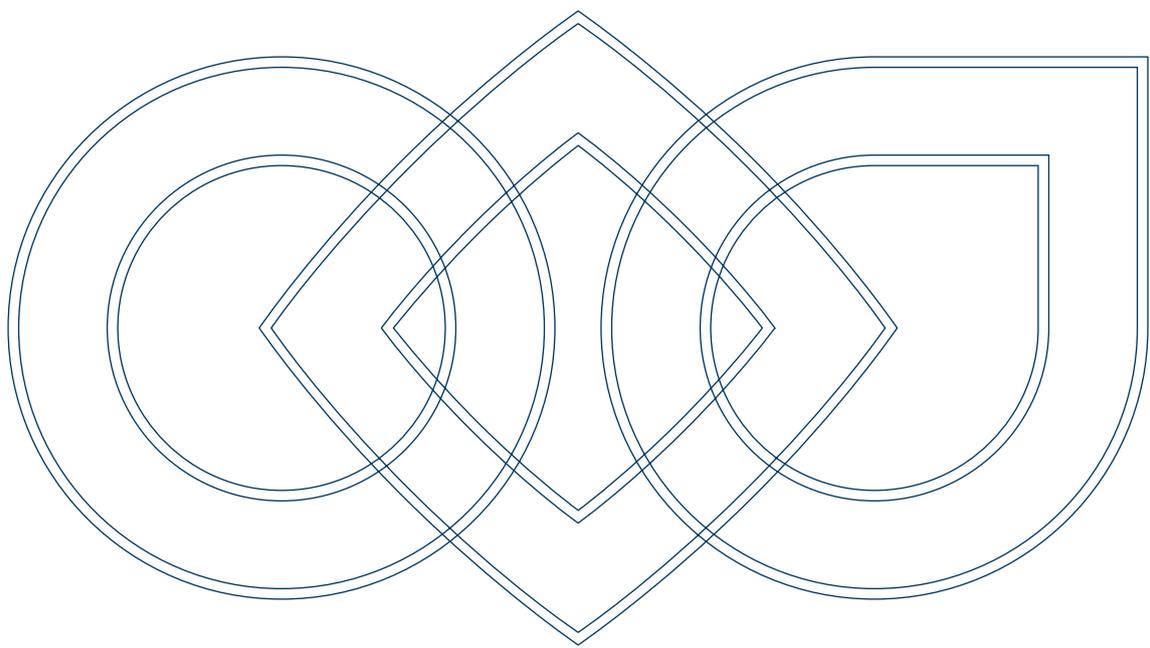




Solutions for
Construction Industry



SECTOR



Solutions for the **Construction Industry**

Bonfiglioli, with the broad and diversified Bonfiglioli Trasmital and Bonfiglioli O&K Antriebstechnik product ranges, can fully meet the specifications of building industry machinery, and namely:

- Tower cranes
- Concrete mixers
- Transit mixers and dumpers
- Concrete pumps

Each of these machines has its own special structural and duty characteristics, which Bonfiglioli is well aware of, thanks to over 40 years of experience in the industry, working in close partnership with the leading manufacturers of building industry machinery.

