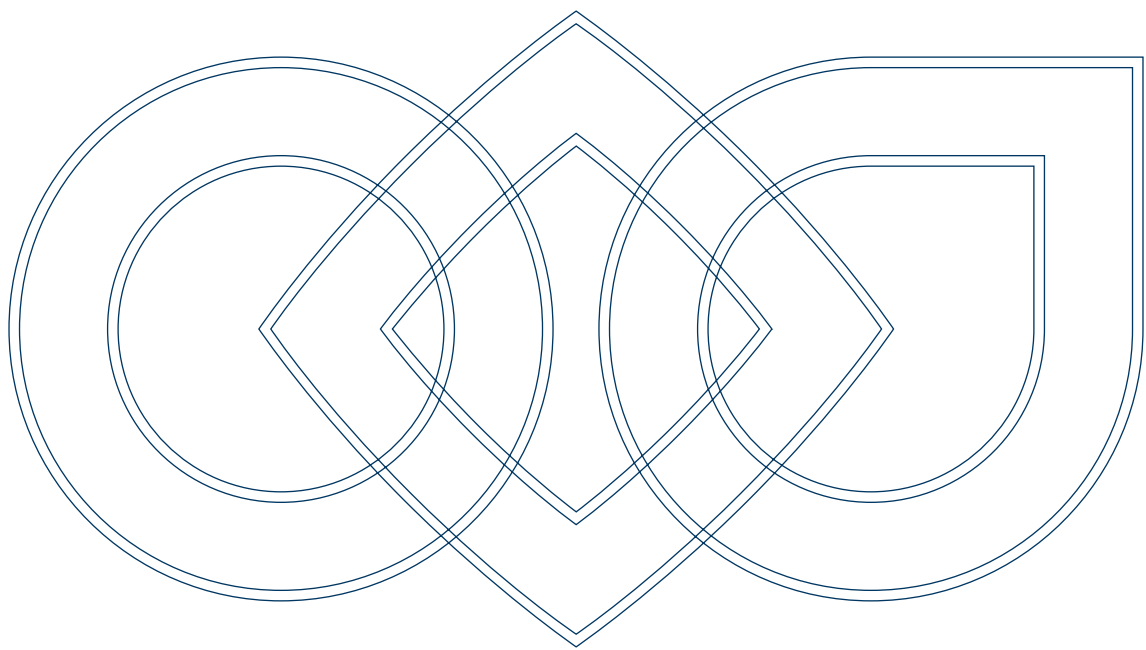




Mobile Solutions



PRODUCTS
RANGE



A complete range of innovative products for mobile solutions.

Since 1975, Bonfiglioli has been a partner with the largest global producers of machinery for the earth-moving, building, construction and agricultural sectors.

Our wide range of planetary gearboxes - complete with hydraulic and electric motors for excavators, roadwork equipment and many other applications - are manufactured in a production process which is firmly focused on the specific needs of our customers.

These solutions are developed with the highest levels of customisation, which requires, right from the initial design phases, in-depth interaction between the customer and Bonfiglioli team, to ensure that all of the required specifications and variants are known, for a product which perfectly meets expectations.

This is why our pre-sales and after-sales teams, spread strategically over all continents, play such a crucial role, and why ensuring complete support is at the heart of our global success.

Today, Bonfiglioli also offers innovative electromobility solutions for mobile equipment in a huge range of contexts.

This choice is perfectly in line with the industrial philosophy of the future, which is increasingly placing electrical systems alongside traditional power transmission.



Bonfiglioli products portfolio

Product offer

PLANETARY DRIVES

- 6 300 series (Hydraulic solutions)
- 8 300 series (Electric solutions)

TRANSIT MIXER DRIVES

- 10 500 series
- 12 500 series with electric motor

WHEEL DRIVES

- 14 600 series
- 16 600 series with integrated service & parking brakes
- 18 600E series
- 20 600W with BPD® electric motor
- 22 600F series
- 24 600W2/3

TRAVEL DRIVES

- 26 700C series

TRACK DRIVE GEARMOTORS

- 28 700CK series
- 30 700CP series
- 32 700CT series

DRUM DRIVES FOR MILLING MACHINE

- 34 700C series

SLEW DRIVES

- 36 700T series
- 38 700TK series

WINCH DRIVES

- 40 800 series

42 WORLDWIDE NETWORK

Planetary drives 300 series



The 300 series are compact and powerful. Their planetary drive train makes them the ideal choice for all the severe duty applications where shock loads and impacts are more the rule than the exception.

The product configuration is highly versatile, due to several options as far as the mounting, the gear layout, the output shaft and the motor interface. All the features are available for each of the 20 finely spaced frame sizes, spanning over the 1000 - 1100000 Nm torque range. Finding the perfect match to any drive problem is therefore more than a wish, it is something users can safely rely on - always.



Torque Range

1000 ... 1100000 Nm

Transmissible Mechanical Power

up to 1050 kW

Gear Ratios

3.4 ... 5000

Gear Unit Versions

In line

Right angle (with a spiral bevel gear set)

Output Configuration

Foot and flange mounted

Output shaft: solid with key, splined, splined hollow, hollow with shrink disc

Input Configurations

Flanged axial piston hydraulic motors

Hydraulic orbit motors

IEC and Nema motor adaptors

Solid input shaft

Hydraulic Brake

Hydraulically released parking brake on request

Electric Brake

DC and AC type

| Type | Torque (Nm) |
|------|-------------|
| 300 | 1000 |
| 301 | 1750 |
| 303 | 2500 |
| 304 | 3600 |
| 305 | 5000 |
| 306 | 8500 |
| 307 | 12500 |
| 309 | 18000 |
| 310 | 25000 |
| 311 | 40000 |
| 313 | 55000 |
| 314 | 80000 |
| 315 | 100000 |
| 316 | 135000 |
| 317 | 170000 |
| 318 | 250000 |
| 319 | 350000 |
| 321 | 500000 |
| 323 | 800000 |
| 325 | 1100000 |

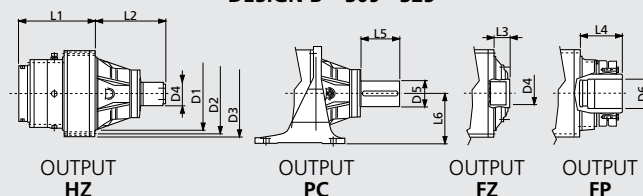
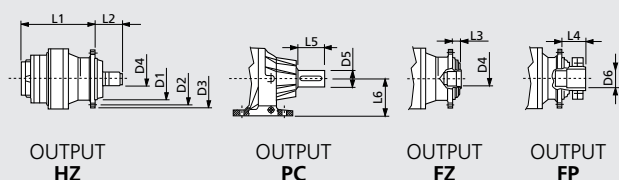


Overall dimensions and technical data

| TYPE | MAX POWER | MAX INPUT SPEED | | | | DESIGN |
|------|-----------|-----------------|------------|-----------|-------------|--------|
| | | | kW | RPM | Inline | |
| 300 | 20 | 3000 | 3.4 - 2700 | 7 - 700 | 400 - 2300 | A |
| 301 | 30 | 3000 | 3.4 - 2700 | 7 - 700 | 400 - 2300 | A |
| 303 | 40 | 3000 | 3.6 - 2800 | 9 - 800 | 400 - 2400 | A |
| 304 | 50 | 3000 | 3.6 - 2500 | 9 - 700 | 400 - 2400 | A |
| 305 | 60 | 3000 | 3.6 - 2800 | 9 - 800 | 400 - 2400 | A |
| 306 | 75 | 2500 | 3.6 - 2900 | 9 - 800 | 400 - 2600 | A |
| 307 | 100 | 2500 | 3.4 - 2400 | 13 - 700 | 400 - 2500 | A |
| 309 | 130 | 2500 | 3.4 - 2400 | 13 - 700 | 400 - 2500 | B |
| 310 | 150 | 2000 | 4 - 2500 | 40 - 900 | 400 - 5000 | B |
| 311 | 180 | 2000 | 4 - 2100 | 18 - 800 | 400 - 5000 | B |
| 313 | 200 | 2000 | 4 - 2200 | 18 - 800 | 400 - 5000 | B |
| 314 | 225 | 2000 | 4 - 1800 | 50 - 600 | 400 - 5000 | B |
| 315 | 250 | 1500 | 4 - 1800 | 70 - 900 | 400 - 5000 | B |
| 316 | 270 | 1500 | 4.4 - 1200 | 50 - 600 | 400 - 5000 | B |
| 317 | 300 | 1000 | 4 - 1900 | 70 - 900 | 400 - 5000 | B |
| 318 | 340 | 1000 | 4.4 - 1100 | 200 - 700 | 400 - 5000 | B |
| 319 | 380 | 500 | 4.8 - 1400 | 300 - 800 | 2500 - 5000 | B |
| 321 | 450 | 300 | 4.4 - 1100 | 300 - 800 | 1000 - 5000 | B |
| 323 | 850 | 300 | 4.6 - 1300 | - | - | B |
| 325 | 1050 | 300 | 4.6 - 1300 | - | - | B |

DESIGN A • 300 - 307

DESIGN B • 309 - 325



| TYPE | D1 | D2 | D3 | D4 | D5 | D6 | L1 (2 stages) | L2 | L3 | L4 | L5 | L6 |
|------|------|------|------|-----------------|-----|-----|---------------|-----|-----|-----|-----|-----|
| 300 | 110 | 165 | 185 | 40x36 DIN 5482 | 38 | 42 | 168 | 61 | 14 | 50 | 58 | 100 |
| 301 | 110 | 165 | 185 | 40x36 DIN 5482 | 50 | 42 | 180 | 61 | 14 | 50 | 82 | 132 |
| 303 | 150 | 195 | 222 | 58x53 DIN 5482 | 60 | 75 | 200 | 83 | 15 | 85 | 105 | 160 |
| 304 | 150 | 195 | 222 | 58x53 DIN 5482 | 60 | 75 | 212 | 83 | 15 | 85 | 105 | 160 |
| 305 | 150 | 195 | 222 | 58x53 DIN 5482 | 60 | 75 | 230 | 83 | 15 | 85 | 105 | 160 |
| 306 | 200 | 250 | 280 | 70x64 DIN 5482 | 80 | 90 | 260 | 130 | 40 | 115 | 130 | 180 |
| 307 | 230 | 295 | 325 | 80x74 DIN 5482 | 90 | 100 | 300 | 162 | 36 | 120 | 170 | 200 |
| 309 | 278 | 314 | 348 | 80x74 DIN 5482 | 100 | 120 | 215 | 231 | 82 | 245 | 165 | 225 |
| 310 | 340 | 370 | 400 | 100x94 DIN 5482 | 110 | 130 | 245 | 290 | 95 | 290 | 210 | 250 |
| 311 | 358 | 390 | 428 | 100x94 DIN 5482 | 120 | 135 | 250 | 320 | 88 | 190 | 210 | 280 |
| 313 | 385 | 415 | 445 | 120x3 DIN 5480 | 140 | 145 | 310 | 357 | 81 | 235 | 200 | 280 |
| 314 | 460 | 503 | 542 | 150x5 DIN 5480 | 160 | 180 | 370 | 429 | 98 | 260 | 240 | 315 |
| 315 | 460 | 503 | 542 | 150x5 DIN 5480 | 160 | 180 | 390 | 429 | 98 | 260 | 240 | 315 |
| 316 | 580 | 625 | 670 | 170x5 DIN 5480 | 180 | 180 | 430 | 275 | 145 | 265 | 260 | 400 |
| 317 | 560 | 635 | 695 | 200x5 DIN 5480 | 200 | 260 | 470 | 352 | 152 | 318 | 260 | 415 |
| 318 | 700 | 750 | 800 | 220x5 DIN 5480 | 250 | 220 | 550 | 340 | 155 | 305 | 330 | 500 |
| 319 | 800 | 880 | 940 | 260x5 DIN 5480 | 280 | 350 | 570 | 470 | 210 | 440 | 380 | 550 |
| 321 | 940 | 1020 | 1100 | 300x8 DIN 5480 | 340 | 390 | 595 | 500 | 250 | 440 | 540 | 650 |
| 323 | 1100 | 1220 | 1300 | 400x8 DIN 5480 | - | 410 | 666 | - | 375 | 520 | - | - |
| 325 | 1260 | 1380 | 1460 | 450x8 DIN 5480 | - | 450 | 698 | - | 400 | 590 | - | - |

Planetary drives 300 series



The 300 series is compact and powerful: the ideal choice for all heavy duty applications where shock loads and impacts are more the rule than the exception.

The product configuration is highly versatile, due to several options concerning mounting, gear layout, output shaft and motor interface. All the features are available for each of the 20 finely-spaced frame sizes, spanning over the 1000 - 1100000 Nm torque range.



