

Bonfiglioli **Tecnoingranaggi**

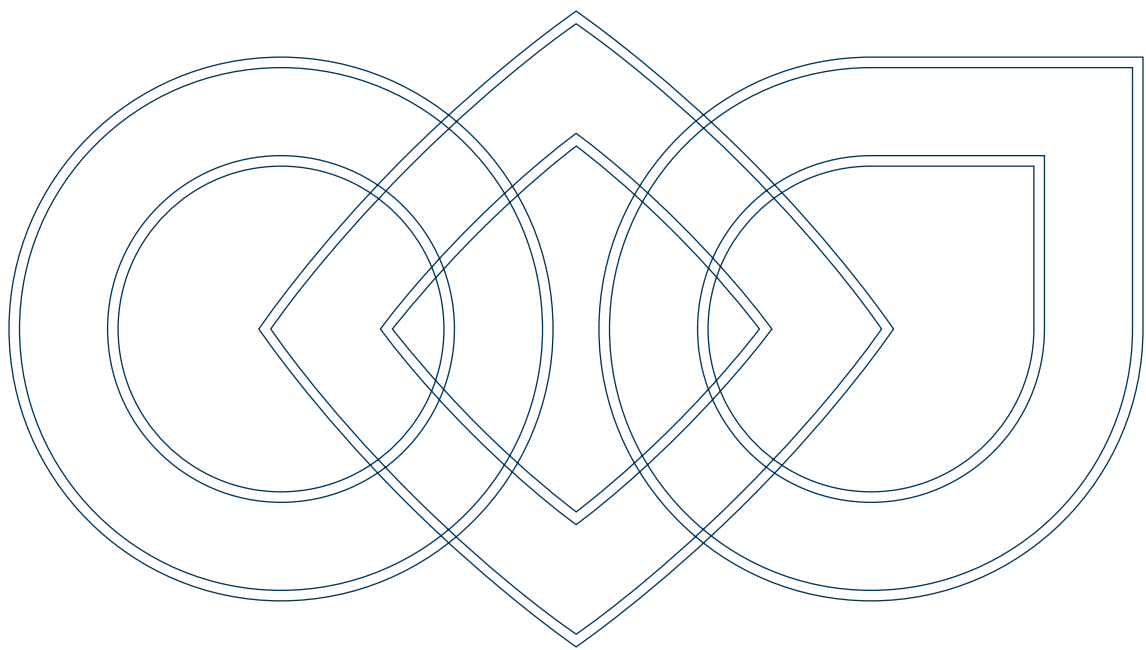
Precision Planetary Gearboxes Range

New Technology Standard
Powerfull
Precise



PRODUCT

 **Bonfiglioli**
Forever Forward



THE HIGHEST LEVEL OF PRECISION, EFFICIENCY AND ENERGY OPTIMIZATION.

Committed to become your world class partner, Bonfiglioli is a leading name in power transmission since 1956. Our best-in-class solutions are backed by nearly 60 years of engineering expertise as well as an in-depth understanding of the industries we serve.

High innovative mechatronic tailored solutions from unique supplier to meet any kind of specific needs.

Our solutions include precision planetary gearboxes, servomotors, servo inverters and regenerative inverters. An unique combination of mechatronic solutions plus a vast range of products for industry make Bonfiglioli a one-stop-shop for applications in many different sectors.

Our two centres of excellence, one in Italy and one in Germany, drive success in mechatronics by developing breakthrough innovations.



MECHATRONIC SOLUTIONS FOR ALL INDUSTRIAL APPLICATIONS

Bonfiglioli is a leading drive and automation specialist in mechatronic applications. We are able to develop electronically orientated products as well as mechatronic and vertically integrated solutions with its mechanical, electrical, electronic and applications competences, Bonfiglioli can assist you to design cost effective and energy efficient machines and installations, aligning their performance to precisely meet your needs.



**CO-ENGINEERING
DEVELOPMENT**



**PROJECT
COMMISSIONING**



**MAINTENANCE &
SERVICES**

A COMPLETE INTEGRATED SOLUTION

APPLICATION / ENGINEERING

Research & Development focusing on
Mechanical and Mechatronic
Customized solutions
Prototyping, testing and analysis

INSTALLATION / START-UP

On-site assistance
Start-up assistance
Commissioning

AFTER SALES

Maintenance
Pre-sale and post-sale customer service

OUR SERVICES

- **FREQUENCY INVERTERS**
- **ENERGY REGENERATIVE INVERTERS**
- **AC MOTORS**
- **PM SYNCHRONOUS MOTORS**
- **PRECISION PLANETARY GEARBOXES**
- **INDUSTRIAL GEARBOXES**
- **SERVO INVERTERS**



