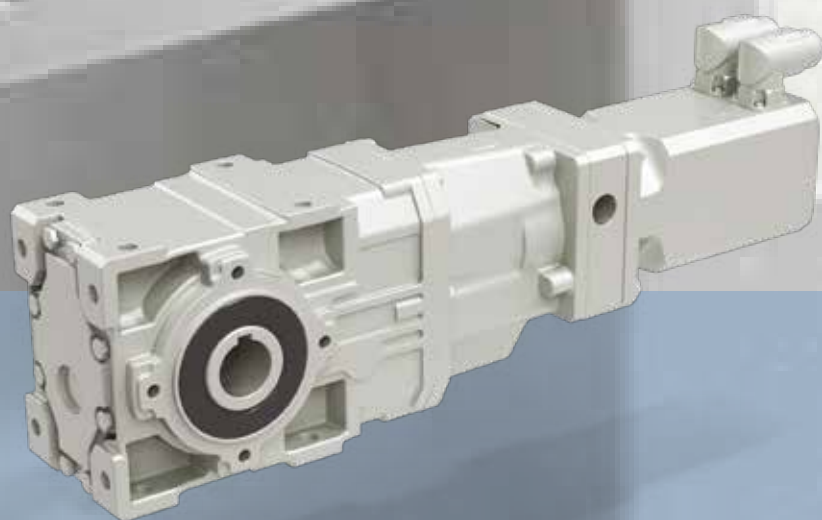




# A SERIES & SERVO FLANGES

Servo right-angle gearmotors

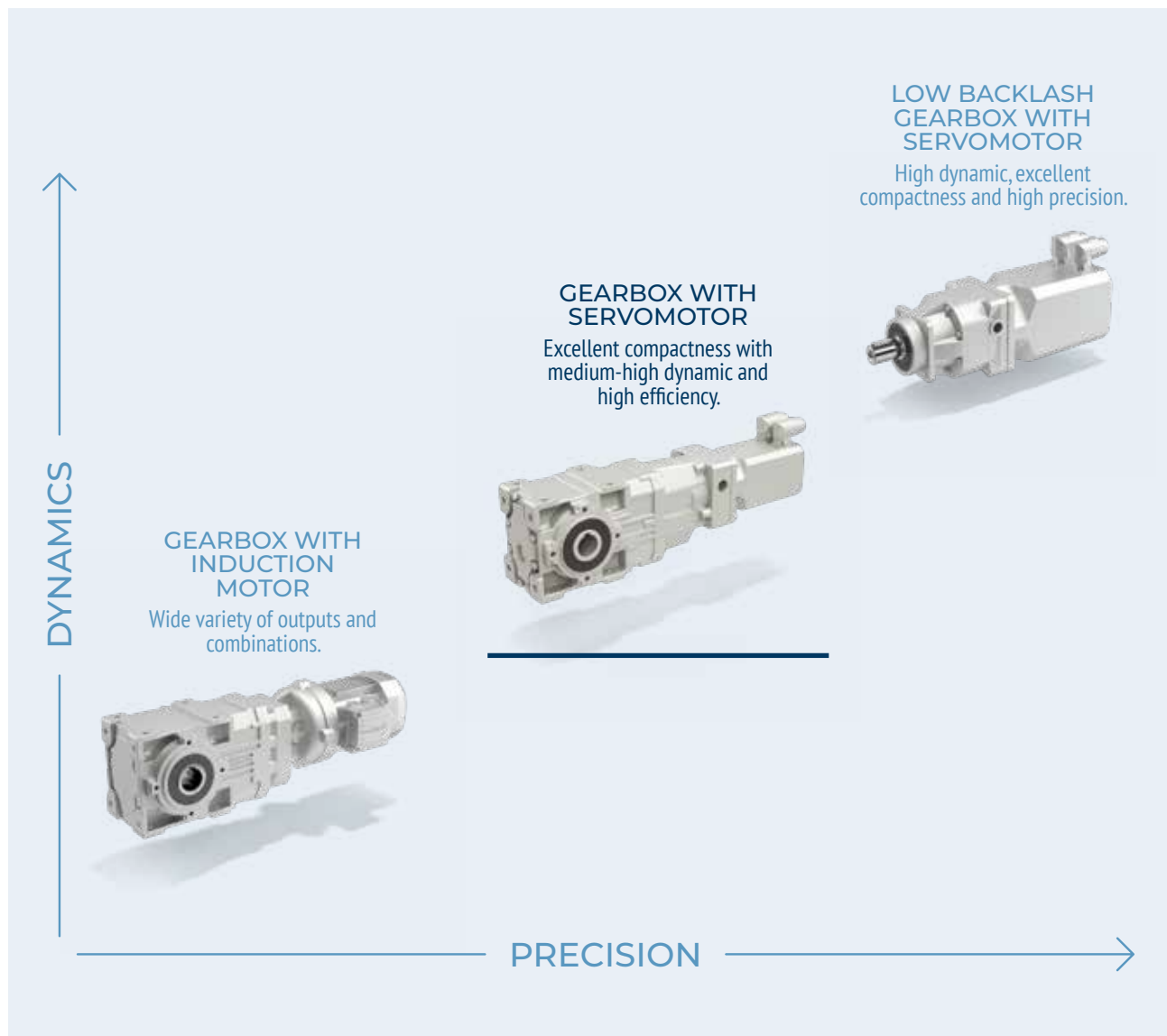
 **Bonfiglioli**



# THE RIGHT CHOICE FOR DYNAMIC APPLICATIONS

Permanent magnet synchronous motor for precisely controlled movements.

Compared to standard gearmotors with induction motors, they are more compact and thanks to a very low inertia they become suitable for high dynamic application. Some of the main benefit are a high dynamics response, a high compactness and a high IP protection up to IP67.

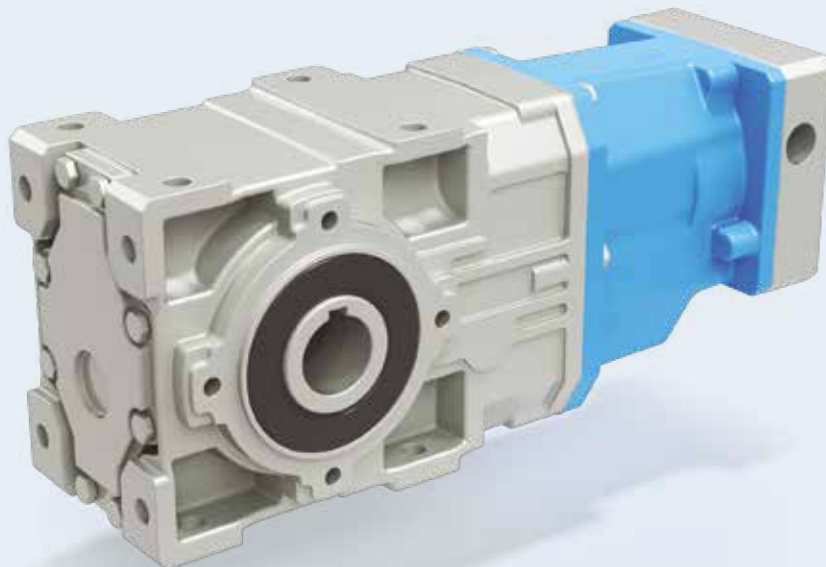


## NEW SERVO FLANGES

Permanent magnet synchronous motors from Bonfiglioli combined with A series bevel gear unit extend even more the actual performance.

They represent a very price effective solution if compared with precision planetary gearboxes and in the same time boost a high-performance level.

Our excellent characterization, our know-how and the fantastic performance of these products, make our solution suitable for multiple application where dynamic requirements and medium-high precision is needed.



# BENEFITS

## Main advantages of our new helical bevel servo solutions:



**Complete servo package solution from Bonfiglioli.** We are a unique supplier for gearboxes, motors and inverters. With our internal skills and know-how we are always able to configure the best price/performance solution ever.



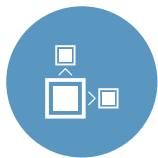
**Price effective solution.** Thanks to innovative technologies and new design adopted we've maximised the price / performance ratio.



**More flexibility** in terms of mechanical interchangeability with most of the motors present on the market.



**Extend performance of the previous design.** That will ensure more reliability and a longer lifetime.



**An answer to a continuous growing of tech complexity demand.** Our excellent performance and innovative solutions follow perfectly this trend.



**Best for high dynamic applications and accurate scalability.** Suitable for cyclic operation with alternating load and continuous duty.

# A RELIABLE PARTNER FOR YOUR BUSINESS



Bonfiglioli Riduttori S.p.A. brings decades of experience supporting customers across a broad spectrum of industry sectors. Product and requirements must fit and form a solution that match to your application.