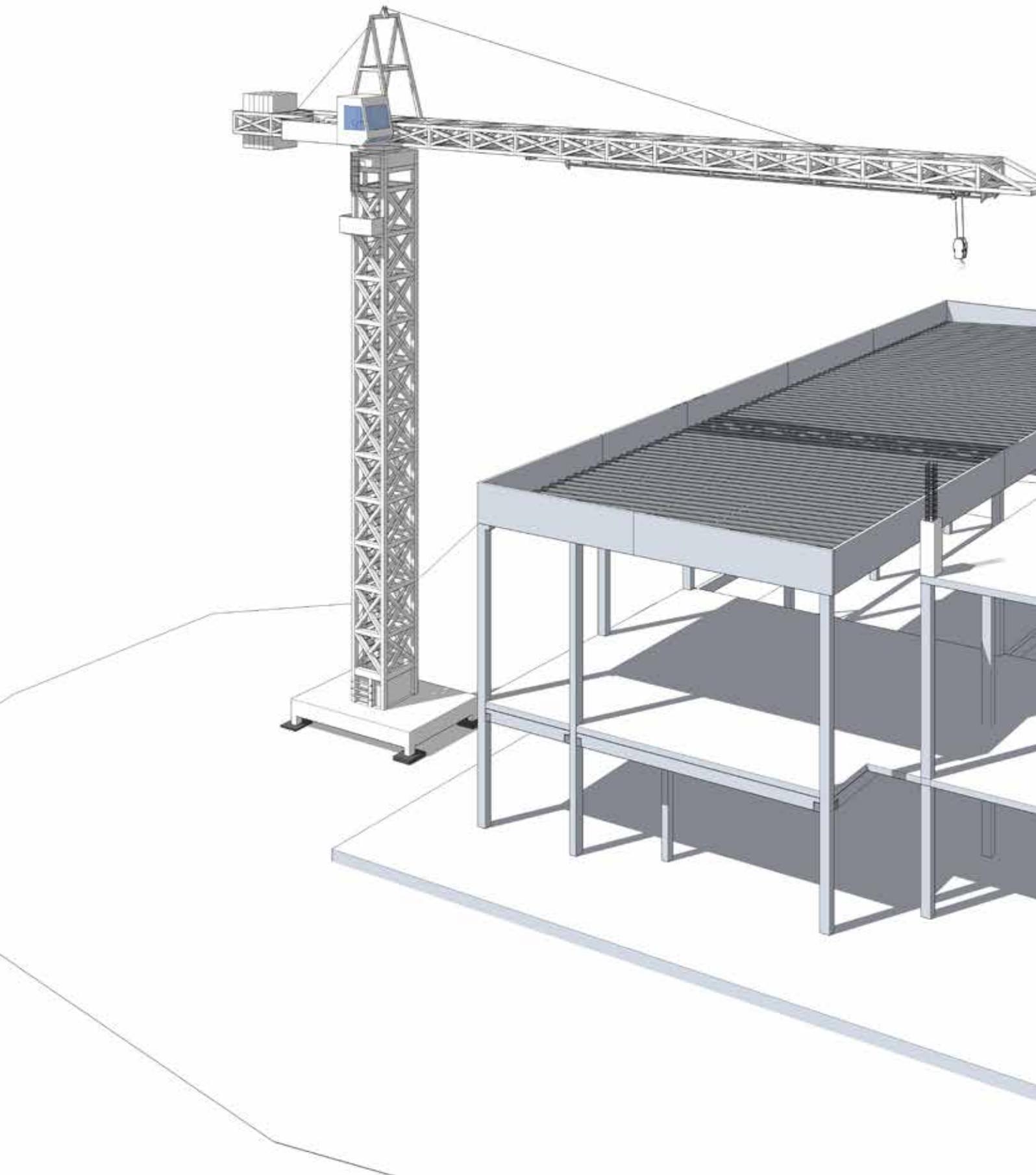
Bonfiglioli is thus able to offer a range of products perfectly tailored to meet a broad variety of drive specifications: from swing drives for tower cranes and concrete pumps to winch drives for hoisting duty and trolley drives, to stationary concrete mixers up to the 500 series and the renowned drum drives for transit mixer duty.

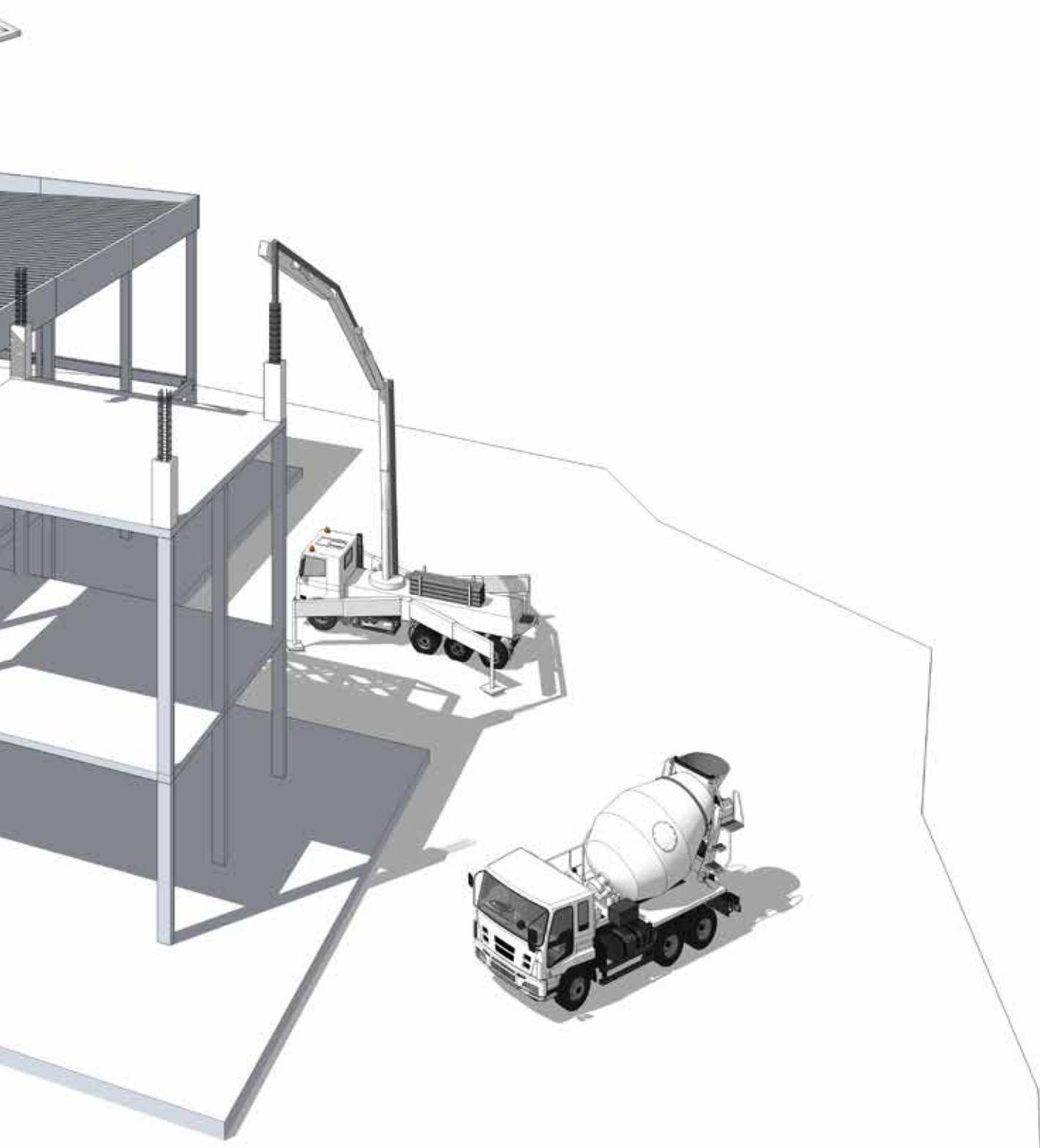
A vast range of customised solutions and extensive expertise in the industry make Bonfiglioli the ideal partner for all manufacturers of building industry machinery.



