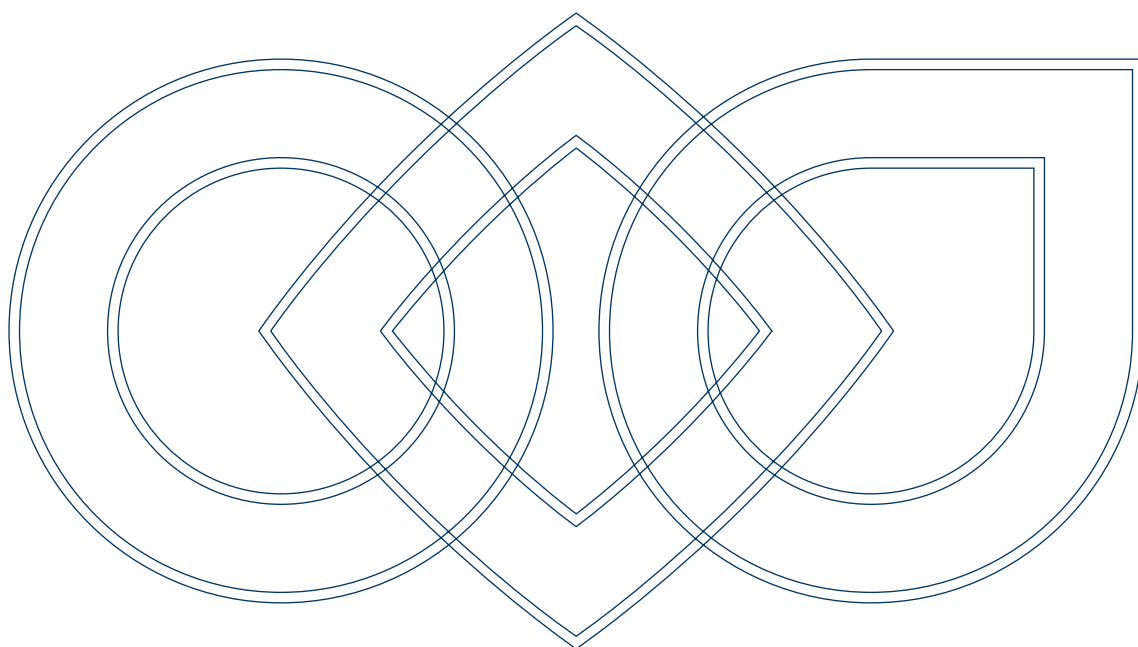




Electromobility Solutions



PRODUCT
RANGE



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Electric powertrain & drive solutions

Heavy duty vehicle manufacturers are eagerly seeking improvements in efficiency and are looking for solutions that can increase productivity and reduce the total cost of ownership for the end-user. Current emission regulations applied to the automotive industry have been extended to heavy duty vehicles, and the only way to meet these strict standards is to improve the powertrain efficiency.

Bonfiglioli began developing and producing powertrains consisting of planetary gearboxes driven by electric and hydraulic motors back in the 80s, and continues to invest each year in technology and competences.

Dedicated products for a wide range of applications

Various solutions have been designed specifically for use with electric motors, and offer a wide range of performance specifications and deliverable torque ratings. The latest products include a series of planetary drives for electric material handling vehicles and planetary drives with integrated electric motors for hybrid agricultural machines. These solutions have been shown to deliver numerous benefits in terms of machine manoeuvrability, reliability, operating costs and sustainability, thanks to low emissions and low working noise levels.

Tailored-made solutions

Wherever a custom solution is required, manufacturers can benefit from Bonfiglioli's vast technical expertise. Our teams work closely with powertrain designers and component suppliers to develop innovative and efficient tailored-made solutions. Bonfiglioli can count on years of experience in powertrain design for light and medium duty vehicles; the concepts and technologies involved are likely to be scaled up to heavy duty applications over the medium term.



Electric solutions for material handling trucks.



600F Series Electric powertrains

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.

Type	Lift capacity (kg)
601F	2000
602F	3500
603F	5000
605W	9000

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



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

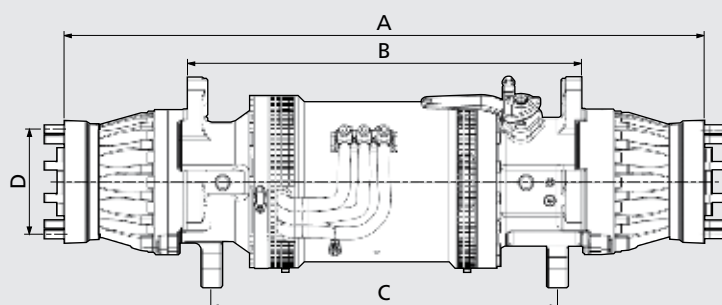
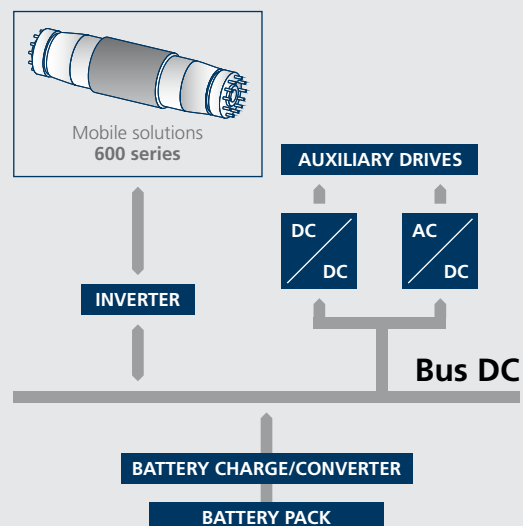
Standard features

