

Co Bonfiglioli



BONFIGLIOLI SOLUTIONS FOR FOOD & BEVERAGE





Grain Handling & Milling Page 4 to 9



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The widest range of solutions for Food & Beverage processing and machinery

Within the Food & Beverage industry, Bonfiglioli offers a diverse range of solutions for all types of applications. We have decades of experience in developing customized solutions for the most challenging applications around the world and incomparable expertise in typical Food & Beverage processing applications.

Some of the biggest product lines and most advanced applications in the world are powered by at least one Bonfiglioli solution, final drive, gearbox, gearmotor or inverter.

Bonfiglioli also offers specific products for hygienic, explosion-proof and enhanced protection, developed to deliver the reliability and durability typically demanded by the Food & Beverage sector.

Bonfiglioli also provides solutions for:







PACKAGING PROCESSES



SUGAR CANE MILI PLANTS

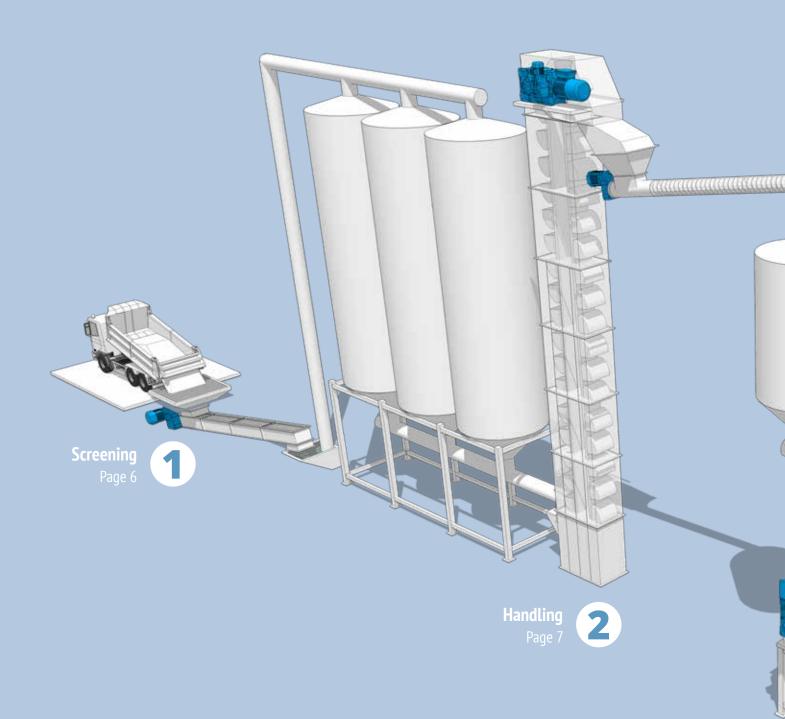
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Products for all types of food processing equipment:

- Drying and cooking machines
- Extrusion machines (Food and Pet Food)
- Freezing and chilling lines (spiral freezers,
- tunnel freezers, carton freezers, ...)
- Grading and sorting machines
- Grain logistic systems
- Grinding and flaking machines
- Homogenizing machines
- Milling machines
- Mixing / Stirring machines
- Presses
- Rendering systems
- Conveyors