Our tailor-made solutions always offer to you a complete approach.



MATERIAL  
HANDLING



PACKAGING &  
LABELLING



FOOD &  
BEVERAGE



WOODWORKING  
MACHINES



TISSUE &  
TEXTILE

## Some of the industrial sectors we serve:

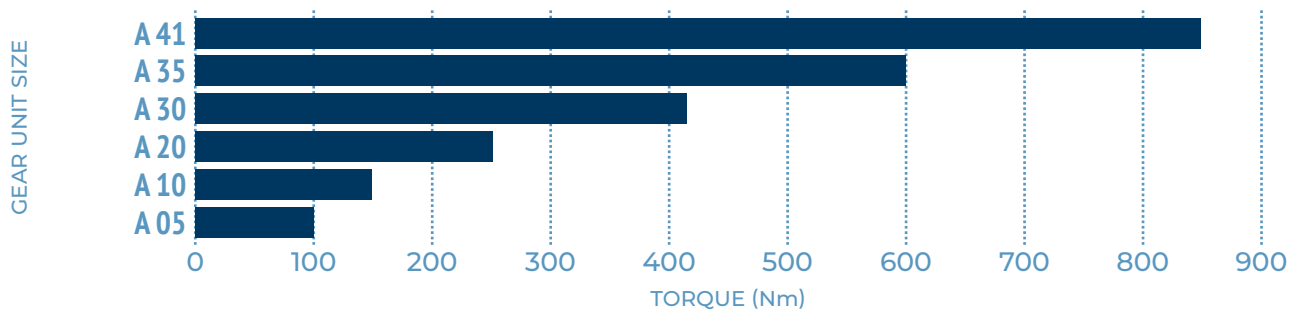
- Machine tools
- Packaging & labelling
- Food & beverage
- Tobacco
- Glass working
- Robotics
- Automation storage
- Ceramic
- Electronics
- Electronic assembly
- Woodworking



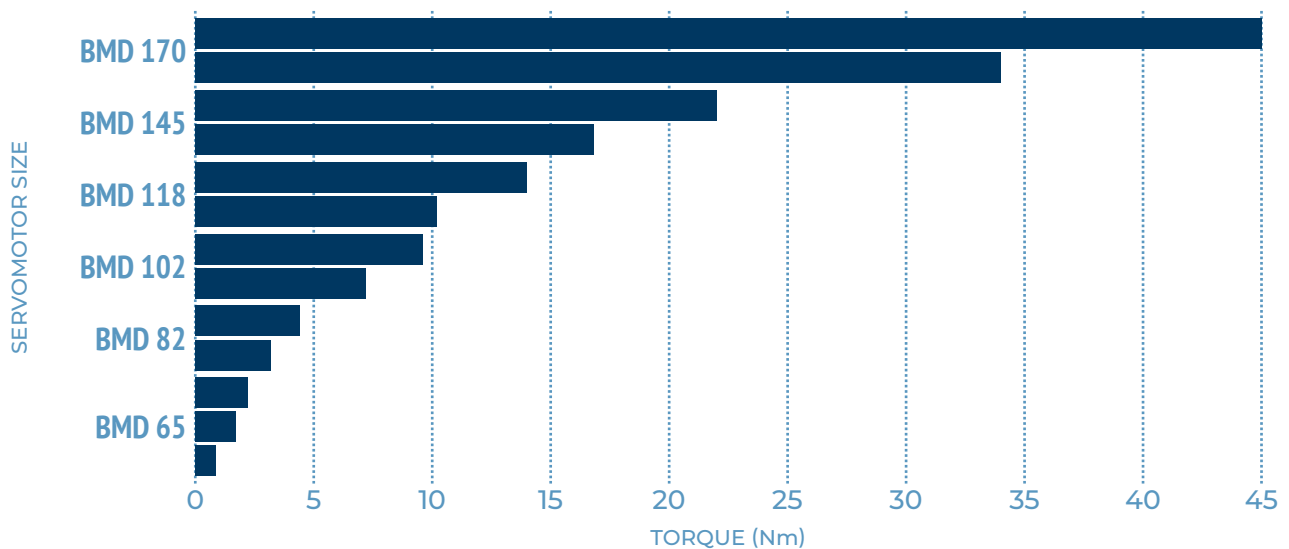
# SYNCHRONOUS SERVO GEARMOTORS WITH NEW FLANGES

|                        |                         |
|------------------------|-------------------------|
| Sizes                  | 6                       |
| Designation            | A05,A10,A20,A30,A35,A41 |
| Reduction stage number | 2,3                     |
| Torque range [Nm]      | 100 - 850               |
| Gear ratios i          | 5,2 – 400,8             |

