

Products range



Power, control and green solutions



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Bonfiglioli, one name for a large international group.

It was back in 1956 that Clementino Bonfiglioli established in Bologna, Italy, the company that still bears his name. Now, some fifty years later, the same enthusiasm and dedication is driving Bonfiglioli to become the world's top name in power transmission and control solutions. Through directly controlled subsidiaries and production plants around the world, Bonfiglioli designs, manufactures and distributes a complete range of gearmotors, drive systems and planetary gearboxes, and boasts the most integrated offering on the market today.

Now, to emphasise its commitment to health, safety and environmental sustainability, Bonfiglioli is adding the term "green" to the description of its offering. This commitment can be seen too in the Group's new trademark, made up of three shapes and colours identifying Bonfiglioli's three main business areas - Power, Control & Green Solutions and symbolising a set of values that includes openness and respect for other cultures.

In a market in which excellent product quality alone is no longer sufficient, Bonfiglioli also provides experience, know-how, an extensive sales network, excellent pre-sales and after-sales service and modern communication tools and systems to create high level solutions for industry, mobile machinery and renewable energy.

Bonfiglioli solutions



Innovative solutions for the industrial field.

Bonfiglioli Riduttori today is one of the leading brands in the power transmission industry. The company's success is the result of a business strategy that relies on three fundamental factors: know-how, innovation and quality. The complete range of Bonfiglioli gearmotors offers excellent technical characteristics and guarantees the highest performance. Substantial investment and technical expertise have enabled the company to achieve an annual production of 1.600.000 units using fully automated processes.

Certification of the company's Quality System by DNV and TÜV is proof of the high quality standards achieved.

Centres of excellence around the world allow the Bonfiglioli Group to guarantee the high levels of quality and efficiency needed to compete in industry today. Optimised lean manufacturing principles, major investments in research and development to maintain a high level of innovation, a "local for local" service strategy, and a customer service network that is near to the customer and can rely on a large number of directly controlled subsidiaries and distributors all over the world, enable the Bonfiglioli group to be flexible and rapid and to stay in close touch with the changing needs of the markets it serves.

With the acquisition of the Vectron brand, Bonfiglioli established itself as leader in the industrial automation sector.

Bonfiglioli Vectron supplies products and services for completely integrated inverter solutions. These solutions complement Bonfiglioli's power transmission and control offering to the industrial sector.



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Specific solutions for power transmission and motion control.

Product diversification, process automation, and quality have enabled Bonfiglioli to play a leading role in industry.

Bonfiglioli's policy focuses on integrated solutions, competence, innovative technology and careful production planning as key factors in guaranteeing customer satisfaction.

The Bonfiglioli product portfolio aims at meeting the toughest and most sophisticated requirements in industrial processes and automation solutions.



Bonfiglioli products

Industrial market segment is covered through the following Product Lines:



Bonfiglioli Trasmital

🐨 Bonfiglioli Vectron



Product offer

Helical gearmotors

- 10 C series
- 11 S series
- 12 F series 13
- A series

Worm gearmotors

14 VF and W series

Planetary gear units

15 300 series

Helical gear units

- 16 TA series
- 17 HDP series
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Bevel gears

19 **RAN** series

Industry-specific solutions

- 20 EP series
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Planetary low backlash gearboxes

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- 24 MP series
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Mechanical speed variators

30 V series

Electric motors

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Frequency Inverter

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C series In-line helical gearmotors

When Customers benefit from the know-how developed over the years.

Top torque density, product variety, extremely wide speed choice, great compactness and price effectiveness make the C series the unparalleled line of helical gearmotors and speed reducers.

Torque range 45 ... 12000 Nm

Mechanical rating (n₁ = **1400 min**⁻¹**)** 0.08 ... 213 kW

Gear ratios 2.6 ... 1481

Output

Foot and flange mount Metric or inch series solid output shaft

Input

IEC and NEMA motor adaptors Metric or inch series solid input shaft

Applicable AC motors

Integral motors and brake motors - M series / ME series IEC-normalized motors and brake motors - BN series / BE series Single and dual speed motors

Main brake features

DC and AC supply Faster brake engage/disengage through electronically Controlled AC/DC rectifier type SB, NBR, SBR (options)

Main motor options

Туре	Torque [Nm]					
C 05	45					
C 11	100					
C 21	200					
C 31	300					
C 35	450	450				
C 41	600					
C 51	1000					
C 61	1600					
C 70	2300					
C 80	4000	4000				
C 90		7200				
C 100		12000				





S series Single reduction helical gearmotors

Simplicity above all.

Simple and yet powerful is the S series, developed for the pump industry as well as the fan and blower application. Foot and flange mounted, with shaft dimensions to the UNEL - MEC standard.

 Type
 Torque [Nm]

 \$ 10
 21

 \$ 20
 37

 \$ 30
 70

 \$ 40
 125

 \$ 50
 200

Torque range 21 ... 200 Nm

Mechanical rating ($n_1 = 1400 \text{ min}^{-1}$) 0.12 ... 11.6 kW

Gear ratios

1.4 ... 13.1

Output

Foot and flange mount

Input

IEC-normalized motor adaptors Solid input shaft

Applicable AC motors

Integral motors and brake motors - M series / ME series IEC-normalized motors and brake motors - BN series / BE series Single and dual speed motors

Main brake features

DC and AC supply Faster brake engage/disengage through electronically Controlled AC/DC rectifier type SB, NBR, SBR (options)

Main motor options

F series Shaft mounted gearmotors

Ruggedness and effectiveness to the state-of-the-art.

No better, easier and neater installation than with a shaft mounted unit of the F series. Lightweight and performing, an F unit is the dependable drive for all the material handling applications.



Torque range 140 ... 14000 Nm

Mechanical rating (n₁ = 1400 min⁻¹) 0.17 ... 125 kW

Gear ratios

6.4 ... 2099

Output

Keyed hollow shaft - two bore options per size Keyless shrink disc fitting Plug-in solid output shaft as an option

Input IEC-normalized motor adaptors Solid input shaft

Applicable AC motors

Integral motors and brake motors - M series / ME series IEC-normalized motors and brake motors - BN series / BE series Single and dual speed motors

Main brake features

DC and AC supply Faster brake engage/disengage through electronically Controlled AC/DC rectifier type SB, NBR, SBR (options)

Main motor options

Туре	Torque [Nm]
F 10	140
F 20	250
F 25	400
F 31	600
F 41	1100
F 51	1800
F 60	2900
F 70	5000
F 80	8000
F 90	14000



A series Helical-bevel gearmotors

When efficiency and versatility meet each other.