- 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

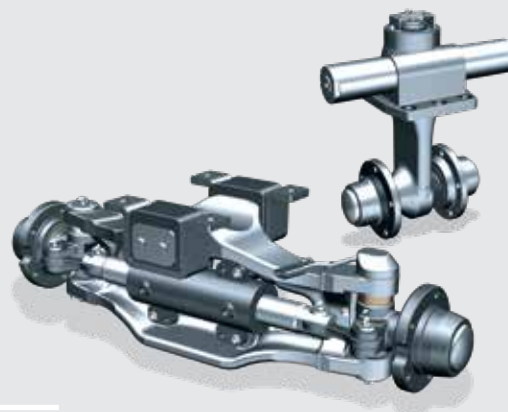
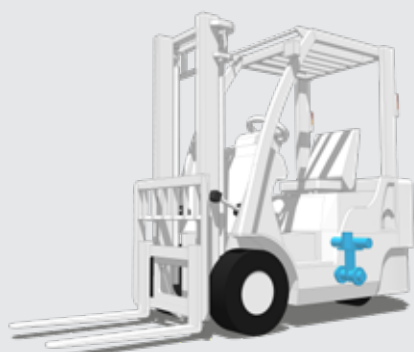
Functional diagram



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

Max input speed	Rated motor power	Typical wheel size
[min ⁻¹]	[kW, S2-60']	[inches]
5500	2x4.5	18
5500	18	23
4500	26	28
4500	2x14	35

Idle steering solutions for material handling trucks.



600W0C Series

Idle steering systems

Bonfiglioli has been building idle steering systems for material handling vehicles for decades. These solutions are typically applied in the rear section of 3- and 4-wheel counterbalanced forklifts. They can be axles or steering units for twin wheels. Depending on the steering unit model, anti-vibration parts can be included, and they serve as support for fixing brackets.

The hydraulic steering guarantees a high steering angle, in order to minimize the steering radius of the vehicle and allow the truck to move easily in narrow aisles.

Depending on the customer's needs, it is possible to customize main dimensions and other characteristics of the units, like the presence of a potentiometer to read the steering angle.

Type	CB Truck Lift capacity (kg)	
601W0C		2000
602W0C		3000
603W0C		3500



Applications

- Material handling vehicles (forklifts) for indoor and outdoor use.
- Counterbalanced trucks with lift capacity from 1.0 to 3.5 tons

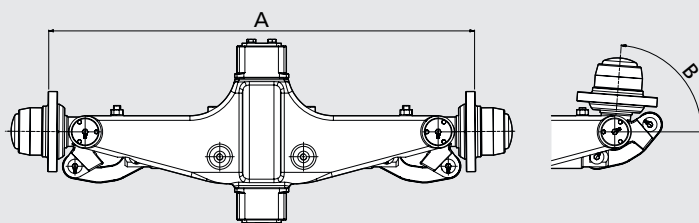
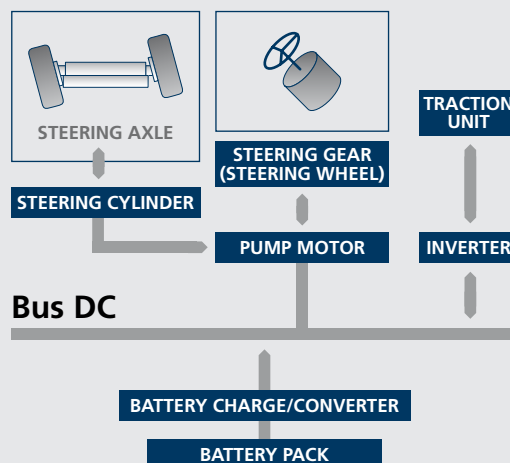
Standard features

- Hydraulic steering
- Optimised design for steering angle

Optional features available on request

- Anti-vibration parts
- Potentiometer for steering angle

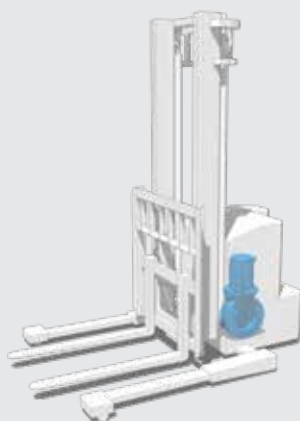
Functional diagram



TYPE	A Flange distance	B Max steering angle
	[mm]	[deg]
601W0C	175	85
602W0C	830	95
603W0C	930	85

Number of wheels
3
4
4

Electric steering solutions for warehouse trucks.



EL series

Electric powertrains

Bonfiglioli EL powertrains are a perfect match for the most demanding warehousing applications (Class 2 and Class 3). Warehousing trucks require high manoeuvrability in tight spaces, provided by drives like the EL series drives, with the smallest operating radius in vertical arrangements.

Bonfiglioli's expertise makes it the ideal partner for OEM. We supply all electromechanical components, from brakes to maintenance-free electric motors and gearboxes, specially designed for low maintenance and optimized gear profiles for noise reduction. All systems are tested at the end of the assembly line, before they are released for shipment.