Bonfiglioli Construction

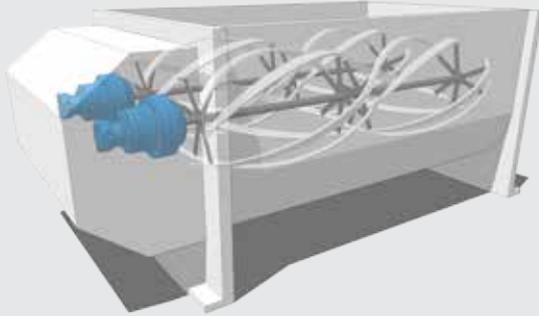
Drives for building industry machines





Shaft drive for concrete mixers

from 0.75 to 9 m³.

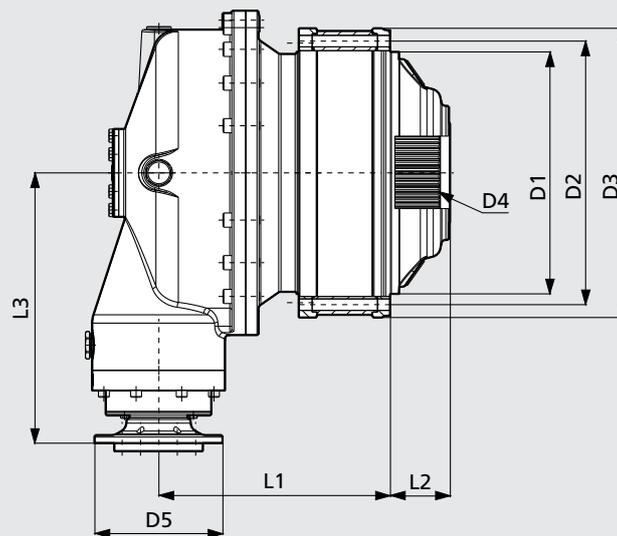


300 Planetary drives

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 1000-1400000 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.

Type	Torque (Nm)
307	12500
309	18000
310	25000
311	40000
313	55000
315	100000

TYPE	MIXER CAPACITY	RATIOS	ELECTRIC MOTOR POWER
	m ³	1:	kW
2 x 307 R FZ	0.5 ... 1	23	22 x 2
2 x 309 R FZ	1 ... 2.2	27	30 x 2
2 x 310 R FZ	2.2 ... 3	27	37 x 2
2 x 311 R FZ	3 ... 4.5	27	55 x 2
2 x 313 R FZ	4.5 ... 6	26	75 x 2
2 x 315 R FZ	6 ... 9	63	110 x 2



TYPE	D1	D2	D3	D4	D5	L1	L2	L3
307 R FZ	230	295	325	80x74 DIN 5482	90	300	162	200
309 R FZ	278	314	348	80x74 DIN 5482	100	215	231	225
310 R FZ	340	370	400	100x94 DIN 5482	110	245	290	250
311 R FZ	358	390	428	100x94 DIN 5482	120	250	320	280
313 R FZ	385	415	445	120x3 DIN 5480	140	310	357	280
315 R FZ	460	503	542	150x5 DIN 5480	160	390	429	315

Transit mixer drives

from 0.5 to 14 m³.



500

Drum drive from 0.5 to 14 m³.

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.

