

Solutions for Building Construction

Construction



MARKETS &
APPLICATIONS





Building Construction



Planetary drives

300 Series

Drum drives

500 Series

500 Series with electric motor

Track drives

700C Series

700CE Series

F Series

Slew drives

700T Series

S Series

Winch drives

700C Series

700C Series with electric motor

FW Series

800 Series

The most reliable solutions for Building Construction

Enhancing construction equipment performance, efficiency, productivity and reliability is what we've done for over 40 years.

With experience alongside the major players in the world, our team of experts creates, designs and produces advanced technology solutions for a wide range of applications, such as transit mixer trucks, drilling equipment and cranes.

Our range of products, including planetary drives, drum drives, track drives, slew drives or winch drives, is perfectly tailored to meet a broad variety of drive specifications.

Bonfiglioli also provides solutions for:



ACCESS & AERIAL PLATFORMS



CONSTRUCTION INDUSTRY



EARTH-MOVING MACHINES



ROAD CONSTRUCTION

www.bonfiglioli.com



Planetary drives



300 Series

The 300 series is compact and powerful. Their planetary drive train makes them the ideal choice for all 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 for mounting, gear layout, output shaft and motor interface. All the features are available for each of the 20 finely spaced frame sizes, with a torque range of 1,000 to 1,100,000 Nm.



ELECTRIC SOLUTIONS



CONCRETE MIXERS

Output

- Foot and flange mounted
- Output shaft: solid with key, splined, splined hollow, hollow with shrink disc

Input

- IEC and Nema motor adapters
- Solid input shaft

Applicable motors

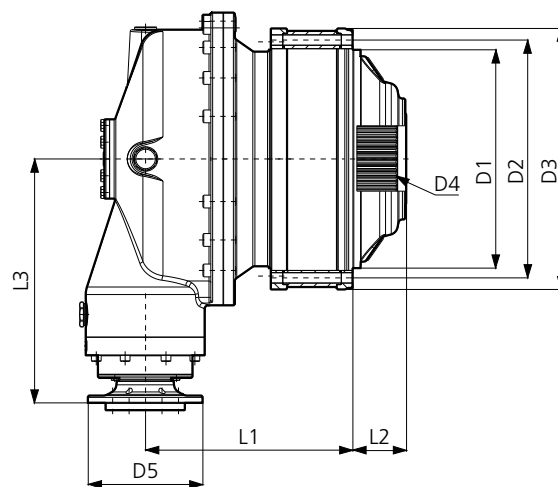
- Electric motors IEC

Torque (Nm)

307	12,500
309	18,000
310	25,000
311	40,000
313	55,000
315	100,000



Type	Mixer Capacity m ³	Ratios	Electric Motor Power 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

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.



HYDRAULIC SOLUTIONS



TRANSIT
MIXERS

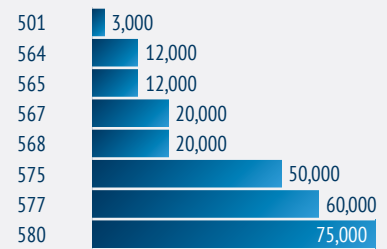
Applicable motors

- Axial piston motors to SAE
- Standard orbit motors

Key features

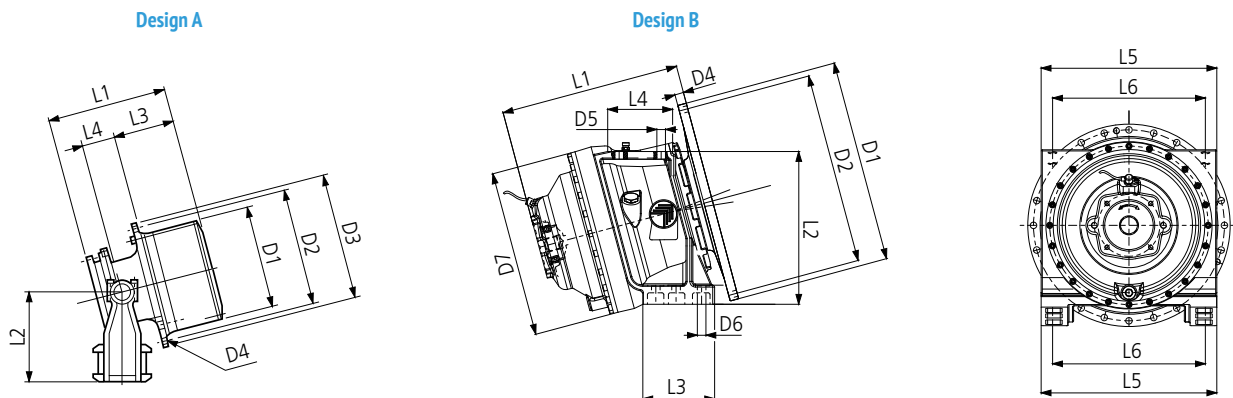
- Rotating housing flange
- Rugged design
- High torque capacity
- High load capacity
- Tilting output flange, evenly in all directions
- Mounting frame for water tank
- Water pump P.T.O.
- Speed sensor

Torque (Nm)



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	2,500	2 - 3	85	2	A	-	-
565	22	LS	550	2 - 3	70	1.5	A	-	-
567	76-90-115-128	HS	2,500	4 - 5	140	3	A	-	-
568	18-21-27	LS	550	4 - 5	130	2.5	A	-	-
575	99.3-102-141	HS	3,000	6 - 8	250	7	B	•	•
577	131	HS	3,000	8 - 10	290	8.5	B	•	•
580	130-135-140	HS	3,000	10 - 14	320	10	B	•	•

- (1) **LS** = Low speed motor / **HS** = High speed motor
 (2) General indication, application capacity depends 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 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.