Torque Range

1000 ... 1100000 Nm

Transmissible Mechanical Power

up to 1050 kW

Gear Ratios

3.4 ... 5000

Gear Unit Versions

In line

Right angle (with a spiral bevel gear set)

Output Configuration

Foot and flange mounted

Output shaft: solid with key, splined, splined hollow, hollow with shrink disc

Input Configurations

Flanged axial piston hydraulic motors

Hydraulic orbit motors

IEC and Nema motor adaptors

Solid input shaft

Hydraulic Brake

Hydraulically released parking brake on request




Electric Brake

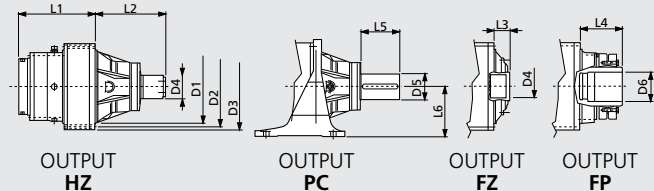
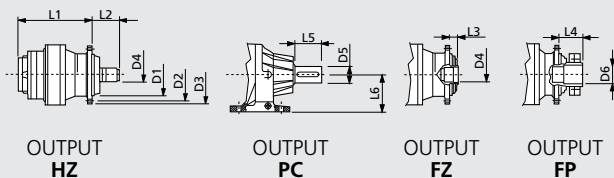
DC and AC type

| Type | Torque (Nm) |
|------|-------------|
| 300 | 1000 |
| 301 | 1750 |
| 303 | 2500 |
| 304 | 3600 |
| 305 | 5000 |
| 306 | 8500 |
| 307 | 12500 |
| 309 | 18000 |
| 310 | 25000 |
| 311 | 40000 |
| 313 | 55000 |
| 314 | 80000 |
| 315 | 100000 |
| 316 | 135000 |
| 317 | 170000 |
| 318 | 250000 |
| 319 | 350000 |
| 321 | 500000 |
| 323 | 800000 |
| 325 | 1100000 |



Overall dimensions and technical data

| TYPE | MAX POWER | MAX INPUT SPEED |  |  |  | DESIGN |
|------|-----------|-----------------|---|---|---|--------|
| | | | Inline | Right angle | Combined with worm gear | |
| | kW | RPM | | | | |
| 300 | 20 | 3000 | 3.4 - 2700 | 7 - 700 | 400 - 2300 | A |
| 301 | 30 | 3000 | 3.4 - 2700 | 7 - 700 | 400 - 2300 | A |
| 303 | 40 | 3000 | 3.6 - 2800 | 9 - 800 | 400 - 2400 | A |
| 304 | 50 | 3000 | 3.6 - 2500 | 9 - 700 | 400 - 2400 | A |
| 305 | 60 | 3000 | 3.6 - 2800 | 9 - 800 | 400 - 2400 | A |
| 306 | 75 | 2500 | 3.6 - 2900 | 9 - 800 | 400 - 2600 | A |
| 307 | 100 | 2500 | 3.4 - 2400 | 13 - 700 | 400 - 2500 | A |
| 309 | 130 | 2500 | 3.4 - 2400 | 13 - 700 | 400 - 2500 | B |
| 310 | 150 | 2000 | 4 - 2500 | 40 - 900 | 400 - 5000 | B |
| 311 | 180 | 2000 | 4 - 2100 | 18 - 800 | 400 - 5000 | B |
| 313 | 200 | 2000 | 4 - 2200 | 18 - 800 | 400 - 5000 | B |
| 314 | 225 | 2000 | 4 - 1800 | 50 - 600 | 400 - 5000 | B |
| 315 | 250 | 1500 | 4 - 1800 | 70 - 900 | 400 - 5000 | B |
| 316 | 270 | 1500 | 4.4 - 1200 | 50 - 600 | 400 - 5000 | B |
| 317 | 300 | 1000 | 4 - 1900 | 70 - 900 | 400 - 5000 | B |
| 318 | 340 | 1000 | 4.4 - 1100 | 200 - 700 | 400 - 5000 | B |
| 319 | 380 | 500 | 4.8 - 1400 | 300 - 800 | 2500 - 5000 | B |
| 321 | 450 | 300 | 4.4 - 1100 | 300 - 800 | 1000 - 5000 | B |
| 323 | 850 | 300 | 4.6 - 1300 | - | - | B |
| 325 | 1050 | 300 | 4.6 - 1300 | - | - | B |

DESIGN A • 300 - 307
DESIGN B • 309 - 325


| TYPE | D1 | D2 | D3 | D4 | D5 | D6 | L1 (2 stages) | L2 | L3 | L4 | L5 | L6 |
|------|------|------|------|-----------------|-----|-----|---------------|-----|-----|-----|-----|-----|
| 300 | 110 | 165 | 185 | 40x36 DIN 5482 | 38 | 42 | 168 | 61 | 14 | 50 | 58 | 100 |
| 301 | 110 | 165 | 185 | 40x36 DIN 5482 | 50 | 42 | 180 | 61 | 14 | 50 | 82 | 132 |
| 303 | 150 | 195 | 222 | 58x53 DIN 5482 | 60 | 75 | 200 | 83 | 15 | 85 | 105 | 160 |
| 304 | 150 | 195 | 222 | 58x53 DIN 5482 | 60 | 75 | 212 | 83 | 15 | 85 | 105 | 160 |
| 305 | 150 | 195 | 222 | 58x53 DIN 5482 | 60 | 75 | 230 | 83 | 15 | 85 | 105 | 160 |
| 306 | 200 | 250 | 280 | 70x64 DIN 5482 | 80 | 90 | 260 | 130 | 40 | 115 | 130 | 180 |
| 307 | 230 | 295 | 325 | 80x74 DIN 5482 | 90 | 100 | 300 | 162 | 36 | 120 | 170 | 200 |
| 309 | 278 | 314 | 348 | 80x74 DIN 5482 | 100 | 120 | 215 | 231 | 82 | 245 | 165 | 225 |
| 310 | 340 | 370 | 400 | 100x94 DIN 5482 | 110 | 130 | 245 | 290 | 95 | 290 | 210 | 250 |
| 311 | 358 | 390 | 428 | 100x94 DIN 5482 | 120 | 135 | 250 | 320 | 88 | 190 | 210 | 280 |
| 313 | 385 | 415 | 445 | 120x3 DIN 5480 | 140 | 145 | 310 | 357 | 81 | 235 | 200 | 280 |
| 314 | 460 | 503 | 542 | 150x5 DIN 5480 | 160 | 180 | 370 | 429 | 98 | 260 | 240 | 315 |
| 315 | 460 | 503 | 542 | 150x5 DIN 5480 | 160 | 180 | 390 | 429 | 98 | 260 | 240 | 315 |
| 316 | 580 | 625 | 670 | 170x5 DIN 5480 | 180 | 180 | 430 | 275 | 145 | 265 | 260 | 400 |
| 317 | 560 | 635 | 695 | 200x5 DIN 5480 | 200 | 260 | 470 | 352 | 152 | 318 | 260 | 415 |
| 318 | 700 | 750 | 800 | 220x5 DIN 5480 | 250 | 220 | 550 | 340 | 155 | 305 | 330 | 500 |
| 319 | 800 | 880 | 940 | 260x5 DIN 5480 | 280 | 350 | 570 | 470 | 210 | 440 | 380 | 550 |
| 321 | 940 | 1020 | 1100 | 300x8 DIN 5480 | 340 | 390 | 595 | 500 | 250 | 440 | 540 | 650 |
| 323 | 1100 | 1220 | 1300 | 400x8 DIN 5480 | - | 410 | 666 | - | 375 | 520 | - | - |
| 325 | 1260 | 1380 | 1460 | 450x8 DIN 5480 | - | 450 | 698 | - | 400 | 590 | - | - |

Transit mixer drives 500 series



Absolute dependability, low maintenance, compactness and price effectiveness are the key features of the renovated 500 series, the unparalleled line of drives for transit mixers. Eight models available for mixing capacity ranging from 1 to 14 m³.



Torque Range

3000 ... 90000 Nm

Truck mixer capacity

1 to 14 cubic meters

Gear Ratios

17 ... 161

Key Features

- Rotating housing flange
- Rugged design
- High torque capacity
- High load capacity
- Tilting output flange, evenly in all directions
- Mounting frame for water tank
- Water pump P.T.O.
- Speed sensor

Applicable hydraulic motors

Axial piston motors to SAE
Standard
orbit motors

| Type | Torque (Nm) |
|------|-------------|
| 501 | 3000 |
| 564 | 12000 |
| 565 | 12000 |
| 567 | 20000 |
| 568 | 20000 |
| 575 | 50000 |
| 577 | 60000 |
| 580 | 75000 |



Overall dimensions and technical data

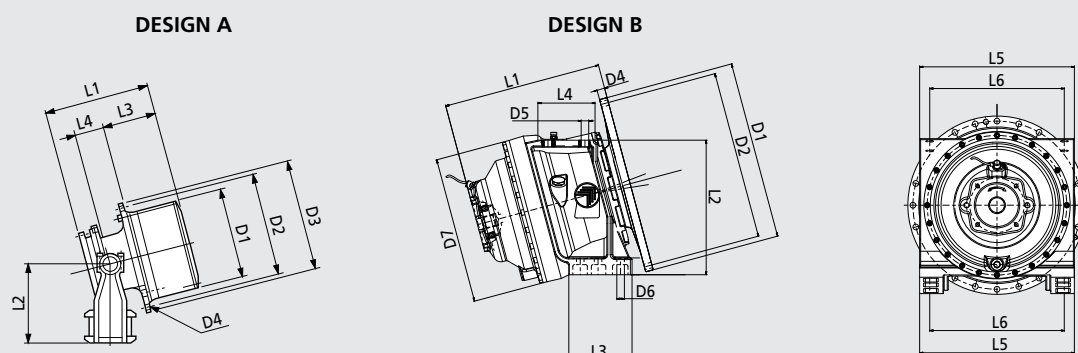
| TYPE | RANGE OF RATIOS | HYDR. MOTOR DRIVE ⁽¹⁾ | MAX. INPUT SPEED | DRUM CAPACITY ⁽²⁾ | WEIGHT | OIL QUANTITY | DESIGN | WATER PUMP P.T.O. | SPEED SENSOR |
|------|-----------------|----------------------------------|-------------------|------------------------------|--------|--------------|--------|-------------------|--------------|
| | 1: | | min ⁻¹ | m ³ | kg | L | | | |
| 501 | 17-23-29 | LS | 550 | 0.5 - 1 | 45 | 1.5 | A | – | – |
| 564 | 78-161 | HS | 2500 | 2 - 3 | 85 | 2 | A | – | – |
| 565 | 22 | LS | 550 | 2 - 3 | 70 | 1.5 | A | – | – |
| 567 | 76-90-115-128 | HS | 2500 | 4 - 5 | 140 | 3 | A | – | – |
| 568 | 18-21-27 | LS | 550 | 4 - 5 | 130 | 2.5 | A | – | – |
| 575 | 99.3-102-141 | HS | 3000 | 6 - 8 | 250 | 7 | B | • | • |
| 577 | 131 | HS | 3000 | 8 - 10 | 290 | 8.5 | B | • | • |
| 580 | 130-135-140 | HS | 3000 | 10 - 14 | 320 | 10 | B | • | • |

(1) **LS** = Low speed motor / **HS** = High speed motor

(2) General indication, application capacity depend on concrete slump

– = Not available

• = Available



| TYPE | D1 | D2 | D3 | D4 | D5 | D6 | D7 | L1 | L2 | L3 | L4 | L5 | L6 |
|------|-----|-----|-----|---------|--------|--------|-----|-----|-----|-----|-----|-----|-----|
| 501 | 200 | 222 | 245 | 13 n°4 | – | – | – | 270 | 195 | 138 | 89 | – | – |
| 564 | 280 | 310 | 340 | 17 n°10 | – | – | – | 365 | 240 | 165 | 85 | – | – |
| 565 | 280 | 310 | 340 | 17 n°10 | – | – | – | 290 | 240 | 165 | 85 | – | – |
| 567 | 358 | 390 | 430 | 17 n°18 | – | – | – | 435 | 300 | 210 | 110 | – | – |
| 568 | 358 | 390 | 430 | 17 n°18 | – | – | – | 360 | 300 | 210 | 110 | – | – |
| 575 | 530 | 500 | – | 17 n°24 | 22 n°4 | 22 n°6 | 435 | 450 | 400 | 188 | 170 | 460 | 400 |
| 577 | 530 | 500 | – | 17 n°24 | 22 n°4 | 22 n°6 | 435 | 450 | 400 | 188 | 170 | 460 | 400 |
| 580 | 530 | 500 | – | 17 n°24 | 22 n°4 | 22 n°6 | 435 | 525 | 400 | 188 | 170 | 460 | 400 |

Drum drive with electric motor

500 series

This solution is designed for use with medium/large mixer trucks that have medium/long delivery distances to travel.

Bonfiglioli innovative solution comprises a Bonfiglioli's historical 500 Series gearbox coupled to an AC electric motor, providing normal power, and a DC electric motor for emergency use.

This solution not only guarantees greater energy efficiency and reduced fuel consumption, but also helps cut cement mixer truck operating costs. Performance is improved too: rotation speed control is more accurate, operating noise levels are significantly lower.

Finally, functionality remains higher in the event of a failure: the presence of a second backup DC motor gives reassuring redundancy and eliminates the risks and potentially hazardous situations caused by failures of the drum emptying system.



Main benefits

- Increased energy efficiency
- Reduced fuel consumption
- Service intervals less frequent and simplified vs the standard hydraulic solution
- Better drum rotation speed control
- Optimised gear design for maximum efficiency and minimum noise
- The emergency electric DC motor allows a higher availability in case of machine failure



Solution main features

Gearbox data

Ratio

Main: 1:220

Emergency: 1:2200

Max output torque

Main: 60000 Nm

Emergency: 10500 Nm

Max input speed

Main: 3500 rpm

Emergency: 2000 rpm

Oil quantity

8 lt

Dry weight

328 kg

Motor data

Type

Main: Induction AC

Emergency: PM DC motor

Rated Power

Main: 40 kW

Emergency: 2 kW

Voltage

Main: 170 Vac

Emergency: 24 Vdc

Protection degree

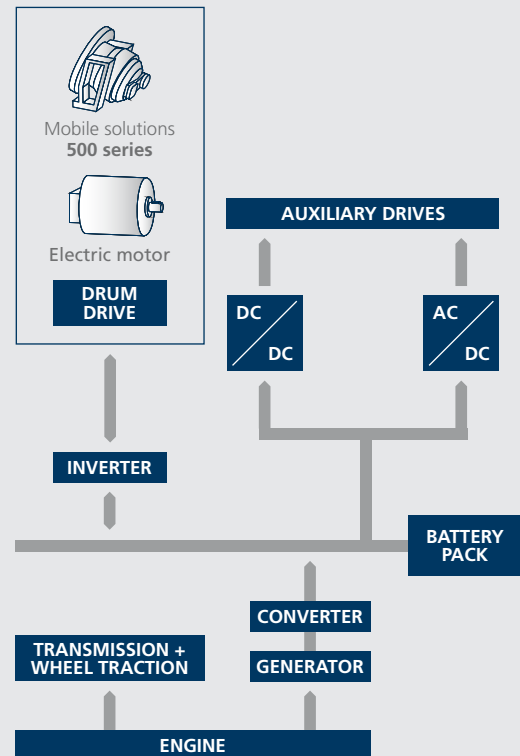
IP66

Cooling

Main: Liquid

Emergency: Air forced

Functional diagram



Wheel drives 600 series



Bonfiglioli 600 series represent the best solution when you are designing a wheeled for harvester or construction machine. With a compact design, high torque and load capacities, a negative multidisc parking brake and, an optional disengagement device to tow the vehicle in an emergency, these solutions perfectly match the application requirements.