INDUSTRY SECTOR EXPERTISE



MATERIALS
HANDLING



CRANES



FOOD,
BEVERAGE,
AND TOBACCO



MINING



PACKAGING



TEXTILES



RUBBER AND
PLASTICS



WOOD
PROCESSING

MECHATRONICS - THE CHALLENGE TO BUILD YOUR SUCCESS

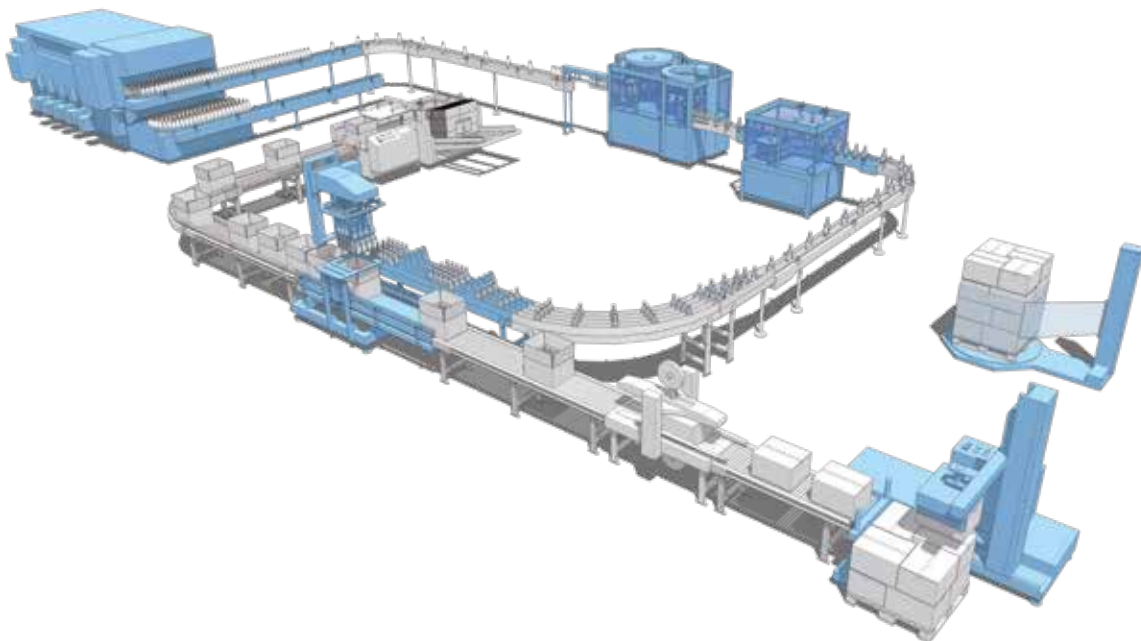
Faster, better and cheaper - this is the new challenge for machine designers!

Increasing demands on the productivity of complex system machines, more flexible machines which run at highest efficiency level are requiring now new intelligent technical solutions that enhance growth tomorrow.

Bonfiglioli has implemented a precise and detailed strategy to precisely achieve this objective!

Bonfiglioli Mechatronic Drives & Solutions division is born with the mission to improve profitability by acting as a riskless partner and a provider of energy-efficient solutions over the total lifecycle in the field of industrial automation.

- System integration
- Expertise
- Energy saving



OUR EXPERTISE FROM START TO FINISH!

Two Centers of Excellence are driving MDS' innovation:

- Bonfiglioli Vectron in Germany, with strong technical, R&D and manufacturing capabilities as regards electronic components, and most notably inverters and servo drives;
- BMR (Bonfiglioli Mechatronic Research), situated in Rovereto (Trento, Italy) who offers a strong R&D capability able to provide innovative new solutions for your specific needs. BMR is a production facility where mechatronic new solutions become reality.