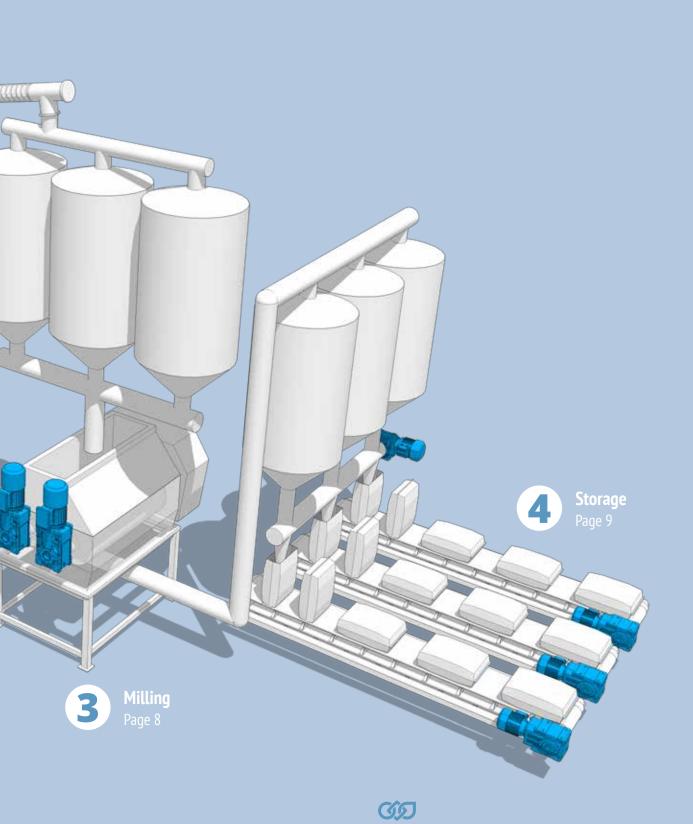
GRAIN HANDLING & MILLING



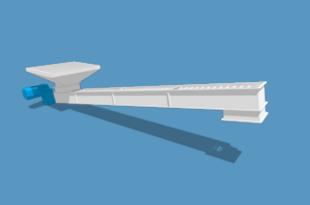
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GRAIN HANDLING & MILLING



Screening Drag conveyor



Because this high-volume application is stressed continuously, we offer versatile, highly resistant, energy-efficient products that enhance production. Moreover, our gearboxes are ATEX certified, guaranteeing the highest level of protection for our customers.

F Series | 🐼 Shaft mounted gearbox and geared motor

Benefits

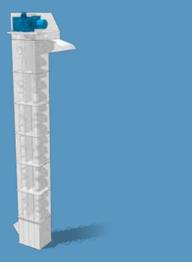
- Easy installation
- Quiet operation
- High torque capabilities

- ATEX-compliant gearboxes (according to Directive 2014/34/EU)
- · Keyed hollow shaft with two bore options per size, or hollow shaft with shrink (metric and imperial dims)
- Backstop device
- Surface protection class C3, C4 and C5 (according to standard UNI EN ISO 12944-2)
- High and premium efficiency motors (IE2, IE3)
- · Anti-condensation heaters and tropicalized windings
- · Energy efficiency approval by DOE (USA Department of Energy) and NRCan (Natural Resources Canada)









Handling Bucket elevators



Bonfiglioli's extensive expertise in this application ensures our customers a range of solutions tailored to their needs. Gearmotors with integrated base plates to simplify installation, auxiliary drives to ease machine maintenance, backstop devices to increase application safety, and elastic couplings to smooth out start/stop procedures are only a few of the benefits that Bonfiglioli products provide to customers.

HDO Series Heavy duty gearbox and geared motor with A Series Helical bevel geared motors auxiliary drive

Benefits

- Integrated solution for auxiliary and main drives
- High power capacity
- · One-stop-shop for a complete drive solution
- · Extended lifetime & reliability

Features

- · Self engaging auxiliary drive for machine maintenance operations
- · Backstop and overrun clutch device
- ATEX compliant gearbox according to Directive 2014/34/EU
- Torque up to 210 000 Nm
- Oil level and temperature sensors, torque arm and coupling integrated self-cooling system and coupling

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- Integrated forced oil lubrication option
- Surface protection class C3, C4 and C5 (according to standard UNI EN ISO 12944-2)
- Brake motors
- \cdot AC or DC brake type
- Micro-switch (control of brake operation)
- Anti-condensation heaters and tropicalized windings
- Forced ventilation with independent cooling



Active Cube Series Premium inverter

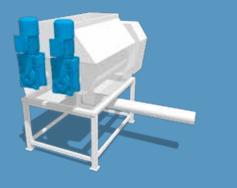
Benefits

- IP54 option
- Smooth start
- \cdot Torque control
- Motor temperature monitoring

- Series optionally extendable for field bus communication and encoder evaluation
- Plug-in power terminals (up to 3kW)
- Plug-in and programmable control terminals
- DC link connection
- Integrated brake chopper
- Positioning function via field bus (Motion Control compatible to CiA DS402)
- Integrated VPLC
- Master/slave function with electronic gear
- Power failure control
- Integrated safe torque off STO (SIL 3 / PL e) function
- Output frequency 0...599 Hz, higher frequencies on request
- Diagnosis and setup via optional keypad or PC software



GRAIN HANDLING & MILLING



Milling Crushers, flaking & milling machines

Bonfiglioli solutions for flaking and milling ensure smooth operation to optimize the grinding of wheat into flour. For speed control, Bonfiglioli provides a complete drive solution from the gearmotor to the inverter. Bonfiglioli drives can safely operate in dusty milling environments, and their easy maintenance reduces downtime.