The A series is the first product to prove equally good in regard to efficiency and versatility within a highly competitive context, both performance- and price-wise.

Туре	Torque [Nm]
A 05	100
A 10	150
A 20	250
A 30	410
A 35	600
A 41	850
A 50	1500
A 55	2000
A 60	2800
A 70	5000
A 80	8000
A 90	14000

Torque range 100 ... 14000 Nm

Mechanical rating (n₁ = 1400 min⁻¹) 0.22 ... 150 kW

Gear ratios 5.4 ... 1715

Output

Foot and shaft mount - two bore options per size Keyless shrink disc fitting Metric or Inch series solid output shaft Taper bushings matching more shaft diameters Splined hollow shaft to DIN 5480

Input

IEC and NEMA motor adaptors Servomotor adapters Metric or inch series solid input shaft

Main gear options

Backstop

Reinforced bearings for higher overhung load capacity Reduced backlash

Applicable AC motors

Integral motors and brake motors - M series / ME series IEC-normalized motors and brake motors - BN series / BE series Single and dual speed motors

Main brake features

DC and AC supply Faster brake engage/disengage through electronically Controlled AC/DC rectifier type SB, NBR, SBR (options)

Main motor options

VF W series Worm gearmotors

A smart design enhanced by latest materials technology and advanced manufacturing. Wormgears of the VF and W series are milestones for the industry worldwide. They succeeded in combining uncompromising quality with state-of-the-art technology

and renown price effectiveness. Absolute flexibility is achieved by the wide choice of mounting options, shaft configurations and motor interfaces, all offered as standard. The helical-worm and

the double-worm versions, with or without the torque limiter, also enhance a highly versatile drive system.

Torque range 13 ... 7100 Nm

Mechanical rating $(n_1 = 1400 \text{ min}^{-1})$ 0.04 ... 75 kW

Gear ratios

7 ... 10000

Output

Keved hollow shaft Plug-in solid output shaft Torque limiter as an option

Input

IEC-normalized motor adaptors Solid input shaft

Applicable AC motors

Integral motors and brake motors - M series / ME series IEC-normalized motors and brake motors - BN series / BE series Single and dual speed motors

Main brake features

DC and AC supply Faster brake engage/disengage through electronically Controlled AC/DC rectifier type SB, NBR, SBR (options)

Main motor options

Thermistors and thermostat sensors Separate supply forced ventilation Line driver and push-pull incremental encoder



Туре	Torque [Nm]
VF 27	13
VF 30	24
VF 44	55
VF 49	88
W 63	190
W 75	320
W 86	440
W 110	830
VF 130	1500
VF 150	2000
VF 185	3600
VF 210	5000
VF 250	7100

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300 series Planetary gearmotors

A powerful solution to heavy duty drive needs.

Compact, and yet extremely powerful, are the units of the 300 series. Their planetary drive train makes them the ideal choice for all the severe duty applications where shock loadings and impacts are more the rule than the exception. The product configuration is highly versatile, due to the largely modular options of mounting, gear layout, output shafts and motor interfaces. All features are available for each of the 18 closely spaced frame sizes, spanning over the 1000 - 1100000 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.

Torque range

1000 ... 1100000 Nm

Mechanical rating $(n_1 = 1400 \text{ min}^{-1})$ up to 450 kW

Gear ratios 3.4 ... 5000

5.4 ... 5000

Gear unit versions In line

Right angle (with Gleason bevel gear set)

Output

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

Input

IEC and NEMA motor adaptors Solid input shaft with or without fan cooling - inch or metric dims.

Applicable AC motors

Compact motors and brake motors M series IEC motors and brake motors BN series Single and dual speed motors

Main brake features

DC and AC supply Faster brake reaction through electronically controlled rectifier

Main motor options

Thermistors and thermostat sensors Independent forced cooling Line driver and push-pull incremental encoder 🐠 Bonfiglioli

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Туре	Torque [Nm]
300	1000
301	1750
303	2500
304	3600
305	5000
306	8500
307	12500
309	18000
310	25000
311	40000
313	55000
314	80000
315	100000
316	135000
317	170000
318	250000
319	350000
321	500000
323	800000
325	1100000

TA series Shaft mounted speed reducers

The sturdy and weather-resistant product for the material handling industry.

The TA series is long established, and well respected in industry, especially in quarry and mine applications where absolute reliability and low maintenance are key factors. Also appreciated is the backstop option that prevents backdriving on inclined conveyors or elevators.

Torque range (n₁ = **900 min**⁻¹**)** 150 ... 16000 Nm

Mechanical rating (n₁ = 900 min⁻¹) 1.1 ... 156 kW

Gear ratios 5.0 ... 31.5

Output Keyed hollow shaft Up to three bore options per frame size

Gearcase

Sturdy cast iron housing suitable for outdoor installation

Backstop

Available on all frame sizes - externally accessible



Туре	То	rqu	e [Nm]	
TA 30	1	50				
TA 35	4	100				
TA 40		900				
TA 45		13	50			
TA 50		2'	100)		
TA 60			3!	500		
TA 70			-	49	00	
TA 80					6600	
TA 100						10500
TA 125						16000



HDP series Parallel shaft gear units

The new benchmark in the parallel shaft category.

High torque ratings, gear ratios in close progression, numerous mounting options, together with compact dimensions will facilitate the engineering of any application. The housing, made from nodular cast iron ensures robustness even in the harshest environment. State of the art precision ground gears help to produce an extremely quiet and vibration-free product.

Туре	Torque [Nm]
HDP 60	5000
HDP 70	6850
HDP 80	12600
HDP 90	17650
HDP 100	25650
HDP 110	28900
HDP 120	37500
HDP 130	63250
HDP 140	79150
HDP 150	106550
HDP 160	133700
HDP 170	176350
HDP 180	194050

Torque range 5000 ... 194050 Nm

5000 ... 194050

Gear ratios

7.1 ... 500

Mounting Foot, flange, shaft mounting

Input

solid shaft, motor adapter

Output

solid (single and double extension), keyed hollow, shrink disc

Options

Fan cooling, cooling coil, heaters Independent cooling systems Backstop Non-contacting seals Forced lubrication Temperature and oil level sensors Drywell

HDO series Bevel helical gear units

The heavy-duty product that matches performance and versatility with compactness. The new bevel helical series from Bonfiglioli optimises superior performance with compact dimensions and flexibility. The many standard options that can be selected from the catalogue facilitate customization to meet specific application requirements. The gear case is nodular cast iron to guarantee rigidity in all circumstances while the gears, using latest profile ground finishing techniques, ensure quiet and vibration-free operation even in the harshest conditions.