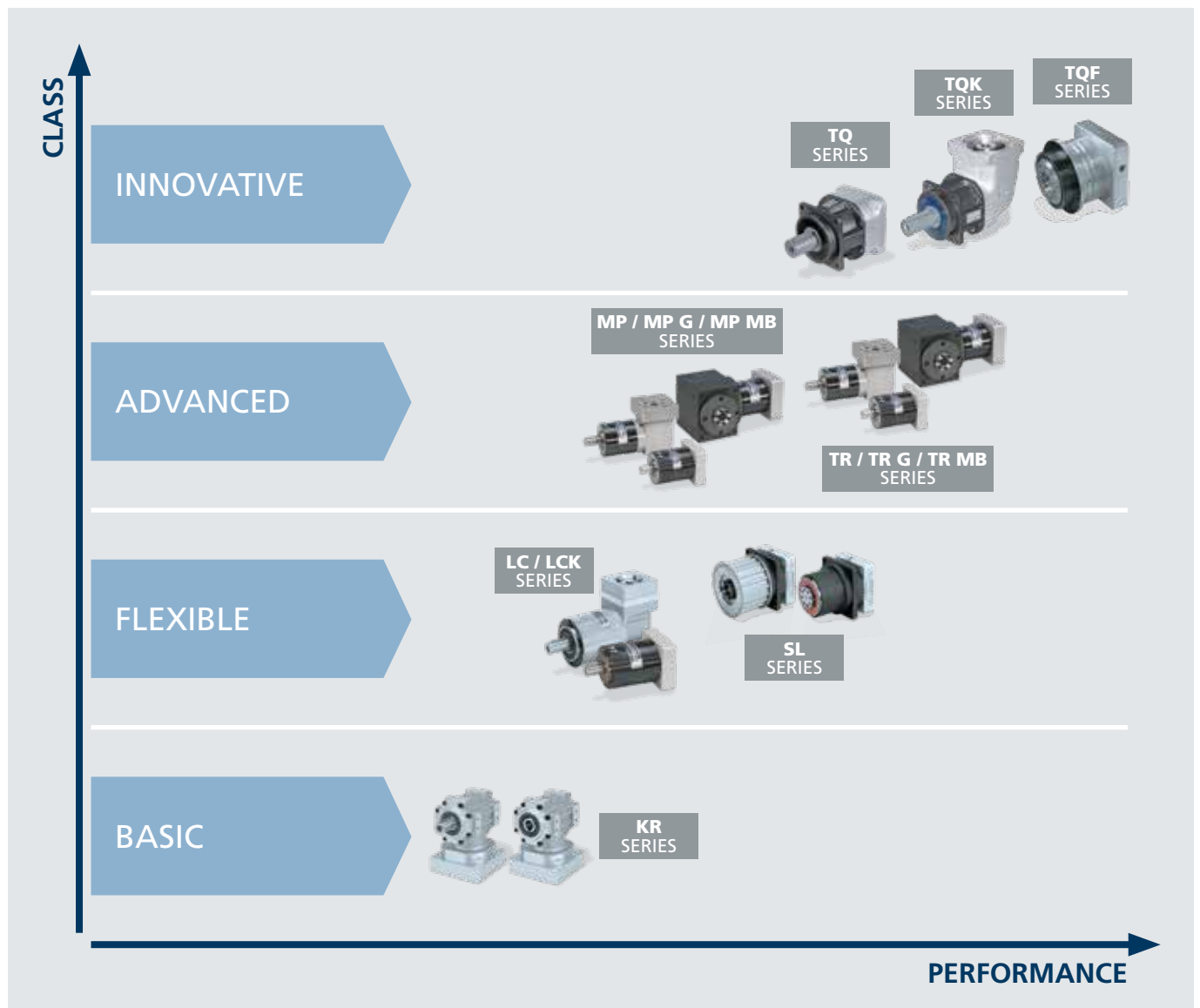
Key to our MDS' success is strongest technical support from our specialists DSC (Drive Service Center team). They accompany you throughout the entire installation's lifecycle, from initial concept idea and design until commissioning.

Bonfiglioli
is close to your needs internationally through its branches which can directly follow the customers using streamlined international teams.



PERFORMANCE CLASSES

BONFIGLIOLI PRECISION PLANETARY GEARBOXES



INNOVATIVE LINE

TQ



PRECISION PLANETARY IN-LINE GEARBOX

BACKLASH	TORSIONAL STIFFNESS	PROTECTION RATING	RADIAL FORCES	WIDE RANGE OF RATIO
●●●	●●●	●●●	●●●	●●

Size: 060 / 070 / 090 / 130 / 160
Backlash: 1 stage \leq 2 arcmin / 2 stages \leq 3 arcmin
Torque: 20 ... 800 Nm
Ratios: 1 stage 3 ... 10 / 2 stages 16 ... 100
Input speed: Up to 6000 min⁻¹
Max. radial force: 1850 ... 15000 N

TQF



PRECISION PLANETARY IN-LINE FLANGED GEARBOX

BACKLASH	TORSIONAL STIFFNESS	PROTECTION RATING	RADIAL FORCES	WIDE RANGE OF RATIO
●●●	●●●	●●●	●●●	●●

Size: 060 / 070 / 090 / 130 / 160
Backlash: 1 stage less than 3 arcmin / 2 stages less than 5 arcmin
Torque: 20 ... 800 Nm
Ratios: 1 stage 3 ... 10 / 2 stages 16 ... 100
Input speed: Up to 6000 min⁻¹
Max. radial force: 2400 ... 29000 N

TQK



PRECISION PLANETARY RIGHT-ANGLE GEARBOX

BACKLASH	TORSIONAL STIFFNESS	PROTECTION RATING	RADIAL FORCES	WIDE RANGE OF RATIO
●●●	●●●	●●●	●●●	●●

Size: 060 / 070 / 090 / 130 / 160
Backlash: 2 stages less than 4 arcmin / 3 stages less than 6 arcmin
Torque: 20 ... 800 Nm
Ratios: 1 stage 3 ... 10 / 2 stages 16 ... 100
Input speed: Up to 6000 min⁻¹
Max. radial force: 1850 ... 15000 N