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

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	•	•

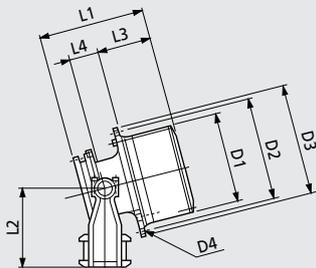
(1) **LS** = Low speed motor / **HS** = High speed motor

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

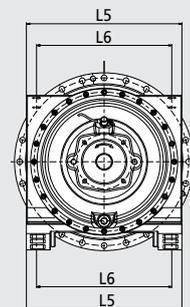
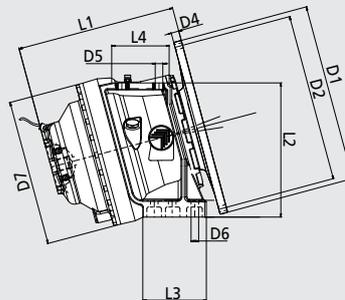
- = Not available

• = Available

DESIGN A

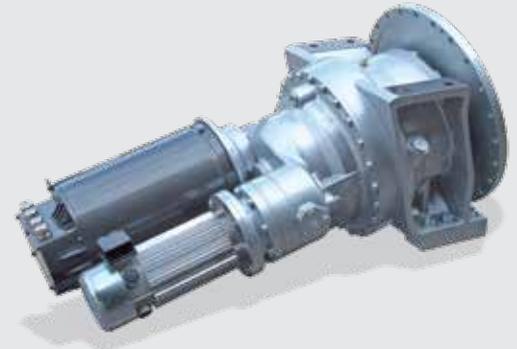


DESIGN B



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

Electric solutions for concrete mixers

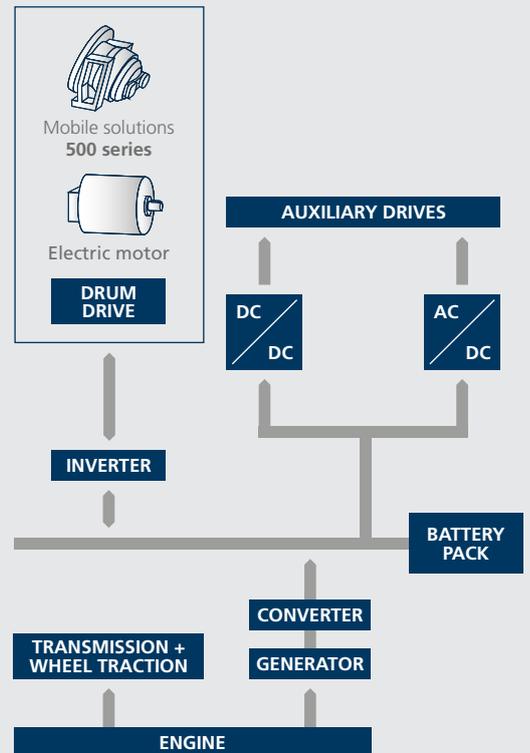


500

Drum drive with electric motor

This solution is designed for use with medium/large mixer trucks that have medium/long delivery distances to travel. Drum rotation speed is between 15 and 22 rpm and capacity between 6 and 14 m³. Bonfiglioli innovative solution comprises a gearbox of Bonfiglioli's historical 500 Series coupled to an AC electric motor that provides 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 (for example by extending service intervals and making servicing simpler than on hydraulic drive solutions). Performance is improved too: rotation speed control is more accurate, operating noise levels are significantly lower (thanks to the electric motor and the helical tooth profile of the high speed gearbox stage). 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 (if the drum cannot rotate, the cement can solidify and put the mixer truck out of action).

Functional diagram



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

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



Slew drive for truck mounted concrete pumps.



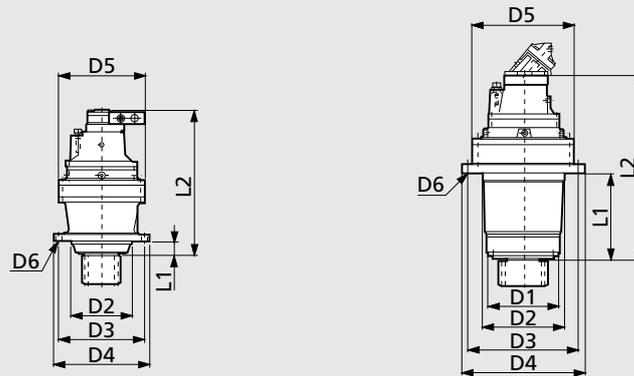
700T Slew drives

The slew drives of the 700T series provide the safest and most effective solution to all slew drive applications.

The 700T units have long been established in the cranes, excavators and special equipment industries, and today are highly appreciated by all the major manufacturers.

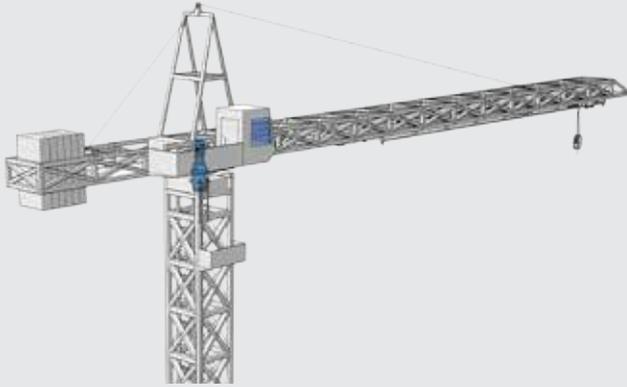
Type	Torque (Nm)
703 T2	3500
705 T2	6500
706 T2	10000
710 T2	30000
711 T2	35000