Torque range 25650 ... 194050 Nm

Gear ratios

5.6 ... 400

Mounting Foot, flange, shaft mounting

Input

Solid shaft, lantern housing c/w flexible coupling double input shaft (pony drive)

Output

solid (single and double extension), keyed hollow, shrink disc

Options

Fan cooling, cooling coil, heaters Independent cooling systems Backstop Non-contacting seals Forced lubrication Temperature and oil level sensors Drywell for installations with vertical shaft

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Туре	Torque [Nm]					
HDO 100		25650				
HDO 110		28900				
HDO 120		37500				
HDO 130		63250				
HDO 140				79 ′	150	
HDO 150					10	6550
HDO 160		133700			133700	
HDO 170	176350					
HDO 180						194050

Bonfiglioli Industrial

RAN series Bevel gears

The handy drive when it comes to angled transmissions.

The units of the RAN series are designed to fit the purposes of transmissions laid out in right angle setting. Easy to fit and largely maintenance-free, RAN units offer multiple shaft arrangements and a choice of several exact gear ratios, beside the 1:1, that come in handy when designing synchronized drive systems. Also available in the version for screw jack duty.

Туре	Torque [Nm]	
RAN 1	1350	
RAN 2		3000
RAN 2R		3000
RAN 8	3	
RAN 15	8	
RAN 18	15	
RAN 20	28	
RAN 24	80	
RAN 25	39	

150

300

600

RAN 28

RAN 38

RAN 48

Torque range 3 ... 3000 Nm

Mechanical rating ($n_1 = 1400 \text{ min}^{-1}$) 0.15 ... 91 kW

Gear ratios 1.0 ... 7.4

Shaft arrangement

Single and double shaft projection

Input

Solid input shaft

RAN 1 / RAN 2 / RAN 2R

Input

Solid - single and double projection Output shaft Keyed hollow

Gear ratios

i = 3

Rated thrust capacity

RAN 1 50000 N RAN 2 80000 N RAN 2R 150000 N

W VF_EP series Gearmotors for hostile environments

When multi-purpose products become specific and meet industry requirements. Wormgears and motors are also available in the enhanced protection "EP" configuration, featuring food grade specifications and extra corrosion protection, ensuring risk free operation in hygienic environments, and facilitate effective sanitising. In addition to food processing applications, the EP configuration will also suit the requirements of the chemical and pharmaceutical industry, as well as marine on-board and quayside installations.



Applications

Food processing, chemical and pharmaceutical industry Marine on-board and quayside installations Corrosive and/or highly hygienic environments

Availability on

Gears: VF 44, VF 49, W 63, W 75, W 86 Motors: BN 63 ... BN 112 / M1SD ... M3LC

Standard features

Stainless steel hollow shaft Stainless steel mounting hardware and tag Oil seals loaded with stainless steel spring Sealed gearcase (unvented) Unused tapped holes closed with button plugs Four draining holes on motor DE and NDE shield Motor protection IP 56

Options

Epoxy primer+epoxy top coating FDA approved Washdown duty oil seals Food grade lubricant, class H1

Configurations

Foot, flange and shaft mount

Accessories

Plug-in solid output shaft from stainless steel Safety cover for the hollow output shaft Torque arm



ATEX <mark>(Ex</mark>)

Gearmotors for use in potentially explosive atmosphere. ATEX-compliant gear units in categories 2G and 2D are available, according to the classification set forth by the European Directive 94/9/CE, applying to areas with presence of potentially explosive atmosphere. AC three-phase motors in category Ex II 2D 125 °C are also available in either the integral or the IEC design.

Coaxials series C C11 ... C61

Bevel helicals series A A10 ... A60

Shaft mounts series F F10 ... F60

Worm gears series VF and W VF30 ... VF49 W63 ... W110

Planetaries series 300 300 ... 321

Motors series M and BN 0.12 ... 3 kW



LC series Low backlash planetary gearboxes

Low backlash at a competitive price.

The LC Series of planetary gearboxes is characterised by low backlash, silent running and easy motor coupling.



Torque range 12 ... 300 Nm

Maximum acceleration torque 20 ... 450 Nm

Transmission ratios 3 ... 100

Output configuration Flange mounting

Input configuration Wide range of coupling configurations to suit most common servomotors

Maintenance Lubricated for life

Туре	Rate	Rated torque [Nm]				
LC 050	12	2				
LC 070	2	25				
LC 090		43				
LC 120			110			
LC 155				300		

Туре	Acceleration torque [Nm]				
LC 050	20				
LC 070	3	5			
LC 090		80			
LC 120			190		
LC 155				450	

	Backlash [arcmin]		
Туре	1 stage	2 stages	
Standard	12	15	
Reduced	6	8	

Control Bonfiglioli Industrial



LCK series Low backlash right-angle gearboxes

The economical, precise and efficient solution wherever space is at a premium. LCK Series gearboxes offer the same exceptional performance as the LC in-line series, but their right-angle design makes them easier to install in tight spaces.

Rated torque [Nm]
12
25
43
110
300

Туре	Acceleration torque [Nm]
LCK 050	20
LCK 070	35
LCK 090	80
LCK 120	190
LCK 155	450

Backlash	[arcmin]
2 stagos	2 stages

Туре	2 stages	3 stages	
Standard	6	8	

Torque range 10 ... 300 Nm

Maximum acceleration torque 20 ... 450 Nm

Transmission ratios 6 ... 100

Output configuration Flange mounting

Input configuration

Wide range of coupling configurations to suit most common servomotors

Maintenance

Lubricated for life

MP series Low backlash planetary gearboxes

High precision for excellent results.

The MP Series of low backlash planetary gearboxes is characterised by a wide range of mounting configurations, silent running, and superbly easy motor coupling.



Torque range 20 ... 1000 Nm

Maximum acceleration torque 30 ... 1200 Nm

Transmission ratios 3 ... 1000

Output configuration Flange mounting

Input configuration Wide range of coupling configurations to suit most common servomotors

Maintenance Lubricated for life

Versions available











MP ... G

MP ... IS



Туре	Rated torque [Nm]	
MP 053	20	
MP 060	30	
MP 080	70	
MP 105	170	
MP 130	450	
MP 160		700
MP 190		1000

Туре	Accelerati	on torc	que [N	lm]
MP 053	30			
MP 060	45			
MP 080	100			
MP 105	250			
MP 130			700	
MP 160				950
MP 190				1200

	Backlash [arcmin]			
Туре	1 stage 2 stages 3 stages			
Standard	15	15	17	
Reduced	10	10	12	



TR series Low backlash planetary gearboxes

Maximum precision for highly dynamic applications.