Type	Max wheel torque (Nm)
EL100	450
EL09 V	500
EL96	500
EL10 V	900
EL300	1100
EL92	1500
EL93	1500
EL94	1500
EL14 V	1900

Type	Max wheel load (kg)
EL100	1200
EL09 V	1200
EL96	1500
EL10 V	1500
EL300	2200
EL92	3000
EL93	3000
EL94	3000
EL14 V	3400

Drives with vertical motor

Applications

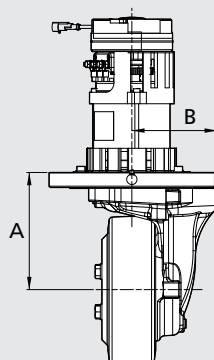
- Stackers, Reach Trucks, Pallet Movers
- Multidirectional Forklifts, Sideloaders
- Other warehousing / material handling trucks
- Indoor and outdoor use

Standard features

- Two-stage helical & bevel gearboxes
- Manual steer and power steer versions
- Optimized gear design for efficiency and noise
- Integrated low voltage electric motor
- Integrated parking brake
- Complete system with tyres

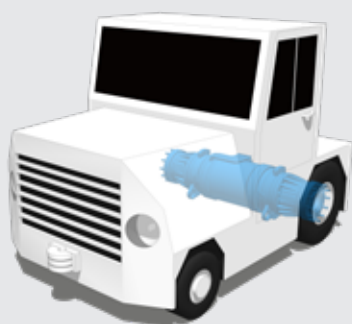
Optional features available on request

- Cold environment versions
- Integrated tiller or castor wheel supports



Type	Max wheel diameter	Max ratio	Max power	A	B
	[mm]	[i]	[kW]	[mm]	[mm]
EL100	230	32	2	184	134.5
EL09 V	230	32	2	190	125
EL96	260	24	3	215	147
EL10 V	260	24	3	207	125
EL300	305	24	4.5	249	175
EL92	356	24	7	277	187
EL93	406	25	7	304	187
EL94	457	25	7	325	187
EL14 V	360	24	7	277	187

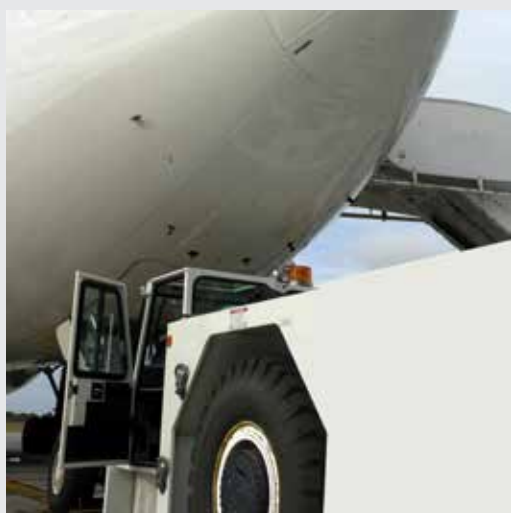
Electric solutions for airport equipment.



600 series Electric powertrains

Bonfiglioli supplies high efficiency, low noise axles with integrated high-performance electric motors and low maintenance braking systems for ground support equipment (Class VI Industrial Trucks, electric type) and other material handling electric machinery used in airports. Bonfiglioli electric axles are fully tested in the factory. All drives guarantee reduced energy consumption; this, in turn, means longer battery operating times, extended service intervals and a lower cost of ownership.

Type	Max deliverable torque (Nm)	
600D	1000	
602WE	3500	
602F		5500
605WE		8500



Applications

Electric vehicles for internal airport use:

- Luggage trolley collection
- Other utility vehicles (police, passenger transport)

Electric vehicles for external airport use:

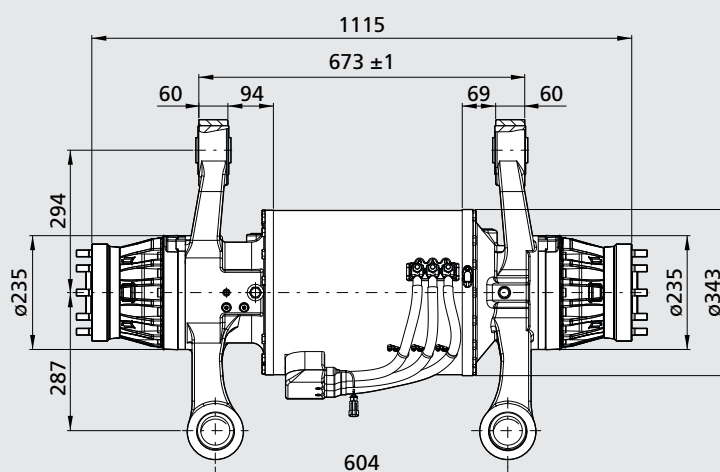
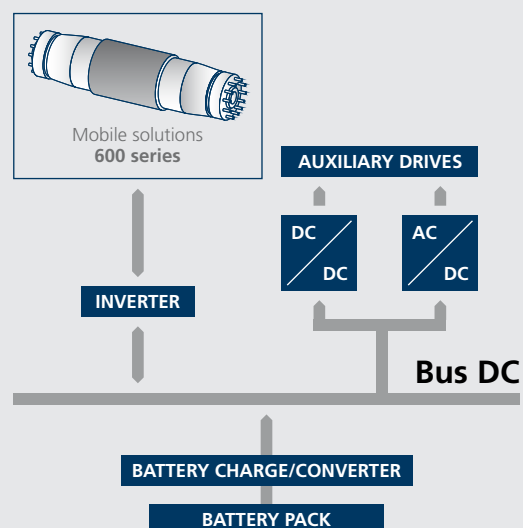
- Towing tractors for baggage carts, container dollies
- Passengers jet bridges