Torque Range

3000 ... 85000 Nm

Gear Ratios

4.3 ... 153

Key Features

- Rotating housing flange with studs to fit wheels and drums
- Rugged design
- High torque capacity
- High load capacity
- Mechanical lifetime seals
- Compact design
- Optional mechanical gear disengagement on request

Applicable motors

- Cartridge axial piston hydraulic motors
- Flanged axial piston hydraulic motors
- Hydraulic orbit motors
- DC electric motors

Brake

Hydraulically released parking brake on request

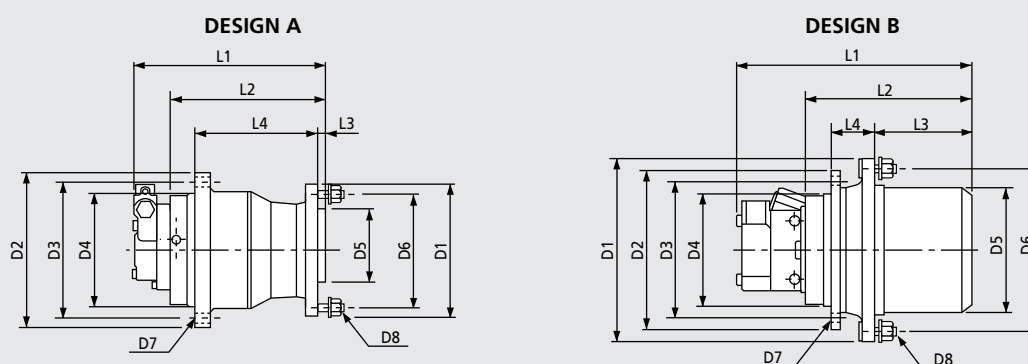
| Type | Torque (Nm) |
|-----------|-------------|
| 601 R1L | 3000 |
| 603 W2..H | 5000 |
| 603 W2V B | 7000 |
| 605 W2V.. | 10000 |
| 606 W..V | 17000 |
| 607 W2..B | 22000 |
| 609 W2..B | 30000 |
| 610 W..V | 36000 |
| 610 X | 40000 |
| 611 W..V | 45000 |
| 613 W..V | 60000 |
| 615 W..V | 85000 |



Overall dimensions and technical data

| TYPE | RANGE OF RATIOS | MAX. INPUT SPEED | HYDRAULIC MOTOR DRIVE ⁽¹⁾ | BRAKING TORQUE | MIN. OPENING PRESSURE | WEIGHT | DESIGN |
|-----------|-----------------|------------------|--------------------------------------|----------------|-----------------------|--------|--------|
| | 1: | | | Nm | bar | kg | |
| 601 R1 | 4.26 - 5.77 | 1000 | LS | 450 - 600 | 15 - 20 | 35 | A |
| 603 W2V H | 19.5 - 40.5 | 4000 | HS | 170 - 250 | 15 - 20 | 45 | B |
| 603 W2L H | 14 - 40.5 | 4000 | HS | 170 - 250 | 15 - 20 | 45 | A |
| 603 W2V B | 21.6 - 53 | 4000 | HS | 170 - 250 | 15 - 20 | 45 | B |
| 605 W2 H | 22.2 - 53 | 3500 | HS | 220 - 310 | 15 - 20 | 65 | B |
| 605 W2 B | 22.2 - 53 | 3500 | HS | 220 - 300 | 15 - 20 | 65 | B |
| 606 W2 | 19.7 - 43.8 | 3500 | HS | 400 - 500 | 15 - 20 | 110 | B |
| 606 W3 | 68 - 128.6 | 3500 | HS | 300 - 350 | 15 - 20 | 120 | B |
| 607 W2..B | 55-120 | 3000 | HS | 300 - 600 | 15 - 20 | 140 | B |
| 609 W2..B | 55-147 | 3000 | HS | 300 - 600 | 15 - 20 | 170 | B |
| 610 W..V | 55-123 | 3000 | HS | 300 - 800 | 15 - 20 | 200 | B |
| 610 X2 | 22.5-51.4 | 3000 | HS | 800 - 1200 | 15 - 20 | 200 | B |
| 611 W..V | 41-47 | 3000 | HS | 300 - 800 | 15 - 20 | 250 | B |
| 613 W..V | 108 | 3000 | HS | 300 - 800 | 15 - 20 | 250 | B |
| 615 W..V | 108 | 3000 | HS | 300 - 1000 | 15 - 20 | 350 | B |

(1) LS = Low speed motor / HS = High speed motor



| TYPE | D1 | D2 | D3 | D4 | D5 | D6 | D7 | D8 | L1 | L2 | L3 | L4 |
|-----------|-----|-----|-----|--------|--------|-------|--------------|-----------------|----------------------|-------|-----|-----|
| 601 R1L | 230 | 260 | 230 | 200 h8 | 152,4 | 203,2 | Ø15 n°8 | M14x1.5 n°8 | Depend on motor type | 245 | 10 | 195 |
| 603 W2V H | 280 | 270 | 230 | 190 f7 | 200 h8 | 241,3 | M16x2 n°8 | M18x1.5 n°9 | | 236 | 128 | 72 |
| 603 W2L H | 237 | 270 | 230 | 190 f7 | 160 | 205 | M16x2 n°8 | M18x1.5 n°6 | | 249.5 | 25 | 175 |
| 603 W2V B | 275 | 240 | 210 | 178 h8 | 200 h8 | 241,3 | M16x2 n°9 | M16x1.5 n°9 | | 249 | 108 | 106 |
| 605 W2 H | 300 | 270 | 230 | 190 f7 | 220 h8 | 260 | M16x2 n°8 | M16x1.5 n°8 | | 240 | 154 | 72 |
| 605 W2 B | 310 | 260 | 230 | 190 f7 | 220 h8 | 275 | M16x2 n°12 | M20x1.5 n°8 | | 218 | 136 | 72 |
| 606 W2 | 370 | 330 | 300 | 270 h8 | 280 h8 | 335 | M16x2 n°18 | M22x1.5 n°10 | | 270 | 155 | 115 |
| 606 W3 | 370 | 330 | 300 | 270 h8 | 280 h8 | 335 | M16x2 n°18 | M22x1.5 n°10 | | 315 | 200 | 115 |
| 607 W2..B | 400 | 317 | 285 | 240 | 300 | 355 | M20x2.5 n°20 | M18x1.5 n°20 | | 335 | 233 | 82 |
| 609 W2..B | 435 | 375 | 340 | 300 | 350 | 400 | M20x2.5 n°16 | M22x1.5 n°16 | | 350 | 243 | 91 |
| 610 W..V | 435 | 375 | 340 | 300 | 350 | 400 | M20x2.5 n°16 | M22x1.5 n°16 | | 350 | 243 | 91 |
| 610 X2 | 440 | 410 | 370 | 330 | 360 | 400 | M20x2.5 n°20 | M20x2.5 n°16 | | 383 | 268 | 90 |
| 611 W..V | 490 | 425 | 325 | 290 | 410 | 455 | M20x2.5 n°24 | M20x1.5 n°24 | | 375 | 242 | 110 |
| 613 W..V | 490 | 425 | 325 | 280 | 410 | 455 | M20x2.5 n°24 | 3/4-16 UNF n°24 | | 405 | 275 | 110 |
| 615 W..V | 550 | 500 | 460 | 420 | 460 | 510 | M20x2.5 n°24 | M20x1.5 n°24 | 470 | 320 | 130 | |

Wheel Drives with Integrated Service and Parking brakes.

600 series

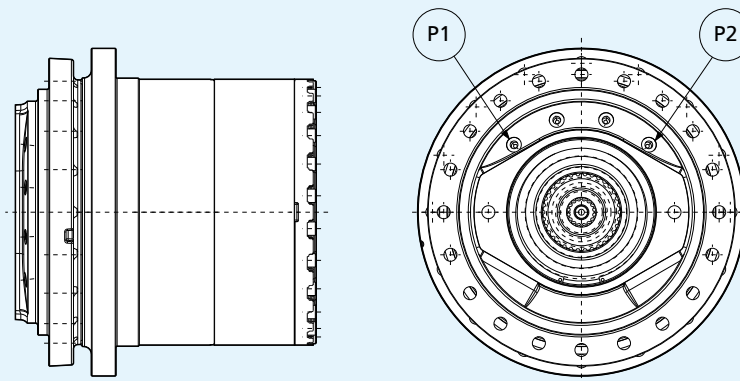
Wheel drives with integrated service and parking brakes

Typical applications

- Self-propelled sprayers
- Combine harvesters
- Potato, Carrot harvesters
- Forage harvesters

Features

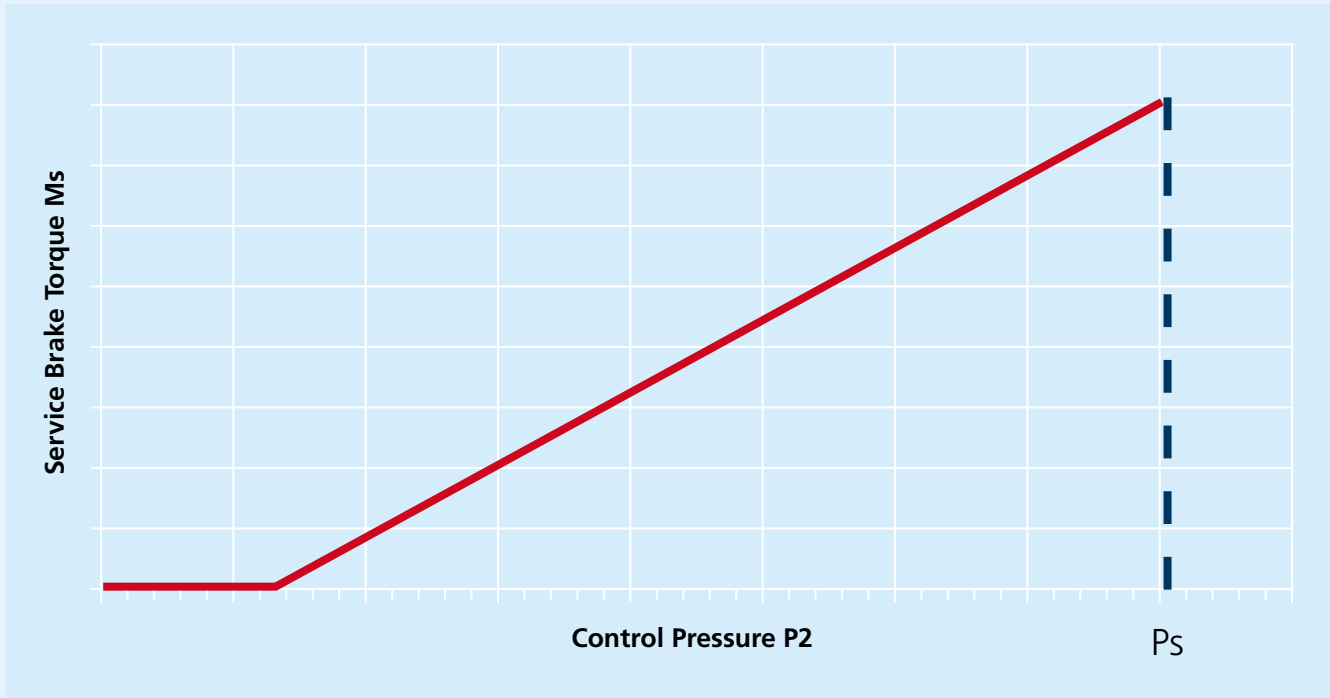
- Compact and modular design
- Compliant with international regulations for service, emergency and parking braking
- Improved modularity of service brake actuation
- Integrated oil immersed brake disc package
- Dedicated piston return system for optimized thermal performance (patent pending)
- Heavy duty discs to maximize thermal capacity for best energy dissipation, even under extreme conditions



P1: static brake port
P2: service brake port

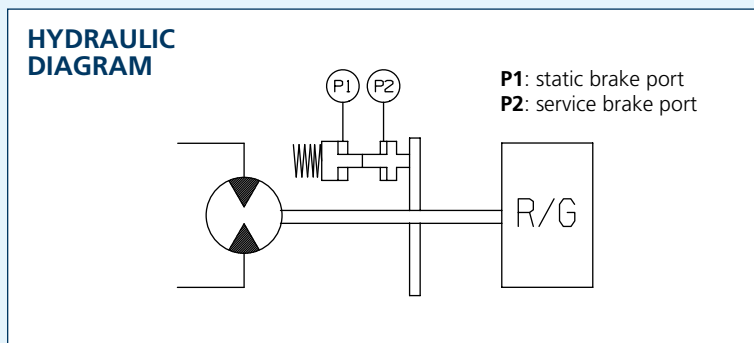
| ACTION | P1 PORT | P2 PORT |
|-----------------------|-----------------|--|
| Parking brake engaged | Not pressurized | Not pressurized |
| Travel | Pressurized | Not pressurized |
| Service braking | Pressurized | Pressurized (to modulate the braking torque) |

Service Brake Performance



| GEARBOX MODEL | SERVICE BRAKE | | PARKING BRAKE | |
|---------------|-----------------------|------------------------------------|-----------------------|----------------------------------|
| | Max torque (Ms) Nm | Max operating pressure (Ps) bar | Max torque (Mp) Nm | Min release pressure (Pr) bar |
| 605 W2 | 300 | 60 | 310 | 20 |
| 606 W2 | 350 | 90 | 650 | 20 |
| 607 W2 | 350 | 90 | 650 | 20 |
| 609 W2 | 450 | 90 | 800 | 20 |
| 610 X2 | 650 | 90 | 1200 | 20 |
| 611 W2 | 650 | 90 | 1200 | 20 |

The above data are for reference only. To be verified based on actual machine data.



Electric powertrains

600E series



Bonfiglioli's 600E planetary drives incorporate an integrated, maintenance-free electric motor and offer significant benefits in terms of compact dimensions, low noise and high efficiency. 600 Series drives are designed for use with all kinds of aerial platforms and other kinds of mobile machinery, for indoor and outdoor use.

