# WHY BONFIGLIOLI MECHATRONIC?

## COMPANY HIGHLIGHTS
- Over 60 years of experience in the power transmission and control industry
- $1 billion company with worldwide production, distribution, sales and service
- Family owned and operated since 1956
- One of the widest product ranges in the marketplace to provide solutions for most applications
- Over 1 million gearboxes and gearmotors manufactured per year
- 1 in 3 wind turbines worldwide has a Bonfiglioli gearbox
- Headquartered in Bologna Italy, Bonfiglioli has 21 branches in 15 countries and 14 production plants
- Investments of 60M€ in new production technologies and infrastructures

## PRODUCT DETAILS

### LC/LCK - PRECISION GEARHEADS
- Market drop-in design
- Lubricated for life
- High efficiency
- Low backlash & high torsional stiffness

### TQ/TQK - PRECISION GEARHEADS
- Market drop-in design
- Lubricated for life
- High efficiency
- Low backlash & high torsional stiffness

### TQF - PRECISION GEARHEADS
- Market drop-in design
- Lubricated for life
- High efficiency
- Low backlash & high torsional stiffness

### SL - PRECISION GEARHEADS
- Market drop-in design
- Lubricated for life
- High efficiency
- Low backlash & high torsional stiffness

### MP - PRECISION GEARHEADS
- Lubricated for life
- High efficiency
- Low backlash & high torsional stiffness
- Unique 3-stage up to 100:1 ratio

### TR - PRECISION GEARHEADS
- Lubricated for life
- High efficiency
- Low backlash & high torsional stiffness
- Unique 3-stage up to 100:1 ratio

### BMD - PMAC SERVO MOTORS
- Torque rating up to 530 in-lbs.
- Low inertia
- Compact design with high torque
- Concentrated winding

### S2U - NEMA 4X VFD
- IP66 enclosure wash down duty
- 230V 1PH, 480V 3PH
- Internal PLC in Ladder
- Built-in locktag switch
- PID controller-pressure, volume flow or speed control

### ANG - MOTION SERVO DRIVES
- 2K Hz control frequency
- Compatible with all Ethernet protocols
- Internal programmable PLC and oscilloscope

### ACU - POSITIONING SERVO DRIVES
- Auto sequencing motion table
- Compatible with all Ethernet protocols
- Internal programmable PLC and oscilloscope

### AGL - SENSORLESS VECTOR VFD
- Automatic flux reduction energy saving
- Compatible with all Ethernet protocols
- Internal programmable PLC and oscilloscope
- SD card slot for parameter management
- PID controller-pressure, volume flow or speed control

### BMI - HUMAN MACHINE INTERFACE
- SD card slot for parameter management
- Offered in three sizes (5, 7 or 10 inches)
- Ethernet & CANOpen
Bonfiglioli Synchronous Reluctance Motor (BSR) + Active Cube VFD (ACU)

**PRODUCT SPECIFICATIONS**

### Technical Features
- IE4 & IE2 in 6 Sizes (71, 80, 90, 100, 112, 132)
- 4-Pole Design
- Power at 1500min-1: 0.37 ... 11 kW
- Power at 3000min-1: 1.1 ... 18.5 kW
- Rating: IE4 High Efficiency or IE2 High Output
- Overall Dimensions as Induction Motor Series
- Brake Motors Available as a Second Step

### BENEFITS
- No Magnets
- Lower Rotor Losses
- Lower Heat Dissipation
- No Induced Current
- Longer Bearings Lifetime
- Higher Power Density (20%-100%)