HDO Series Heavy duty gearbox and geared motor (Bevel-Helical)

Benefits

- One-stop-shop for complete drive solutions
- Highly transmissible power
- Extensive customization
- Quiet operations
- External cooling-system free

Features

- · Strengthened E-motor input flange with integrated with self cooling system and coupling
- Torque range up to 210 000 Nm
- ATEX-compliant gearbox according to Directive 2014/34/EU
- Integrated forced lubrication
- Taconite seals
- · Protective hollow shaft cover
- · High rigidity and stiffness gear case
- Strengthened E-motor flange with integrated self-cooling and coupling
- · Oil level and temperature sensors
- Surface protection class C3, C4 and C5 (according to standard UNI EN ISO 12944-2)

CS5

- High and premium efficiency motors (IE2, IE3)
- Thermal protection (bi-Metallic, PTC or KTY)
- Protective canopy
- Rotor balancing class A (standard) or B (available on request)



Agile Series Smart inverter

Benefits

- Smooth start
- Feed roll control
- Low energy consumption

Features

• Series optionally extendable for field bus communication

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- Sensorless control of synchronous and asynchronous motors
- Modbus and Systembus onboard
- DC link connection
- Integrated brake chopper
- Power failure control
- Programmable PI Controller
- Integrated VPLC
- Master/slave function with electronic gear
- Integrated safe torque off STO (SIL 2 / PL d) function
- Energy Saving function
- Intelligent current limits
- Output frequency 0...599 Hz, higher frequencies on request
- Diagnosis and setup via integrated keypad and integrated Service interface for PC connection







Storage Bagging machines & conveyors

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Our start-to-finish conveying solutions ensure precise, reliable processes for both bagging machines and conveyors. By meeting the dynamics and control requirements of bagging machines and providing space optimization for conveyors, Bonfiglioli gearmotors can fulfill almost any customer need.

A Series | 😔 Bevel-helical geared motors

Benefits

- Compact layout
- Flexible mounting
- Modular design

Features

- ATEX-compliant gearbox (according to Directive 2014/34/EU)
- Keyed hollow shaft (metric and imperial dims)
- Taconite seals option for larger sizes
- Surface protection class C3, C4 and C5 (according to standard UNI EN ISO 12944-2)
- High and premium efficiency motors (IE2, IE3)
- Protection rating up to IP56
- Wide range of feedback devices (incremental and absolute encoders)
- Wide range of connectors

Active Series Standard AC drive

Benefits

- Speed control
- Smooth start

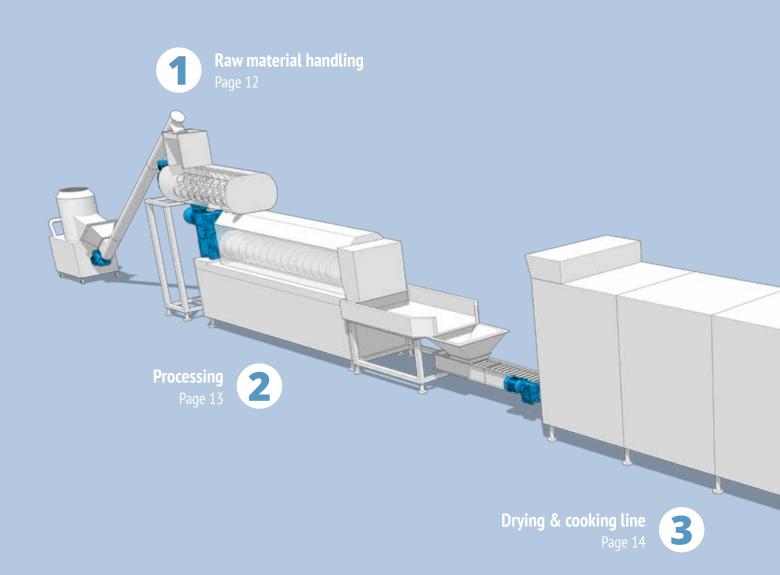
- Motor temperature monitoring
- · Main software features:
- Auto start-up and commissioning
- Auto start after power failure