Other utility vehicles (refilling, power units)

Standard features

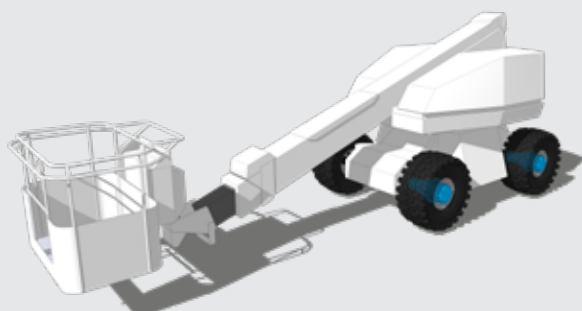
- Output torque from 1000 to 8500 Nm
- Draw bar pull from 5 to 40 kN
- Vehicle speed up to 20 km/h
- Optimised gear design for maximum efficiency and minimum noise
- Parking and/or service brake depending on configuration
- Integrated AC traction motor with different protection ratings
- Low voltage electric motors with inverter control

Functional diagram



TYPE	Max draw bar pull force	Rated motor power	Number and type of drive
	[kN]	[kW, S2-60']	
600D	5... 8	5.5	1 axle
602WE	10... 17	2x 5.5	2 wheel drives
602F	20... 30	25	1 axle
605WE	30... 40	2x 15	2 wheel drives

Electric solutions for lightweight industrial machinery.



600 series Electric powertrains

Bonfiglioli's 600 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 indoor and outdoor use with all kinds of aerial platforms and other kinds of industrial machinery. This advanced powertrain solution uses a two or three-stage gearbox, offering reduction ratios of up to 1:95 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.



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

Type	Rated motor data
	[kW, S2-60']
600WE	0.9... 3.4
601RE	2.5... 4.3
602RE	3.4... 5.4
602WE	3.4... 5.4
604WE	4.3... 6.2
605WE	5.4... 9.1

Applications

- Aerial platforms (vertical, scissor, articulated or telescopic)
- Industrial equipment (airport, sweepers, modular trailers)
- Light construction equipment
- Indoor and outdoor use

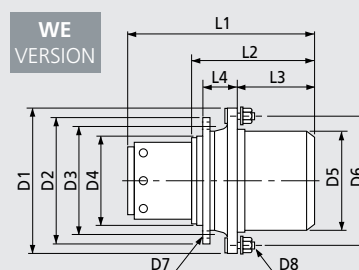
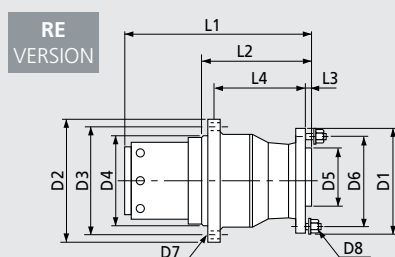
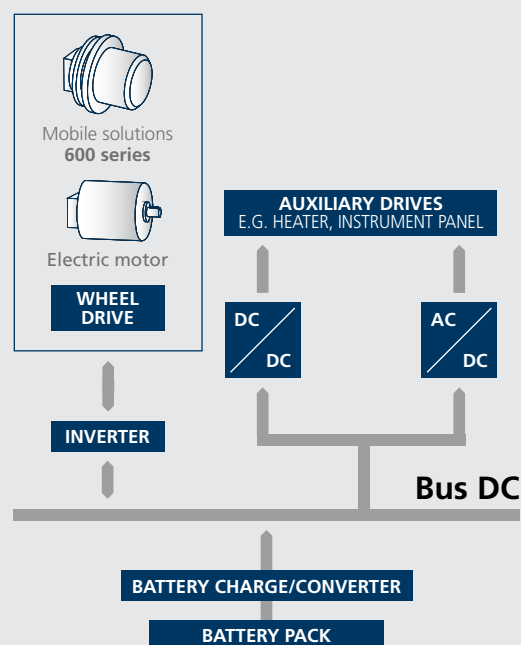
Standard features

- Two or three-stage planetary drive with reduction ratios of up to 1:95
- 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 sensors
- Mechanical disengagement for towing, with no need to remove the wheel and without oil drop
- Parking brake (spring applied with hydraulic or electromagnetic release)

Functional diagram



TYPE	L1											L2	L3	L4	D1	D2	D3	D4	D5	D6	D7	D8	
600WE	275	325	375	290	340	390							134	39	89	240	207.5	190.5	171.45	184.15	216	M8 no.6	M12 no.9
601RE					453	503	412	462					247	12	200	189	265	245	225	110	160	Ø13 no.8	M14x1.5 no.8
602RE						524	434	484	534				269	15	193	210	295	265	235	130	170	M16 no.8	M18 no.6
602WE						455	375	425	475				210.5	104.5	88	260	271	248	220	200	230	Ø15 no.12	M14 no.9
604WE								464	514	446	496		231	110	106	315	300	275	250	220	275	M16x2 no.12	M20x1.5 no.8
605WE								524	456	506	556		241	154	72	315	300	275	250	220	275	M16x2 no.12	M20x1.5 no.8

	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

Electric powertrains for off-highway hybrid machinery.



600W with BPD® electric motor

Wheel drives

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.