ADVANCED LINE

TR



PRECISION PLANETARY IN-LINE GEARBOX

BACKLASH	TORSIONAL STIFFNESS	PROTECTION RATING	RADIAL FORCES	WIDE RANGE OF RATIO
●●●	●●	●●●	●●	●●●

Size: 053 / 060 / 080 / 105 / 130 / 160 / 190

Backlash: 1 stage ≤ 3 arcmin / 2 stages ≤ 3 arcmin / 3 stages ≤ 5 arcmin

Torque: 12 ... 1000 Nm

Ratios: 1 stage 3 ... 10 / 2 stages 9 ... 100 / 3 stages 48... 1000

Input speed: Up to 6000 min⁻¹

Max. radial force: 500 ... 14000 N

TR G



PRECISION PLANETARY RIGHT-ANGLE GEARBOX

BACKLASH	TORSIONAL STIFFNESS	PROTECTION RATING	RADIAL FORCES	WIDE RANGE OF RATIO
●●●	●●	●●●	●●	●●●

Size: 053 / 060 / 080 / 105 / 130 / 160

Backlash: 2 stages ≤ 3 arcmin / 3 stages ≤ 3 arcmin / 4 stages ≤ 5 arcmin

Torque: 20 ... 700 Nm

Ratios: 2 stage 3 ... 10 / 3 stages 9 ... 100 / 4 stages 48... 1000

Input speed: Up to 6000 min⁻¹

Max. radial force: 2400 ... 6500 N

TR MB



PRECISION PLANETARY RIGHT-ANGLE GEARBOX

BACKLASH	TORSIONAL STIFFNESS	PROTECTION RATING	RADIAL FORCES	WIDE RANGE OF RATIO
●●●	●●	●●●	●●	●●●

Size: 080 / 105 / 130 / 160

Backlash: 2 stages ≤ 3 arcmin / 3 stages ≤ 3 arcmin / 4 stages ≤ 5 arcmin

Torque: 40 ... 700 Nm

Ratios: 2 stage 3 ... 10 / 3 stages 9 ... 100 / 4 stages 48 ... 1000

Input speed: Up to 6000 min⁻¹

Max. radial force: 6000 ... 15000 N

ADVANCED LINE

MP



PRECISION PLANETARY IN-LINE GEARBOX

BACKLASH	TORSIONAL STIFFNESS	PROTECTION RATING	RADIAL FORCES	WIDE RANGE OF RATIO
●●	●●	●●●	●●	●●●

Size: 053 / 060 / 080 / 105 / 130 / 160 / 190

Backlash: 1 stage ≤ 10 arcmin / 2 stages ≤ 10 arcmin / 3 stages ≤ 10 arcmin

Torque: 12 ... 1000 Nm

Ratios: 1 stage 3 ... 10 / 2 stages 9 ... 100 / 3 stages 48... 1000

Input speed: Up to 6000 min⁻¹

Max. radial force: 500 ... 14000 N

MP G



PRECISION PLANETARY RIGHT-ANGLE GEARBOX

BACKLASH	TORSIONAL STIFFNESS	PROTECTION RATING	RADIAL FORCES	WIDE RANGE OF RATIO
●●	●●	●●●	●●	●●●

Size: 053 / 060 / 080 / 105 / 130 / 160

Backlash: 2 stages ≤ 10 arcmin / 3 stages ≤ 10 arcmin / 4 stages ≤ 12 arcmin

Torque: 20 ... 700 Nm

Ratios: 2 stage 3 ... 10 / 3 stages 9 ... 100 / 4 stages 48... 1000

Input speed: Up to 6000 min⁻¹

Max. radial force: 2400 ... 6500 N

MP MB



PRECISION PLANETARY RIGHT-ANGLE GEARBOX

BACKLASH	TORSIONAL STIFFNESS	PROTECTION RATING	RADIAL FORCES	WIDE RANGE OF RATIO
●●	●●	●●●	●●	●●●

Size: 080 / 105 / 130 / 160

Backlash: 2 stages ≤ 10 arcmin / 3 stages ≤ 12 arcmin / 4 stages ≤ 12 arcmin

Torque: 40 ... 700 Nm

Ratios: 2 stage 3 ... 10 / 3 stages 9 ... 100 / 4 stages 48 ... 1000

Input speed: Up to 6000 min⁻¹

Max. radial force: 6000 ... 15000 N

FLEXIBLE LINE

LC



PRECISION PLANETARY IN-LINE GEARBOX

BACKLASH	TORSIONAL STIFFNESS	PROTECTION RATING	RADIAL FORCES	WIDE RANGE OF RATIO
●●	●●	●●	●●	●●

Size: 050 / 070 / 090 / 120 / 155
Backlash: 1 stage ≤ 6 arcmin / 2 stages ≤ 8 arcmin
Torque: 10 ... 450 Nm
Ratios: 1 stage 3 ... 10 / 2 stages 9 ... 100
Input speed: Up to 6000 min⁻¹
Max. radial force: 500 ... 6000 N