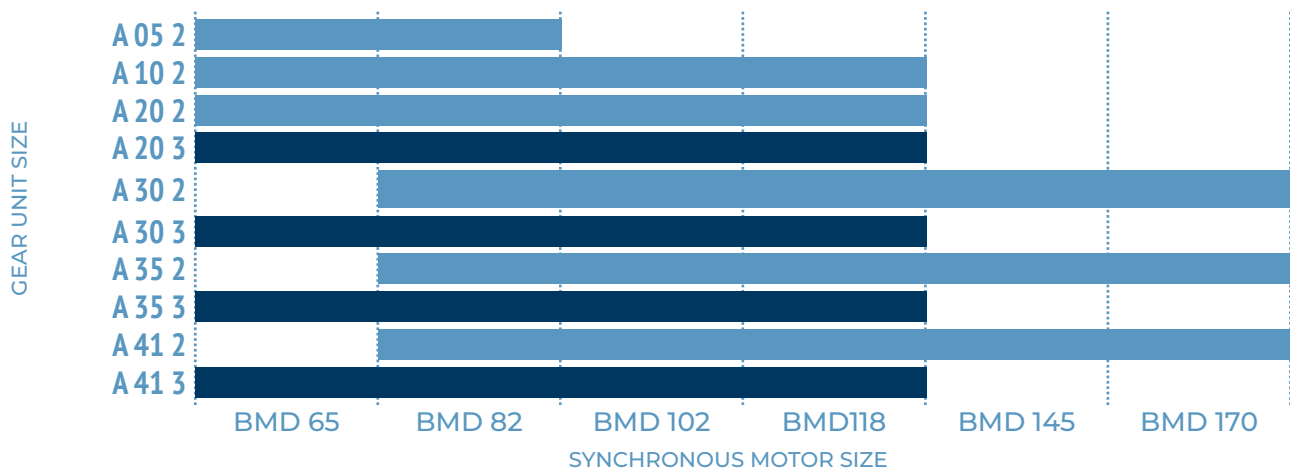
## A series torque range



## BMD series torque range



## A-BMD possible configuration



Technical drawing of the Benfiglioli 1000 series gearbox, showing front and rear views with dimensions.

**Front View (Left):**

- Overall width:  $P$
- Mounting flange diameter:  $\varnothing G$
- Mounting flange thickness:  $E$
- Mounting flange offset:  $X$
- Mounting flange flange thickness:  $F$
- Brand name: Benfiglioli