TYPE	MAX. VERTICAL REACH	MAX. HORIZONTAL DISTANCE	OUTPUT TORQUE	RATIOS	MOTOR TYPE
	m	m	Nm	1:	
703 T2 F	20 ... 24	16 ... 20	3000	20 ... 38	low speed
705 T2 F	24 ... 30	20 ... 24	5000	20 ... 38	low speed
1x706 T2 N	30 ... 36	24 ... 32	10000	28 ... 46	low speed
2x706 T2 N	36 ... 50	32 ... 48	10000	28 ... 46	low speed
710 T2 N	36 ... 50	32 ... 48	18000	100 ... 150	low speed
711 T2 C	50 ... 65	48 ... 60	30000	100 ... 150	low speed



TYPE	D1	D2	D3	D4	L1	L2	L3	L4
703 T2 F	-	175	245	272	245	18	41	410
705 T2 F	-	175	245	272	245	18	41	440
706 T2 N	200	250	325	360	292	17	225	560
710 T2 N	300	425	460	500	400	22	360	730
711 T2 C	300	425	460	500	428	22	345	735

Slew drive for building crane.



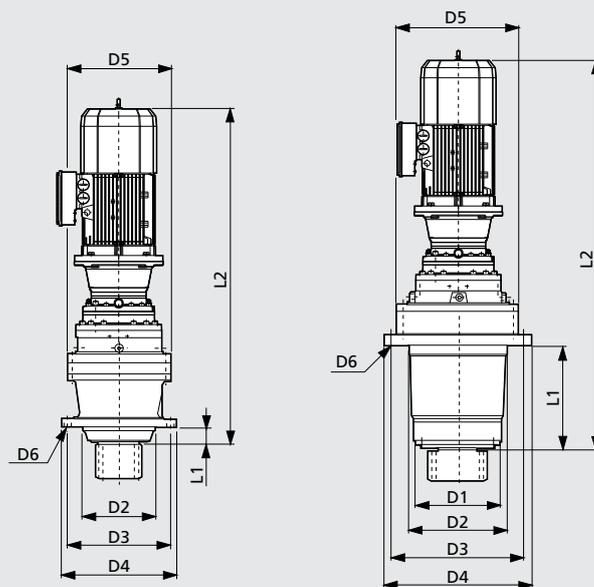
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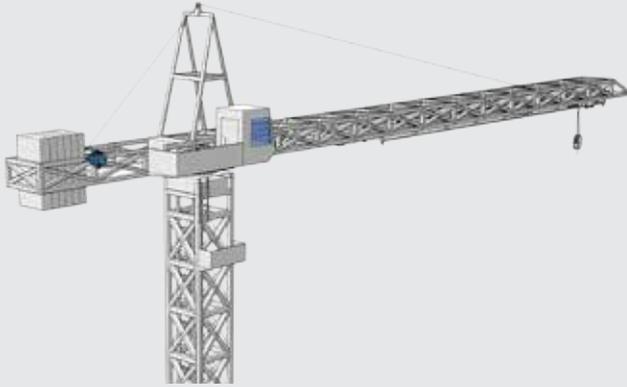
Type	Torque (Nm)
700 T	1200
701 T	2400
703 T	3500
705 T	6500
706 T	10000
707 T	15000
709 T	20000

TYPE	MAX. JIB RADIUS	MAX. LOAD	OUTPUT TORQUE	RATIOS	MOTOR TYPE
	m	ton	Nm	1:	
700 T F	15 ... 22	1.4 ... 1.8	1200	100 ... 150	electric motor
701 T F	22 ... 28	1.8 ... 2.2	2400	100 ... 150	electric motor
703 T F	28 ... 35	2.2 ... 2.8	3500	140 ... 200	electric motor
705 T F	35 ... 45	2.8 ... 3.5	6500	140 ... 200	electric motor
705 T L	35 ... 45	2.8 ... 3.5	6500	140 ... 200	electric motor
706 T N	45 ... 55	3.5 ... 5.0	10000	140 ... 210	electric motor
707 T N	55 ... 65	5.0 ... 7.0	15000	140 ... 210	electric motor
709 T N	65 ... 75	7.0 ... 10	20000	160 ... 200	electric motor



TYPE	D1	D2	D3	D4	D5	D6	L1	L2
700 T F	-	150	195	220	186	12.5	31	450
701 T F	-	150	195	220	186	12.5	31	475
703 T F	-	175	245	272	245	18	41	650
705 T F	-	175	245	272	245	18	41	680
705 T L	180	195	245	290	245	13	171	710
706 T N	200	250	325	360	292	17	225	850
707 T N	230	280	314	348	345	17	295	950
709 T N	250	280	380	420	345	17	295	1000

Winch drive for building crane.