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



Applications

- Sprayers
- Self-propelled harvesters

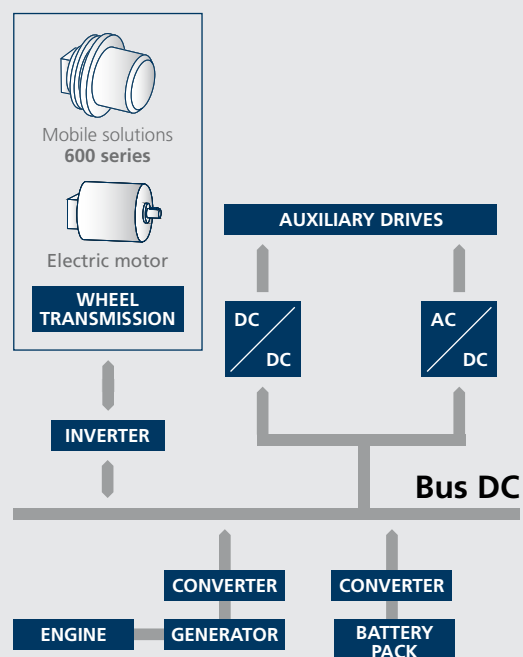
Advantages for OEM

- 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

Functional diagram



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

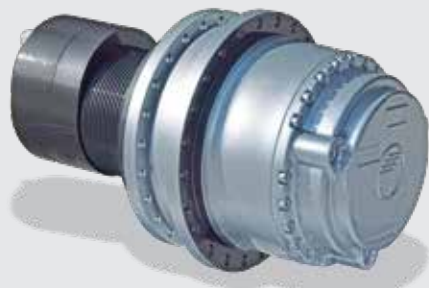
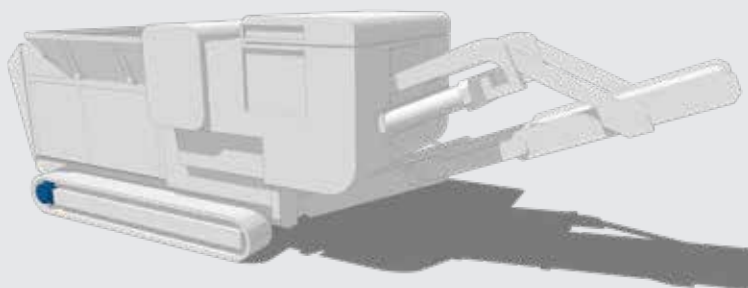
95.6%

Cooling

PGW 50/50 or oil



Electric solutions for crusher machines.



700CE Series Electric travel drives

Bonfiglioli's 700CE planetary drives coupled with a high-power density electric motor are specifically designed for high-voltage hybrid powertrain systems. Their installation on crusher machines for many years 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.

The motor's design is flexible from a cooling type standpoint: 700CE series drives coupled with the air-cooled motor are designed to be installed on all kinds of crushers and screeners, weighting up 60 tons and with a max. speed of 3.5 - 4.0 km/h. Thanks to the use of the same motor with liquid cooling, some of these solutions can also be applied to other types of new-generation off-highway tracked machinery in the construction sector. For outdoor uses on rough soils, the motor degree of protection is IP67. The overall length, in the case of SAHR brake, is particularly limited, close to the size of a hydraulic motor.



Type	Max deliverable torque (Nm)
707 CE	26000
709 CE	30000
710 CE	36000
711 CE	45000
713 CE	60000

Type	Typical ratio	Crusher weight
	1:	ton
707 CE	154	28
709 CE	123	36
710 CE	166	45
711 CE	153	50
713 CE	163	60

Technical data

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

Applications

Hybrid-electric off-highway machinery:

- Crushers
- Screeners

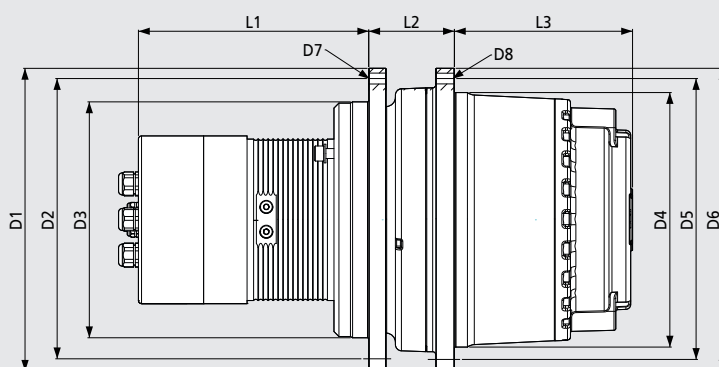
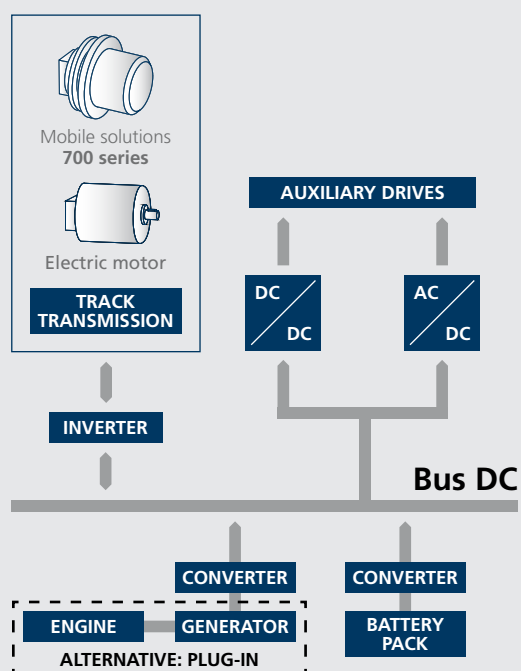
Benefits from OEM's point of view