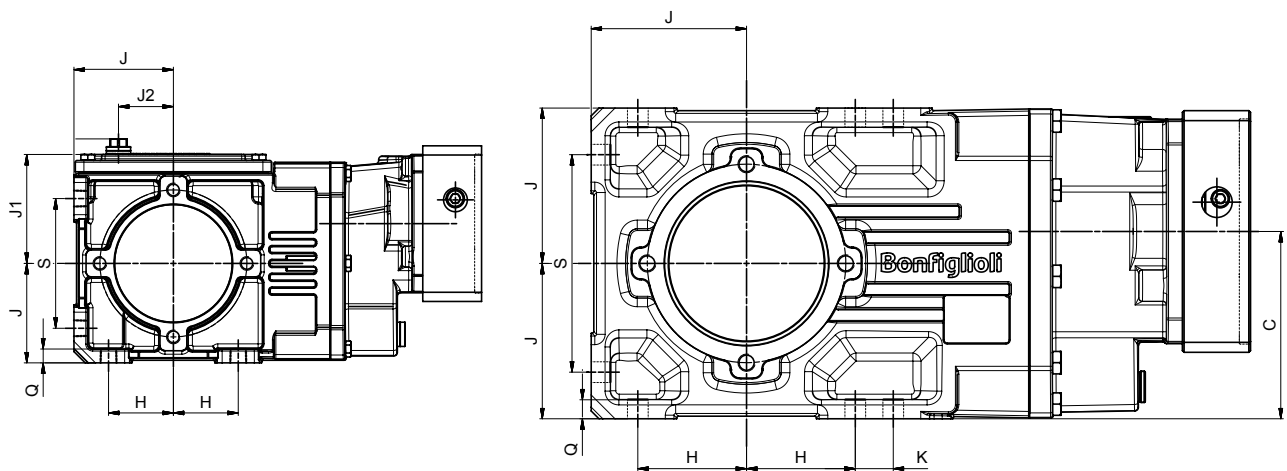
**Rear View (Right):**

- Overall width:  $N$
- Mounting flange diameter:  $\varnothing D$
- Mounting flange thickness:  $Mt$
- Mounting flange offset:  $M$
- Mounting flange flange thickness:  $N2$
- Mounting flange flange thickness:  $N1$
- Mounting flange flange thickness:  $N4$

| Input     |  | Mt<br>[Nm] | G     | M  | N1  | N2  | N4     | X   | D   | E    | F     | N   |
|-----------|------------------------------------------------------------------------------------|------------|-------|----|-----|-----|--------|-----|-----|------|-------|-----|
| S59F40B1  | M6                                                                                 | 11         | 13.75 | 9  | 63  | 40  | M4x12  | 4   | 108 | 15.1 | 10.5  | 80  |
| S11F40B1  | M6                                                                                 | 11         | 13.75 | 11 | 63  | 40  | M4x12  | 4   | 108 | 15.1 | 10.5  | 80  |
| S11F50C1  | M6                                                                                 | 11         | 13.75 | 11 | 70  | 50  | M4x10  | 4   | 90  | 15.1 | 13.75 | 80  |
| S14F40B1  | M6                                                                                 | 11         | 13.75 | 14 | 63  | 40  | M4x12  | 4   | 108 | 15.1 | 10.5  | 80  |
| S14F50C1  | M6                                                                                 | 11         | 13.75 | 14 | 70  | 50  | M4x10  | 4   | 90  | 15.1 | 13.75 | 80  |
| S11F60A2  | M6                                                                                 | 11         | 13.75 | 11 | 75  | 60  | *      | *   | *   | *    | *     | *   |
| S14F60A2  | M6                                                                                 | 11         | 13.75 | 14 | 75  | 60  | *      | *   | *   | *    | *     | *   |
| S14F80A1  | M6                                                                                 | 11         | 13.75 | 14 | 100 | 80  | *      | *   | *   | *    | *     | *   |
| S19F80A1  | M6                                                                                 | 11         | 13.75 | 19 | 100 | 80  | *      | *   | *   | *    | *     | *   |
| S16F80A1  | M6                                                                                 | 11         | 17.75 | 16 | 100 | 80  | M6x16  | 6.5 | 135 | 15.5 | 16.3  | 100 |
| S19F70B1  | M6                                                                                 | 11         | 17.75 | 19 | 90  | 70  | M5x12  | 6.5 | 135 | 15.5 | 16.3  | 100 |
| S19F95A   | M6                                                                                 | 11         | 17.75 | 19 | 115 | 95  | M8x18  | 6.5 | 135 | 15.5 | 16.3  | 100 |
| S24F110A  | M6                                                                                 | 14         | 17.75 | 24 | 130 | 110 | M8x18  | 6.5 | 155 | 15.5 | 16.3  | 115 |
| S24F95A   | M6                                                                                 | 14         | 17.75 | 24 | 115 | 95  | M8x18  | 6.5 | 135 | 15.5 | 16.3  | 100 |
| S14F80A2  | M6                                                                                 | 11         | 17.75 | 14 | 100 | 80  | M6x15  | 4   | 165 | 17   | 19.5  | 130 |
| S16F80A2  | M6                                                                                 | 11         | 17.75 | 16 | 100 | 80  | M6x15  | 4   | 165 | 17   | 19.5  | 130 |
| S19F110B1 | M6                                                                                 | 11         | 17.75 | 19 | 145 | 110 | M8x20  | 6.5 | 165 | 17   | 29.5  | 130 |
| S22F110B1 | M6                                                                                 | 14         | 17.75 | 22 | 145 | 110 | M8x20  | 6.5 | 165 | 17   | 29.5  | 130 |
| S24F110B1 | M6                                                                                 | 14         | 17.75 | 24 | 145 | 110 | M8x20  | 6.5 | 165 | 17   | 29.5  | 130 |
| S19F80A2  | M6                                                                                 | 11         | 17.75 | 19 | 100 | 80  | *      | *   | *   | *    | *     | *   |
| S19F95A1  | M6                                                                                 | 11         | 17.75 | 19 | 115 | 95  | *      | *   | *   | *    | *     | *   |
| S24F110A1 | M6                                                                                 | 14         | 17.75 | 24 | 130 | 110 | *      | *   | *   | *    | *     | *   |
| S24F130A  | M6                                                                                 | 14         | 17.75 | 24 | 165 | 130 | M10x20 | 6.5 | 190 | 17   | 19.5  | 140 |
| S24F95A1  | M6                                                                                 | 14         | 17.75 | 24 | 115 | 95  | *      | *   | *   | *    | *     | *   |
| S28F130A  | M8                                                                                 | 20         | 17.75 | 28 | 165 | 130 | M10x20 | 6.5 | 190 | 17   | 19.5  | 140 |
| S28F180A  | M8                                                                                 | 20         | 17.75 | 28 | 215 | 180 | *      | *   | *   | *    | *     | *   |
| S32F130A  | M8                                                                                 | 20         | 17.75 | 32 | 165 | 130 | M10x20 | 6.5 | 190 | 17   | 19.5  | 140 |
| S32F180A  | M8                                                                                 | 20         | 17.75 | 32 | 215 | 180 | M14x25 | 6.5 | 250 | 21.5 | 29.5  | 190 |
| S38F180A1 | M8                                                                                 | 25         | 17.75 | 38 | 215 | 180 | M14x25 | 6.5 | 250 | 29.5 | 44.5  | 190 |