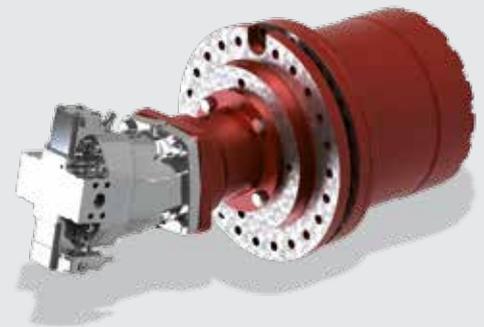
700C & FW

Winch drives

Any building crane will find the suitable winch drive within the range of the 700C series and FW series.

The FW series is part of the Bonfiglioli O&K Antriebstechnik product range.

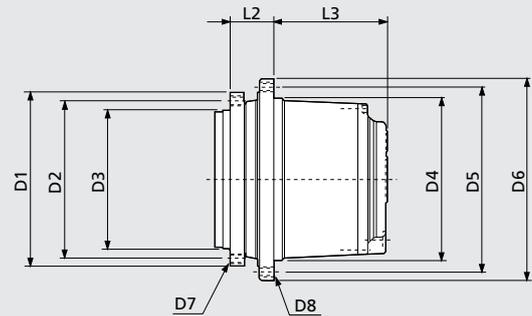
Type	Torque (Nm)
703 C2 H	2500
705 C2 H	5000
706 C3 B	10000
707 C3 B	15000
709 C3 B	22000
710 C3 B	28000
711 C3 B	30000



Type	Torque (Nm)
FW 10	5400
FW 13	7250
FW 30	17600
FW 40	20000
FW 55	25400

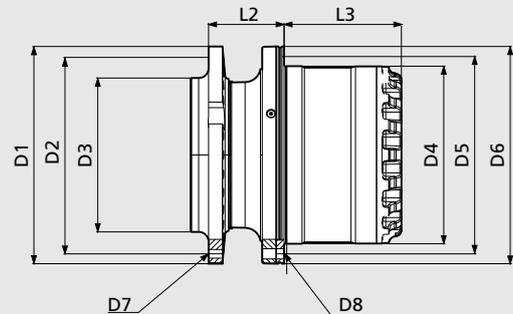
TYPE	MAX. ROPE PULL	OUTPUT TORQUE	RATIOS
	ton	Nm	1:
703 C2 H	1.4 ... 2	2500	19 ... 40
705 C2 H	2 ... 4	5000	22 ... 53
706 C3 B	4 ... 6	10000	68 ... 128
707 C3 B	6 ... 8	15000	55 ... 120
709 C3 B	8 ... 10	22000	55 ... 147
710 C3 B	10 ... 14	28000	55 ... 166
711 C3 B	14 ... 18	30000	71 ... 163

Note: according FEM classification: T4-L2-M4; output speed: 25 rpm



TYPE	D1	D2	D3	D4	D5	D6	D7	D8	L2	L3
703 C2 H	270	230	190	200	240	280	M16x2 n°8	M20x1.5 n°8	72	128
705 C2 H	270	230	190	220	260	300	M16x2 n°12	M16x2 n°16	72	158
706 C3 B	330	300	270	280	330	370	M16x2 n°18	M16x2 n°18	115	190
707 C3 B	317	285	240	300	340	370	M20x2.5 n°20	M16x2 n°20	82	233
709 C3 B	375	340	300	330	370	400	M20x2.5 n°16	M16x2 n°30	91	243
710 C3 B	375	340	300	350	400	435	M20x2.5 n°16	M20x2.5 n°16	91	243
711 C3 B	425	325	290	410	455	490	M20x2.5 n°24	M20x2.5 n°24	110	265

TYPE	MAX. ROPE PULL	OUTPUT TORQUE	RANGE OF RATIOS
	ton	Nm	1:
FW 10	2 ... 4	5400	35 ... 51
FW 13	4 ... 6	7250	93 ... 229
FW 30	6 ... 8	17600	61 ... 305
FW 40	8 ... 10	20000	61 ... 181
FW 55	10 ... 14	25400	63 ... 185



Type	D1	D2	D3	D4	D5	D6	D7	D8	L2	L3
FW 10	256	230	190	220	260	290	M16X2 n°12	M16X2 n°8	72	142
FW 13	256	230	190	220	260	290	M16X2 n°12	M16X2 n°8	72	153
FW 30	304	275	240	270	305	335	M16X2 n°18	M16X2 n°18	75	223
FW 40	320	285	240	295	335	370	M16X1.5 n°20	M16X1.5 n°20	91	231
FW 55	360	325	280	350	400	435	M20X1.5 n°24	M20X1.5 n°20	110	288

Winch drive for building crane.