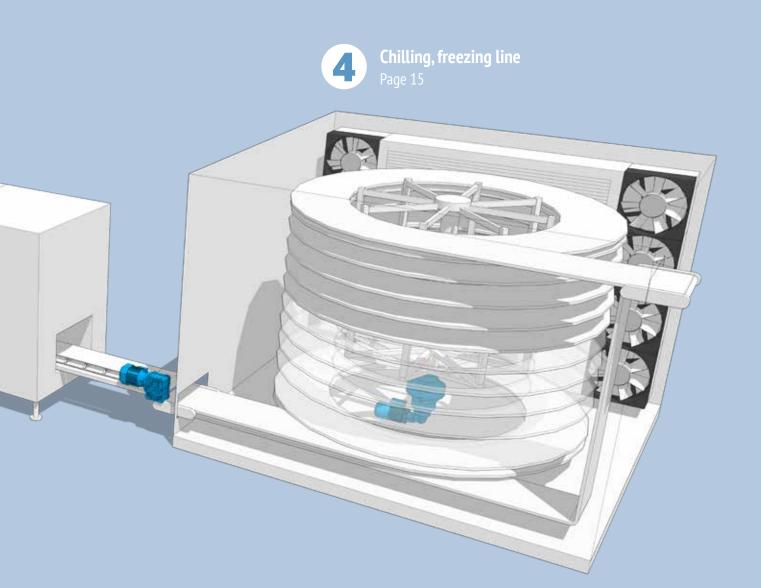
FOOD BAKING



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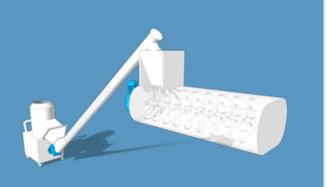


PACKAGING PROCESS SOLUTIONS >

Visit www.bonfiglioli.com for more information.



FOOD BAKING



Raw material handling Feed system, conveyor, mixer



Raw material handling is the first phase of the baking process. The machines must ensure continuous operation to prevent interruption of the subsequent baking process. Bonfiglioli's raw material handling solutions meet this requirement by combining robustness, flexible assembly and cost effectiveness.

F Series Shaft mounted gearbox and geared motor

Benefits

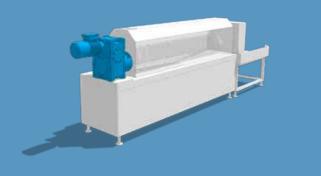
- Easy installation
- Quiet operation
- High torque capabilities

- Keyed hollow shaft with two bore options per size, or hollow shaft with shrink disc fitting (metric and imperial dims)
- Backstop device
- Surface protection class C3, C4 and C5 (according to standard UNI EN ISO 12944-2)
- High and premium efficiency motors (IE2, IE3)
- Protection rating up to IP56
- Thermal protection (bi-metallic, PTC or KTY)
- Anti-condensation heaters and tropicalized windings









Processing Extruder, shaping machines



Mixing and extruding are the two fundamental stages of this particular sub-process. Bonfiglioli solutions for mixers are designed to ensure the optimal homogenization, to best meet the needs of our customers. Furthermore, Bonfiglioli's experience in extruders and molding machines ensures efficiency and reliability, helping yield uniform, quality products at all stages of the process.

HDPE Series Heavy duty gearbox and geared motor

Benefits

- Reliable and specific design solution for single-screw extrusion machines
- · Easy machine integration thanks to universal mounting gearbox case
- · Customized extruder screw interface dimensions

Features

- Specific heavy duty thrust bearing sourced exclusively from primary brands
- Robust nodular cast iron gear case suitable for high load capability
- Wide range of cooling system options (external & internal)
- · Lubrication shared between gearbox casing and screw box
- High and premium efficiency motors (IE2, IE3)
- Protection rating up to IP56
- Thermal protection (bi-metallic, PTC or KTY)
- · Anti-condensation heaters and tropicalized windings

Active Cube Series Premium inverter

Benefits

- Soft start
- Positioning mode

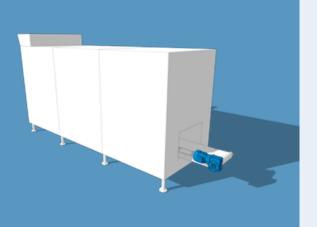
- Series optionally extendable for field bus communication and encoder evaluation
- $\cdot\,$ Plug-in power terminals (up to 3kW)
- Plug-in and programmable control terminals
- DC link connection
- Integrated brake chopper
- $\cdot\,$ Positioning function via field bus (Motion
- Control compatible to CiA DS402)
- Integrated VPLC
- Master/slave function with electronic gear
- Power failure control
- Integrated safe torque off STO (SIL 3 / PL e) function
- Output frequency 0...599 Hz, higher frequencies on request
- Diagnosis and setup via optional keypad
 or PC software







FOOD BAKING



Drying & cooking line Oven, dryer, fryer



Bonfiglioli solutions support customers in taking their products from start to finish. Cooking and drying phases require highquality, heat-resistant solutions specifically designed for the food & beverage industry.