LCK



PRECISION PLANETARY RIGHT-ANGLE GEARBOX

BACKLASH	TORSIONAL STIFFNESS	PROTECTION RATING	RADIAL FORCES	WIDE RANGE OF RATIO
●●	●●	●●	●●	●●

Size: 050 / 070 / 090 / 120 / 155
Backlash: 2 stages ≤ 6 arcmin / 3 stages ≤ 8 arcmin
Torque: 10 ... 700 Nm
Ratios: 2 stage 6 ... 14 / 3 stages 24 ... 100
Input speed: Up to 5000 min⁻¹
Max. radial force: 500 ... 6000 N

SL



PRECISION PLANETARY IN-LINE GEARBOX FOR PULLEY DRIVES

BACKLASH	TORSIONAL STIFFNESS	PROTECTION RATING	RADIAL FORCES	WIDE RANGE OF RATIO
●●	●●●	●●●	●●●	●●

Size: 080 / 105 / 130 / 160
Backlash: 2 stages less than 4 arcmin / 3 stages less than 6 arcmin
Torque: 40 ... 700 Nm
Ratios: 2 stage 3 ... 10 / 3 stages 9 ... 100 / 4 stages 48 ... 1000
Input speed: Up to 6000 min⁻¹
Max. radial force: 6000 ... 15000 N

