DRUM DRIVES



500 Series

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



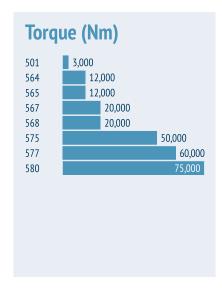


Applicable motors

- · Axial piston motors to SAE
- · Standard orbit motors

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





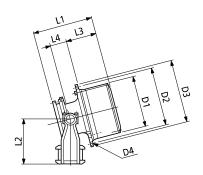


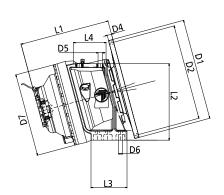


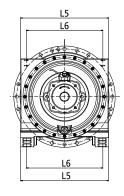
| Туре | Range of Ratios | Hydr. Motor Drive ⁽¹⁾ | Max. Input Speed | Drum Capacity (2) | Weight | Oil Quantity | Design | Water Pump P.T.O. | Speed Sensor |
|------|--------------------|-------------------------------------|---------------------|----------------------|--------|-----------------|--------|----------------------|-----------------|
| | 1: | | min ⁻¹ | m^3 | kg | L | | | |
| 501 | 17-23-29 | LS | 550 | 0.5 - 1 | 45 | 1.5 | Α | - | - |
| 564 | 78-161 | HS | 2,500 | 2 - 3 | 85 | 2 | A | - | - |
| 565 | 22 | LS | 550 | 2 - 3 | 70 | 1.5 | Α | - | - |
| 567 | 76-90-115-128 | HS | 2,500 | 4 - 5 | 140 | 3 | Α | - | - |
| 568 | 18-21-27 | LS | 550 | 4 - 5 | 130 | 2.5 | А | - | - |
| 575 | 99.3-102-141 | HS | 3,000 | 6 - 8 | 250 | 7 | В | • | • |
| 577 | 131 | HS | 3,000 | 8 - 10 | 290 | 8.5 | В | • | • |
| 580 | 130-135-140 | HS | 3,000 | 10 - 14 | 320 | 10 | В | • | • |

- (1) LS = Low speed motor / HS = High speed motor
 (2) General indication, application capacity depends on concrete slump

 = Not available
 = Available







| Туре | D 1 | D2 | D 3 | D4 | D5 | D6 | D7 | L1 | L2 | L3 | L4 | L5 | L6 |
|------|------------|-----|------------|-----------|---------|---------|-----|-----|-----|-----|-----|-----|-----|
| 501 | 200 | 222 | 245 | 13 no. 4 | - | - | - | 270 | 195 | 138 | 89 | - | - |
| 564 | 280 | 310 | 340 | 17 no. 10 | - | - | - | 365 | 240 | 165 | 85 | - | - |
| 565 | 280 | 310 | 340 | 17 no. 10 | - | - | - | 290 | 240 | 165 | 85 | - | - |
| 567 | 358 | 390 | 430 | 17 no. 18 | - | - | - | 435 | 300 | 210 | 110 | - | - |
| 568 | 358 | 390 | 430 | 17 no. 18 | - | - | - | 360 | 300 | 210 | 110 | - | - |
| 575 | 530 | 500 | - | 17 no. 24 | 22 no.4 | 22 no.6 | 435 | 450 | 400 | 188 | 170 | 460 | 400 |
| 577 | 530 | 500 | - | 17 no. 24 | 22 no.4 | 22 no.6 | 435 | 450 | 400 | 188 | 170 | 460 | 400 |
| 580 | 530 | 500 | - | 17 no. 24 | 22 no.4 | 22 no.6 | 435 | 525 | 400 | 188 | 170 | 460 | 400 |



DRUM DRIVES FOR HYBRID CONCRETE MIXERS



500 Series

This solution is designed for use with medium/large mixer trucks that have medium/long delivery distances to travel. Bonfiglioli's innovative solution comprises a Bonfiglioli 500 Series gearbox coupled to an AC electric motor, providing normal power, and a DC electric motor for emergency use.





This product 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 provides reassuring redundancy and eliminates the risks and potentially hazardous situations caused by failures of the drum emptying system.

Key benefits

- Increased energy efficiency
- Reduced fuel consumption
- · Optimized gear design for maximum efficiency and minimum noise

Torque (Nm)577 60,000







Gearbox data Motor data Ratio Type • Main: 1:220 Main: Induction AC • Emergency: 1:2,200 • Emergency: PM DC motor Max output torque Rated Power • Main: 60,000 Nm · Main: 40 kW • Emergency: 10,500 Nm • Emergency: 2 kW Max input speed Voltage · Main: 170 VAC • Main: 3,500 rpm · Emergency: 2,000 rpm • Emergency: 24 VDC Oil quantity Protection degree • 8 lt • IP66 Dry weight Cooling · Main: Liquid • 328 kg · Emergency: Air forced

Key features

Service intervals less frequent and simplified versus the standard hydraulic solution

Better drum rotation speed

The emergency electric DC motor allows higher availability in case of machine failure