- 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 sprocket to electric wire with only one supplier

Benefits from the end-user's point of view

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

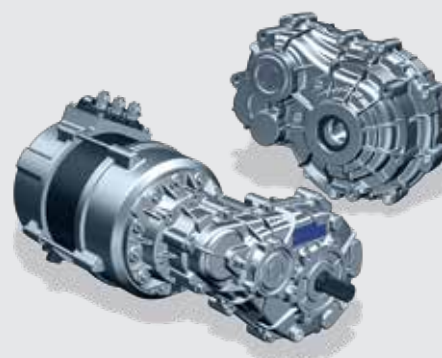
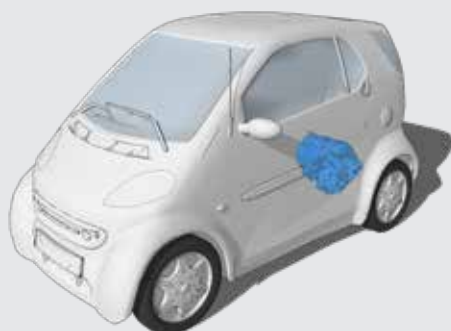
Functional diagram



TYPE	D1	D2	D3	D4	D5	D6	D7	D8	L1	L2	L3
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]	[mm]
707 C3 E *	317	285	240	300	340	370	M20x2.5 no.20	M16x2 no.20	371 Air cooling Based on the motor type	82	233
709 C3 E	375	340	300	330	370	400	M20x2.5 no.16	M16x2 no.30		91	243
710 C3 E	375	340	300	350	400	435	M20x2.5 no.16	M20x2.5 no.16		91	243
711 C3 E	425	325	290	410	455	490	M20x2.5 no.24	M20x2.5 no.24		110	265
713 C3 E	425	325	290	410	455	490	M20x2.5 no.24	M20x2.5 no.24		110	280

* e-motor installation by counter flange.

Electric solutions for lightweight vehicles.



600D Series

Electric powertrains

Bonfiglioli supplies versatile low noise drives coupled to electric motors for all-electric, battery powered vehicles like urban passenger cars, commercial vehicles and delivery trucks. This solution ensures more energy-efficient operations and extended autonomy from the battery, thanks to optimised, low backlash helical gears and high speed bearings. Bonfiglioli's 600D Series drives are extremely lightweight, thanks to their cast aluminium casings developed using all of Bonfiglioli's vast process expertise. 600D drives allow vehicle manufacturers to meet even the toughest restrictions on gross vehicle weight. They are complemented by a range of electric motors, inverters and matched mechanical joints and shafts, to provide complete powertrain solutions to vehicle OEMs.

Type	Max deliverable torque (Nm)	
600D	1000	
601D	1500	
602D	3000	



Applications

- Light duty, lightweight, battery powered vehicles
- Passenger transport and/or commercial deliveries
- Urban or suburban use
- Vehicle weighting 700 to 3500 kg
- Vehicle speed up to 100 km/h
- Battery autonomy from 100 to over 200 km

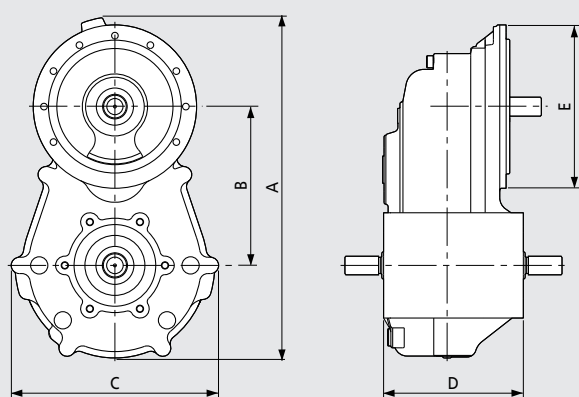
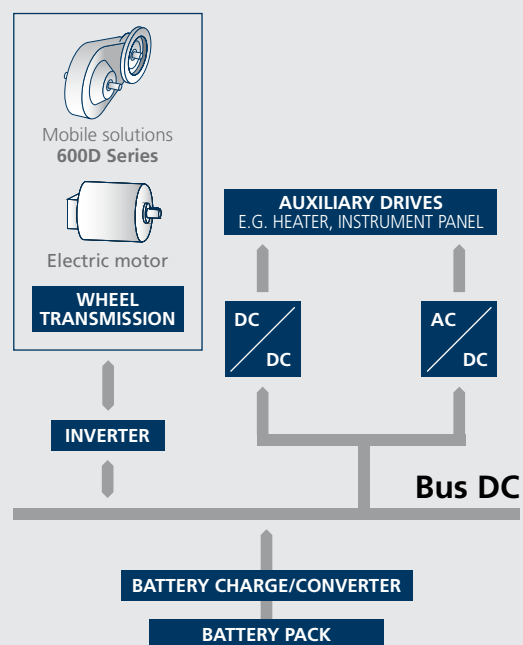
Standard features

- Multi-stage, parallel shaft gearbox with reduction ratios of up to 1:15
- Optimised gear design for maximum efficiency and minimum noise
- Integrated mechanical differential
- Lightweight cast aluminium housing
- Versatile gearbox installation in the chassis
- Low voltage electric traction motor with inverter control

Optional features available on request

- Input for 2 electric motors
- Integrated mechanical parking brake
- Integrated, high resolution Hall-effect speed sensor
- Matched mechanical joints and shafts
- Matched electric motors and inverters