ELECTRIC SOLUTIONS



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

Ratio

- Main: 1:220
- Emergency: 1:2,200

Max output torque

- Main: 60,000 Nm
- Emergency: 10,500 Nm

Max input speed

- Main: 3,500 rpm
- Emergency: 2,000 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

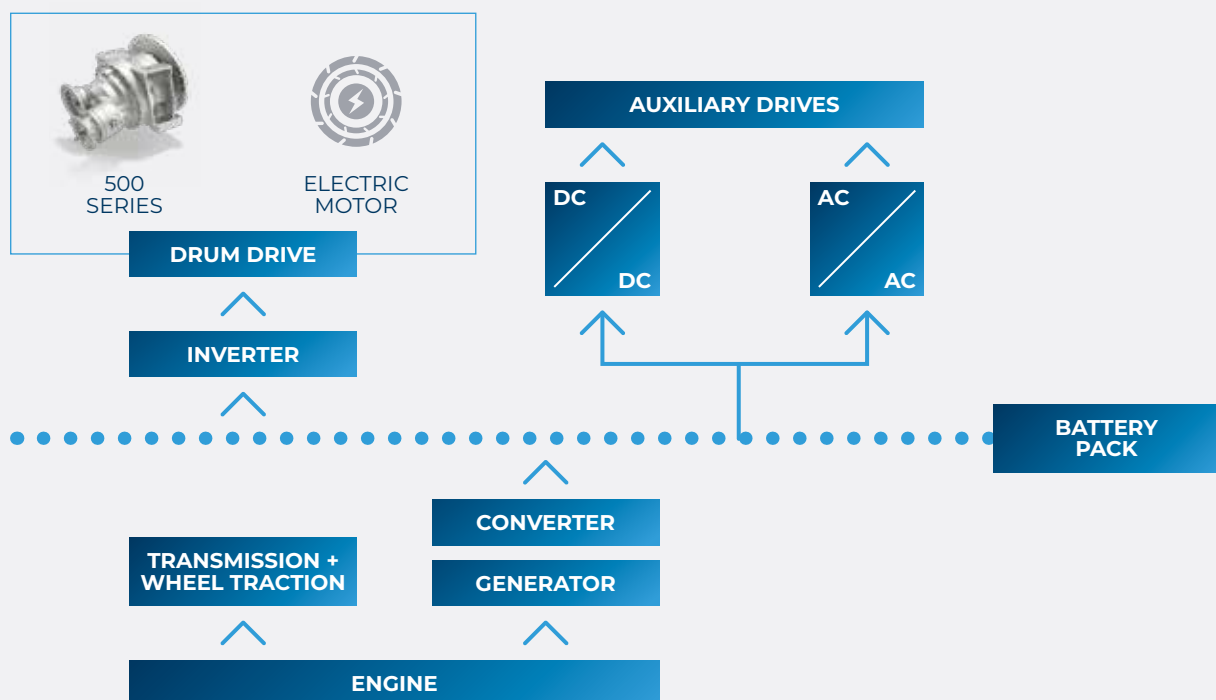
Cooling

- Main: Liquid
- Emergency: Air forced

Key features

- Service intervals less frequent and simplified versus the standard hydraulic solution
- Better drum rotation speed control
- The emergency electric DC motor allows higher availability in case of machine failure

Functional Diagram



Track drives



700C Series

Bonfiglioli 700C series units are unsurpassed by any crawler or milling machines. Thanks to compact, rugged design, high torque and load capabilities, and optional mechanical lifetime seals, these solutions are the best possible option for the machine. All units are available with a fail-safe parking brake and most have the option of cartridge type fixed or variable systems.



HYDRAULIC SOLUTIONS



CRAWLER
CRANES



CRUSHERS &
SCREENERS



DRILLING
MACHINES

Input speed

- up to 4,000 rpm

Brake options

- Hydraulically released parking brake on request

Applicable motors

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

Key features

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

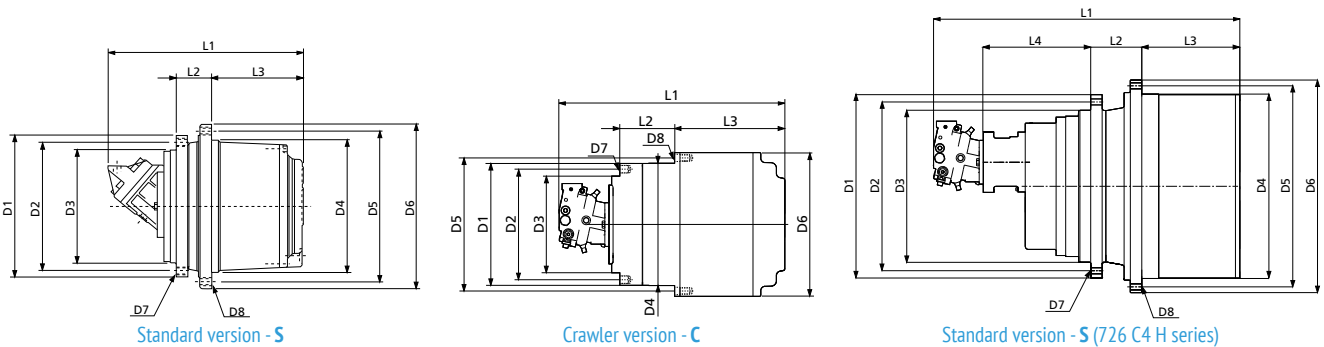
Torque (Nm)

705 C2 H	10,000
706 C3 B	18,000
707 C3 B	26,000
709 C3 B	30,000
710 C3 B	36,000
711 C3 B	45,000
713 C3 B	60,000
715 C3 B	85,000
716 C3 B	100,000
717 C3 H	130,000
718 C3 H	180,000
720 C3 H	220,000
722 C3 H	330,000
724 C4 H	450,000
726 C4 H	625,000



Type	Range of ratios	Max. input speed	Hydraulic motor drive ⁽¹⁾	Braking torque	Min. opening pressure	Weight
	1:	RPM		Nm	bar	kg
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
705 C2 H	270	230	190	220	260	300	M16x2 n°12	M16x2 n°16	Depend on motor type	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 drives



700CE Series

Bonfiglioli's 700CE planetary drives coupled with a high-power density electric motor are specifically designed for high-voltage hybrid powertrain systems. Many years of installation on crusher machines is concrete proof of the efficiency of these electric drive solutions. An integrated, maintenance-free IPM (internal permanent magnet) electric motor is included, giving significant benefits in terms of dimensions and efficiency.