**P** Coupling available, the value represent the P measure in millimeters  
Coupling unavailable

# DIMENSIONS | A SERIES OUTPUT INTERFACE



| Size | Stages | C     | H    | J    | J1* | J2*   | K  | S   | Q  |
|------|--------|-------|------|------|-----|-------|----|-----|----|
| A 05 | 2      | 80,5  | 37,5 | 57,5 | 72  | 31,75 |    | 75  | 8  |
| A 10 | 2      | 83    | 50   | 70   |     |       |    | 100 | 9  |
| A 20 | 2      | 93    | 60   | 80   |     |       |    | 120 | 9  |
| A 20 | 3      | 93    | 60   | 80   |     |       |    | 120 | 9  |
| A 30 | 2      | 108,5 | 63   | 90   |     |       | 22 | 126 | 11 |
| A 30 | 3      | 108,5 | 63   | 90   |     |       | 22 | 126 | 11 |
| A 35 | 2      | 113,5 | 73   | 100  |     |       |    | 146 | 11 |
| A 35 | 3      | 113,5 | 73   | 100  |     |       |    | 146 | 11 |
| A 41 | 2      | 129,5 | 80   | 112  |     |       | 20 | 160 | 13 |
| A 41 | 3      | 129,5 | 80   | 112  |     |       | 20 | 160 | 13 |

J1 - J2 dimensions are related to the A 05 gear unit only

# OUR GLOBAL PRESENCE

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Thanks to an international network of closely interconnected commercial and production sites, we can guarantee the same high standards of Bonfiglioli quality anywhere at any given time. We know that our direct presence in local markets is the key to long-lasting success, so our family includes 18 production sites, 23 commercial sites and more than 550 distributors around the world.

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

  
**18**

PRODUCTION SITES

  
**23**

COMMERCIAL SITES

  
**80**

COUNTRIES

  
**550**

DISTRIBUTORS

  
**~4,700**

PEOPLE

## AUSTRALIA

**Bonfiglioli Transmission (Aust.) Pty Ltd**  
2, Cox Place Glendenning NSW 2761  
Locked Bag 1000 Plumpton NSW 2761  
Tel. +61 2 8811 8000



## BRAZIL

**Bonfiglioli Redutores do Brasil Ltda**  
Av. Osvaldo Fregonezi, 171, cjs 31 e 44  
CEP 09851-015 - São Bernardo do Campo  
São Paulo  
Tel. +55 11 4344 2322



## CHINA

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



### Industry & Automation Solutions

#568, Longpan Road, Jiading District,  
201707 Shanghai



### Bonfiglioli Trading (Shanghai) Co. Ltd.

Room 423, 4<sup>th</sup> Floor, #38, Yinglun Road,  
China (Shanghai) Pilot Free Trade Zone,  
Shanghai



### Selcom Electronics (Shanghai) Co., Ltd

A7, No.5399, Waiqingsong Road, QingPu  
District,  
201707 Shanghai  
Tel. +86 21 6010 8100