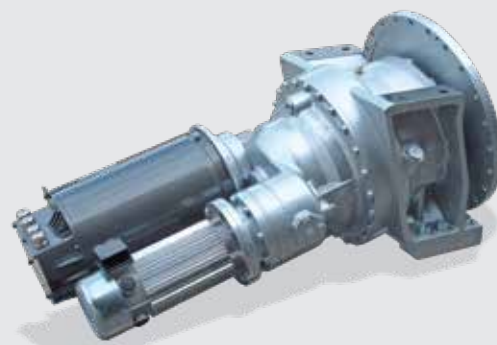
Functional diagram



TYPE	A	B	C	D	E
	[mm]	[mm]	[mm]	[mm]	[mm]
600D	375	175	229	154	180
601D	445	175	235	190	205
602D	462	175	314	224	252

Rated motor power	Vehicle weight
[kW, S2-60']	[kg]
5... 20	700... 1250
20... 30	205
30... 45	1800... 3500

Electric solutions for hybrid concrete mixers.



500 series drum drives with electric motor

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.

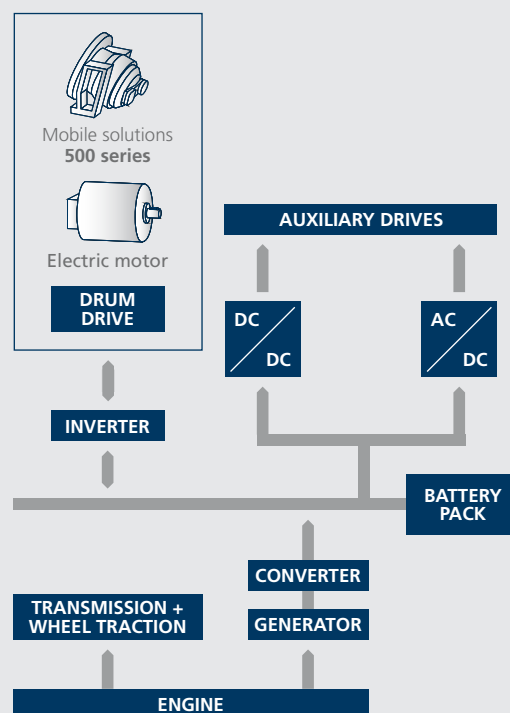
Finally, functionality remains higher in the event of a failure: the presence of a second backup DC motor gives reassuring redundancy and eliminates the risks and potentially hazardous situations caused by failures of the drum emptying system.



Main benefits

- Increased energy efficiency
- Reduced fuel consumption
- Less frequent and simplified service intervals vs standard hydraulic solutions
- 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