ELECTRIC SOLUTIONS



Input speed

- up to 6,000 rpm

Motors

- Rated voltage DC BUS: 400 V
- Rated motor power: 24.4 kW S1
- Maximum motor torque: 400 Nm [255 A] (up to 1200 rpm)
- Motor speed: Up to 6000 rpm
- Protection class: IP 67
- Ins. Class: H
- Max. output torque: Up to 60 000 Nm

Key benefits

Benefits for OEMs

- Ability to downsize and downspeed combustion engines
- Ease of installation: electric solution dimensions comparable to standard hydrostatics
- Higher system reliability: fewer mechanical parts
- Virtually maintenance-free electric motors
- From sprocket to electric wire with only one supplier

Benefits for the end-user

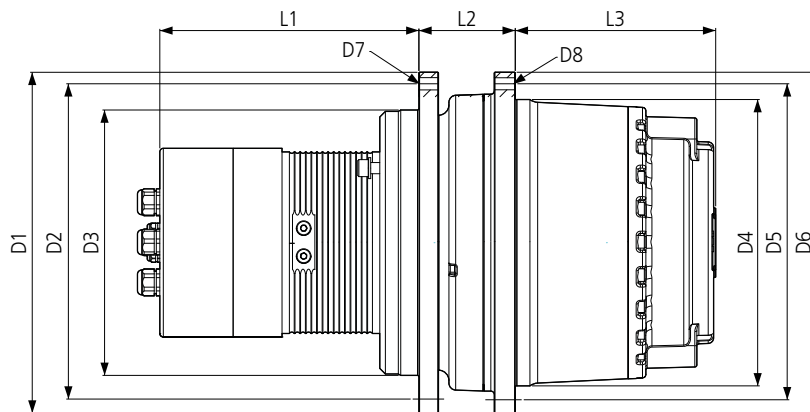
- Reduced fuel consumption
- Increased productivity
- Better machine maneuverability
- The electric solution is cleaner: lower risk of oil spills

Torque (Nm)

707 CE	26,000
709 CE	30,000
710 CE	36,000
711 CE	45,000
713 CE	60,000



Type	Crusher Weight	Max. Output Torque	Ratios
	ton	Nm	1:
707 C3 E	28	26,000	109 ÷ 154
709 C3 E	36	30,000	93 ÷ 147
710 C3 E	45	36,000	93 ÷ 166
711 C3 E	50	45,000	94 ÷ 163
713 C3 E	60	60,000	93 ÷ 147



Type	D1	D2	D3	D4	D5	D6	D7	D8	L1	L2	L3
707 C3 E*	317	285	240	300	340	370	M20x2.5 n°20	M16x2 n°20	371 Air cooling Depend on motor type	82	233
709 C3 E	375	340	300	330	370	400	M20x2.5 n°16	M16x2 n°30		91	243
710 C3 E	375	340	300	350	400	435	M20x2.5 n°16	M20x2.5 n°16		91	243
711 C3 E	425	325	290	410	455	490	M20x2.5 n°24	M20x2.5 n°24		110	265
713 C3 E	425	325	290	410	455	490	M20x2.5 n°24	M20x2.5 n°24		110	280

* e-motor installation by counter flange

Travel drives



F Series Medium final drives

The F Series is perfectly suited to any crawler and milling machine. Thanks to compact, rugged design, high torque and load capabilities, these solutions are the best possible option for these machines. All units are available with a fail-safe parking brake and for most cartridge type fixed or variable systems. Different disengagement systems are available on demand for all the sizes.



HYDRAULIC SOLUTIONS



CRAWLER
CRANES



CRUSHERS &
SCREENERS



DRILLING
MACHINES

Input speed

- up to 4,000 rpm

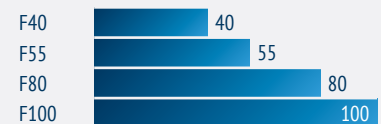
Main options

- Mechanical disconnect device

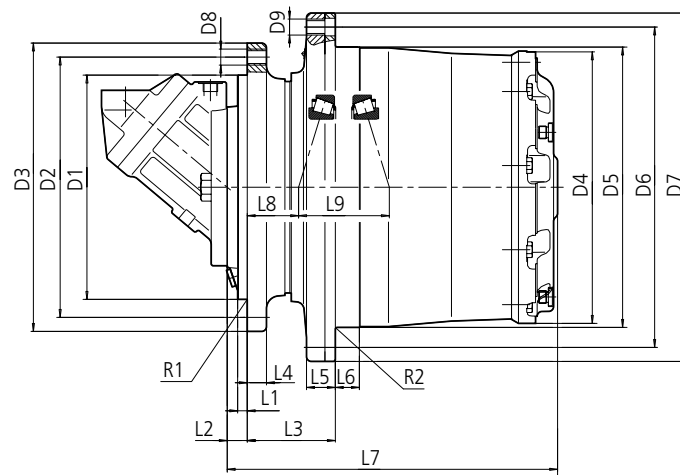
Key features

- Integrated hydraulic motor
- 2-stage planetary drive
- 2-speed hydraulic motor
- Counterbalance travel valve
- High pressure relief valves
- 2-speed shift function by external pilot control
- 2-speed shift function by external pilot control
- Automatically released parking brake

Torque (kNm)



Type	Ratios	Motor Displacement	Max Pressure	Max Oil Flow	Weight	Approx. Weight of Machine
	1:	cc/rev	bar	l/min	kg	ton
F40	61-181	40±90	450	160±405	115	18±22
F55	63-185	40±110	480	160±590	165	22±28
F80	61-206	80±180	450	312±648	230	28±35
F100	77-226	107±180	450	380±648	330	35±50



Type	L1	L2	L3	L4	L5	L6	L7	L8	L9	R1	R2	D1	D2	D3	D4	D5	D6	D7	D8	D9	Qty. D8/D9
F40	16	16	91	21	34	26	338	38	100	2.5	2.5	240	285	320	294	295	335	370	M20x1.5	M20x1.5	20/20
F55	12	25	110	24	36	30	413	64	113	1	2.5	280	325	360	340	350	400	435	M20x1.5	M20x1.5	24/20
F80	20	35	90	22	37	24	415	34	123	4	2.5	330	370	410	374	400	450	490	M20x1.5	M20x1.5	20/20
F100	35/37	35/37	165	28	53	43	461/463	32	139	10 (12)/60	5	390	460	500	407	408	460	500	M24x2	M24x2	30/24

Travel drives



F Series

Large & XLarge final drives

The F Series is perfectly suited to any crawler and milling machine. Thanks to compact, rugged design, high torque and load capabilities, and optional mechanical lifetime seals, these solutions are the best possible option for these machines. All units are available with a fail-safe parking brake and for most cartridge type fixed or variable systems. Different disengagement systems are available on demand for all the sizes.



