# **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 m<sup>3</sup>.



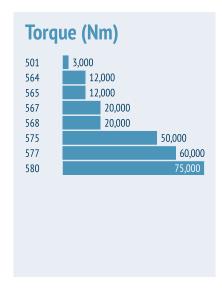


### Applicable motors

- · 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





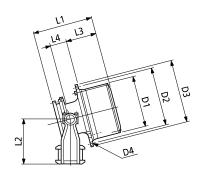


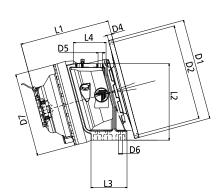


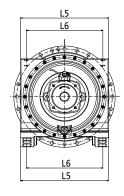
Туре	Range of Ratios	Hydr. Motor Drive <sup>(1)</sup>	Max. Input Speed	Drum Capacity (2)	Weight	Oil Quantity	Design	Water Pump P.T.O.	Speed Sensor
	1:		min <sup>-1</sup>	$m^3$	kg	L			
501	17-23-29	LS	550	0.5 - 1	45	1.5	Α	-	-
564	78-161	HS	2,500	2 - 3	85	2	A	-	-
565	22	LS	550	2 - 3	70	1.5	Α	-	-
567	76-90-115-128	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	<b>D</b> 1	D2	<b>D</b> 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