TR Series planetary gearboxes set new standards for low backlash, superb reliability, extremely silent operation and compatibility with all leading brands of servomotor.

Туре	Rated torque [Nm]
TR 053	20
TR 060	30
TR 080	70
TR 105	170
TR 130	450
TR 160	700
TR 190	1000

Туре Acceleration torque [Nm] TR 053 30 45 **TR 060** 100 TR 080 TR 105 250 700 TR 130 TR 160 950 1200 TR 190

Torque range 20 ... 1000 Nm

Maximum acceleration torque 30 ... 1200 Nm

Transmission ratios 3 ... 1000

Output configuration Flange mounting

Wide range of coupling configurations to suit most common servomotors

Maintenance Lubricated for life

Versions available

Backlash [arcmin] Туре 1 stage 2 stages 3 stages Standard 5 5 7 Reduced 3 3 5



TR ... IS









Input configuration

SL series Low backlash planetary gearboxes for pulley drives

Perfect for timing belt drives.

The new SL Series from Tecnoingranaggi knows no rivals when it comes to compactness, efficiency and an optimised design for use with timing belt drive systems. SL Series low backlash gearboxes are the ideal complement to servo-drive systems in applications that need to combine precision and high overhung loads with ultra compact dimensions. SL Series, without pulleys, are also ideal for revolving tables.

Torque range 18 ... 110 Nm

Maximum acceleration torque 35 ... 190 Nm

Transmission ratios 3 ... 10

Output configuration Flange mounting

Input configuration Wide range of coupling configurations to suit most common servomotors

Maintenance Lubricated for life



Туре	Rated	Rated torque [Nm]	
SL 070		25	
SL 090		43	
SL 120			110

Туре	Acceleration torque [Nm]
SL 070	35
SL 090	80
SL 120	190

Backlash [arcmin]

Туре	
Standard	12
Reduced	6

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KR series Low backlash right-angle gearboxes

The economical, flexible and efficient solution for low backlash right-angle transmissions.

The KR Series of low backlash, right-angle gearboxes delivers the best possible combination of precision, dynamics and compactness. A wide range of input and output configurations combined with a selection of transmission ratios give these gearboxes unrivalled flexibility.

Туре	Rat	ted torque [Nm]	
KR 010		10	
KR 020		24	
KR 030		55	
KR 040			120

Туре	Ac	celeration torque [Nm]
KR 010		14
KR 020		35
KR 030		75
KR 040		170

Backlash [arcmin] Type Standard 8 Torque range 3 ... 120 Nm

Maximum acceleration torque 14 ... 170 Nm

14 ... 17**0 M**

Transmission ratios 1, 2, 5

Output configuration

Hollow shaft with keyway Solid shaft, single or double sided Hollow shaft with shrink disc Mounting flange

Input configuration

Wide range of coupling configurations to suit most common servomotors

Maintenance

Lubricated for life

28 Bonfiglioli

TQ series Low backlash planetary gearboxes

The TQ Series of low backlash planetary gearboxes is designed to deliver the highest possible level of transmission precision. Low backlash combined with a high torsional stiffness guarantees a very competent product, especially in high dynamic and reversing applications.

The technical design of this gearbox also allows high axial and radial loads on the output shaft and a very silent operation.



Torque range 30 ... 800 Nm

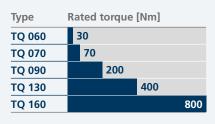
Maximum acceleration torque 45 ... 1200 Nm

Transmission ratios 3 ... 100

Output configuration Square flange mounting

Input configuration Wide range of coupling configurations to suit most common servomotors

Maintenance Lubricated for life



Туре	Acce	leration	torque	[Nm]
TQ 060	45			
TQ 070	10	00		
TQ 090		300		
TQ 130			600	
TQ 160				1200

	Backlash [arcmin]	
Туре	1 stage	2 stages
Standard	3	5
TQ 060 TQ 070	4	6



TQK series Low backlash right-angle gearboxes

Low backlash bevel-planetary drives of the TQK series are the solution to space problems often posed by increasingly compact machines.

TQK drives combine high levels of dynamic operation with top precision, which results in great accuracy and repeatability for any positioning mechanism in which they are installed.

On top of their robustness and dependability TQK drives also feature a distinctive Italian style that makes them clearly recognizable amongst like products within the reference industry.

Туре	Rated torque [Nm]
TQK 060	30
TQK 070	70
ТQK 090	200
TQK 130	400
TQK 160	800

TQK 060 45 TQK 070 100 TQK 090 300 TQK 130 600	Туре	Acceleration torque [Nm]
TQK 090 300 TQK 130 600	TQK 060	45
TQK 130 600	TQK 070	100
	TQK 090	300
TOK 160 1200	TQK 130	600
IQK 160 1200	TQK 160	1200

	Acce	leration torque [Nm]
0	45	
0	10	00
0		300

1200	M
1200	Lu

	Backlash [arcmin]	
Туре	2 stage	3 stages
Standard	5	7
TQK 060 TQK 070	6	8

Torque range

30 ... 800 Nm

Maximum acceleration torque 45 ... 1200 Nm

Transmission ratios

3 ... 100

Output configuration Square flange mounting

Input configuration

Wide range of coupling configurations to suit most common servomotors

Options

Smooth, keyless output shaft

aintenance

bricated for life

V Series Mechanical speed variators

A conventional product optimised by re-engineering.

The completely renewed V Series features a brand new speed control mechanism that optimises functioning, extends the lifetime of key components, and allows the variator to run cooler and more silently than ever. V Series speed variators are available with an additional helical reduction stage and can be coupled to most Bonfiglioli gearboxes.



Max. to Min. speed setting 5.2 times ∞ Reduction through a differential unit

Transmissible power $(n_1 = 1400 \text{ min}^{-1})$ 0.18 ... 9,2 kW

Additional helical reduction stage $i_{N} = 2.5 \dots 6.3$

Output configuration

Foot or flange mounting Metric or Inch series solid output shaft Compact and IEC coupling for helical and worm gearboxes

Speed setting

Manual by handwheel Remote by servo mechanism Optional speed measuring kit with display

Input configuration

Provision for IEC and NEMA standard motors Solid input shaft

Applicable three phase motors

IEC standard and BN Series self-braking motors

Туре	Power kW
V 0.25	4
V 0.5	8
V 1	16
V 2	35
V 3	56
V 5.5	72
V 10	144

BN series AC motors

A complete range of AC motors developed for gearmotor duty that will exceed expectations.