Our broad portfolio enables us to supply specific products for drying and cooking lines. Advanced protection gearmotors will satisfy customers' main requirements.

W/EP Series Worm gearbox and geared motor with enhanced protection

Benefits

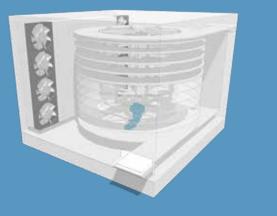
- Cost-effective
- Uncompromising quality
- · Specially designed for food & beverage industries

- · Epoxy coating (NSF & FDA approved for incidental food contact)
- · AISI 316 stainless steel output shaft and stainless steel fasteners
- H1 food grade lubricant
- High and premium efficiency motors (IE2, IE3)
- Protection rating up to IP56
- Thermal protection (bi-metallic, PTC or KTY)
- · Anti-condensation heaters and tropicalized windings
- · Insulation class F (standard) or H (available on request)
- Surface protection class C5 (according to standard UNI EN ISO 12944-2)









Chilling, freezing line Spiral freezer

Compact and efficient, our solutions allow food manufacturers to freeze their products quickly, with no interruption to the manufacturing process. Bonfiglioli products allow spiral freezers to operate continuously and maximize processing uptime through high manufacturing standards. Most importantly, our gearmotors can safely operate in the extremely low temperaturesnecessary in the freezing process, and can durably withstand the demanding cleaning procedures.

300M Series Planetary gearbox and geared motor

Benefits

- High shock load resistance
- Compact design
- One-stop-shop for complete drive solutions
- · Reliable and customized solution for extreme low temperature working condition
- Wash down capability

Features

- · 5-stage planetary bevel geared motors
- Special lubricant and oil seals for low temperature
- · Water defender system for oil seals and bearings
- · Shot blasting and hot zinc spraying surface treatment
- High and premium efficiency motors (IE2, IE3)
- Protection rating up to IP56
- Thermal protection (bi-metallic, PTC or KTY)
- Anti-condensation heaters
- Total quality inspection certificate



Active Cube and/or Agile Series Smart inverter

Benefits

- Better control of air cooling system
- Energy efficiency

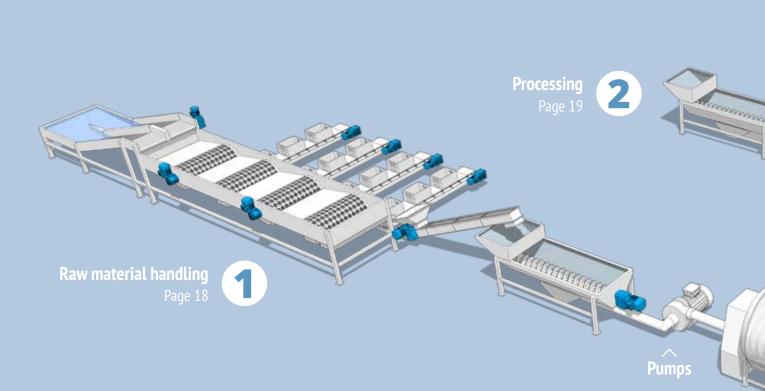
Features

- Wide power range from 0.25 to 400 kW
- Coated PCBs
- Integrated PLC function with graphic
- development environment
- Torque limitation



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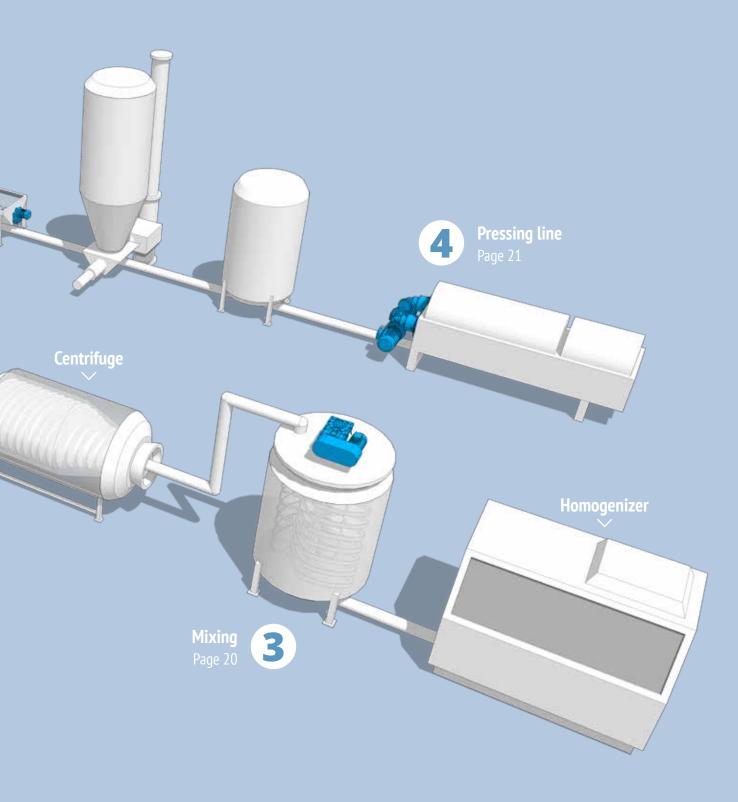
FRUIT & BEVERAGE PROCESSING