800

Winch drives

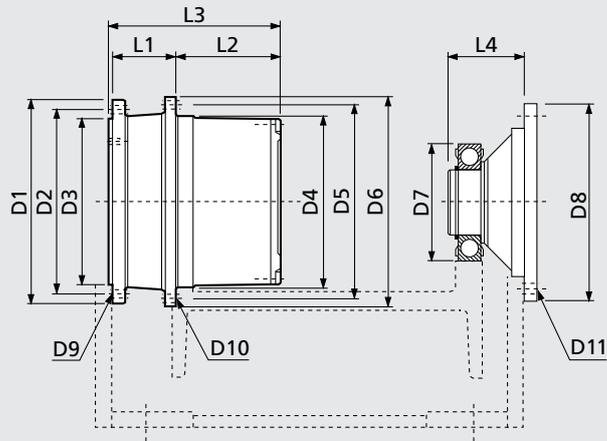
The units of the 800 series are specifically designed for winch applications, and can be easily accommodated within the drum itself.

Available in various gear ratios, units feature heavy duty bearings and an optional failsafe parking or emergency multidisc brake.

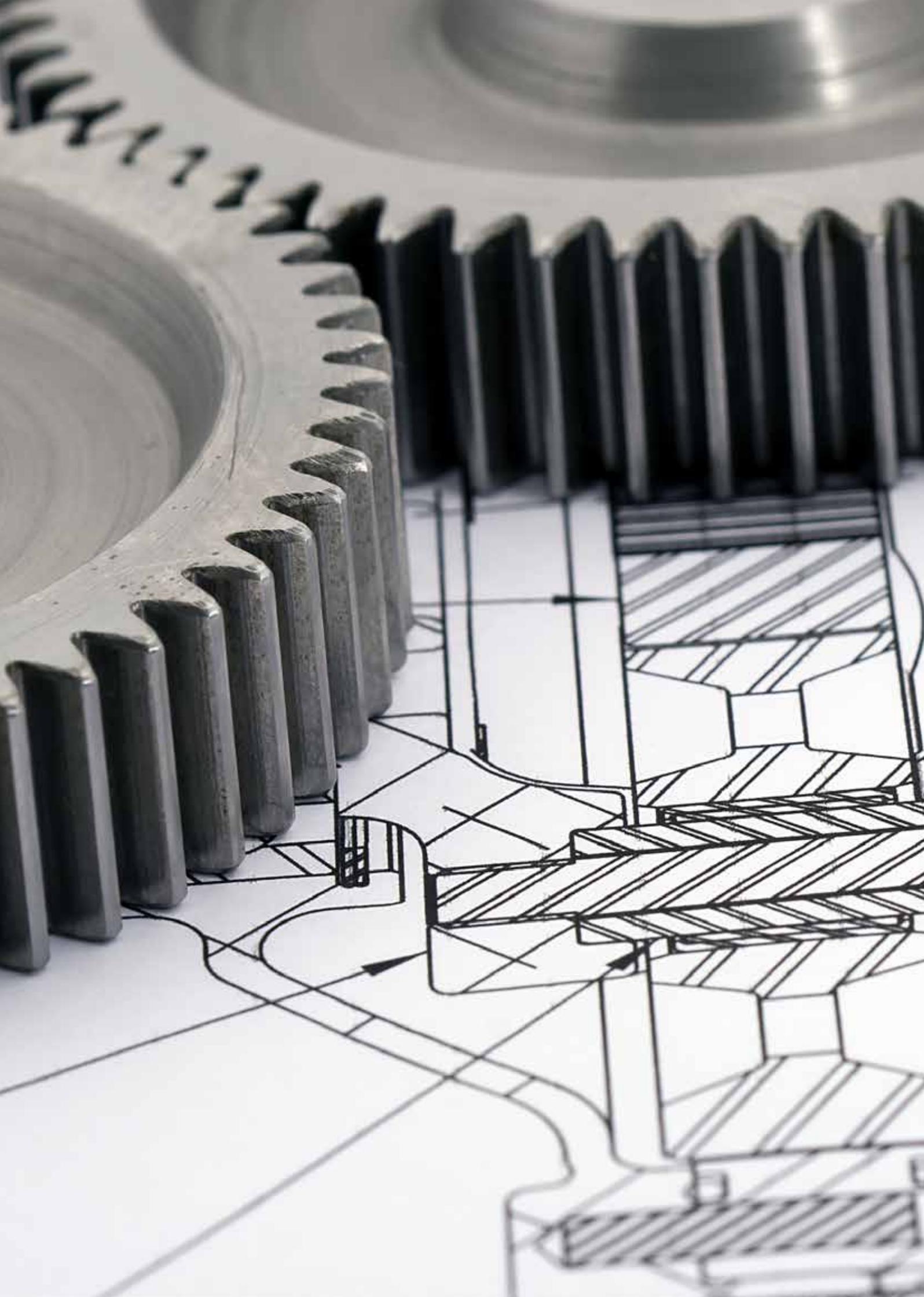
Type	Torque (Nm)	
805 W2	5000	
806 W2		10000
810 F2		17500

TYPE	MAX. ROPE PULL	OUTPUT TORQUE	RATIOS
	ton	Nm	1:
805 W2	2.0 ... 4.0	5000	22 ... 53
806 W2	4.0 ... 5.5	10000	30 ... 44
810 F2	6.0 ... 8.0	17500	21 ... 46

Note: according FEM classification: T4-L2-M4; output speed: 25 rpm



Type	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	L1	L2	L3	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



Sharing the value of our work with you.