The IEC-normalized BN motors comply with all the applicable international standards, including the EMC and LV Directives. They are available in the 0.06 - 30 kW range in the foot and the flange mounting version, the latter in both the IM B5 and the IM B14 configuration. Single and multispeed versions available with generally, three brake options offered, one DC and two AC supply, lending further flexibility to the system. Finally, all motors are inverter duty.

kW rating (4 pole) 0.06 ... 30 kW

Frame sizes 56A ... 200L

Pole numbers

2, 4, 6, 8, 2/4, 2/6, 2/8, 2/12, 4/6, 4/8

Mounting options Foot IM B3 Flange IM B5 and IM B14

Operation 50 Hz and 60 Hz

Compliance 2006/95/EC (LVD) and 2004/108/EC (EMC)

Inverter duty All frame sizes

All frame size

Housing

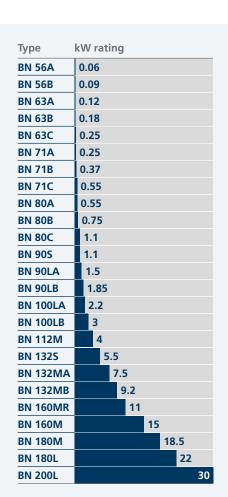
Cast aluminium

Main brake features DC and AC supply Faster brake engage/disengage through electronically Controlled AC/DC rectifier type SB, NBR, SBR (options)

Main options

Thermistors and thermostat sensors Separate supply forced ventilation Line driver and push-pull incremental encoder CSA and UL approved design **GOD Bonfiglioli**

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Class IE2 high efficiency AC motors.

The IEC-normalized BE motors comply with IEC 60034-30:2008 (efficiency classes) and all the applicable international standards, including the EMC and LV Directives. They are available in the 0.75 - 22 kW range in the foot and the flange mounting version, the latter in both the IM B5 and the IM B14 configuration. Single and multispeed versions are available with generally, two brake options offered, one DC and one AC supply, lending further flexibility to the system. Finally, all motors are inverter duty.

kW rating (4 pole) 0.75 ... 22 kW

Frame sizes 80B ... 180L

Pole numbers 2, 4, 6

Mounting options Foot IM B3 Flange IM B5 and IM B14

Operation 50 Hz and 60 Hz

Compliance IEC 60034-30:2008 (IE), 640/2009/EC 2006/95/EC (LVD) and 2004/108/EC (EMC)

Inverter duty All frame sizes

Housing Cast aluminium

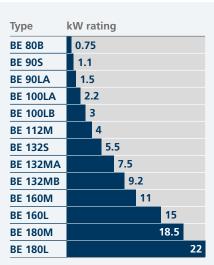
Main brake features

DC and AC supply Faster brake engage/disengage through electronically controlled AC/DC rectifier type SB, NBR, SBR (options)

Main options

Thermⁱstors and thermostat sensors Separate supply forced ventilation Line driver and push-pull incremental encoder CSA and UL approved design







BS series Single-phase induction motors

A range of motors dedicated to domestic and light workshop duty.

Single-phase motors of the BS series are manufactured to the applicable IEC standards and are of the enclosed type, externally ventilated and with run capacitor permanently connected.

Motors are available in the B5 and B14 flange mountings, in the 4-pole execution. For applications requiring high starting torque the version with both the run and starting capacitor can be specified.

Туре	kW rating
BS 56A	0.06
BS 56B	0.09
BS 63A	0.12
BS 63B	0.18
BS 71A	0.25
BS 71B	0.37
BS 80A	0.55
BS 80B	0.75
BS 90S	1.1
BS 90L	1.5

kW ratings 0.06 ... 1.5 kW

Frame sizes

56A to 90L

Poles 4

Mounting

Flange mounting IM B5 and IM B14

Frequency 50 and 60 Hz

European norms 2006/95/EC (LVD) and 2004/108/EC (EMC)

Housing Cast Aluminium

Main options

Starting and run capacitors Bimetal thermal protector Balanced winding 33

A comprehensive range of permanent magnet DC motors.

The BC series of motors are the simple, proven and economical solution to the requirements of DC drives. The materials and the design concepts exploited allow the use of BC motors under the severest duty and with 4-quadrants thyristor converters. Motors can be operated in the –20 to +40 °C ambient temperature range and are IP54 protected and class F insulated.

Torque range 0.3 ... 4.5 Nm

Speed 1500, 2000, 3000 min⁻¹

Supply 12, 24, 36, 48,65, 110, 180, Vdc

Configurations IM B5 and IM B14 Flange Mount

Ventilation

BC110 ... BC140 non-ventilated BC220 ... BC310 TEFC



Туре	Torque [Nm]
BC 110	0.3
BC 120	0.8
BC 140	1.4
BC 220	0.9
BC 240	1.2
BC 270	2.2
BC 310	4.5



BMD series Permanent Magnet AC motors

Bonfiglioli Permanent Magnet AC Synchronous motors series.

They are manufactured using the "salient pole" technology. The dimensions of the motor are drastically reduced, with considerable advantages in terms of torque density, overall dimensions and dynamic performance.

Thanks to the high quality and performance of the Neodymium iron boron rare-earth magnets maximize performance in terms of very high accelerations and withstand high overloads without risk of demagnetization of the magnets.

Type Torque [Nm]			
BMD 65	1.7		
BMD 82	3.2		
BMD 102	7.2		
BMD 118	10.2		
BMD 145	16.8		
BMD 170	34		

Stall torque

1.7 Nm ... 34 Nm

Rated speed

1600; 3000; 4500; 5500; 6000 min⁻¹

Power supply

230, 400 Vac

Inertia

0.04 ... 2.82 (Kgm² x 10⁻³)

Conformity 2006/95/EC (LVD) and 2004/108/EC (EMC)

Electromagnetical Holding Brake (Optional) 24 Vdc

Additional flywheel (optional) 0.05 ... 7.00 (Kgm² x 10⁻³)

Feedback

2-poles resolver with excitation frequency 8 KHz or 10 KHz Absolute encoder EnDAT 2.1 (single turn / multiturn) encoder with sincos track Absolute encoder Hyperface (single turn / multiturn) encoder with sincos track Sensorless (no feed-back)

Degree of protection

IP65 IP67

Temperature sensor PTC KTY

Certification CE

A range of compact servomotors.

BTD Series servomotors are designed to provide effective solutions for applications demanding high efficiency, compact motors.

The extremely small size of these motors, achieved by the use of advanced materials and design technology, ensures exceptional dynamics and low temperature operation. Equipped with IP65 push-pull connectors (IP67 connectors are optional), in conformity to EMC requirements, and a PTC temperature probe with reinforced insulation, these motors guarantee secure electrical connections under all ambient operating conditions.