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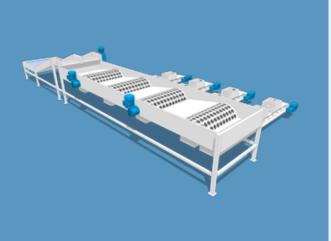


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FRUIT & BEVERAGE PROCESSING



Raw material handling Feeding, washing and sorting systems, conveyors

Feeding, washing and sorting processes require reliable, robust products designed for conveyor systems. Regardless of the type of machine used for this first handling phase, Bonfiglioli can provide solutions that perfectly meet our customers' need for dynamics, space and efficiency.

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Our customers can also rely on a product line specifically conceived for applications involving frequent washing procedures and humid environments.

VF/EP Series Worm gearbox and geared motors with enhanced protection

Benefits

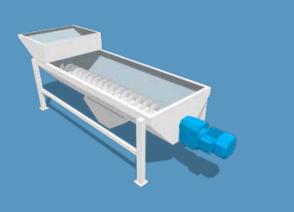
- Price effective
- Uncompromising quality
- · Various mounting options, shaft configurations and motor

- Epoxy coating (NSF & FDA approved for incidental food contact)
- · AISI 316 stainless steel output shaft and stainless steel fasteners
- H1 food grade lubricant
- High and premium efficiency motors (IE2, IE3)
- · Rain canopy to protect motor from water
- Tropicalized windings
- · Front and rear end-shield condensation drain
- Surface protection class C5 (according to standard UNI EN ISO 12944-2)









Processing Crushers



The crushing phase is crucial to any fruit and beverage process. We supply gearmotors specifically designed to allow crushing systems smooth, efficient and continuous operation.

C Series Helical in-line gearbox and geared motor

Benefits

- Excellent torque density
- Ultra-compact design
- · Very wide speed range

Features

- Extensive choice of bolt-on output flanges
- · Special seals set for applications in harsh environments
- Surface protection class C3, C4 and C5 (according to standard UNI EN ISO 12944-2)
- High and premium efficiency motors (IE2, IE3)
- Motor shaft extension
- Tropicalized windings

A. De

Agile Series Smart inverter

Benefits

- Smooth start
- Variable "cut position" for smaller particles
 Energy saving function: current
- consumption redirection during start phase

- Series optionally extendable for field bus communication
- Sensorless control of synchronous and asynchronous motors
- Modbus and Systembus onboard
- DC link connection
- Integrated brake chopper
- Power failure control
- Programmable PI Controller
- Integrated VPLC
- Master/slave function with electronic gear
- Integrated safe torque off STO (SIL 2 / PL d) function
- Energy Saving function
- Intelligent current limits
- Output frequency 0...599 Hz, higher frequencies on request
- Diagnosis and setup via integrated keypad and integrated Service interface for PC connection



FRUIT & BEVERAGE PROCESSING



Mixing Mixer, kneader



Bonfiglioli solutions are suitable for both liquid and solid mixing. Mixing applications involve a tough work cycle. To ensure process continuity, the drive's reliability must be extremely high.

To achieve this, solutions from Bonfiglioli feature special seals, surface protection and bearings. The seals prevent contamination and protect the gearmotors from aggressive agents, while the surface protection and bearings extend the gearmotor's life.