This advanced powertrain solution uses a two or three stage gearbox offering reduction ratios of up to 1:145 to satisfy the widest possible range of needs. The gearbox is coupled to a low voltage induction motor (BT Series) specially developed for traction power and control applications.



Torque Range

900 ... 10000 Nm

Gear Ratios

20 ... 145

Key standard features

- Two or three stage planetary drive with reduction ratios of up to 1:145
- Optimised gear design for maximum efficiency and minimum noise
- Integrated, low voltage, 3 phase induction motor with inverter
- Integrated, high accuracy, KTY temperature sensor
- Integrated, high resolution, Hall effect speed sensor

Optional features available on request

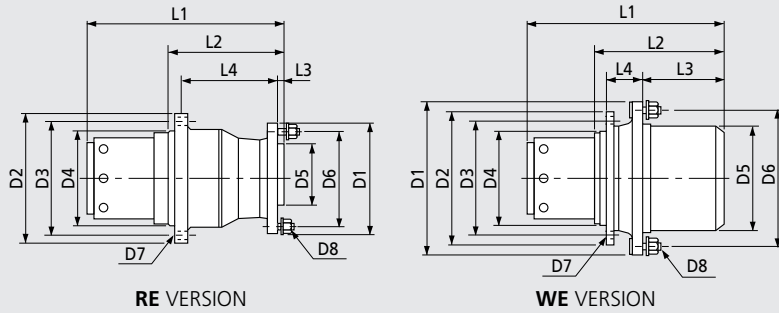
- Speed sensor-bearing
- Other types of temperature sensor
- Mechanical disengagement for towing, with no need to remove the wheel and without oil drop
- Parking brake (spring applied with hydraulic or electromagnetic release)

| Type | Max deliverable torque (Nm) |
|--------|-----------------------------|
| 600 WE | 900 |
| 601 RE | 3000 |
| 602 RE | 3500 |
| 602 WE | 4500 |
| 604 WE | 7000 |
| 605 WE | 10000 |

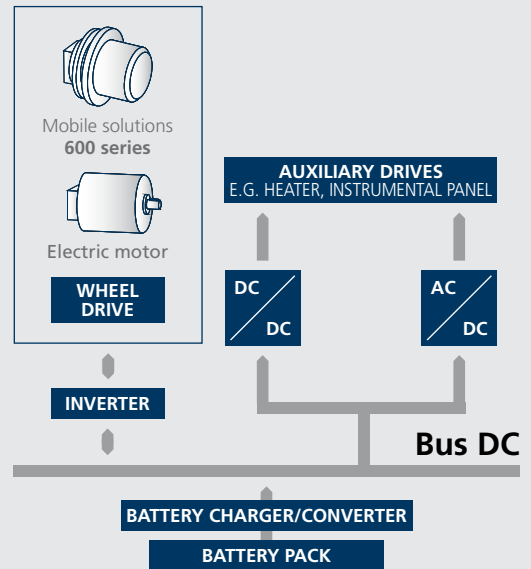


Overall dimensions and technical data

| TYPE | RATIOS | MAX INPUT SPEED | WEIGHT | OIL QUANTITY | AC ELECTRIC MOTOR - SIZE | | | | PARKING BRAKE | | MACHINE TON CLASS |
|--------|-------------|-----------------|--------|--------------|--------------------------|-------|-------|-------|-----------------|-----------|-------------------|
| | | | | | BT135 | BT150 | BT170 | BT200 | Electromagnetic | Hydraulic | |
| | 1: | rpm | kg | L | | | | | | | ton |
| 600 WE | 48- 58.7 | 6000 | 35 | 0.5 | • | • | | | • | | 3 |
| 601 RE | 20.1 - 51.8 | 4000 | 40 | 0.8 | | • | • | | • | • | 6 |
| 602 RE | 20.3 - 30.6 | 6000 | 53 | 0.7 | | • | • | | • | • | 9 |
| 602 WE | 20 - 145 | 6000 | 45 | 0.5 | | • | • | | • | • | 9 |
| 604 WE | 22.2 -53 | 5000 | 65 | 1.1 | | | • | • | • | • | 13 |
| 605 WE | 22.2 - 53 | 5000 | 65 | 1.1 | | | • | • | | • | 16 |



Functional diagram



| TYPE | BT 135- | | | BT 150- | | | BT 170- | | | BT 200- | | |
|------------------------------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|
| | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 |
| P _n (S2 60') (kW) | 0.9 | 1.6 | 2.3 | 1.5 | 2.5 | 3.4 | 2.4 | 4.3 | 5.4 | 3.1 | 6.2 | 9.1 |
| T _n (Nm) | 3 | 5.6 | 8.5 | 4.8 | 9.1 | 12.5 | 7.7 | 14 | 22 | 10 | 20 | 29.5 |
| V _{batt} (V) | 24 | 24 | 24 | 24 | 24 | 24 | 48 | 48 | 48 | 80 | 80 | 80 |
| I _n (A) | 55 | 95 | 128 | 80 | 130 | 175 | 67 | 110 | 143 | 53 | 98 | 137 |
| n (rpm) | 2930 | 2927 | 2632 | 2894 | 2617 | 2610 | 2945 | 2952 | 2357 | 2957 | 2963 | 2958 |
| cosφ | 0.77 | 0.8 | 0.81 | 0.85 | 0.86 | 0.87 | 0.77 | 0.83 | 0.8 | 0.77 | 0.8 | 0.84 |
| η (%) | 86.9 | 89.5 | 90.0 | 85.5 | 88.7 | 89.2 | 88.3 | 89.6 | 91.3 | 88.8 | 91.6 | 92.5 |

| TYPE | L1 | | | | | | L2 | L3 | L4 | D1 | D2 | D3 | D4 | D5 | D6 | D7 | D8 | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|--------|--------|-----|--------|---------|-------------|-------------|
| | 275 | 325 | 375 | 290 | 340 | 390 | | | | | | | | | | | | | | | | |
| 600 WE | | | | | | | | | | 134 | 39 | 89 | 240 | 207.5 | 190.5 | 171.45 | 184.15 | 216 | M8 n°6 | M12 n°9 | | |
| 601 RE | | | | | 453 | 503 | 412 | 462 | | | 247 | 12 | 200 | 189 | 265 | 245 | 225 | 110 | 160 | Ø13 n°8 | M14x1.5 n°8 | |
| 602 RE | | | | | | 524 | 434 | 484 | 534 | | | 269 | 15 | 193 | 210 | 295 | 265 | 235 | 130 | 170 | M16 n°8 | M18 n°6 |
| 602 WE | | | | | | 455 | 375 | 425 | 475 | | | 210.5 | 104.5 | 88 | 260 | 271 | 248 | 220 | 200 | 230 | Ø15 n°12 | M14 n°9 |
| 604 WE | | | | | | | | 464 | 514 | 446 | 496 | | | | | | | | | | M16x2 n°12 | M20x1.5 n°8 |
| 605 WE | | | | | | | | 524 | 456 | 506 | 556 | | | | | | | | | | M16x2 n°12 | M20x1.5 n°8 |

| TYPE | MACHINE WEIGHT (TON) | | | | | | | | | | | | | | | | |
|--------|----------------------|---|--------------|---|--------------|---|---|---|---|--------------|----|----|----|----|------------|----|----|
| | 0.5 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 600 WE | 0.9 ... 2 kW | | | | | | | | | | | | | | | | |
| 601 RE | | | 1.5 ... 3 kW | | | | | | | | | | | | | | |
| 602 RE | | | | | 3 ... 4 kW | | | | | | | | | | | | |
| 602 WE | | | | | 2 ... 4.5 kW | | | | | | | | | | | | |
| 604 WE | | | | | | | | | | 4.5 ... 6 kW | | | | | | | |
| 605 WE | | | | | | | | | | | | | | | 6 ... 9 kW | | |

| | | | | | | | | | | | | | | | | | |
|---------------------------------------|-----|-----|----|------|------|----|----|----|----|----|------|----|----|----|----|----|----|
| Vertical booms | | | | | | | | | | | | | | | | | |
| Height (m) | 5 | 6.5 | 8 | 10 | | | | | | | | | | | | | |
| Scissors lift | | | | | | | | | | | | | | | | | |
| Height (m) | 6.5 | 7.5 | 10 | 11.5 | 12.5 | 14 | 15 | 18 | | | | | | | | | |
| Telescopic / Articulated booms | | | | | | | | | | | | | | | | | |
| Height (m) | | | | | | 11 | 12 | 14 | 15 | 16 | 17.5 | 19 | 20 | 21 | 25 | 26 | 27 |

Electric powertrains 600W with BPD[®] electric motor



Bonfiglioli's 600W planetary wheel drives can be coupled to a high-power density electric motor, instead of a conventional hydraulic motor.

This complete mechatronic solution is designed for a high voltage hybrid powertrain system and was originally conceived for self-propelled crop sprayers.

Using this solution can deliver many advantages, and it assures interesting benefits both to the machine manufacturer and to the end user.



Applications

- Sprayers
- Self-propelled harvesters

Advantages for OEM

- Possibility of downsizing and downspeeding combustion engines
- Ease of installation: electric solution dimensions comparable to standard hydrostatics
- Higher system reliability: fewer mechanical parts
- Virtually maintenance-free electric motors
- From wheel bolt to electric wire with only one supplier

Advantages for final user

- Reduction of fuel consumption
- Increase of productivity
- Better machine manoeuvrability
- The electric solution is cleaner: lower risk of oil spills

| Type | Output torque (Nm) |
|------------|--------------------|
| 605 W..V.. | 10000 |
| 606 W..V | 17000 |
| 607 W..V | 22000 |
| 609 W..V | 30000 |
| 610 W..V | 36000 |
| 610 X | 40000 |
| 611 W..V | 45000 |
| 613 W..V | 60000 |



Motor data

Technology

BPD® Hairpin Stator Winding

DC bus operating voltage

400 - 700 V_{DC}

Max power output

25 - 85 kW

Max torque output

200 - 400 Nm

Max operating speed

8000 rpm

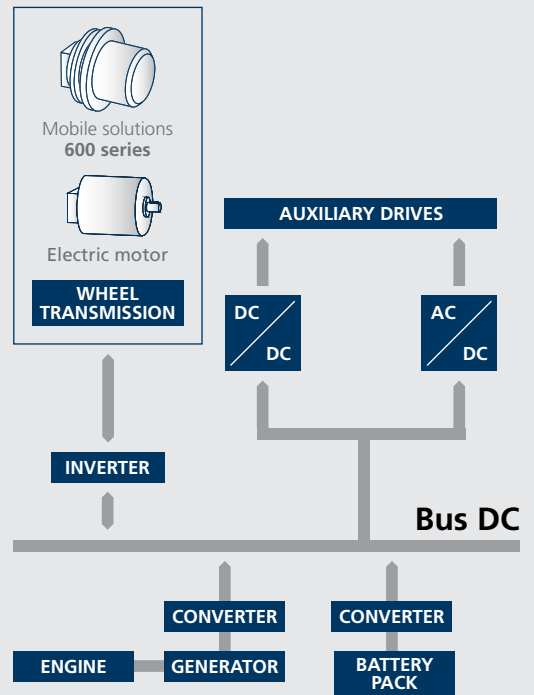
Max efficiency

95.6 %

Cooling

PGW 50/50 or oil

Functional diagram



Electric powertrains

600F series



Bonfiglioli supplies high-efficiency, low-noise planetary axles and drives with integrated high performance electric motors and low maintenance braking systems for Class 1 material handling vehicles. Typical applications include 3 and 4 wheel counterbalance lift trucks and ground support equipment.

Bonfiglioli electric powertrains are fully tested in the factory and guarantee reduced energy consumption. This, in turn, means longer battery operating times, extended service intervals and a lower cost of ownership.

Bonfiglioli's 600F Series drives are complemented by a range of idle steering systems based on axles or steering units, depending on the number of wheels on the vehicle.



Applications

- Material handling vehicles (CB forklifts, articulated forklifts, airport equipment) for indoor and outdoor use.
- CB trucks with lift capacity from 1.6 to 9.0 tons
- GSE vehicles with draw bar pull from 6000 to 25000 kg

Standard features

- Dual planetary gearbox
- Optimised gear design for maximum efficiency and minimum noise
- Wet disc service brake with low displacement actuation
- Parking brake with mechanical lever actuation
- Integrated, customised mast support
- Integrated AC traction motor in IP20 or IP43 protection ratings
- Integrated, high accuracy, silicon based KTY temperature sensor
- Integrated, high resolution hall effect speed sensor

Optional features available on request

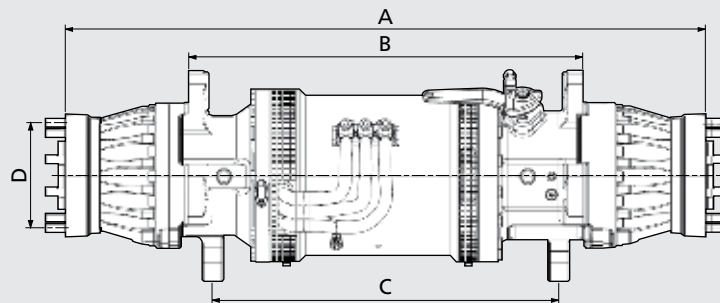
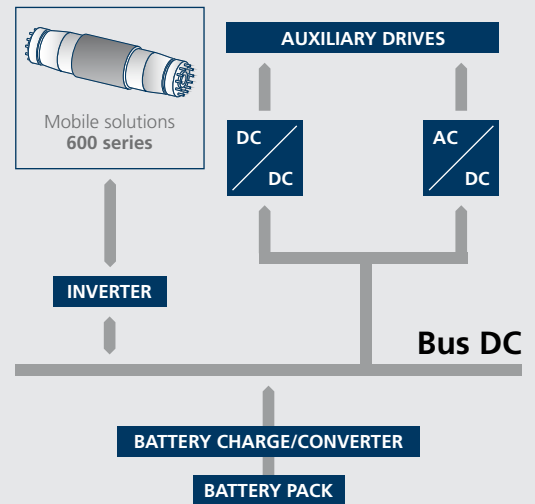
- Spring-applied hydraulic release parking brake
- Mechanical disengagement for towing, with no need to remove the wheel and without oil drop

| Type | Max deliverable torque (Nm) |
|-------|-----------------------------|
| 601 F | 3000 |
| 602 F | 5500 |
| 603 F | 7000 |
| 605 W | 18000 |



| TYPE | MAX INPUT SPEED | RATED MOTOR POWER | TYPICAL WHEEL SIZE | LIFT CAPACITY |
|-------|-------------------|-------------------|--------------------|---------------|
| | min ⁻¹ | kW, S2-60' | inches | KG |
| 601 F | 5500 | 2x4.5 | 18 | 2000 |
| 602 F | 5500 | 18 | 23 | 3500 |
| 603 F | 4500 | 26 | 28 | 5000 |
| 605 W | 4500 | 2x14 | 35 | 9000 |

Functional diagram

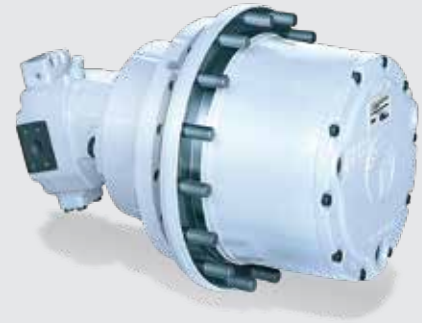


| TYPE | A | B | C | D |
|-------|------------------|----------------|---------------|----------------|
| | Flange to flange | Frame mounting | Mast mounting | Wheel stud PCD |
| 601 F | 1015 | 610 | 630 | 120 |
| 602 F | 1090 | 640 | 600 | 170 |
| 603 F | 1150 | 670 | 620 | 225 |
| 605 W | 1440 | 1200 | - | 275 |

Wheel drives 600W2/3 series



This gear shift final drive is specifically designed for wheeled and tracked machines featuring a significantly different travel/operating speed ratio.
The product is the ideal solution for road paving machines, construction equipment, as well as agricultural and forestry machines.



