4        | 187.8            | 153.8 | 153.8 | 187.8 | 7100         |
| A350_C04_60  | 60       | —  | 6/1     | 24     | 20             | 15  | 4/0.8         | 55          | 4        | 187.8            | 153.8 | 153.8 | 187.8 | 7100         |

| CODE         | DIMENSIONS |     |     |     |     |     |    |   |      |      |      |      |  | Sc |  |
|--------------|------------|-----|-----|-----|-----|-----|----|---|------|------|------|------|--|----|--|
|              | mm         |     |     |     |     |     |    |   |      |      |      |      |  |    |  |
|              | S          | S1  | Øg  | q   | r   | d   | e  | t | H1   | C1   | Pr   | Sc   |  |    |  |
| A350_6B04_40 | 140        | 140 | 315 | 88  | 88  | 310 | 80 | 0 | 1145 | 1770 | 1800 | 2500 |  |    |  |
| A350_6B05_40 | 140        | 140 | 315 | 88  | 88  | 310 | 80 | 0 | 1145 | 1770 | 1800 | 2500 |  |    |  |
| A350_6B06_40 | 140        | 140 | 315 | 88  | 88  | 310 | 80 | 0 | 1145 | 1770 | 1800 | 2500 |  |    |  |
| A350_6C04_40 | 140        | 140 | 315 | 165 | 100 | 310 | 80 | 0 | 1145 | 1770 | 1800 | 3000 |  |    |  |
| A350_6C05_40 | 140        | 140 | 315 | 165 | 100 | 310 | 80 | 0 | 1145 | 1770 | 1800 | 3000 |  |    |  |
| A350_6C06_40 | 140        | 140 | 315 | 165 | 100 | 310 | 80 | 0 | 1145 | 1770 | 1800 | 3000 |  |    |  |
| A350_B03_50  | 140        | 140 | 315 | 88  | 88  | 310 | 80 | 0 | 1145 | 1770 | 1800 | 2500 |  |    |  |
| A350_B04_50  | 140        | 140 | 315 | 88  | 88  | 310 | 80 | 0 | 1145 | 1770 | 1800 | 2500 |  |    |  |
| A350_B05_50  | 140        | 140 | 315 | 88  | 88  | 310 | 80 | 0 | 1145 | 1770 | 1800 | 2500 |  |    |  |
| A350_C03_50  | 140        | 140 | 315 | 165 | 100 | 310 | 80 | 0 | 1145 | 1770 | 1800 | 3000 |  |    |  |
| A350_C04_50  | 140        | 140 | 315 | 165 | 100 | 310 | 80 | 0 | 1145 | 1770 | 1800 | 3000 |  |    |  |
| A350_C05_50  | 140        | 140 | 315 | 165 | 100 | 310 | 80 | 0 | 1145 | 1770 | 1800 | 3000 |  |    |  |
| A350_6B03_50 | 140        | 140 | 315 | 88  | 88  | 310 | 80 | 0 | 1145 | 1770 | 1800 | 2500 |  |    |  |
| A350_6B04_50 | 140        | 140 | 315 | 88  | 88  | 310 | 80 | 0 | 1145 | 1770 | 1800 | 2500 |  |    |  |
| A350_6B05_50 | 140        | 140 | 315 | 88  | 88  | 310 | 80 | 0 | 1145 | 1770 | 1800 | 2500 |  |    |  |
| A350_6C03_50 | 140        | 140 | 315 | 165 | 100 | 310 | 80 | 0 | 1145 | 1770 | 1800 | 3000 |  |    |  |
| A350_6C04_50 | 140        | 140 | 315 | 165 | 100 | 310 | 80 | 0 | 1145 | 1770 | 1800 | 3000 |  |    |  |
| A350_6C05_50 | 140        | 140 | 315 | 165 | 100 | 310 | 80 | 0 | 1145 | 1770 | 1800 | 3000 |  |    |  |
| A350_B02_60  | 180        | 180 | 400 | 88  | 98  | 380 | 90 | 0 | 1230 | 1880 | 1950 | 3000 |  |    |  |
| A350_B03_60  | 180        | 180 | 400 | 88  | 98  | 380 | 90 | 0 | 1230 | 1880 | 1950 | 3000 |  |    |  |
| A350_B04_60  | 180        | 180 | 400 | 88  | 98  | 380 | 90 | 0 | 1230 | 1880 | 1950 | 3000 |  |    |  |
| A350_C02_60  | 180        | 180 | 400 | 165 | 110 | 380 | 90 | 0 | 1230 | 1880 | 1950 | 3000 |  |    |  |
| A350_C03_60  | 180        | 180 | 400 | 165 | 110 | 380 | 90 | 0 | 1230 | 1880 | 1950 | 3000 |  |    |  |
| A350_C04_60  | 180        | 180 | 400 | 165 | 110 | 380 | 90 | 0 | 1230 | 1880 | 1950 | 3000 |  |    |  |

- Reactions refer to the max allowed capacity
- All motors are for inverter use. Dual speed available upon request.
- Standard CT speed for all hoists is 20/5 m/min.



# ELECTRICAL EQUIPMENT

The electrical equipment is represented by the pendant push-button station and the electrical panel.

Reference power supply is characterised by a voltage of 380 V and a frequency of 50 Hz (110 V for the auxiliary circuit).

Different values of power supply can be furnished upon request.

## Standard protection and insulation

- lifting motors: IP54, insulation class F
- travel motors: IP54, insulation class F
- motor brakes: IP23, insulation class F
- electrical panel: IP54, max. insulation voltage 2500 V
- connectors: IP65, max. insulation voltage 600 V
- push-button station: IP65, max. insulation voltage 500 V
- limit switches: IP54, max. insulation voltage 500 V



## Electrical Panel

The electrical panel consists of:

- A cubicle, fabricated from sheet steel, with hinged front door, painted with epoxy enamel RAL 5009
- A triple-pole load breaking isolating switch with external operating handle mechanically interlocked with the sheet steel case door
- Contactors mechanically interlocked, relays and timers for dual speeds
- Fuses for protection against short circuits and motor overloads
- An electric horn for acoustic warning
- Wiring is carried out with single-core flame-resistant conductors, featuring a minimum cross sectional area of 1.5 mm<sup>2</sup>. Connections to terminal boards are carried out through metallic terminations.
- The terminal board is characterised by numbered terminals conforming with the wiring diagram. This ensures simplicity and safety of wiring. All parts of the electrical panel that remain energised even when the load breaking isolating switch is switched off, are appropriately shielded.

## Pendant push-button station

The pendant push-button station for the crane control consists of:

- A housing of shockproof thermoplastic material
- Shrouded push-buttons with automatic return for all motions (2-speed buttons for dual speeds)
- Shrouded ON / ALARM push-button with automatic return
- A mushroom-shaped STOP push-button with non-return lock and manual rotary release plates, placed by every push-button, describing all functions of the crane

The push-button station is furnished along with 8 metres of self-supporting multi-core cable equipped with a quick detachable connector that makes the assembling easy.



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