BASIC LINE

KR



PRECISION BEVEL GEARBOX

BACKLASH	TORSIONAL STIFNESS	PROTECTION RATING	RADIAL FORCES	WIDE RANGE OF RATIO
●●	●●	●●	●	●

Size: 010 / 020 / 030 / 040

Backlash: 1 stages less than 8 arcmin

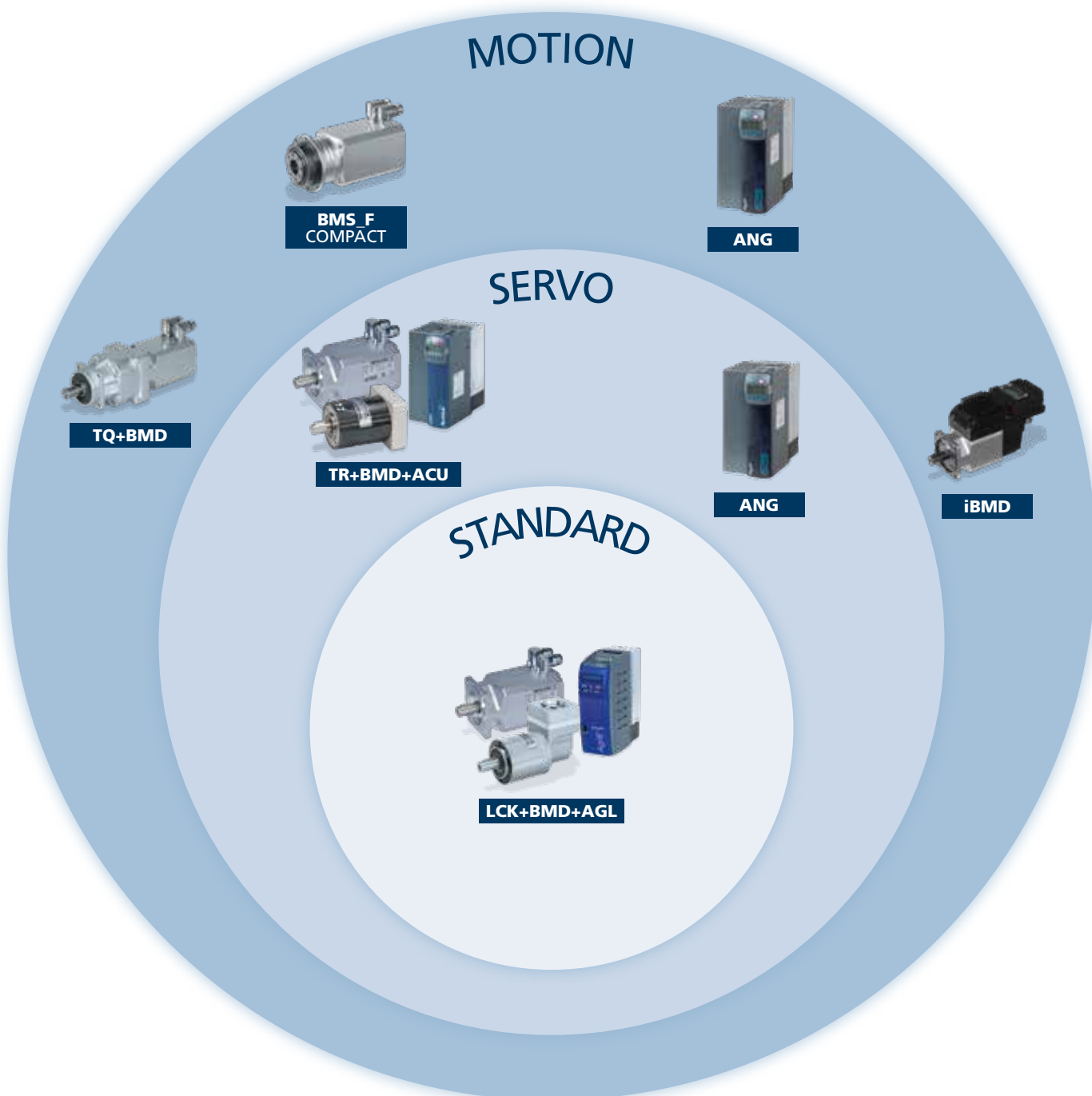
Torque: 3 ... 120 Nm

Ratios: 1 stage ratio 1; 2; 5

Input speed: Up to 3000 min⁻¹

Max. radial force: 500 ... 5500 N

SELECT THE OPTIMUM SERVOPACKAGE FROM A MULTITUDE OF SCENARIOS POSSIBLE



Across a wide product portfolio, engineering expertise, fine tunes optimization, we are able to propose cost – effective solution, which fits each specific requirement.

A RELIABLE PARTNER FOR YOUR BUSINESS

Bonfiglioli Riduttori brings decades of experience supporting customers across a broad spectrum of industry sectors.

Our industry expertise means we understand your applications: product and requirements must fit and form a solution that match to your application.

Our tailored-solutions always offer to you a complete approach.

Some of the industrial sectors we serve:

- Machine tools
- Packaging & labeling
- Food, beverage & tobacco
- Glass working
- Robotics
- Automation storage
- Ceramic
- Electronics & electronic assembly
- Woodworking