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

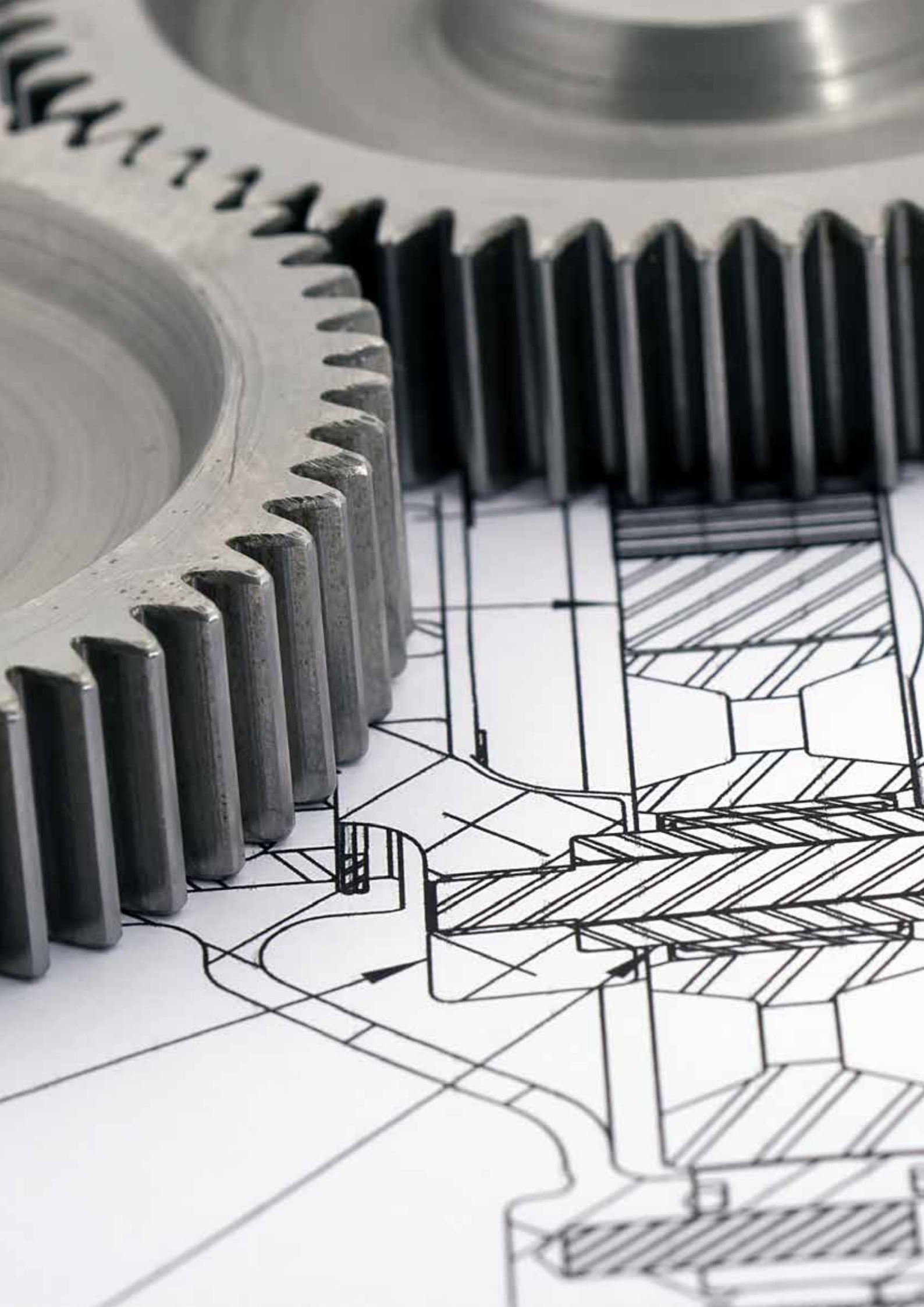
Protection degree

IP66

Cooling

Main: Liquid

Emergency: Air forced



Sharing the value of our work with you.

Developing effective and 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 – through our know-how, experience, technology, and advanced communication tools. Bonfiglioli complies with 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 members of our staff and 5 activity centres to research and development, and by working hand in hand with some of the world's most prestigious universities.

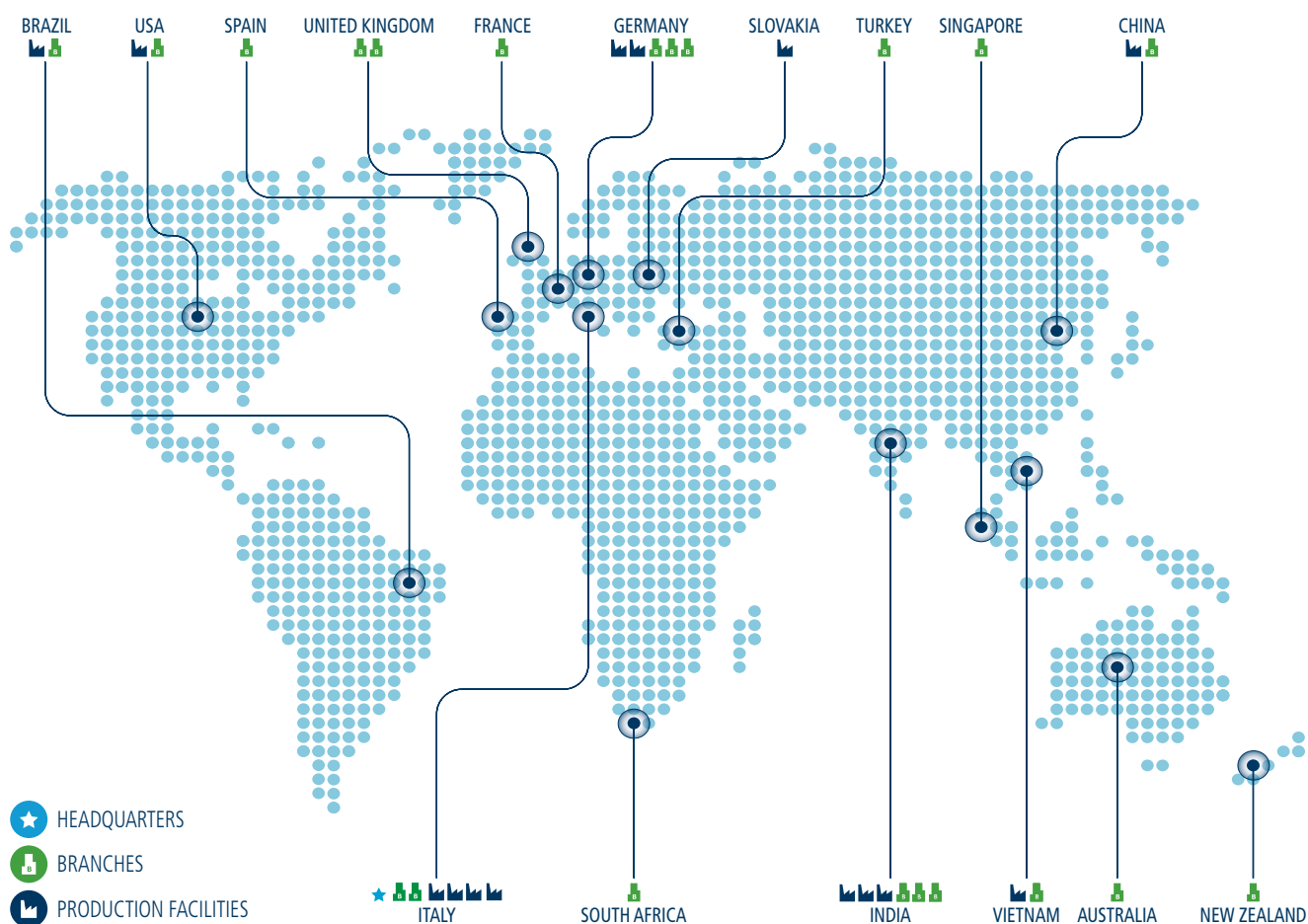
Our work increasingly brings us into contact with other nations and cultures, for which we have the greatest respect and with whom we share a vision of sustainable development based on renewable energy.

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.



LOCAL SUPPORT

Sales, Customer Service,
Warranty, Tech support,
Spare parts



21 BRANCH OFFICES IN 15 COUNTRIES



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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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