Torque Range

15000 ... 50000 Nm

Gear Ratios

LO speed: 71 87 85 104 141,3
HI speed: 20.5 20.5 24.5 24.5 24.5

Key Features

- Dual gear ratio, hydraulic Lo-Hi speed shifting
- Rotating housing
- Rugged design
- High torque capacity
- High load capacity
- Mechanical lifetime seals
- Compact design
- Hydraulically operated multidisc clutches, allowing both speed shifting and brake

Applicable motors

Cartridge axial piston hydraulic motors

Brake

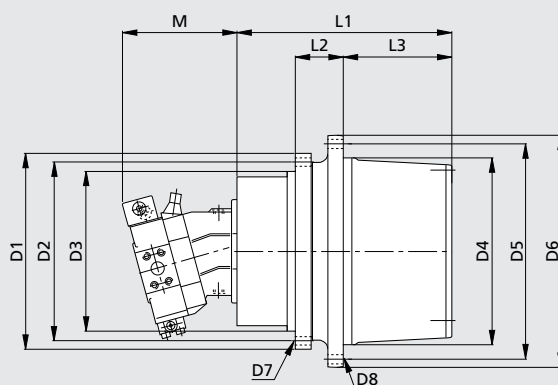
- Hydraulically released multidisc type
- Parking braking
- Emergency braking

| Type | Torque [Nm] | |
|---------|-------------|-------|
| 606W2/3 | 15000 | |
| 610W2/3 | | 40000 |
| 611W2/3 | | 50000 |



Overall dimensions and technical data

| TYPE | MAX. INPUT SPEED | MAX. OUTPUT SPEED | DYNAMIC & EMERGENCY BRAKING TORQUE | BRAKING TORQUE | BRAKE & CLUTCH RELEASE PRESSURE | WEIGHT | OIL QUANTITY |
|---------|------------------|-------------------|------------------------------------|----------------|---------------------------------|--------|--------------|
| | rpm | rpm | Nm | Nm | bar | kg | L |
| 606W2/3 | 3500 | 140 | 20000 | 400 | 20 ÷ 40 | 180 | 2.5 |
| 610W2/3 | 3000 | 120 | 30000 | 550 | 20 ÷ 40 | 200 | 3 |
| 611W2/3 | 3000 | 100 | 55000 | 600 | 20 ÷ 40 | 270 | 5 |



| TYPE | D1 | D2 | D3 | D4 | D5 | D6 | D7 | D8 | L1 | L2 | L3 |
|---------|-----|-----|-----|-----|-----|-----|--------------|--------------|-----|-----|-----|
| 606W2/3 | 430 | 360 | 300 | 290 | 335 | 370 | M16x2 n°16 | M22x1.5 n°10 | 305 | 188 | 135 |
| 610W2/3 | 375 | 340 | 300 | 350 | 400 | 435 | M20x2.5 n°16 | M20x2.5 n°16 | 388 | 91 | 203 |
| 611W2/3 | 570 | 525 | 465 | 410 | 455 | 488 | ø22 n°12 | M22x1.5 n°20 | 366 | 113 | 219 |

Travel drives 700C series



Bonfiglioli 700C series are perfectly suitable with any crawler and milling machines. Thanks to specific features such as its compact and rugged design, high torque and load capabilities and, the possibility to get a mechanical lifetime seals, these solutions represents the best possible option for the machine.

All units are available with a failsafe parking brake and for most cartridge type fixed or variable.



Torque Range

1000 ... 625000 Nm

Gear Ratios

5.3 ... 492

Key Features

- Rotating housing
- Rugged design
- High torque capacity
- High load capacity
- Mechanical lifetime seals
- Compact design

Applicable hydraulic motors

- Cartridge axial piston motors
- Flanged axial piston motors
- Orbit motors

Brake

Hydraulically released parking brake on request

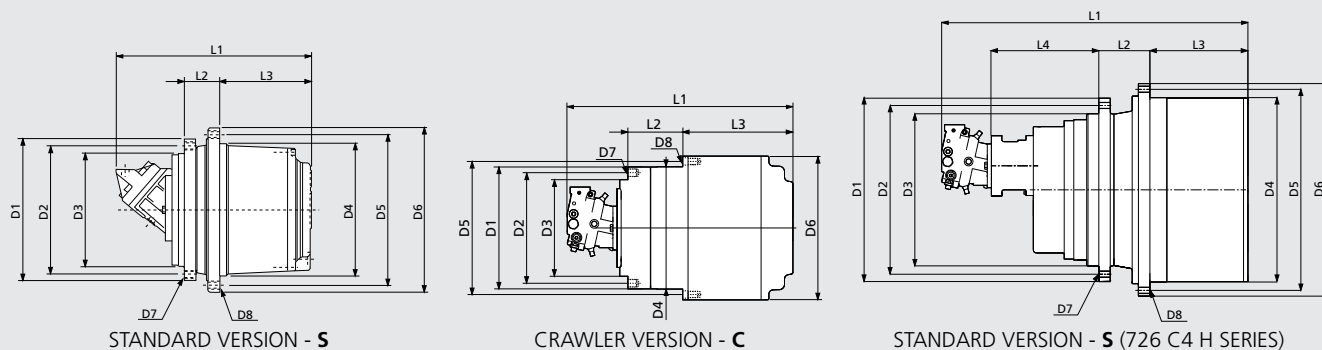
| Type | Torque (Nm) |
|----------|-------------|
| 700 C1 H | 1000 |
| 701 C1 | 2200 |
| 703 C2 H | 4000 |
| 705 C2 H | 10000 |
| 706 C3 B | 18000 |
| 707 C3 B | 26000 |
| 709 C3 B | 30000 |
| 710 C3 B | 36000 |
| 711 C3 B | 45000 |
| 713 C3 B | 60000 |
| 715 C3 B | 85000 |
| 716 C3 B | 100000 |
| 717 C3 H | 130000 |
| 718 C3 H | 180000 |
| 720 C3 H | 220000 |
| 722 C3 H | 330000 |
| 724 C4 H | 450000 |
| 726 C4 H | 625000 |



Overall dimensions and technical data

| TYPE | RANGE OF RATIOS | MAX. INPUT SPEED | HYDRAULIC MOTOR DRIVE | BRAKING TORQUE | MIN. OPENING PRESSURE | WEIGHT |
|----------|-----------------|------------------|-----------------------|----------------|-----------------------|--------|
| | 1: | RPM | Inline | Right angle | | |
| 700 C1 H | 5.25 | 1000 | LS | 140 - 250 | 15 - 25 | 20 |
| 701 C1 | 6.2 | 1000 | LS | 250 - 350 | 20 - 30 | 25 |
| 703 C2 H | 19-40 | 3500 | HS | 210 | 18 | 42 |
| 705 C2 H | 22-53 | 3500 | HS | 220 - 310 | 10 - 20 | 60 |
| 706 C3 B | 68-173 | 3500 | HS | 250 - 500 | 10 - 20 | 95 |
| 707 C3 B | 55-120 | 3500 | HS | 250 - 500 | 10 - 20 | 135 |
| 709 C3 B | 55-147 | 3500 | HS | 250 - 600 | 10 - 20 | 180 |
| 710 C3 B | 55-166 | 3500 | HS | 250 - 600 | 10 - 20 | 200 |
| 711 C3 B | 71-163 | 3500 | HS | 400 - 800 | 10 - 20 | 270 |
| 713 C3 B | 56-147 | 3000 | HS | 400 - 800 | 10 - 20 | 310 |
| 715 C3 B | 62-156 | 3000 | HS | 600 - 1000 | 10 - 20 | 350 |
| 716 C3 B | 83-174 | 3000 | HS | 800 - 1200 | 10 - 20 | 400 |
| 717 C3 H | 92-211 | 3000 | HS | 800 - 1200 | 10 - 20 | 630 |
| 718 C3 H | 87-263 | 3000 | HS | 800 - 1400 | 10 - 20 | 750 |
| 720 C3 H | 175-287 | 3000 | HS | 800 - 1700 | 10 - 20 | 820 |
| 722 C3 H | 296-492 | 3000 | HS | 1500 - 2500 | 15 - 30 | 1300 |
| 724 C4 H | 350 - 428 | 3000 | HS | 1500 - 2500 | 15 - 30 | 1300 |
| 726 C4 H | 248-282-330 | 3000 | HS | 2 x 1200 | 27 | 2800 |

(1) **LS** = Low speed motor / **HS** = High speed motor



| TYPE | D1 | D2 | D3 | D4 | D5 | D6 | D7 | D8 | L1 | L2 | L3 | L4 | VERSION |
|----------|-----|-----|-----|-----|-----|------|--------------|--------------|----------------------|-----|-----|-----|---------|
| 700 C1 H | 195 | 175 | 155 | 160 | 180 | 200 | M10x1.5 n°8 | M10x1.5 n°8 | Depend on motor type | 40 | 80 | - | S |
| 701 C1 | 230 | 200 | 180 | 190 | 210 | 230 | M10x1.5 n°8 | M10x1.5 n°8 | | 40 | 105 | - | S |
| 703 C2 H | 270 | 230 | 190 | 200 | 240 | 280 | M16x2 n°8 | M20x1.5 n°8 | | 72 | 128 | - | S |
| 705 C2 H | 270 | 230 | 190 | 220 | 260 | 300 | M16x2 n°12 | M16x2 n°16 | | 72 | 158 | - | S |
| 706 C3 B | 330 | 300 | 270 | 280 | 330 | 370 | M16x2 n°18 | M16x2 n°18 | | 115 | 190 | - | S |
| 707 C3 B | 317 | 285 | 240 | 300 | 340 | 370 | M20x2.5 n°20 | M16x2 n°20 | | 82 | 233 | - | S |
| 709 C3 B | 375 | 340 | 300 | 330 | 370 | 400 | M20x2.5 n°16 | M16x2 n°30 | | 91 | 243 | - | S |
| 710 C3 B | 375 | 340 | 300 | 350 | 400 | 435 | M20x2.5 n°16 | M20x2.5 n°16 | | 91 | 243 | - | S |
| 711 C3 B | 425 | 325 | 290 | 410 | 455 | 490 | M20x2.5 n°24 | M20x2.5 n°24 | | 110 | 265 | - | S |
| 713 C3 B | 425 | 325 | 290 | 410 | 455 | 490 | M20x2.5 n°24 | M20x2.5 n°24 | | 110 | 280 | - | S |
| 715 C3 B | 500 | 460 | 420 | 460 | 510 | 550 | M20x2.5 n°24 | M20x2.5 n°24 | | 130 | 315 | - | S |
| 716 C3 B | 500 | 460 | 420 | 460 | 500 | 550 | M24x3 n°24 | M18x1.5 n°36 | | 165 | 308 | - | S |
| 717 C3 H | 570 | 510 | 450 | 560 | 610 | 660 | M30x3.5 n°20 | M24x3 n°24 | | 170 | 350 | - | S |
| 718 C3 H | 570 | 510 | 450 | 576 | 626 | 670 | M24x3 n°30 | M24x3 n°20 | | 170 | 350 | - | S |
| 720 C3 H | 650 | 600 | 460 | 610 | 680 | 735 | M30x3.5 n°30 | M30x3.5 n°24 | | 170 | 370 | - | S; C |
| 722 C3 H | 735 | 680 | 580 | 660 | 730 | 785 | M30x3.5 n°30 | M30x3.5 n°30 | | 188 | 430 | - | S |
| 724 C4 H | 568 | 515 | 450 | 570 | 620 | 670 | M36x1.5 n°29 | M30x1.5 n°42 | | 255 | 513 | - | S; C |
| 726 C4 H | 880 | 810 | 730 | 885 | 965 | 1020 | M30x2 n°41 | M30x2 n°48 | | 245 | 470 | 515 | S; C |

Track drive gearmotors

700CK series



Extreme compactness, lightweight, efficiency and smooth operation are the key features of the 700CK series track drives, powered by integrated axial piston hydraulic motors, developed in cooperation with Kayaba.
Available for machines in the 1.5 to 120 tons class range.



Torque Range

1200 ... 220000 Nm

Machine weight

1.5 up 120 tons

Gear Ratios

20 ... 120

Key Features

- Rotating output flange with large PCD suitable for sprocket
- Rugged design
- High torque capacity
- High load capacity
- Mechanical lifetime seals
- Compact design

Hydraulic motors

Kayaba hydraulic motors, fixed and dual displacement, complete with counterbalance valve.