HYDRAULIC SOLUTIONS



CRAWLER
CRANES



CRUSHERS &
SCREENERS



DRILLING
MACHINES

Input speed

- up to 4,000 rpm

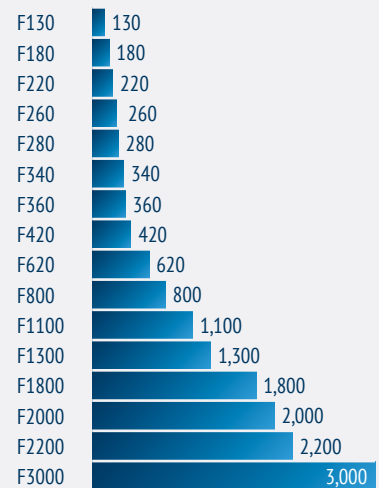
Main options

- Mechanical disconnect device

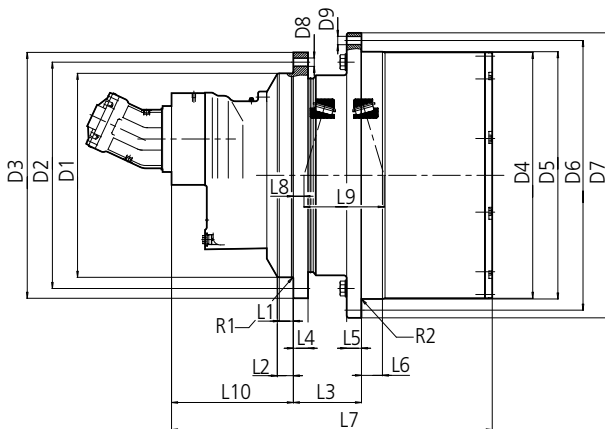
Key features

- Integrated hydraulic motor
- 2-stage planetary drive
- 2-speed hydraulic motor
- Counterbalance travel valve
- High pressure relief valves
- 2-speed shift function by external pilot control
- 2-speed shift function by external pilot control
- Automatically released parking brake

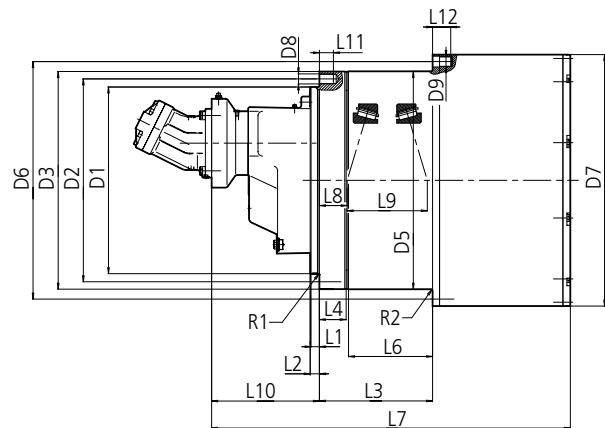
Torque (kNm)



Type	Ratios	Motor Displacement	Max Pressure	Max Oil Flow	Weight	Approx. Weight of Machine
	1:	cc/rev	bar	l/min	kg	ton
F130	69-206	107 - 180	400	500	450	50 ÷ 70
F180	206-281	160 - 180	400	500	630	70 ÷ 90
F220	97-345	107 - 180	400	500	740	90 ÷ 120
F260	69-345	250÷355	400	795	865	90÷120
F280	201	250	400	500	1,040	120 ÷ 150
F340	257	250	400	500	976	150÷180
F360	94-490	355	350-400	500-750	1,080	150 ÷ 180
F420	259	(2x) 160	350-400	500-750	1,500	180 ÷ 220
F620	249-462	(2x) 250 - (1x) 500	350-400	500-750	2,897	220 ÷ 300
F800	283-298	(2x) 250 - (2x) 280	350-400	500-750	3,764	300 ÷ 400
F1100	406	(2x) 250 - (2x) 280	350-400	500-750	7,220	400 ÷ 500
F1300	461	(2x) 250	350-400	500-750	7,400	500 ÷ 600
F1800	656-744	(2x) 250 - (2x) 280	350-400	500-750	7,500	600 ÷ 800
F2000	516-989	(2x) 250 - (2x) 355	350÷400	500÷750	10,700	800÷1000
F2200	552-989	(2x) 355	350-400	500-750	10,736	800 ÷ 1,000
F3000	699	(2x) 250 - (2x) 280	350-400	500-750	11,500	1,200 ÷ 1,400



Standard input version - ST



Crawler crane version - CC

Type	L1	L2	L3	L4	L5	L6	L7	L10	R1	R2	D1	D2	D3	D4	D5	D6	D7	D8	D9	Qty. D8/D9
F130	45	45	190	35	58	45	530	-	25	4	390	500	550	449	450	500	550	M24x2	M24x2	32/32
F180	30	30	168	40	56	21.5	534.5	-	4	3	450	510	560	528	535	600	650	M24x2	M27x2	30/30
F220	18	52	166.5	40	61	35	580.5	-	35° 16/16	4	460	600	650	540	542	600	650	M24x2	M24x2	38/38
F260	21	45	170	40	48	60	579	-	2	-	460	520	570	608	610	680	735	M30x2	M30x3.5	24/24
F280	52	125	125	40	65	45	627	-	18° 50/5	4	530	630	685	608	610	685	740	M30x3.5	M30x3.5	28/28
F340	100	100	130	40	60	80	697.5	-	18°/100/16	10	580	680	735	649,5	650	720	775	M30x3,5	M30x3,5	30/30
F360	100	100	130	40	60	80	658	-	18°/100/16	10	580	680	735	649	650	720	775	M30x3.5	M30x3.5	30/30
F420	60	132	130	40	60	80	1026	-	10	10	660	744	795	670	674	744	795	M30x2	M30x2	42/42
F620	50	57.5	245	52.5	53	75	1232	341	4	-	730	810	880	880	885	965	1020	M30x2	M30x2	41/48
F800	20	25	229	60	58	170	1315	713	6	8	830	980	1050	916	920	976	1055	M30x2	M30x2	48/48
F1100	57	60	503	74	-	-	1483	713	10	6	1110	1230	1310	1116	-	1170	1226	M36x4	M30x3.5	48/52
F1300	57	60	503	74	-	-	1623	395.5	10	6	1110	1230	1310	1116	1100	1170	1226	M36x4	M30x3.5	48/52
F1800	54	60	310	74	107	191.5	1839.5	615.5	10	10	1110	1230	1310	1224	1250	1350	1430	M36x1.5	M42x2	48/40
F2000	70	70	343	80	100	80	1846	591	10	10	1288	1400	1500	1224	1230	1320	1400	M42x3	M42x3	50/48
F2200	60	70	343	80	100	80	1846	591	10	10	1288	1400	1500	1224	1230	1320	1400	M42x3	M42x3	50/48
F3000	60	70	343	80	100	80	2000	606	10	10	1288	1400	1500	1224	1230	1320	1400	M42x3	M42x3	50/48

Slew drives



700T Series

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

Thanks to a long established experience on cranes, excavators and industrial equipments applications, Bonfiglioli offers a robust and reliable product to crane builders.