PACKAGING & LABELLING



FOOD, BEVERAGE & TOBACCO



WOODWORKING MACHINES



CERAMIC

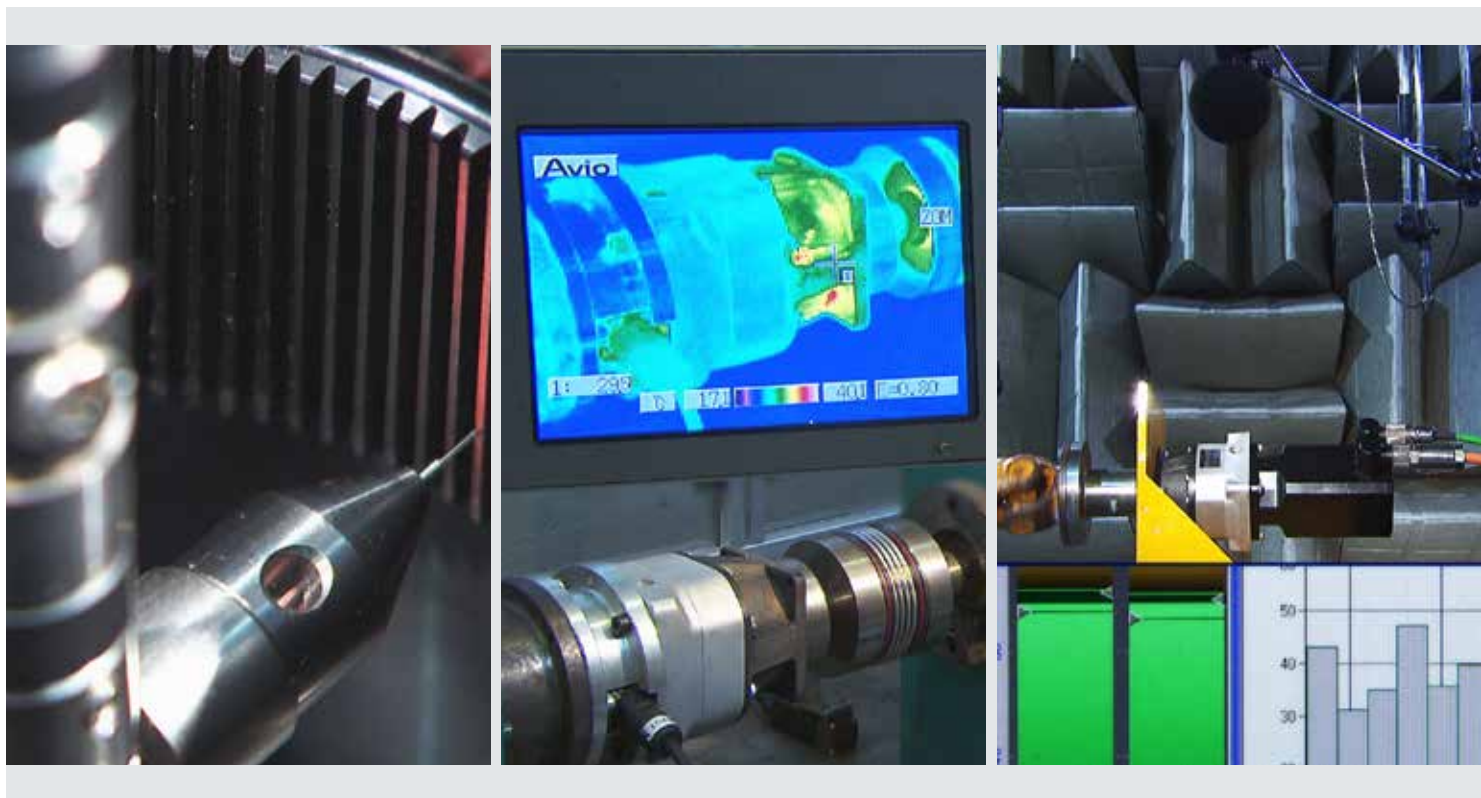


SHARING THE VALUE OF OUR WORK WITH YOU

Our team is fully dedicated to continuous improvement in the fields of quality, safety and the environment, across the entire value chain, from the smallest supplier to the end customer.

Bonfiglioli management systems are certified to ISO 9001:2008, ISO 14001 and OHSAS 18001, while our products are covered by international certifications.

Product reliability, excellence, innovation make Bonfiglioli a preferred partner.