Stall torque

0.26 ... 27 Nm

Rated speed 3000, 4500 min⁻¹

Power supply 230, 400 Vac

Inertia Low for BTD sizes from 0.26 Nm ... to 1 Nm

Conformity 2006/95/EC (LVD) and 2004/108/EC (EMC)

DC brake Optional 24 Vdc

Certification CE, UL



Туре	Torque [Nm]	
BTD2 0026	0.26	
BTD2 0053	0.53	
BTD2 0074	0.74	
BTD2 0095	0.95	
BTD3 0095	0.95	
BTD3 0190	1.9	
BTD3 0325	3.25	
BTD3 0420	4.2	
BTD4 0410	4.1	
BTD4 0630	6.3	
BTD4 0860	8.6	
BTD5 1160	11.6	
BTD5 1490	14.	9
BTD5 1870		18.7
BTD5 2730		27.3

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Bonfiglioli Industrial

Bonfiglioli Industrial



Туре	Torqu	e [N	m]			
BCR2 0020	0.2	-	-			
BCR2 0040	0.4					
BCR2 0060	0.6					
BCR2 0080	0.8					
BCR3 0065	0.65					
BCR3 0130	1.3					
BCR3 0250	2.5					
BCR3 0300	3					
BCR4 0100	1					
BCR4 0260	2.6					
BCR4 0530	5.3					
BCR4 0750	7.5					
BCR5 0660	6.6	6.6				
BCR5 1050	10	.5				
BCR5 1350	1	3.5				
BCR5 1700	1	17				
BCR5 2200		22				
BCR6 1350	13	3.5				
BCR6 1900		19				
BCR6 2200		22				
BCR6 2900		29)			
BCR7 2700		27				
BCR7 3200		3	2			
BCR7 4000			40			
BCR8 0400			40			
BCR8 0680				68		
BCR8 0930					93	
BCR8 1150					115	

BCR series AC brushless servomotors

A range of high performance servomotors.

BCR Series servomotors are designed to satisfy the needs of continuous and transient high torque applications. Thanks to a wide torque range and above average instantaneous overload ratings, BCR servomotors are robust enough for even the most demanding drive applications. Equipped with IP65 push-pull connectors (IP67 connectors are optional), in conformity to EMC requirements, and with a PTC temperature probe with reinforced insulation, these motors guarantee a secure electrical connection under all ambient operating conditions.

Stall torque

0.2 ... 115 Nm

Rated speed 2000, 3000, 4500 rpm

Power supply 230, 400 Vac

Inertia

Low for BCR sizes from 0.2 $\rm Nm$... to 1 $\rm Nm$

Conformity

2006/95/EC (LVD) and 2004/108/EC (EMC)

DC brake

Optional 24 Vdc

Certification CE, UL

VCB series Inverter

Convenient in operation and flexible in application.

Reliable, highly compact and a robust choice for any application, this inverter with high-level functions soundly meets the requirements of a constantly evolving market.



Power range (VCB400) 132 kW - 800 kW, three-phase 320 V - 506 V, 45 Hz - 66 Hz

Type of control

Selectable Vector control function: Sensor-less control, sensor-less field oriented control, Field oriented control with encoder

Overload capacity 120% / 150% for 60s

Switching frequency 1 kHz up to 8 kHz

Enclosure IP20 up to 355 kW (EN 60529) / IP54 on demand

Main standard hardware features

Three-phase 230 V and three-phase 500 V on demand DC link connection, Plug-in and programmable control terminals 8 digital input, 3 analog input 2 digital output, 1 analog output 1 Relay output (changeover contact)

Optional expansion modules

Motor temperature monitoring, expansion of analog, digital inputs and outputs, additional encoder or resolver input, repetition frequency output, Safety relay in combination with expansion module

Optional communication modules RS232, RS485, Profibus-DP, CANopen, LON

Optional keypad Removable keypad KP100

Optional PC software

VPlus for Windows operating system with set-up, terminal monitor, actual value window, scope function and teleservice

Main software features

Programmable reference value channel, Programmable start and stop characteristics, Motor potentiometer, Programmable S curve, 4 data sets, Auto start-up and commissioning, Auto start after power failure, PI controller, Volume flow control, Bump-less torque / speed changeover, Master / Slave function with electronic gear, Dynamic braking and motor chopper, Mechanical brake control free of friction, Intelligent current limits, Power failure regulation, Index and stability control, Comprehensive monitoring and protection capabilities, Function for lift, crane and winch applications

Туре	Power kW				
VCB400-250		132	2		
VCB400-300		1	60		
VCB400-370			20	0	
VCB400-460				250	
VCB400-570				315	
VCB400-610				3	55

Power kW

0.25

0.37

0.55

0.75

1.1

1.5

2.2

3.0

4.0

5.5

75

9.2

11

Туре

AGL402-02

AGL402-03

AGL402-05

AGL402-07

AGL402-09

AGL402-11

AGL402-13

AGL402-15

AGL402-18

AGL402-19

AGL402-21

AGL402-22

AGL402-23

Agile Inverter

Innovative, eco-friendly, user-friendly.

Agile series provide in a sensorless vector inverter innovations able to boost plant efficiency through open loop vector control of brushless motors, MMC memory cards and web control.

Agile inverters are easy to install, program and quick to start-up without the needs of specialized resources.

Power range (AGL402)

0.25 - 11 kW / three-phase 320 V ... 530 V / 50 Hz - 60 Hz (± 10%)

Power range (AGL202)

0.25 - 7.5 kW / single or three-phase 200 V ... 240 V / 50 Hz - 60 Hz (± 10%)

Motor compatibility

Two types of motor: Asynchronous AC motors Permanent magnet synchronous (brushless) motors

Type of control

Selectable control function: V/f control for asynchronous motors Sensor-less vector control for asynchronous motors Sensor-less vector control for brushless motors

Degree of protection

IP20 (EN 60529)

Main hardware features

Power supply from common DC bus Integrated braking module Short circuit / ground fault protection Integrated Safe Torque Off safety system Plug-in and programmable control terminals 6 digital inputs, 2 multifunctional A/D inputs 1 multifunctional I/O, 1 digital output 1 multifunctional A/D/pulse output, 1 relay output (alarm) available power outputs: +24 V DC, +10 V DC optional separate 24 V DC electronic power supply standard serial interfaces: RS-232, RS485, Systembus Integrated Modbus

Optional expansion modules

Resource Pack memory card

Optional communication modules

Profibus-DP, CANopen, RS232, RS485, DeviceNet, EtherCAT®, ProfiNet, Ethernet VA BUS TCP