ELECTRIC SOLUTIONS



BUILDING CRANES



CRAWLER CRANES



DRILLING MACHINES



ROUGH TERRAIN CRANES



TRUCK MOUNTED CONCRETE PUMPS

Brake options

- DC and AC type

Applicable motors

- Piston hydraulic motors
- Hydraulic orbit motors
- Electric motors IEC

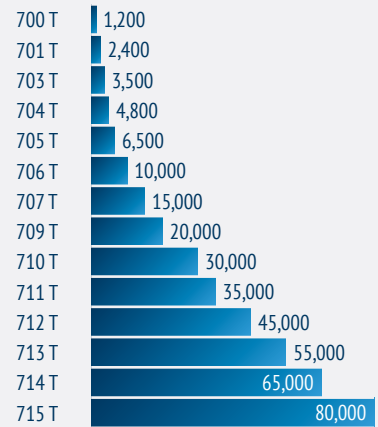
Motor options

- Pressure relief valve
- Overcenter valve

Key features

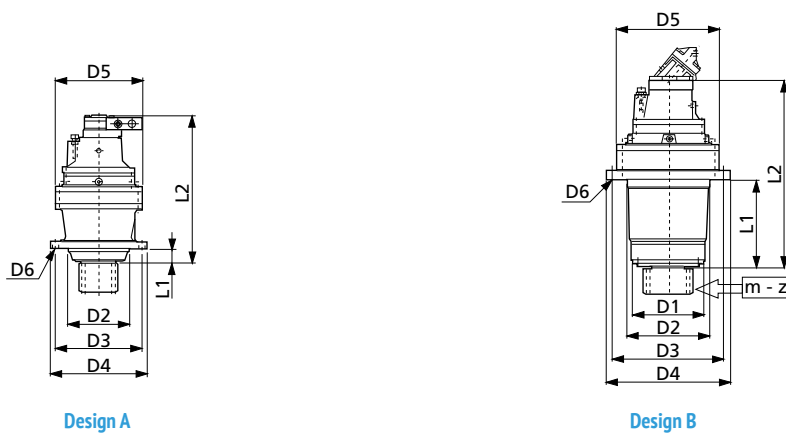
- Flange mounted
- Output shaft: splined or with
- Integral pinion
- Rugged construction
- High torque capacity
- Output shafts supported by heavy-duty capacity bearings

Torque (Nm)



Type	Range of Ratios	Max. Input Speed	Hydraulic Motor Drive*	Braking Torque	Min. Opening Pressure	Design
	max/min	bar		Nm	bar	
700 TF	3.48-7.2	500	LS	50 - 400	10 - 30	A
701 TF	3.48-7.2	500	LS	50 - 400	10 - 30	A
703 TF	12-44	3,000	HS	50 - 400	10 - 30	A
704 TF	12-44	3,000	HS	50 - 400	10 - 30	A
705 TF	12-44	3,000	HS	50 - 400	10 - 30	A
705 TL	12-44	3,000	HS	50 - 400	10 - 30	B
706 TN	15-46	3,000	HS	400 - 1,000	20 - 30	B
707 TN	17-47	3,000	HS	400 - 1,000	20 - 30	B
709 TN	17-47	3,000	HS	400 - 1,000	20 - 30	B
710 TN	19-38	3,000	HS	400 - 1,000	20 - 30	B
711 TC	14-39	3,000	HS	400 - 1,000	20 - 30	B
711 TF	14-39	3,000	HS	400 - 1,000	20 - 30	A
712 TF	80-200	3,000	HS	400 - 1,000	20 - 30	A
712 TN	80-200	3,000	HS	400 - 1,000	20 - 30	B
713 TN	50-300	3,000	HS	400 - 1,000	20 - 30	B
714 TF	90-180	3,000	HS	400 - 1,000	20 - 30	A
715 TN	57-250	3,000	HS	400 - 1,000	20 - 30	B

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



Design A

Design B

Type	D1	D2	D3	D4	D5	D6	L1	L2	m	z
700 TF	-	150	195	220	186	12.5	31	300		
701 TF	-	150	195	220	186	12.5	31	325		
703 TF	-	175	245	272	245	18	41	410		
704 TF	-	175	245	272	245	18	41	400		
705 TF	-	175	245	272	245	18	41	440		
705 TL	180	195	245	290	245	13	171	470		
706 TN	200	250	325	360	292	17	225	560		
707 TN	230	280	314	348	345	17	295	670		
709 TN	250	280	380	420	345	17	295	720		
710 TN	300	425	460	500	400	22	360	730		
711 TC	300	425	460	500	428	22	345	735		
711 TF	500	320	500	560	425	22	70	750		
712 TF	-	410	450	490	420	ø21 n°24	120	900		
712 TN	400	425	470	510	420	ø20 n°30	350	900		
713 TN	340	400	510	560	445	22	420	1,030		
714 TF	-	420	490	530	490	ø22 n°24	160	1,100		
715 TN	370	470	600	640	542	22	465	1,250		

Module/number of teeth of pinion UPON REQUEST

Slew drives



S Series

Bonfiglioli O&K S-series provide the safest and most effective solution for cranes, excavators and forestry machines.

The compact design allows to perfectly fit cranes, excavators and special equipment industries where the installation space is limited.



HYDRAULIC SOLUTIONS

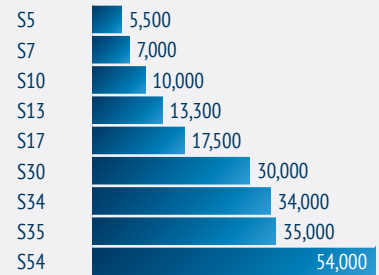


DRILLING
MACHINES

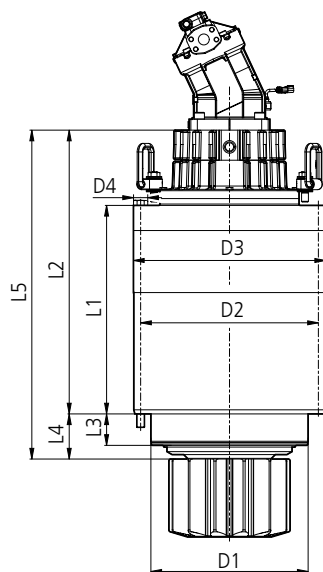
Key features

- Compact structure
- High performance
- Notchless ground tooth root
- Integrated disc-brake
- Suitable for various hydraulic motors
- High availability by highest teeth and production quality
- Interchangeable solutions

Torque (Nm)