Motor options

Pressure relief valves, shockless type
Anticavitation valve

Brake

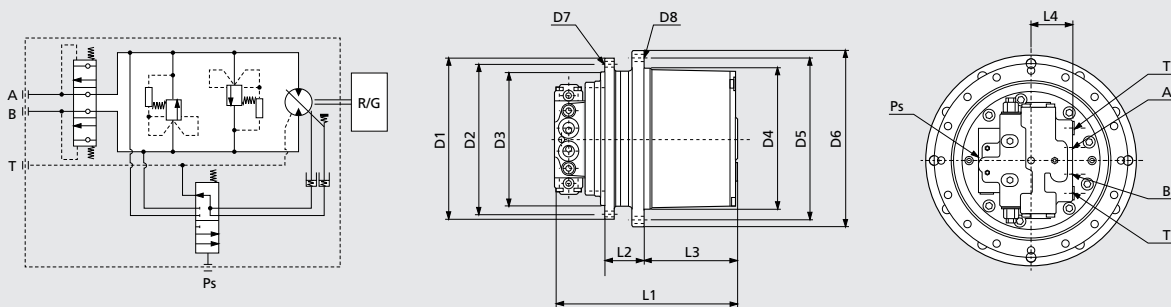
Hydraulically released failsafe parking brake automatically operated by main pressure

| Type | Torque (Nm) |
|-----------|-------------|
| 700 C2 K | 1200 |
| 700-2C2 K | 1900 |
| 701 C2 K | 2500 |
| 702 C2 K | 3500 |
| 704 C2 K | 5000 |
| 705 C2 K | 9000 |
| 706 C3 K | 18000 |
| 707 C3 K | 26000 |
| 709 C3 K | 30000 |
| 710 C3 K | 36000 |
| 713 C2 K | 45000 |
| 713 C3 K | 60000 |
| 715 C3 K | 85000 |
| 716 C3 K | 100000 |
| 718 C3 K | 180000 |
| 720 C3 K | 220000 |



Overall dimensions and technical data

| TYPE | MOTOR DISPLACEMENT | MAX. PRESSURE | MAX. FLOW | 2 SPEED CONTROL MIN. PRESSURE | PARKING BRAKE TORQUE | RANGE OF RATIOS | WEIGHT | APPROX. WEIGHT OF MACHINE |
|-----------|--------------------|---------------|-----------|-------------------------------|----------------------|-----------------|--------|---------------------------|
| | max/min | bar | l/min | bar | Nm | 1: | Kg | ton |
| 700 C2 K | 12-5.5 | 210 | 20 | 6 | 25 | 32-41 | 20 | 1.6 |
| 700-2C2 K | 18-9 | 210 | 30 | 6 | 25 | 30-42 | 25 | 2 |
| 701 C2 K | 18-11.6 | 250 | 35 | 6 | 25 | 30-53 | 25 | 3 |
| 702 C2 K | 26.3-13.4 | 250 | 45 | 6 | 40 | 37-53 | 35 | 4 |
| 704 C2 K | 33.8-19 | 250 | 60 | 6 | 40 | 45-53 | 60 | 5.5 |
| 705 C2 K | 50.9-25.4 | 320 | 92 | 6 | 50 | 24-53 | 70 | 7 |
| 706 C3 K | 50-25 | 300 | 75 | 6 | 50 | 68-128 | 80 | 8-10 |
| 707 C3 K | 87-50 | 300 | 120 | 10 | 240 | 46-109 | 140 | 10-12 |
| 709 C3 K | 87-50 | 300 | 160 | 10 | 400 | 53-123 | 225 | 13-20 |
| 710 C3 K | 170-96 | 300 | 240 | 10 | 400 | 49-69 | 230 | 20-25 |
| 713 C2 K | 170-96 | 300 | 230 | 10 | 400 | 55 | 280 | 25-29 |
| 713 C3 K | 230-120 | 345 | 310 | 10 | 400 | 60-75 | 300 | 29-37 |
| 715 C3 K | 230-340 | 345 | 370 | 10 | 400 | 62-82 | 380 | 37-50 |
| 716 C3 K | 340 | 345 | 420 | 10 | 2000 | 75 | 500 | 50-60 |
| 718 C3 K | 340 | 345 | 500 | 10 | 2000 | 85-106 | 850 | 60-80 |
| 720 C3 K | 340 | 345 | 500 | 10 | 2000 | 120 | 1000 | up to 120 |



| TYPE | D1 | D2 | D3 | D4 | D5 | D6 | D7 | D8 | L1 | L2 | L3 | L4 | A-B | T | PS |
|-----------|-----|-----|-----|-----|-----|-----|--------------|--------------|-----|------|-----|-----|------|------|------|
| 700 C2 K | 175 | 155 | 140 | 140 | 155 | 175 | M10x1.5 n°8 | M10x1.5 n°8 | 202 | 45 | 93 | 40 | 1/4" | 1/4" | 1/4" |
| 700-2C2 K | 190 | 170 | 150 | 160 | 180 | 200 | M10x1.5 n°8 | M10x1.5 n°8 | 223 | 40 | 108 | 39 | 3/8" | 1/4" | 1/4" |
| 701 C2 K | 215 | 192 | 165 | 190 | 215 | 240 | M12x1.75 n°9 | M12x1.75 n°9 | 300 | 50 | 125 | 45 | 1/2" | 1/4" | 1/4" |
| 702 C2 K | 215 | 192 | 165 | 204 | 232 | 255 | M12x1.75 n°9 | M12x1.75 n°9 | 285 | 70 | 115 | 45 | 1/2" | 1/4" | 1/4" |
| 704 C2 K | 264 | 240 | 200 | 230 | 262 | 286 | M14x2 n°9 | M14x2 n°9 | 345 | 68 | 167 | 46 | 1/2" | 3/8" | 1/4" |
| 705 C2 K | 268 | 244 | 210 | 230 | 260 | 286 | M14x2 n°12 | M14x2 n°12 | 340 | 75 | 144 | 50 | 1/2" | 3/8" | 1/4" |
| 706 C3 K | 308 | 280 | 246 | 280 | 330 | 370 | M16x2 n°20 | M16x2 n°12 | 412 | 100 | 193 | 50 | 1/2" | 3/8" | 1/4" |
| 707 C3 K | 350 | 320 | 280 | 300 | 340 | 370 | M16x2 n°16 | M16x2 n°20 | 440 | 91 | 210 | 84 | 3/4" | 1/2" | 1/4" |
| 709 C3 K | 375 | 340 | 300 | 330 | 370 | 400 | M16x2 n°30 | M16x2 n°30 | 470 | 99,5 | 246 | 84 | 3/4" | 1/2" | 1/4" |
| 710 C3 K | 375 | 340 | 300 | 350 | 400 | 435 | M16x2 n°30 | M16x2 n°30 | 455 | 91 | 243 | 84 | 3/4" | 1/2" | 1/4" |
| 713 C2 K | 450 | 410 | 360 | 410 | 455 | 490 | M24x3 n°18 | M20x2.5 n°22 | 500 | 106 | 265 | 84 | 3/4" | 1/2" | 1/4" |
| 713 C3 K | 480 | 440 | 380 | 410 | 455 | 490 | M24x3 n°18 | M20x2.5 n°24 | 570 | 100 | 287 | 90 | 1" | 1/2" | 1/4" |
| 715 C3 K | 500 | 460 | 420 | 460 | 510 | 550 | M20x2.5 n°24 | M20x2.5 n°24 | 605 | 130 | 315 | 90 | 1" | 1/2" | 1/4" |
| 716 C3 K | 500 | 460 | 420 | 460 | 500 | 548 | M24x3 n°24 | M18x1.5 n°36 | 663 | 165 | 308 | 118 | 1" | 3/4" | 1/4" |
| 718 C3 K | 570 | 510 | 450 | 576 | 626 | 670 | M24x3 n°30 | M24x3 n°30 | 730 | 170 | 350 | 118 | 1" | 3/4" | 1/4" |
| 720 C3 K | 650 | 600 | 480 | 610 | 680 | 735 | M30x3.5 n°30 | M24x3.5 n°24 | 800 | 170 | 370 | 118 | 1" | 3/4" | 1/4" |

Track drive gearmotors

700CP series



Extreme compactness, lightweight, efficiency and smooth operation are the key features of the 700CP series track drives, powered by integrated axial piston hydraulic motors, developed in cooperation with Poclain hydraulics.



Torque Range

1200 ... 5000 Nm

Machine weight

1 up to 6 tons

Gear Ratios

18.5 ... 57.5

Key Features

- Rotating output flange with large PCD suitable for sprocket
- Rugged design
- High torque capacity
- High load capacity
- Mechanical lifetime seals
- Compact design

Hydraulic motors

Fixed and dual displacement, complete with counterbalance valve.

Motor options

Pressure relief valves, shockless type
Anticavitation valve

Brake

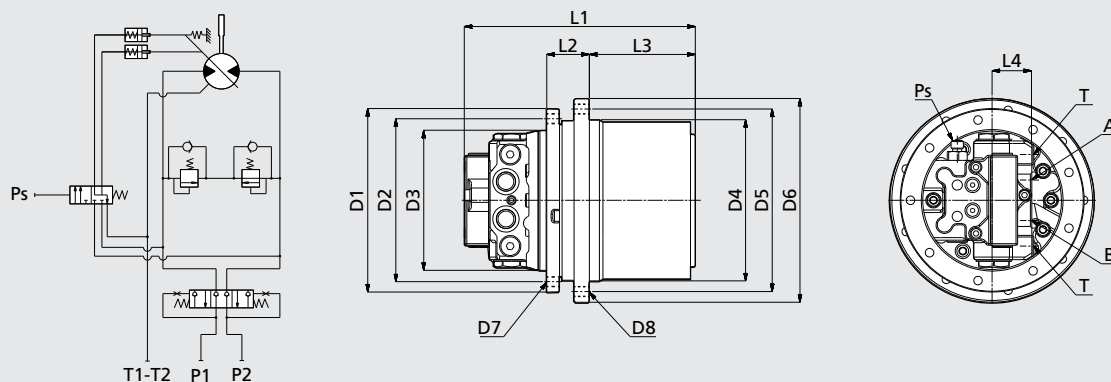
Hydraulically released failsafe parking brake automatically operated by main pressure

| Type | Output torque (Nm) |
|------------|--------------------|
| 700 C2 P | 1200 |
| 700-2 C2 P | 1900 |
| 701 C2 P | 2500 |
| 702 C2 P | 3500 |
| 704 C2 P | 5000 |



Overall dimensions and technical data

| TYPE | RATIOS | MOTOR DISPLACEMENT min/max | MAX. PRESSURE | MAX. OIL FLOW | WEIGHT | APPROX. WEIGHT OF MACHINE |
|------------|-------------|-------------------------------|---------------|---------------|--------|---------------------------|
| | 1: | cc/rev | bar | l/min | kg | ton |
| 700 C2 P | 18.5 - 26.5 | 14.7 / 7.7 | 215 | 25 | 18 | up to 1.5 |
| 700-2 C2 P | 18.9 - 36.8 | 17.85 / 7.7 | 230 | 30 | 24 | 1.5 ÷ 2 |
| 701 C2 P | 31.1 - 57.5 | 17.85 / 7.8 | 250 | 35 | 36 | 2 ÷ 3 |
| 702 C2 P | 31.1 - 57.5 | 29.0 / 11.8 | 275 | 50 | 41 | 3 ÷ 4 |
| 704 C2 P | 30 - 55 | 36.4 / 16.7 | 275 | 65 | 60 | 4 ÷ 6 |



| TYPE | D1 | D2 | D3 | D4 | D5 | D6 | D7 | D8 | L1 | L2 | L3 | L4 | A-B | T | Ps |
|------------|-----|-----|-----|-----|-----|-----|----------------|----------------|-----|----|-----|----|-----|---|----|
| 700 C2 P | 175 | 155 | 140 | 140 | 155 | 175 | M10x1.5 no.8 | M10x1.5 no. 9 | 220 | 45 | 138 | * | * | * | * |
| 700-2 C2 P | 195 | 175 | 155 | 160 | 180 | 200 | M10x1.5 no.8 | M10x1.5 no.8 | 250 | 40 | 108 | * | * | * | * |
| 701 C2 P M | 215 | 192 | 165 | 204 | 232 | 255 | M12x1.75 no. 9 | M12x1.75 no. 9 | 277 | 66 | 119 | * | * | * | * |
| 701 C2 P K | 215 | 192 | 165 | 190 | 215 | 239 | M12x1.75 no. 9 | M12x1.75 no. 9 | 277 | 50 | 119 | * | * | * | * |
| 702 C2 P | 215 | 192 | 165 | 204 | 232 | 255 | M12x1.75 no. 9 | M12x1.75 no. 9 | 304 | 70 | 119 | * | * | * | * |
| 704 C2 P | 264 | 240 | 200 | 230 | 262 | 286 | M14x1.75 no.12 | M14x1.75 no.12 | 335 | 68 | 139 | * | * | * | * |

* Depend on motor version

Travel drive gearmotors

700CT series



Extreme compactness, lightweight, efficiency and smooth operation are the key features of the 700CT series track drives, powered by integrated axial piston hydraulic motors. Available for machines in the 2.5 to 9 Ton class range.



Torque Range

3500 ... 12500 Nm

Machine weight

2.5 up 9 Ton

Gear Ratios

15 ... 53

Key Features

- Rotating output flange with large PCD suitable for sprocket
- Rugged design
- High torque capacity
- High load capacity
- Mechanical lifetime seals
- Compact design

Hydraulic motors

Bonfiglioli Trasmital hydraulic motors, fixed OR dual displacement, with flushing valve circuit, suitable for closed loop applications.

Motor options

Speed sensor mounting.