PC software

VPlus suite

Main software features

Permanent motor tuning Selective Multi-Motor Control (SMMC) Energy saving function Ready to use application masks Integrated maintenance wizard Alarm history Motor and inverter state memory Autodiagnostics Integrated PLC function with graphic development environment Integrated oscilloscope function Customisable units of measurement

Туре	Power kW (3ph)	
AGL202-02	0.25	
AGL202-03	0.37	
AGL202-05	0.55	
AGL202-07	0.75	
AGL202-09	1.1	
AGL202-11	1.5	
AGL202-13	2.2	
AGL202-15	3.0	
AGL202-18	4.0	
AGL202-19		5.5
AGL202-21		7.5
Туре	Power kW (1ph)	
AGL202-02	0.12	

0.18 AGL202-03 AGL202-05 0.25 AGL202-07 0.37 0.55 AGL202-09 AGL202-11 0.75 AGL202-13 1.1 AGL202-15 1.5 AGL202-18 2.2 AGL202-19 3 3 AGL202-21

Active Solution Drive

Versatility, rating, performances.

A full series of flexible solution drives that are versatile and extremely easy to use, featuring control for high performance and unbeatable advantages in their scalability and compact size.

Power range (ACT401) 0.55 - 132 kW / three-phase 360 V - 480 V / 50 Hz - 60 Hz (± 10%)

Power range (ACT201) 0.55 - 9.2 kW / single or three-phase 200 V - 240 V / 50 Hz - 60 Hz (± 10%)

Type of control

Selectable Vector control function: sensor-less control, sensor-less field oriented control, field oriented control with encoder

Overload capacity 150% for 60s / 200% for 1s

Switching frequency 2, 4, 8, 12, 16 kHz

Enclosure IP20 (EN 60529)

EMC filter Integrated up to 9.2 kW (EN 61800-3)

Main standard hardware features

Integrated dynamic braking module, DC link connection, Standard encoder interface, Motor temperature monitoring, Plug-in power terminals (up to 3kW), Plug-in and programmable control terminals, 6 digital input, 1 multifunction input, 1 digital output, 1 multifunction Output, 1 relay output (changeover contact)

Optional expansion modules

Expansion of analog, digital inputs and outputs, additional encoder or resolver input, repetition frequency output, System bus

Optional communication modules

RS232, RS485, Profibus-DP, CANopen

Optional keypad

Removable keypad KP500 with copy function, Cabinet mounting kit and handheld for keypad

Optional PC software

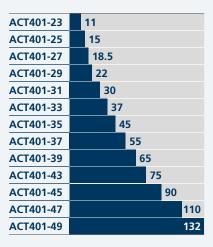
VPlus for Windows operating system with set-up, terminal monitor, actual value window, scope function and teleservice

Main software features

Programmable reference value channel, Programmable start and stop characteristics, Motor potentiometer, Programmable S curve, 4 data sets, Auto start-up and commissioning, Auto reset after failure, Auto start after power failure, PI controller, Programmable logic and timer functions, Volume flow control, Bump-less torque / speed changeover, Master / Slave function with electronic gear, Enhanced positioning function, Mechanical brake control free of friction, Index and stability control, Intelligent current limits, Power failure regulation, Comprehensive monitoring and protection capabilities, High speed control, Function for lift, crane and winch applications, 3 different brake Management Functions.



Туре	Power kW			
ACT401-05	0.55			
ACT401-07	0.75			
ACT401-09	1.1			
ACT401-11	1.5			
ACT401-12	1.85			
ACT401-13	2.2			
ACT401-15	3.0			
ACT401-18	4.0			
ACT401-19	5.5			
ACT401-21		7.5		
ACT401-22		9.2		



0.55				
0.75				
1.1				
1.5				
2.2				
	3.0			
	4.0			
		5.5		
		7.5		
		9.2		
	0.75	0.75 1.1 1.5 2.2 3.0 4.0		

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Туре	Power kW			
ACU401-01	0.25			
ACU401-03	0.37			
ACU401-05	0.55			
ACU401-07	0.75			
ACU401-09	1.1			
ACU401-11	1.5			
ACU401-12	1.85			
ACU401-13	2.2			
ACU401-15	3.0			
ACU401-18	4.0			
ACU401-19	5.5			
ACU401-21		7.5		
ACU401-22		9.2		

ACU401-23	11				
ACU401-25	15				
ACU401-27	18.5				
ACU401-29	22				
ACU401-31	30				
ACU401-33	37				
ACU401-35	45				
ACU401-37	55				
ACU401-39	65				
ACU401-43	7	5			
ACU401-45		90			
ACU401-47		110			
ACU401-49		132			

ACU201-01	0.25
ACU201-03	0.37
ACU201-05	0.55
ACU201-07	0.75
ACU201-09	1.1
ACU201-11	1.5
ACU201-13	2.2
ACU201-15	3.0
ACU201-18	4.0
ACU201-19	5.5
ACU201-21	7.5
ACU201-22	9.2

Active Cube Solution & Servo Drive

Versatility, promptness, accuracy,

A full series of solution & servo drives, compact and flexible, dedicated both to high demanding industrial automation systems and to motion control architectures, all matched with Bonfiglioli servomotors.

Power range (ACU401)

0.25 - 132 kW / three-phase 360 V - 480 V / 50 Hz - 60 Hz (± 10%)

Power range (ACU201) 0.25 - 9.2 kW / single or three-phase 200 V - 240 V / 50 Hz - 60 Hz (± 10%)

Type of control

Selectable Vector control function: sensor-less control, sensor-less field oriented control, field oriented control with speed sensor, field oriented control of synchronous servomotors with speed/position sensor

Overload capacity

200% for 1min (size 01 and 03) / 150% for 1min (other ratings), Shorter overload: 200% for 1sec all ratings

Switching frequency

2, 4, 8, 12, 16 kHz

Enclosure

IP20 (EN 60529)

EMC filter

Integrated up to 9.2 kW (EN 61800-3)

Main standard hardware features

Integrated safe torque off function, External 24Vdc supply for control board and electronics, Integrated dynamic braking module, DC link connection, Standard encoders interface, Resolver module for feedback acquisition from Bonfiglioli servomotors, Motor temperature monitoring, Plug-in power terminals (up to 3kW), Plug-in and programmable control terminals 6 digital input, 1 multifunction input, 1 digital output, 1 multifunction, Output, 1 relay output (changeover contact)

Optional expansion modules

Expansion of analog, digital inputs and outputs, additional encoder or resolver input and sincos encoder, repetition frequency output, System bus

Optional communication modules

Profibus-DP, CANopen, RS232, RS485, DeviceNet, EtherCAT®, ProfiNet, Ethernet VA BUS TCP