The development of effective, tailored solutions for a wide range of applications is a fundamental aspect of our work.

We succeed in this because we co-operate closely with our customers, listen to their requests and work with them to improve our own performance.

Bonfiglioli is determined to deliver the best service possible – before, during and after the sale of any of our products – by applying all our know-how, experience, technology, and advanced communication tools. Bonfiglioli works to the strictest standards of quality and safety, as certified by seven different internationally recognised institutes.

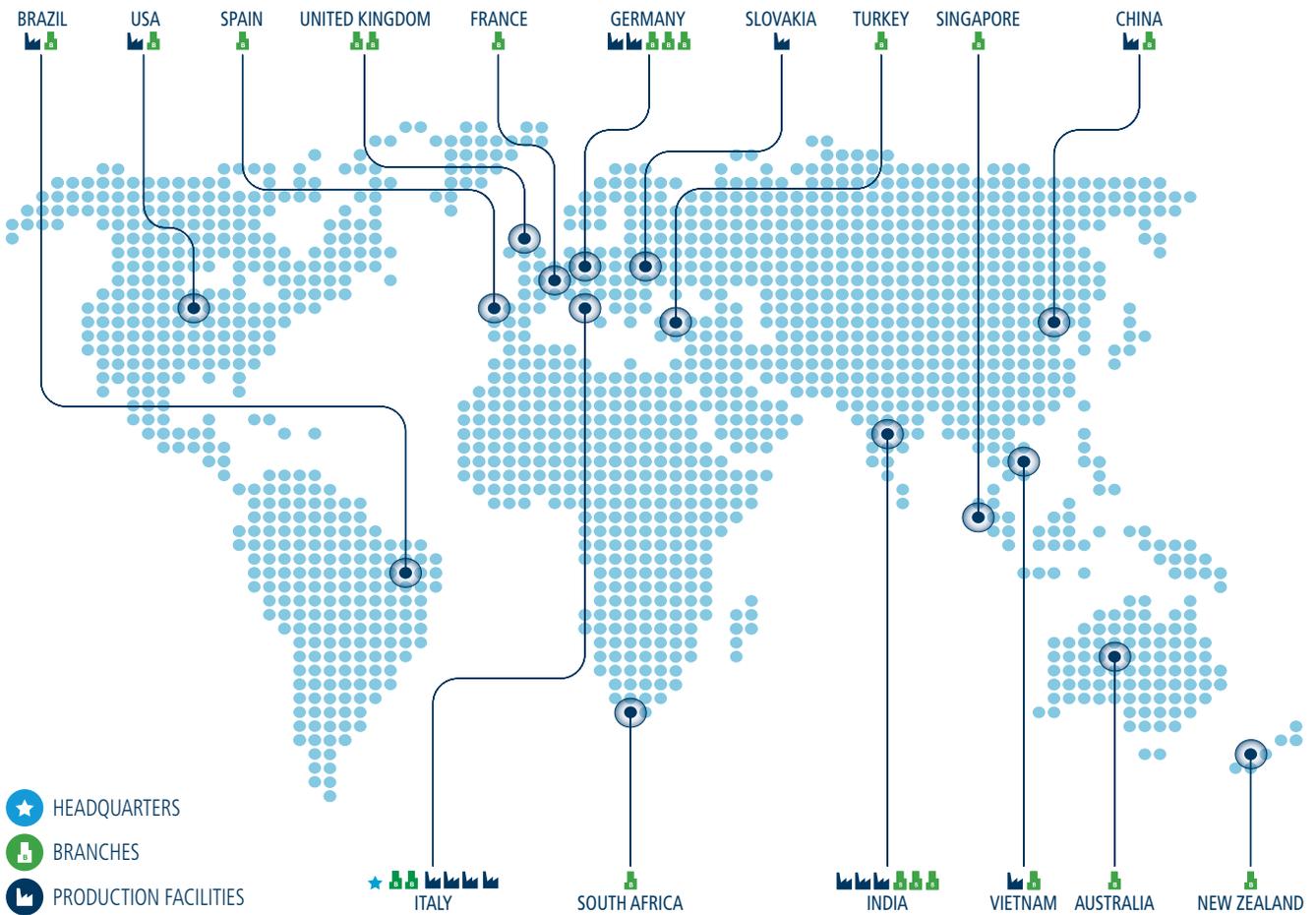
We believe in innovation, and back up this belief by dedicating 100 of our people and 5 activity centres to research and development, and by working hand in hand with some of the world's most prestigious universities.

Our work increasingly brings us into contact with other nations and cultures, for which we have the greatest respect and with whom we share a vision of sustainable development based on renewable energy.

This bond of commitment allows us to be an authoritative and reliable global partner for the present and the future.

Bonfiglioli worldwide presence

Bonfiglioli is located in regions and countries around the world that enable us to provide faster sales and service to customers.
We are around the world, and around the corner.



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We have a relentless commitment to excellence, innovation and sustainability. Our team creates, distributes and services world-class power transmission and drive solutions to keep the world in motion.



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