Brake

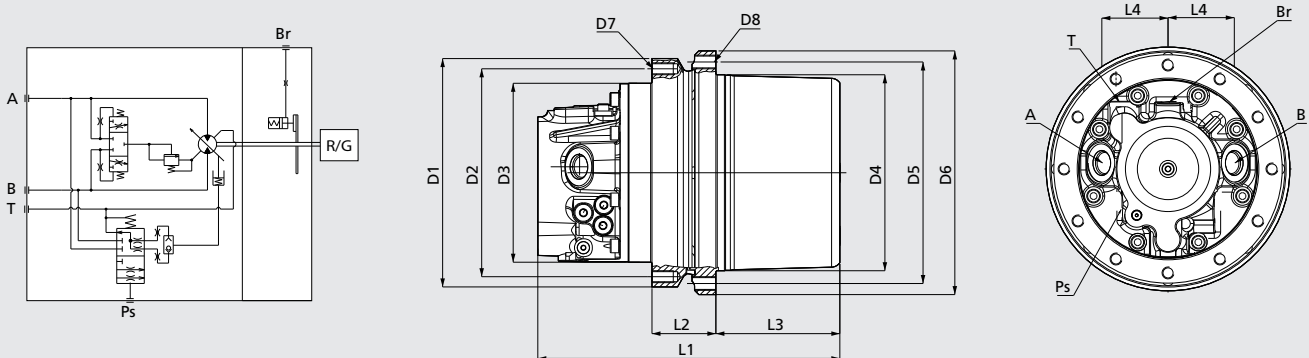
Hydraulically released spring applied parking brake, with external independent port.

| Type | Torque (Nm) |
|----------|-------------|
| 702 C2 T | 3500 |
| 704 C2 T | 5000 |
| 705 C2 T | 9000 |
| 706 C2 T | 12500 |



Overall dimensions and technical data

| TYPE | WEIGHT | OUTPUT TORQUE | RATIOS | MOTOR TYPE |
|----------|-----------|---------------|---------|------------|
| | tons | Nm | 1: | |
| 702 C2 T | 2.5 - 3.5 | 3500 | 15 ÷ 22 | high speed |
| 704 C2 T | 3.5 - 5 | 5000 | 18 | high speed |
| 705 C2 T | 5 - 7 | 9000 | 25 ÷ 30 | high speed |
| 706 C2 T | 7 - 9 | 12500 | 53 | high speed |



| TYPE | D1 | D2 | D3 | D4 | D5 | D6 | D7 | D8 | L1 | L2 | L3 | L4 | A-B | T | PS |
|----------|-----|-----|-----|-----|-----|-----|------------|------------|-----|-----|-----|----|----------------|-------------|--------------|
| 702 C2 T | 270 | 240 | 210 | 210 | 245 | 275 | M16x2 n°8 | M16x2 n°12 | 340 | 153 | 70 | 77 | 1" 1/16-12 UNF | 3/4"-16 UNF | 9/16"-18 UNF |
| 704 C2 T | 268 | 244 | 210 | 230 | 260 | 286 | M14x2 n°12 | M16x2 n°8 | 355 | 75 | 146 | 77 | | | |
| 705 C2 T | 268 | 244 | 210 | 230 | 260 | 286 | M14x2 n°12 | M14x2 n°12 | 355 | 75 | 144 | 77 | | | |
| 706 C2 T | 308 | 280 | 246 | 275 | 305 | 331 | M14x2 n°16 | M14x2 n°16 | 390 | 100 | 156 | 77 | | | |

Drum drives 700C series

Dual stage planetary drive units with integrated pulley support designed for Cold Planers and Milling Machines from 15 to 55 tons with engine power from 200 to 550 kW and Rotor width from 1.0 to 2.5 m.

The offset input option ensures higher machine productivity due to the increased cutting depth.

The unique integrated cooling system allow greater performances, easier system maintenance and the highest level of reliability.



Planetary gearbox specifically designed for drum drive:

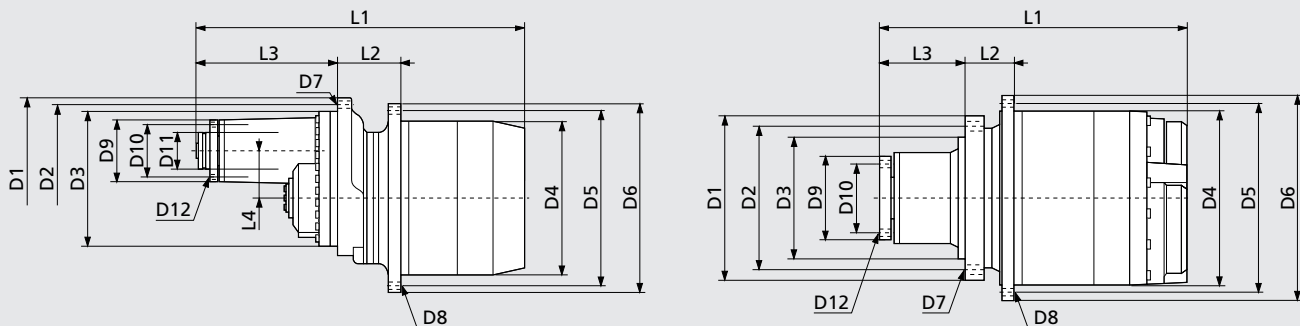
- Dual stage planetary reduction
- Integrated pulley support shaft with reinforced bearings
- Optimized housing design for improved lubrication performance
- Offset input available for increased cutting depth
- Integrated cooling system (optional)

| Type | Torque (Nm) | |
|----------|-------------|-------|
| 710 C2 H | | 20000 |
| 713 C2 H | | 25000 |
| 716 C2 H | | 45000 |



Overall dimensions and technical data

| TYPE | RATIOS | MAX CUTTING TORQUE | MAX INPUT POWER | BEARINGS LOAD RATINGS | | VERSION |
|----------|------------------|--------------------|-----------------|-----------------------|---------------|---------|
| | | | | C dyn. (kN) | C0 stat. (kN) | |
| | 1: | Nm | kW | | | |
| 710 C2 H | 16 | 20000 | 200 | 360 | 760 | Offset |
| 713 C2 H | 16.4 - 19 - 22.9 | 25000 | 220 | 473 | 950 | Offset |
| 716 C2 H | 18.5 - 21.8 | 45000 | 380 | 484 | 1000 | In line |



| TYPE | VERS. | D1 | D2 | D3 | D4 | D5 | D6 | D7 | D8 | D9 | D10 | D11 | D12 | L1 | L2 | L3 | L4 |
|----------|---------|-----|-----|--------|-----|-----|-----|--------------|----------|-----|-----|-----|--------------|-----|-----|-------|-----|
| 710 C2 H | Offset | 350 | 310 | 270 | 350 | 400 | 440 | M20x2.5 n°24 | Ø22 n°22 | 145 | 122 | 80 | M12x1.75 n°8 | 811 | 195 | 265 | 95 |
| 713 C2 H | Offset | 420 | 385 | 350 | 400 | 450 | 490 | M20x2.5 n°23 | Ø22 n°23 | 160 | 130 | 95 | M12x1.75 n°8 | 834 | 160 | 325 | 120 |
| 716 C2 H | In line | 435 | 381 | 323.85 | 460 | 500 | 540 | M20x2.5 n°23 | Ø22 n°24 | 240 | 160 | - | M16x2 n°6 | 799 | 125 | 224.5 | - |

Slew drives 700T series



Bonfiglioli 700T series provide the safest and most effective solution for cranes, excavators and forestry machines. Highly appreciated by all the major manufacturers, the 700T Series have long been established in the cranes, excavators and special equipment industries.



Torque Range

1000 ... 80000 Nm

Gear Ratios

3.4 ... 2000

Key Features

- Flange mounted
- Output shaft: splined or with integral pinion
- Rugged construction
- High torque capacity
- Output shafts supported by heavy duty capacity bearings

Hydraulic motor options

- Pressure relief valve
- Overcenter valve

Hydraulic Brake

- Hydraulically released parking brake on request

Electric Brake

- DC and AC type

| Type | (Nm) |
|-------|-------|
| 700 T | 1000 |
| | 1200 |
| 701 T | 1800 |
| | 2400 |
| 703 T | 2500 |
| | 3500 |
| 704 T | 3600 |
| | 4800 |
| 705 T | 5000 |
| | 6500 |
| 706 T | 7500 |
| | 10000 |
| 707 T | 9000 |
| | 15000 |
| 709 T | 12000 |
| | 20000 |
| 710 T | 18000 |
| | 30000 |
| 711 T | 20000 |
| | 35000 |
| 712 T | 30000 |
| | 45000 |
| 713 T | 40000 |
| | 55000 |
| 714 T | 50000 |
| | 65000 |
| 715 T | 70000 |
| | 80000 |

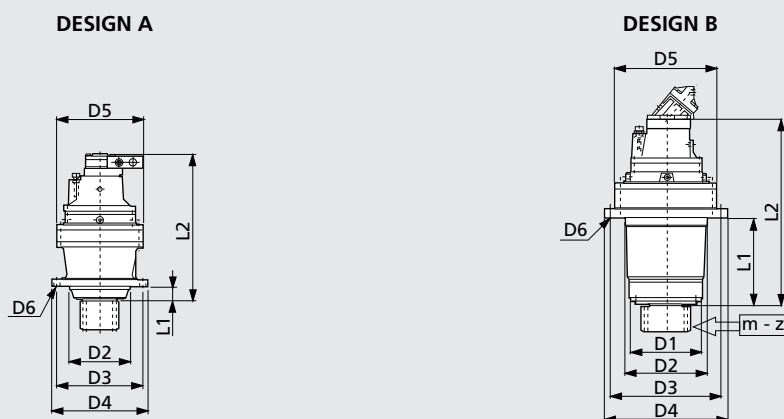
■ Excavator Torque
■ Crane Torque



Overall dimensions and technical data

| TYPE | RANGE OF RATIOS | MAX. INPUT SPEED | HYDRAULIC MOTOR DRIVE ⁽¹⁾ | BRAKING TORQUE | MIN. OPENING PRESSURE | WEIGHT | DESIGN |
|---------|-----------------|------------------|--------------------------------------|----------------|-----------------------|--------|--------|
| | max/min | bar | | Nm | bar | Kg | |
| 700 T F | 3.48-7.2 | 500 | LS | 50 - 400 | 10 - 30 | 22 | A |
| 701 T F | 3.48-7.2 | 500 | LS | 50 - 400 | 10 - 30 | 27 | A |
| 703 T F | 12-44 | 3000 | HS | 50 - 400 | 10 - 30 | 45 | A |
| 704 T F | 12-44 | 3000 | HS | 50 - 400 | 10 - 30 | 50 | A |
| 705 T F | 12-44 | 3000 | HS | 50 - 400 | 10 - 30 | 55 | A |
| 705 T L | 12-44 | 3000 | HS | 50 - 400 | 10 - 30 | 80 | B |
| 706 T N | 15-46 | 3000 | HS | 400 - 1000 | 20 - 30 | 95 | B |
| 707 T N | 17-47 | 3000 | HS | 400 - 1000 | 20 - 30 | 140 | B |
| 709 T N | 17-47 | 3000 | HS | 400 - 1000 | 20 - 30 | 165 | B |
| 710 T N | 19-38 | 3000 | HS | 400 - 1000 | 20 - 30 | 250 | B |
| 711 T C | 14-39 | 3000 | HS | 400 - 1000 | 20 - 30 | 300 | B |
| 711 T F | 14-39 | 3000 | HS | 400 - 1000 | 20 - 30 | 160 | A |
| 712 T F | 80-200 | 3000 | HS | 400 - 1000 | 20 - 30 | 450 | A |
| 712 T N | 80-200 | 3000 | HS | 400 - 1000 | 20 - 30 | 450 | B |
| 713 T N | 50-300 | 3000 | HS | 400 - 1000 | 20 - 30 | 500 | B |
| 714 T F | 90-180 | 3000 | HS | 400 - 1000 | 20 - 30 | 160 | A |
| 715 T N | 57-250 | 3000 | HS | 400 - 1000 | 20 - 30 | 650 | B |

(1) LS = Low speed motor / HS = High speed motor



| TYPE | D1 | D2 | D3 | D4 | D5 | D6 | L1 | L2 | m | z |
|---------|-----|-----|-----|-----|-----|----------|-----|------|---|---|
| 700 T F | - | 150 | 195 | 220 | 186 | 12.5 | 31 | 300 | | |
| 701 T F | - | 150 | 195 | 220 | 186 | 12.5 | 31 | 325 | | |
| 703 T F | - | 175 | 245 | 272 | 245 | 18 | 41 | 410 | | |
| 704 T F | - | 175 | 245 | 272 | 245 | 18 | 41 | 400 | | |
| 705 T F | - | 175 | 245 | 272 | 245 | 18 | 41 | 440 | | |
| 705 T L | 180 | 195 | 245 | 290 | 245 | 13 | 171 | 470 | | |
| 706 T N | 200 | 250 | 325 | 360 | 292 | 17 | 225 | 560 | | |
| 707 T N | 230 | 280 | 314 | 348 | 345 | 17 | 295 | 670 | | |
| 709 T N | 250 | 280 | 380 | 420 | 345 | 17 | 295 | 720 | | |
| 710 T N | 300 | 425 | 460 | 500 | 400 | 22 | 360 | 730 | | |
| 711 T C | 300 | 425 | 460 | 500 | 428 | 22 | 345 | 735 | | |
| 711 T F | 500 | 320 | 500 | 560 | 425 | 22 | 70 | 750 | | |
| 712 T F | - | 410 | 450 | 490 | 420 | ø21 n°24 | 120 | 900 | | |
| 712 T N | 400 | 425 | 470 | 510 | 420 | ø20 n°30 | 350 | 900 | | |
| 713 T N | 340 | 400 | 510 | 560 | 445 | 22 | 420 | 1030 | | |
| 714 T F | - | 420 | 490 | 530 | 490 | ø22 n°24 | 160 | 1100 | | |
| 715 T N | 370 | 470 | 600 | 640 | 542 | 22 | 465 | 1250 | | |

Module / number of teeth of pinion UPON REQUEST

Slew drives 700TK series



The 700TK series is the compact and powerful slew drive package for excavators from 1.5 up to 150 tons class. The units are powered by integrated axial piston hydraulic motors, developed in cooperation with Kayaba and can be accommodated within the smallest space.