Type	Ratios	Braking Torque	Brake Release Pressure	Weight
	1:	Nm	bar	kg
S5	25-33	310	14	68
S7	23-27-33	475	14	98
S10	24-27-31-36	475	14	108-123
S13	36	740	18	147
S17	33	890	18	168
S30	45	1,030	18	540
S34	45	1,030	18	480
S35	35	1,030	18	528
S54	48	1,200	38	867



Type	L1	L2	L3	L4	L5	D1	D2	D3	D4
S5	60	262	31	40	302	175	260	288	12x17.5
S7	60	296	31	40.5	336.5	230	285	322	12x17.5
S10	60	306.5 - 314	31	50	356.5 - 364	250	305	335	18x17.5
S13	71	340	30 (50)*	55 (75)*	395 (415)*	275	335	370	20x17.5
S17	86	355	50.5	55	410	275	335	370	20x17.5
S30	332	737	33	65	802	350	415	450	24x22
S34	332	785	33	65	808	350	415	450	24x22
S35	239	653	30	91	744	400	460	500	24x26
S54	610	780	40	87	917	460	520	562	24x26

* Optional

Winch drives



700C Series

Planetary winch gearboxes of the 700C series are composed of 18 finely spaced frame sizes. The compact design allows the gearbox to be integrated into the winch drum. The failsafe brake can be integrated inside the gearbox or mounted externally, with common lubrication for the gears. Electrically driven versions are available with both in-line and right-angle configurations. Torque ratings are organized by FEM class, in accordance with minimum approved class safety factors for gears.



HYDRAULIC SOLUTIONS



DRILLING
MACHINES



ROUGH TERRAIN
CRANES

Input speed

- up to 4,000 rpm

Applicable motors

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

Key features

- Class approval program
- ATEX conformity on demand
- Torque ratings are organized by FEM class
- The failsafe brake can be integrated inside the gearbox or mounted externally, with common lubrication for the gears
- Electrically driven variations are available with both in-line and right angled configurations

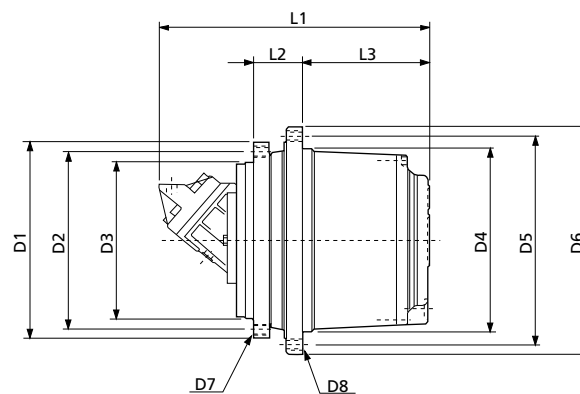
Torque (Nm)

703 C2	2,000
705 C2	5,300
706 C3	10,000
707 C3	16,000
709 C3	23,000
710 C3	29,500
711 C3	31,000
713 C3	48,500
715 C3	64,500
716 C3	77,500
717 C3	105,990
718 C3	111,500
720 C3	164,500
722 C3	260,000



Type	Range of ratios	Max. input speed	Hydraulic motor drive ⁽¹⁾	Braking torque	Min. opening pressure	Weight
	1:	RPM		Nm	bar	kg
703 C2	19-40	4000	HS	210	18	42
705 C2	22-53	3500	HS	220 - 310	10 - 20	60
706 C3	68-173	3500	HS	250 - 500	10 - 20	95
707 C3	55-120	3500	HS	250 - 500	10 - 20	135
709 C3	55-147	3500	HS	250 - 600	10 - 20	180
710 C3	55-166	3500	HS	250 - 600	10 - 20	200
711 C3	71-163	3500	HS	400 - 800	10 - 20	270
713 C3	56-147	3000	HS	400 - 800	10 - 20	310
715 C3	62-156	3000	HS	600 - 1000	10 - 20	350
716 C3	83-174	3000	HS	800 - 1200	10 - 20	400
717 C3	92-211	3000	HS	800 - 1200	10 - 20	630
718 C3	87-263	3000	HS	800 - 1400	10 - 20	750
720 C3	175-287	3000	HS	800 - 1700	10 - 20	820
722 C3	296-492	3000	HS	1500 - 2500	15 - 30	1300

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



Type	D1	D2	D3	D4	D5	D6	D7	D8	L1	L2	L3	L4
703 C2	270	230	190	200	240	280	M16x2 n°8	M20x1.5 n°8	Depend on motor type	72	128	-
705 C2	270	230	190	220	260	300	M16x2 n°12	M16x2 n°16		72	158	-
706 C3	330	300	270	280	330	370	M16x2 n°18	M16x2 n°18		115	190	-
707 C3	317	285	240	300	340	370	M20x2.5 n°20	M16x2 n°20		82	233	-
709 C3	375	340	300	330	370	400	M20x2.5 n°16	M16x2 n°30		91	243	-
710 C3	375	340	300	350	400	435	M20x2.5 n°16	M20x2.5 n°16		91	243	-
711 C3	425	325	290	410	455	490	M20x2.5 n°24	M20x2.5 n°24		110	265	-
713 C3	425	325	290	410	455	490	M20x2.5 n°24	M20x2.5 n°24		110	280	-
715 C3	500	460	420	460	510	550	M20x2.5 n°24	M20x2.5 n°24		130	315	-
716 C3	500	460	420	460	500	550	M24x3 n°24	M18x1.5 n°36		165	308	-
717 C3	570	510	450	560	610	660	M30x3.5 n°20	M24x3 n°24		170	350	-
718 C3	570	510	450	576	626	670	M24x3 n°30	M24x3 n°20		170	350	-
720 C3	650	600	460	610	680	735	M30x3.5 n°30	M30x3.5 n°24		170	370	-
722 C3	735	680	580	660	730	785	M30x3.5 n°30	M30x3.5 n°30		188	430	-

Winch drives



700C Series

The Bonfiglioli 700C series is highly suitable with any crawler. Thanks to compact, rugged design, high torque and load capabilities, and optional mechanical lifetime seals, these solutions are the best possible option for the machine.

All units are available with a fail-safe parking brake and for most cartridge type fixed or variable systems.