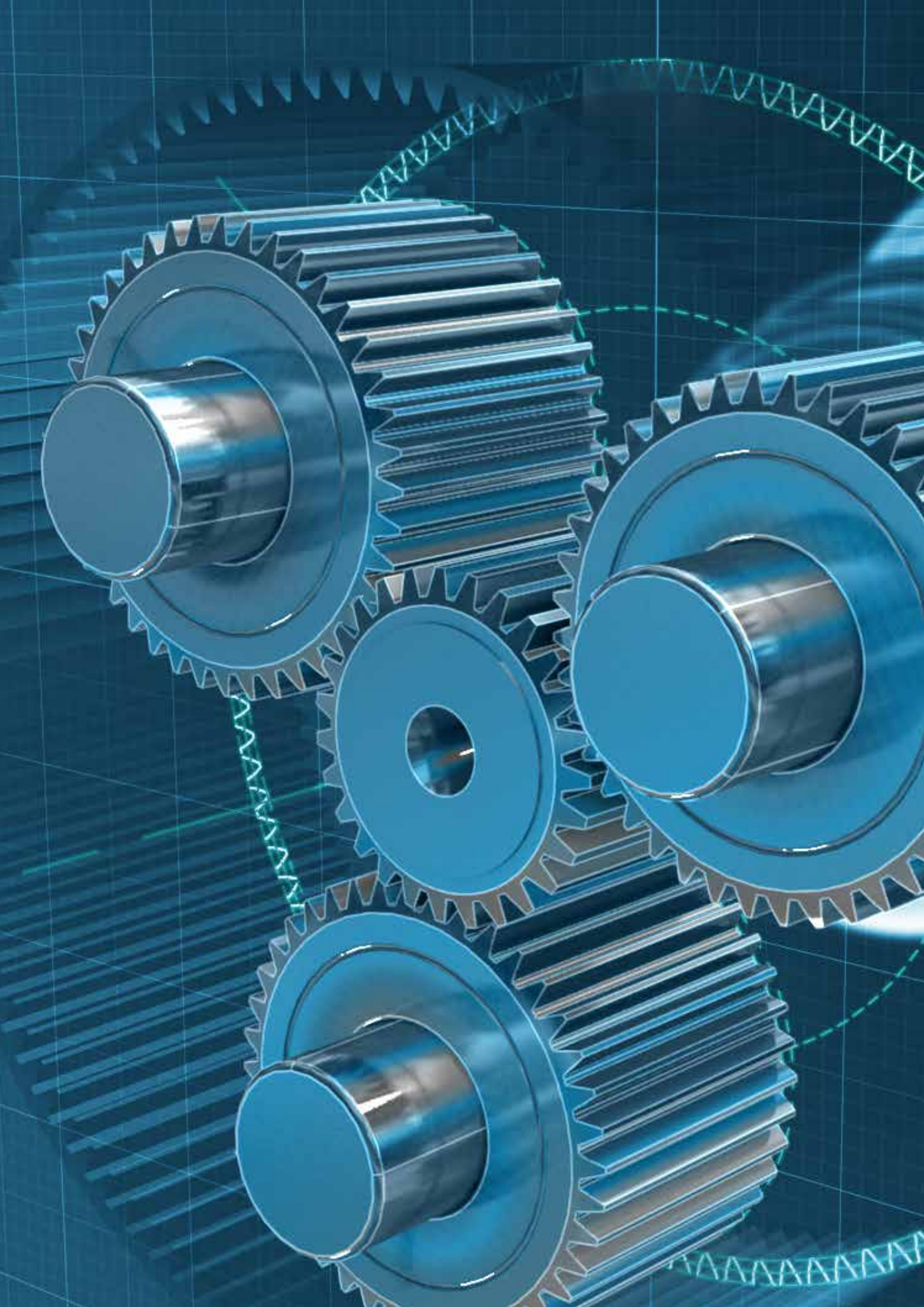


SYSTEM CERTIFICATIONS:



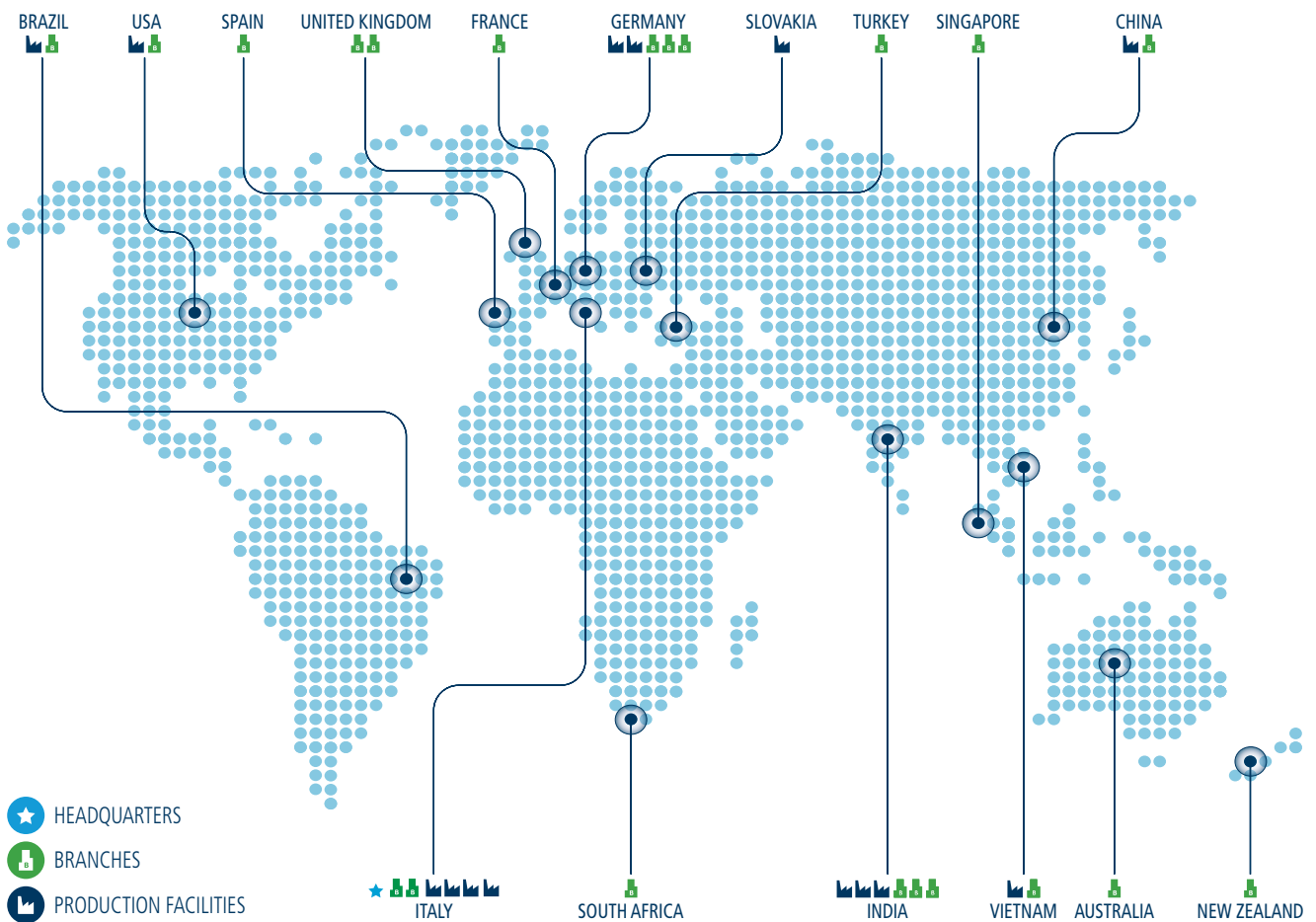
PRODUCT CERTIFICATIONS:





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**



**WORLDWIDE
 DISTRIBUTION
 NETWORK**

Bonfiglioli worldwide locations

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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.



HEADQUARTERS

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