Torque Range

750 ... 30000 Nm

Excavator weight

1.5 to 150 Ton

Gear Ratios

7 ... 40

Key Features

- Flange mounted
- Output shaft with integral pinion
- Rugged construction
- High torque capacity
- Output shafts supported by heavy duty bearings
- Compact design

Hydraulic motors

Kayaba hydraulic motor fixed displacement complete with shockless type pressure relief valve

Motor options

Anti swing-back valve

Brake

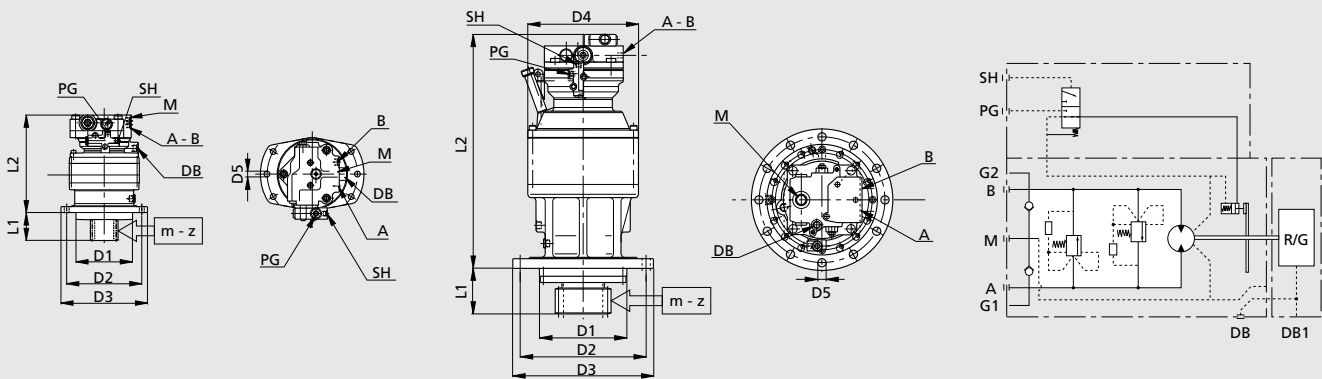
- Hydraulically released failsafe parking brake
- Brake retarder valve on request

| Type | Excavator Torque (Nm) |
|----------|-----------------------|
| 700 T1 K | 750 |
| 701 T2 K | 1200 |
| 703 T2 K | 2500 |
| 705 T2 K | 5000 |
| 706 T2 K | 7500 |
| 707 T2 F | 9000 |
| 709 T2 F | 11000 |
| 710 T2 F | 15000 |
| 711 T2 F | 24000 |
| 713 T2 F | 30000 |



Overall dimensions and technical data

| TYPE | GEARBOX | MOTOR DISPLACEMENT | MAX. PRESSURE | MAX. FLOW | PARKING BRAKE | | RANGE OF RATIO | APPROX. WEIGHT OF MACHINE |
|----------|---------|--------------------|---------------|-----------|---------------|----|----------------|---------------------------|
| | nbr | cm | bar | l/min | Yes | No | 1: | Ton |
| 700 T1 K | 1 | 27.4 | 210 | 18 | • | • | 8.2 | 1.5 - 2.5 |
| 701 T2 K | 1 | 27.4 | 210 | 30 | • | • | 13.7-20.8 | 3 - 4 |
| 703 T2 K | 1 | 27.4 | 250 | 50 | • | • | 14.8-35.6 | 5 - 6 |
| 705 T2 K | 1 | 44.1 | 280 | 80 | • | | 18-26.3 | 7 - 8 |
| 706 T2 K | 1 | 87.3 | 320 | 160 | • | | 15.3-33 | 9 - 13 |
| 707 T2 F | 1 | 87.3 | 320 | 160 | • | | 14.7-22.3 | 15 - 18 |
| 709 T2 F | 1 | 130-160-180 | 270 ÷ 290 | 180 ÷ 240 | • | | 19-25 | 21 - 26 |
| 710 T2 F | 1 | 160-180 | 270 ÷ 290 | 250 | • | | 22-26 | 26 - 30 |
| 711 T2 F | 1 | 210 | 270 ÷ 290 | 290 | • | | 21-25 | 30 - 35 |
| 709 T2 F | 2 | 130-160-180 | 270 ÷ 290 | 180 ÷ 240 | • | | 19-25 | 35 - 45 |
| 710 T2 F | 2 | 160-180 | 270 ÷ 290 | 250 | • | | 22-26 | 45 - 60 |
| 711 T2 F | 2 | 210 | 270 ÷ 290 | 290 | • | | 21-25 | 60 - 80 |
| 713 T2 F | 2 | 160-180 | 270 ÷ 290 | 270 | • | | 25-35 | 80 - 120 |



| TYPE | D1 | D2 | D3 | D4 | D5 | D6 | A-B | DB | M | SH | PG | m | z |
|----------|-----|-----|-----|-----|-----------|-----|-----------|------------|---------------------|----------------------|--------------------|---|---|
| 700 T1 K | - | 228 | 260 | 186 | ∅ 13 n°6 | 76 | MAIN PORT | DRAIN PORT | ANTICAVITATION PORT | SPOOL OPERATING PORT | BRAKE RELEASE PORT | Module / number of teeth of pinion UPON REQUEST | |
| 701 T2 K | 175 | 228 | 260 | 186 | ∅ 13 n°6 | 86 | | | | | | | |
| 703 T2 K | 175 | 245 | 272 | 244 | ∅ 18 n°10 | 120 | | | | | | | |
| 705 T2 K | 230 | 245 | 272 | 244 | ∅ 18 n°10 | 120 | | | | | | | |
| 706 T2 K | 230 | 332 | 372 | 292 | ∅ 22 n°10 | 150 | | | | | | | |
| 706 T2 K | 270 | 332 | 372 | 292 | ∅ 22 n°10 | 150 | | | | | | | |
| 707 T2 K | - | 360 | 410 | 348 | ∅ 22 n°12 | 160 | | | | | | | |
| 707 T2 F | - | 360 | 410 | 348 | ∅ 22 n°12 | 160 | | | | | | | |
| 709 T2 F | 270 | 360 | 410 | 348 | ∅ 22 n°12 | 160 | | | | | | | |
| 710 T2 F | 390 | 460 | 510 | 400 | ∅ 22 n°12 | 160 | | | | | | | |
| 711 T2 F | 370 | 470 | 520 | 430 | ∅ 22 n°12 | 160 | | | | | | | |
| 713 T2 F | 550 | 600 | 660 | 445 | ∅ 26 n°24 | 350 | | | | | | | |

Winch drives 800 series



The units of the 800 series are specifically designed for winch applications, and can be easily accommodated within the drum itself. Available in various gear ratios, units feature heavy duty bearings and an optional failsafe parking or emergency multidisc brake.



Torque Range

5000 ... 42000 Nm

Line rope range

35000 ... 170000 N

Gear Ratios

21 ... 108

Key Features

- Rotating housing flange
- Rugged construction
- High torque capacity
- High load capacity
- Freewheel for antirun-back device, as an optional

Applicable hydraulic motors

- Flanged axial piston motors
- Orbit motors

Brake

Hydraulically released parking brake on request

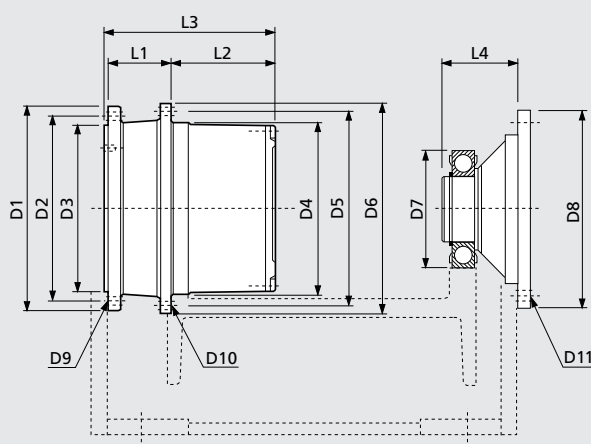
| Type | Torque (Nm) |
|--------|-------------|
| 805 W2 | 5000 |
| 806 W2 | 10000 |
| 810 F2 | 17500 |
| 811 W2 | 27000 |
| 813 W3 | 42000 |

| Type | Max. line rope (N) |
|--------|--------------------|
| 805 W2 | 35000 |
| 806 W2 | 50000 |
| 810 F2 | 85000 |
| 811 W2 | 120000 |
| 813 W3 | 170000 |



Overall dimensions and technical data

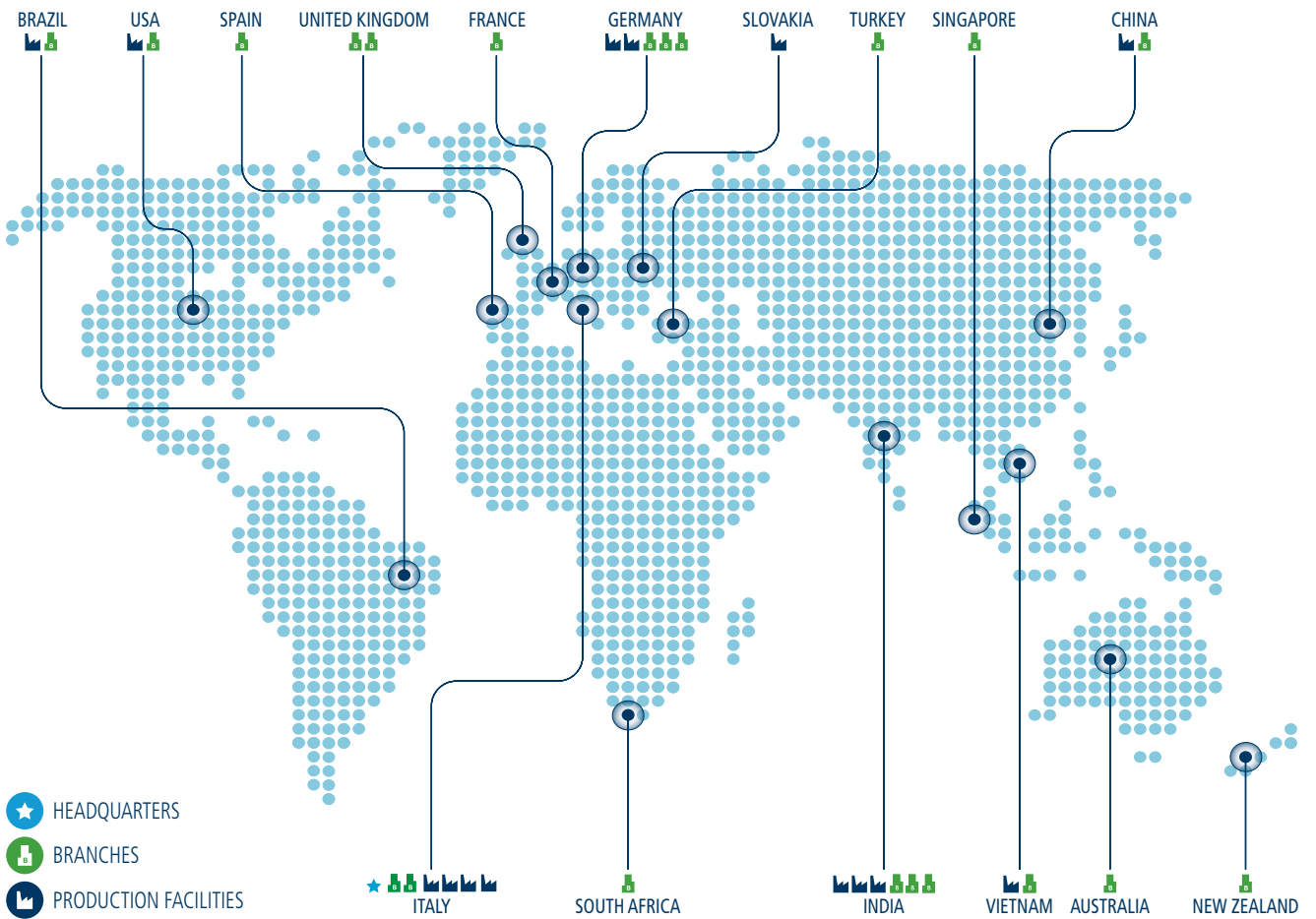
| TYPE | RANGE OF RATIOS | MAX. INPUT SPEED | BRAKING TORQUE | MIN. OPENING PRESSURE | WEIGHT |
|--------|-----------------|-------------------|----------------|-----------------------|--------|
| | 1: | min ⁻¹ | Nm | bar | Kg |
| 805 W2 | 22 - 53 | 3000 | 500 - 750 | 15 - 25 | 70 |
| 806 W2 | 30 - 44 | 3000 | 700 - 1000 | 15 - 25 | 95 |
| 810 F2 | 21 - 46 | 3000 | 800 - 1200 | 15 - 25 | 160 |
| 811 W2 | 42 | 2500 | 900 - 1300 | 15 - 25 | 270 |
| 813 W3 | 60 - 108 | 2500 | 900 - 1300 | 15 - 25 | 310 |



| TYPE | D1 | D2 | D3 | D4 | D5 | D6 | D7 | D8 | D9 | D10 | D11 | L1 | D11 | L1 | L4 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|---------------|----------|----------|-----|-----|-----|-----|
| 805 W2 | 265 | 240 | 215 | 225 | 250 | 270 | 140 | 210 | M12x1.75 n°16 | ø13 n°16 | ø13 n°8 | 75 | 158 | 250 | 95 |
| 806 W2 | 330 | 300 | 270 | 280 | 315 | 340 | 140 | 210 | M16x2 n°12 | ø17 n°12 | ø13 n°8 | 100 | 165 | 280 | 95 |
| 810 F2 | 270 | 240 | 215 | 350 | 375 | 410 | 190 | 320 | M16x2 n°18 | ø13 n°24 | ø19 n°12 | 25 | 310 | 360 | 110 |
| 811 W2 | 420 | 325 | 280 | 410 | 455 | 490 | 190 | 320 | M20x2.5 n°21 | ø22 n°24 | ø19 n°12 | 110 | 260 | 390 | 110 |
| 813 W3 | 420 | 325 | 280 | 410 | 455 | 490 | 190 | 320 | M20x2.5 n°21 | ø22 n°24 | ø19 n°12 | 110 | 275 | 405 | 110 |

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