ELECTRIC SOLUTIONS



BUILDING
CRANES



CRAWLER
CRANES

Brake options

- Hydraulically released parking brake on request

Applicable motors

- Flanged axial piston motors
- Orbit motors

Key features

- Rotating housing
- Rugged design
- High torque capacity
- High load capacity
- Compact design

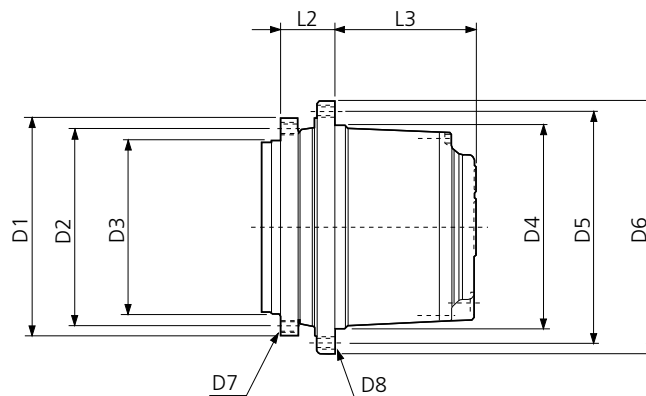
Torque (Nm)

703 C2 H	2,500
705 C2 H	5,000
706 C3 B	10,000
707 C3 B	15,000
709 C3 B	22,000
710 C3 B	28,000
711 C3 B	30,000



Type	Max. Rope Pull	Output Torque	Ratios
	ton	Nm	1:
703 C2 H	1.4 ... 2	2,500	19... 40
705 C2 H	2 ... 4	5,000	22... 53
706 C3 B	4 ... 6	10,000	68... 128
707 C3 B	6 ... 8	15,000	55... 120
709 C3 B	8 ... 10	22,000	55... 147
710 C3 B	10 ... 14	28,000	55... 166
711 C3 B	14 ... 18	30,000	71... 163

Note: according to 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 no.8	M20x1.5 no.8	72	128
705 C2 H	270	230	190	220	260	300	M16x2 no.12	M16x2 no.16	72	158
706 C3 B	330	300	270	280	330	370	M16x2 no.18	M16x2 no.18	115	190
707 C3 B	317	285	240	300	340	370	M20x2.5 no.20	M16x2 no.20	82	233
709 C3 B	375	340	300	330	370	400	M20x2.5 no.16	M16x2 no.30	91	243
710 C3 B	375	340	300	350	400	435	M20x2.5 no.16	M20x2.5 no.16	91	243
711 C3 B	425	325	290	410	455	490	M20x2.5 no.24	M20x2.5 no.24	110	265

Winch drives



FW Series

The planetary winch gearboxes of the FW Series are suitable for a large spectrum of winch application thanks to the availability of a wide torque range. The compact design allows the gearbox to be integrated into the winch drum. The failsafe brake can be integrated inside the gearbox or mounted externally, with common lubrication with the gears. Electrically driven versions are available with both in-line and right-angle configurations.



ELECTRIC SOLUTIONS



BUILDING
CRANES

Applicable motors

- Hydraulic motors
- Hydraulic orbit motors
- Electric motors IEC

Key features

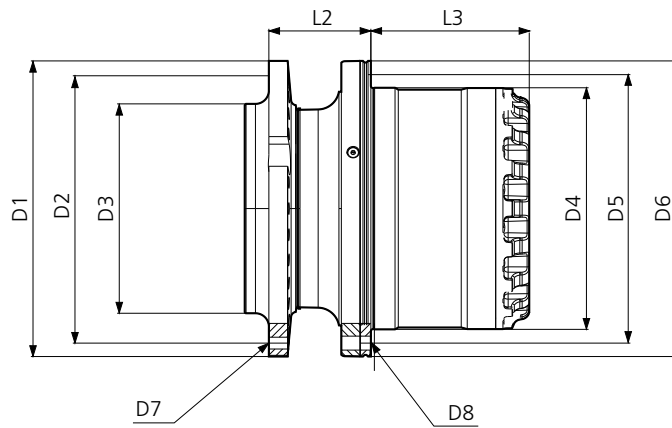
- Compact structure
- Robust layout of planetary gear unit
- Robust taper roller bearings for drum support and cable pull
- Integrated disc-brake
- Easy oil change from front side
- Easy drum mounting
- High variety of ratios
- High variety of hydraulic and electric motors
- Input shafts and angular input available
- Interchangeable solutions available

Torque (Nm)

FW 10	5,400
FW 13	7,250
FW 30	17,600
FW 40	20,000
FW 55	25,400



Type	Max. Rope Pull	Output Torque	Range of Ratios
	ton	Nm	1:
FW 10	2 ... 4	5,400	35 ... 51
FW 13	4 ... 6	7,250	93 ... 229
FW 30	6 ... 8	17,600	61 ... 305
FW 40	8 ... 10	20,000	61 ... 181
FW 55	10 ... 14	25,400	63 ... 185



Type	D1	D2	D3	D4	D5	D6	D7	D8	L2	L3
FW 10	256	230	190	220	260	290	M16X2 no.12	M16X2 no.8	72	142
FW 13	256	230	190	220	260	290	M16X2 no.12	M16X2 no.8	72	153
FW 30	304	275	240	270	305	335	M16X2 no.18	M16X2 no.18	75	223
FW 40	320	285	240	295	335	370	M16X1.5 no.20	M16X1.5 no.20	91	231
FW 55	360	325	280	350	400	435	M20X1.5 no.24	M20X1.5 no.20	110	288

Winch drives



800 Series

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

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



ELECTRIC SOLUTIONS



BUILDING
CRANES



CRAWLER
CRANES



CRUSHERS &
SCREENERS



DRILLING
MACHINES



ROUGH TERRAIN
CRANES



TRUCK-MOUNTED
CRANES

Brake options

- Hydraulically released parking brake on request

Applicable motors

- Flanged axial piston motors
- Orbit motors

Key features

- Rotating housing flange
- Rugged construction
- High torque capacity
- High load capacity
- Freewheel for anti run-back device, as an option

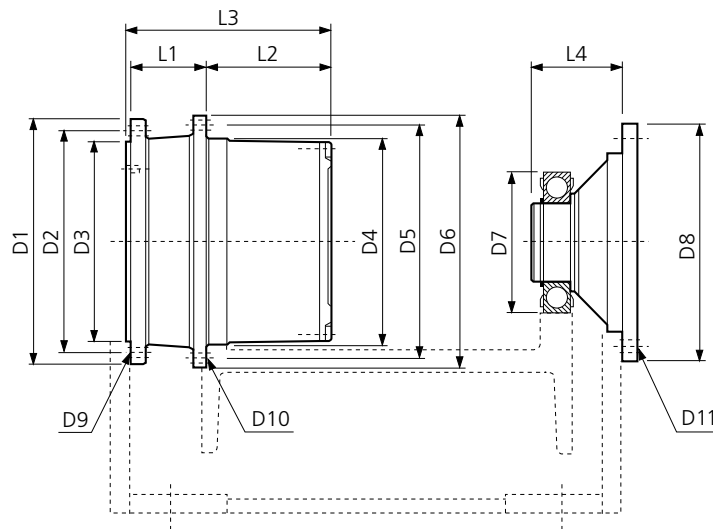
Torque (Nm)