A24, No.5399, Waiqingsong Road, QingPu  
District,  
201707 Shanghai  
Tel. +86 21 6010 8100



## FRANCE

### Bonfiglioli Transmission S.A.S.

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



## GERMANY

### Bonfiglioli Deutschland GmbH

Sperberweg 12 - 41468 Neuss  
Tel. +49 0 2131 2988 0



### Bonfiglioli Vectron GmbH

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



### O&K Antriebstechnik GmbH

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



## INDIA

### Bonfiglioli Transmission Pvt. Ltd.

#### Mobility & Wind Industries

AC 7 - 11, SIDCO Industrial Estate,  
Thirumudivakkam  
Kancheepuram - 600132 - Tamil Nadu  
Tel. +91 844 844 8649



#### Industry & Automation Solutions

Survey No. 528/1, Perambakkam High Road  
Mannur Village, Sriperumbudur Taluk  
Kancheepuram - 602 105 - Tamil Nadu  
Tel. +91 844 844 8649



#### Industry & Automation Solutions

Plot No E-5/2, Badhalwadi  
Talegaon MIDC Phase II,  
Pune - 410 507 - Maharashtra  
Tel. +91 844 844 8649



### Bonfiglioli Drive Systems Pvt. Ltd.

#### Industry & Automation Solutions

No 50, Pappambakkam Road,  
Mannur Village, Sriperumbudur Taluk,  
Kancheepuram - 602105 - Tamil Nadu  
Tel. +91 844 844 8649



## ITALY

### Bonfiglioli Riduttori S.p.A.

#### Industry & Automation Solutions

Via Cav. Clementino Bonfiglioli, 1  
40012 Calderara di Reno  
Tel. +39 051 6473111



#### Industry & Automation Solutions

Via Sandro Pertini, lotto 7b  
20080 Carpiano  
Tel. +39 02985081



#### Industry & Automation Solutions

Via Saliceto, 15 - 40010 Bentivoglio



#### Mobility & Wind Industries

Via Enrico Mattei, 12 Z.I. Villa Selva  
47122 Forlì  
Tel. +39 0543 789111



#### Industry & Automation Solutions

Via Unione, 49 - 38068 Rovereto  
Tel. +39 0464 443435/36



### Selcom Group S.p.A.

Via Achille Grandi, 5  
40013 Castel Maggiore (BO)  
Tel. +39 051 6387111



Via Marino Serenari, 18  
40013 Castel Maggiore (BO)  
Tel. +39 051 6387111



Via Cadriano, 19  
40057 Cadriano (BO)  
Tel. +39 051 6387111



## NEW ZEALAND

### Bonfiglioli Transmission (Aust.) Pty Ltd

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



## SINGAPORE

### Bonfiglioli South East Asia Pte Ltd

8 Boon Lay Way, #04-09,  
8@ Tadehub 21, Singapore 609964  
Tel. +65 6268 9869



## SLOVAKIA

### Bonfiglioli Slovakia s.r.o.

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



## SOUTH AFRICA

### Bonfiglioli South Africa Pty Ltd.

55 Galaxy Avenue, Linbro Business Park,  
Sandton, Johannesburg  
2090 South Africa  
Tel. +27 11 608 2030



## SPAIN

### Tecnotrans Bonfiglioli S.A

Avinguda del Ferrocarril, n° 14,  
Polígono Industrial Can Estapé  
08755 Castellbisbal - Barcelona  
Tel. +34 93 447 84 00



## TURKEY

### Bonfiglioli Turkey Jsc

Atatürk Organize Sanayi Bölgesi,  
10007 Sk. No. 30  
Atatürk Organize Sanayi Bölgesi,  
35620 Çiğli - İzmir  
Tel. +90 0 232 328 22 77



## UNITED KINGDOM

### Bonfiglioli UK Ltd.

Unit 1 Calver Quay, Calver Road, Winwick  
Warrington, Cheshire - WA2 8UD  
Tel. +44 1925 852667



## USA

### Bonfiglioli USA Inc.

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



## VIETNAM

### Bonfiglioli Vietnam Ltd.

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 & sustainability. Our team creates, distributes and services world-class power transmission & drive solutions to keep the world in motion.

#### **HEADQUARTERS**

##### **Bonfiglioli S.p.A**

Via Cav. Clementino Bonfiglioli, 1  
40012 Calderara di Reno - Bologna (Italy)  
Tel. +39 051 6473111