HD Series Heavy duty gearbox

Benefits

- Solution co-engineered with customer
- Enhanced oil leak protection
- · High radial & axial load on output shaft
- · Extended reliability and lifetime
- Quiet operation
- High torque capability

Features

- · Reinforced bearing and extended span on output shaft
- Integrated forced oil lubrication
- Back stop device option
- Drywell option
- High and premium efficiency motors (IE2, IE3)
- Insulation class F (standard) or H (available on request)
- Thermal protection (bi-metallic, PTC or KTY)

Active Cube Series Premium inverter

Benefits

- Smooth start
- Torque control
- Motor temperature monitoring

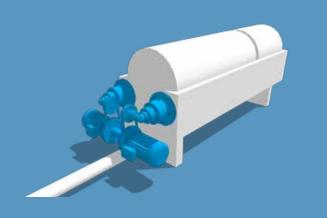
- Series optionally extendable for field bus communication and encoder evaluation
- Plug-in power terminals (up to 3kW)
- Plug-in and programmable control terminals
- DC link connection
- Integrated brake chopper
- Positioning function via field bus (Motion Control compatible to CiA DS402)
- Integrated VPLC
- · Master/slave function with electronic gear
- Power failure control
- Integrated safe torque off STO (SIL 3 / PL e) function
- Output frequency 0...599 Hz, higher frequencies on request
- Diagnosis and setup via optional keypad
 or PC software











Pressing line Extraction, squeezing



During pressing, material must be slowly compressed to remove excess water. One key aspect of this application is therefore the pressing speed. Bonfiglioli products' modularity allows customers to find the right extraction speed for all their applications.

300M Series Planetary gearbox and geared motor

Benefits

- High shock load capability
- Modular design
- Flexible drive layout and mounting

- $\cdot\,$ In-line or right angle layout solution
- Shock load up to 2,000,000 Nm
- Surface protection class C3, C4 and C5 (according to standard UNI EN ISO 12944-2)
- High and premium efficiency motors (IE2, IE3)
- Protection rating up to IP56
- Thermal protection (bi-metallic, PTC or KTY)
- Tropicalized windings





COMPLETE SOLUTIONS FOR POWER TRANSMISSION & AUTOMATION





Gearboxes & Geared motors

- Heavy duty parallel/right angle shaft geared motors HDP/HDO Series
 Torque range: 13 to 7,100 Nm Gear ratios: 7 to 10,000
- Planetary geared motors | 300 Series Torque range: 1,250 to 1,287,000 Nm Gear ratios: 3.4 to 5,234
- Worm geared motors | W/VF Series
 Torque range: 13 to 7,100 Nm
 Gear ratios: 7 to 10,000
- Helical geared motors | C Series
 Torque range: 45 to 12,000 Nm
 Gear ratios: 2.6 to 1,481
- = Bevel-helical geared motors | A Series Torque range: 100 to 14,000 Nm Gear ratios: 5.4 to 1,715
- = Shaft-mounted geared motors | F Series Torque range: 140 to 14,000 Nm Gear ratios: 6.4 to 2,099

- Motors
- Asynchronous IEC Motor | BN, BE, BX Series
 Asynchronous Compact Motors | MN, ME, MX Series
 A complete range of AC motors, meeting worldwide MEPS (e.g. IE3)
 Power range: 0.06 to 355 kW
 Poles: from 2 to 8 and multiple poles

IE3

IE3

IE4

- Asynchronous motors | BN, BE, BX, M, ME, MX Series
 A complete range of AC motors, meeting worldwide MEPS (e.g. IE3)
 Power range: 0.06 to 355 kW
 Poles: from 2 to 8 and multiple poles
- Synchronous motors | BMD Series
 Stall torque: 0.85 to 60 Nm
 Rated speed: from 1,600 to 6,000 min⁻¹
 Power supply: 230,400 VAC
- Synchronous reluctance motor | BSR Series
 Two different versions for different needs: High efficiency IE4 and high output
 Power range: 0.37 to 18.5 kW

 Precision planetary servo geared motors TQ, TQK, TQF, TR, MP, LC, LCK, SL, KR Series Torque range: up to 1,000 Nm Gear ratios: up to 1,000 Backlash: lower than 2 and 17 arcmin = Synchronous motors | BMD, BCR Series