805 W2	5,000
806 W2	10,000
810 F2	17,500



Type	Max. Rope Pull	Output Torque	Ratios
	ton	Nm	1:
805 W2	2.0 ... 4.0	5,000	22 ... 53
806 W2	4.0 ... 5.5	10,000	30 ... 44
810 F2	6.0 ... 8.0	17,500	21 ... 46

Note: according to 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 no.16	ø13 no. 16	ø13 no. 8	75	158	250	95
806 W2	330	300	270	280	315	340	140	210	M16x2 no.12	ø17 no. 12	ø13 no. 8	100	165	280	95
810 F2	270	240	215	350	375	410	190	320	M16x2 no.18	ø13 no. 24	ø19 no. 12	25	310	360	110

Global Presence



Bonfiglioli is a market force with a presence spanning 22 countries on 5 continents. Our organization makes the most of geographic proximity to offer complete solutions combining efficiency and competence.



3700
EMPLOYEES



22
BRANCHES



14
PLANTS



550
DISTRIBUTORS



80
COUNTRIES

We Are a Global Company

Thanks to an international network of sales branches and closely interconnecting production plants, we can guarantee the same high standards of Bonfiglioli quality anywhere at any given time. Aware that our direct presence in local markets is the key to long-lasting success, our family includes 22 sales branches, 14 production plants and more than 500 distributors around the world.

Our organization is always close by, offering complete and efficient solutions and supporting our customers with dedicated services, such as co-engineering or after-sales assistance.



Bonfiglioli Worldwide Locations

Australia

www.bonfiglioli.com.au
2, Cox Place Glendenning NSW 2761
Locked Bag 1000 Plumpton NSW 2761
Tel. +61 2 8811 8000

Brazil

www.bonfigliolidobrasil.com.br
Travessa Cláudio Armando 171 - Bloco 3 - CEP 09861-730
Bairro Assunção - São Bernardo do Campo - São Paulo
Tel. +55 11 4344 2322

China

www.bonfiglioli.cn
Bonfiglioli Drives (Shanghai) Co., Ltd.
#68, Hui-Lian Road, QingPu District,
201707 Shanghai
Tel. +86 21 6700 2000

France

www.bonfiglioli.fr
14 Rue Eugène Pottier
Zone Industrielle de Moimont II - 95670 Marly la Ville
Tel. +33 1 34474510

Germany

www.bonfiglioli.de
Bonfiglioli Deutschland GmbH
Sperberweg 12 - 41468 Neuss
Tel. +49 0 2131 2988 0

Bonfiglioli Vectron

Europark Fichtenhain B6 - 47807 Krefeld
Tel. +49 0 2151 8396 0

O&K Antriebstechnik

Ruhrallee 8-12 - 45525 Hattingen
Tel. +49 0 2324 2050 1

India

www.bonfiglioli.in
Bonfiglioli Transmissions Pvt. Ltd.
Plot No. AC7-AC11, SIDCO Industrial Estate,
Thirumudivakkam - 600 044 Chennai
Tel. +91 44 2478 1035

Industrial

Survey No. 528, Porambakkam High Road,
Mannur Village, Sriperambudur Taluk - 602 105 Chennai
Tel. +91 44 6710 3800
Plot No. A-95, Phase IV, MIDC Chakan, Village Nighoje
Pune, Maharashtra - 410 501

Italy

www.bonfiglioli.it

Headquarters

Bonfiglioli Riduttori S.p.A.
Via Giovanni XXIII, 7/A - 40012 Lippo di Calderara di Reno
Tel. +39 051 647 3111

Mobile, Wind

Via Enrico Mattei, 12 Z.I. Villa Selva - 47100 Forlì
Tel. +39 0543 789111

Industrial

Via Bazzane, 33/A - 40012 Calderara di Reno
Tel. +39 051 6473111
Via Trinità, 1 - 41058 Vignola
Tel. +39 059 768511
Via Sandro Pertini lotto 7b - 20080 Carpiano
Tel. +39 02 985081

Bonfiglioli Mechatronic Research

Via F. Zeni 8 - 38068 Rovereto
Tel. +39 0464 443435/36

New Zealand

www.bonfiglioli.co.nz
88 Hastie Avenue, Mangere Bridge, 2022 Auckland
PO Box 11795, Ellerslie
Tel. +64 09 634 6441

Singapore

www.bonfiglioli.com
24 Pioneer Crescent #02-08
West Park Bizcentral - Singapore, 628557
Tel. +65 6268 9869

Slovakia

www.bonfiglioli.com
Robotnícka 2129
Považská Bystrica, 01701 Slovakia
Tel. +421 42 430 75 64

South Africa

www.bonfiglioli.co.za
55 Galaxy Avenue, Linbro Business Park - Sandton
Tel. +27 11 608 2030

Spain

www.tecnotrans.bonfiglioli.com
Tecnotrans Bonfiglioli S.A.
Pol. Ind. Zona Franca, Sector C, Calle F, nº 6
08040 Barcelona
Tel. +34 93 447 84 00

Turkey

www.bonfiglioli.com.tr
Atatürk Organize Sanayi Bölgesi, 10007 Sk. No. 30
Atatürk Organize Sanayi Bölgesi, 35620 Çiğli - Izmir
Tel. +90 0 232 328 22 77

United Kingdom

www.bonfiglioli.co.uk
Industrial
Unit 7, Colemeadow Road
North Moons Moat - Redditch, Worcestershire B98 9PB
Tel. +44 1527 65022

Mobile, Wind

3 - 7 Grosvenor Grange, Woolston
Warrington - Cheshire WA1 4SF
Tel. +44 1925 852667

USA

www.bonfiglioliusa.com
3541 Hargrave Drive
Hebron, Kentucky 41048
Tel. +1 859 334 3333

Vietnam

www.bonfiglioli.vn
Lot C-9D-CN My Phuoc Industrial Park 3
Ben Cat - Binh Duong Province
Tel. +84 650 3577411



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.

HEADQUARTERS

Bonfiglioli Riduttori S.p.A.
Via Giovanni XXIII, 7/A
40012 Lippo di Calderara di Reno
Bologna (Italy)
tel: +39 051 647 3111
fax: +39 051 647 3126
bonfiglioli@bonfiglioli.com
www.bonfiglioli.com