Optional keypad

Removable keypad KP500 with copy function, Cabinet mounting kit and handheld for keypad

PC software VPlus

Windows-based engineering "workbench" with easy interface, Drive parameters set-up, Terminal monitor, Actual value window, Scope function, Bonfiglioli servomotors quickconfiguration window, Motion block parameters management, Teleservice

Main software features

32 Programmable Motion blocks, 36 Homing functions according to CANopen DSP4.02, Unit converter, Jog function, Absolute and relative positioning modes, Touch probe, Teach-In functions, Rotary table control, Programmable reference value channel, Programmable start and stop characteristics, Motor potentiometer, Programmable S curve, 4 data sets, Auto start-up and commissioning, Auto reset after failure, Auto start after power failure, PI controller, Programmable logic and timer functions, Bump less torque / speed changeover, Master / Slave function with electronic gear, Index and stability control, Intelligent current limits, Power failure regulation, Comprehensive monitoring and protection capabilities, High speed control, Function for lift, crane and winch applications, 3 different brake Management Functions. Advanced application functions: advanced brake release control, spindle control up to 1000Hz, traverse function for winders, Volume flow control, load evaluation.

Synthesis Inverter

Install and go.

The simple use, wide range of controls, integrated EMC filter, IP65 protection level and the limited size make the SYN10 a sound response to the broadest needs for electronic speed variation, where basic performance and contained costs are matched with robust construction and great reliability.

Power range (SYN10 S 220)

0.2 - 0.75kW 1 - Phase 200 - 240V / 50 - 60Hz (+10, -15%) 1.5 - 2.2kW 1 and 3 - Phase 200 - 240V / 50 - 60Hz (+10, -15%)

Power range (SYN10 T 400) 0.75 - 2.2kW 3 - Phase 380 - 460V / 50 - 60Hz (+10, -15%)

Type of control V/f control with Torque Gain and Selectable Patterns

Overload capacity 150% for 60s

Switching frequency 4-16 kHz

Enclosure IP20, IP65

EMC filter Standard Integrated A Class (EN 61800-3)

Main standard hardware features

Integrated braking module (SYN10 S 220/07/09 - SYN10 T 400) DC link connection (SYN10 S 220/07/09 - SYN10 T 400) Inverter temperature monitoring 1 Analog Input (V or I selectable) 4 Digital Input (programmable multifunction) 1 Analog Output (voltage linear) 1 Relay output (programmable multifunction)

Keypad

Integrated standard

Main functions

I2t Motor temperature monitoring DC braking injection Selectable Volt on Hz characteristic JOG frequency Selectable Auto-restart Selectable stop method Automatic alarm reset Alarm history Momentary power loss prevention Stall prevention Output Short-Circuit protection Grounding fault protection Heat sink overheat protection Current limit

Type Power kW						
SYN10S-001		0.	2			
SYN10S-003			0.4			
SYN10S-005				0.75		
SYN10S-007					1.5	
SYN10S-009						2.2

SYN10S-005	0.75	
SYN10S-007		1.5
SYN10S-009		2.2



Our qualities



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.

RoHS

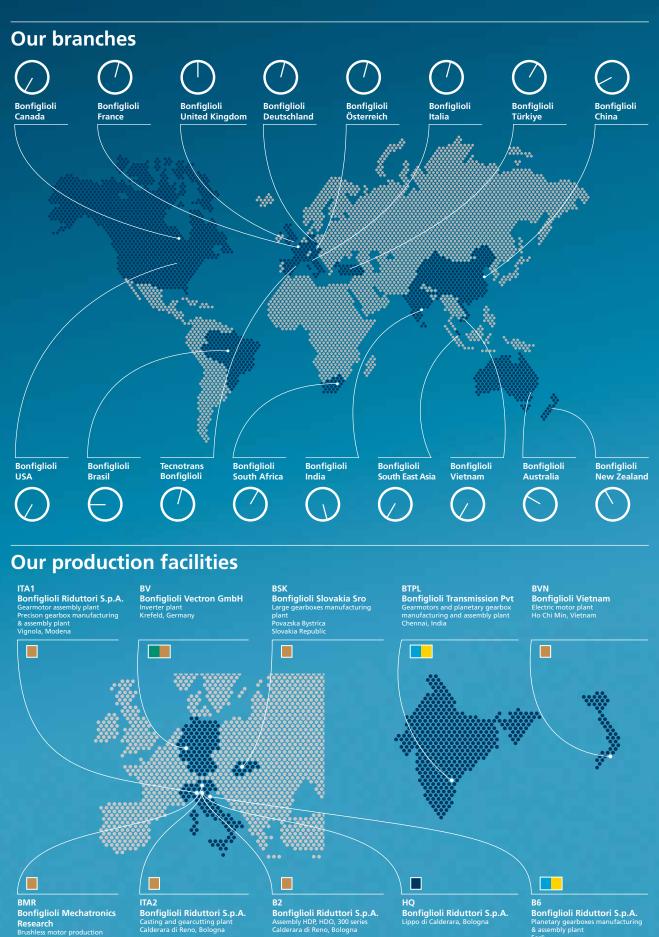
We believe in innovation, and back up this belief by dedicating 100 of our people and 5 activity centres to research and development, and by working hand in hand with some of the world's most prestigious universities.

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.



Branches and facilities



Brushless motor production Rovereto, Trento BU Industrial

Research

BU Regenerative & Photovoltaic

Headquarters

BU Wind & Mobile

ibly plant

& as Forlì

Bonfiglioli is your partner worldwide for power transmission and motion control.

Customer satisfaction has always been one of Bonfiglioli's key values. It is pursued around the world, and in a wide range of contexts, by a network of subsidiaries located in 17 countries and on 5 continents.

Each subsidiary provides rapid and efficient presales and after-sales service, and can guarantee prompt deliveries from local assembly plant and warehouses.

In addition to our directly controlled subsidiaries, Bonfiglioli can also rely on an extensive network of authorised dealers, selected for their ability to guarantee excellent pre-sales and after-sales assistance.

To give everybody the chance to purchase a Bonfiglioli product - anywhere.

This is the ambitious objective that drives the development of our added value sales networks, off and on-line.

BEST (Bonfiglioli Excellence Service Team) is one of the most modern sales organisations in the field of power transmission.

Our BEST partners can benefit from our local assembly plant and warehouses, our training courses and tools, and our promotional activities.

For the first time ever, manufacturer and distributors are working together from the product assembly stage and in the design of new applications, in a sharing process that sees one party transferring know-how and technology and the other partly providing a thorough knowledge of the local market.



Bonfiglioli worldwide network.

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