 Stall torque BMD: 0.85 to 60 Nm

 Stall torque BCR: 0.2 to 115 Nm

 Rated speed BMD: from 1,600 to 6,000 min⁻¹

 Rated speed BCR: from 2,000 to 4,500 min⁻¹

 Power supply: 230,400 VAC

= Synchronous motors with integrated drives | iBMD Series

Stall Torque: 2.7 to 36 Nm Rated speed: 3,000 min⁻¹ Power supply: 560 VDC

COD





Inverters

- Cabinet solution | Active Cube 8 IP 54
 Power range: 200 up to 1,200 kW
 Voltage: 400 V, 525V, 690V
- Premium inverter | Active Cube Series ACU210: 0,25 - 9,2 kW / 1- or 3-phase | ACU410*: 0,25 - 400 kW / 3-phase ACU510*: 160 - 400 kW / 3-phase | ACU610*: 160 - 400 kW / 3-phase
- Premium inverter | Active Cube Series
 ACU210: 0,25 9,2 kW / 1- or 3-phase | ACU410*: 0,25 400 kW / 3-phase
 ACU510*: 160 400 kW / 3-phase | ACU610*: 160 400 kW / 3-phase
- Smart inverter | Agile Series
 200V: 1-phase 0.12 up to 3 kW / 3-phase 0.25 up to 7.5 kW
 400V: 0.25 up to 11 kW
- Compact inverter | S2U Series S2U230S-..(F) IP66: 0.2 - 2.2 kW / 1-phase

HMI

- Human Machine Interfaces | BMI Series
 3 Display sizes 3.5", 7", 10.1" True flat front panel in IP65 High resolution 480x272 up to 1,024x600 pixels
- Human Machine Interfaces | BMI Series
 3 Display sizes 3.5", 7", 10.1" True flat front panel in IP65

High resolution 480x272 up to 1,024x600 pixels

- Servo inverter | ANG Series ANG210: 0.25 - 9.2 kW / 1- or 3-phase | ANG410*: 0.25 - 400 kW / 3-phase ANG510*: 160 - 400 kW / 3-phase | ANG610*: 160 - 400 kW / 3-phase
- Premium inverter | Active Cube Series
 ACU210: 0,25 9,2 kW / 1- or 3-phase | ACU410*: 0,25 400 kW / 3-phase
 ACU510*: 160 400 kW / 3-phase | ACU610*: 160 400 kW / 3-phase
- Smart inverter | Agile Series
 202V: 0.12 3 kW / 1-phase | 0.25 7.5 kW / 3-phase
 402V: 0.25 11 kW / 3-phase

Human Machine Interfaces | BMI Series
 3 Display sizes 3.5", 7", 10.1"
 True flat front panel in IP65
 High resolution 480x272 up to 1,024x600 pixels

* up to 1200 kW with parallel connection



OUR PROJECTION INTO THE FUTURE

MORE THAN 250 EMPLOYEES AROUND THE WORLD ARE INVOLVED IN THE GROUP'S R&D ACTIVITIES.

DESIGN SIMULATION

Bonfiglioli has the most advanced **virtual simulation techniques** that allow to speed up the validation process, thus reducing time to market and providing customers with optimized and efficient solutions.

TEST LABORATORIES

In our R&D department we **research**, **develop**, **validate and certify** all the products and solutions which are engineered and manufactured in our plants across the world.



CO-ENGINEERING

At Bonfiglioli we **work close to our customers to satisfy all their needs** and requirements with a true tailormade solution.





OUR CONSTANT AMBITION

QUALITY, HEALTH, SAFETY, ENVIRONMENT & ENERGY

QUALITY: WE CARE ABOUT OUR CUSTOMERS

Our team is wholly dedicated to continuous improvement in the quality, safety, environmental and energy spheres throughout the entire value chain, from the smallest supplier to the end client. Bonfiglioli is committed to achieving the highest quality standards, and our products are intended to generate value for our customers while respecting both people and the environment. We design, manufacture and supply effective products and services that set a benchmark for quality in the industry.

Bonfiglioli management systems are certified ISO 9001: 2015, ISO 14001: 2015, ISO 45001: 2018 and ISO 50001:2018, while our products are covered by 7 international certifications. Responsibility, excellence and continuous improvement are the basic elements that make us the favored partner of our clients and suppliers.

HEALTH & SAFETY: SUSTAINABILITY STARTS WITH SAFETY

Prevention of accidents and incidents is a key element of our company's sustainability strategy and an integral part of each one of our business processes. The successful management of risks is essential for protecting our employees and assets, thereby strengthening their contributions.

ENVIRONMENT & ENERGY: RESPECT THE PRESENT TO BUILD THE FUTURE

At Bonfiglioli, we believe that respect for the present and the adoption of environmental protection and energy efficiency policies are essential if we are to enjoy a better future.

OUR GLOBAL PRESENCE

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









AUSTRALIA

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INDIA

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CSS Bonfiglioli

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.

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