



**B** SERIES



# Helical bevel Gear Reducers

# FEATURES



The technological content of B-Series gear reducers allows for an **extraordinary performance/lifespan ratio**. These highly versatile gear units are successfully used in a vast number of industrial and civil applications. B-Series units offer **excellent value for money** and **output torque/weight ratio**, especially considering that they need very limited servicing. The units are available in cast iron (sizes 063 to 163) or aluminium (sizes A42 to A73) casing.



**B-PB**  
Fitted for motor coupling  
- Coupling with flexible coupling



**CB**  
With compact motor



**IB**  
With input shaft

## CAST IRON

### SIZES:

**060-080-100-125-140-150-160**

- Casing with feet FC, flange SC and universal UC
- Gearing 3 reduction stages
- Gleason spiral bevel gear pairs with run-in profile, mounted as second reduction stage for a higher resistance
- High-strength casings optimized with FEM analysis and input and output flanges of grey cast-iron G200 to ensure
- Excellent mechanical strength
- Gears hardened and tempered with shaved or ground profile
- Load capacity calculated and verified according to ISO 6336 and AGMA 2001
- Painted with RAL 5010 blue epoxy-polyester powder
- ATEX versions available 2GD/3GD



**BA**  
Fitted for motor coupling



**CBA**  
With compact motor



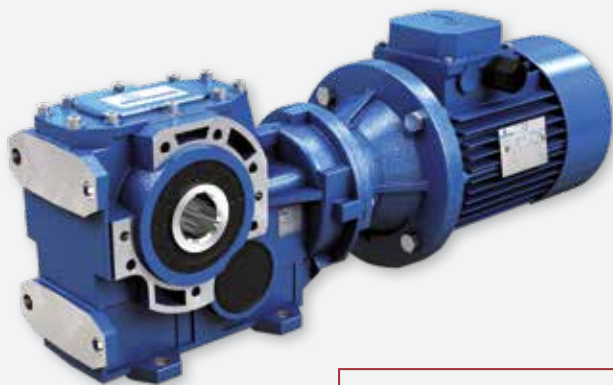
**IBA**  
With input shaft

## ALUMINIUM

### SIZES:

**A40-A50-A70**

- Universal casing
- Gearing with 2 and 3 reduction stages
- Hypoid bevel gears for size A40 and A50, gleason bevel gear pairs for size A70, all with run-in profile
- Casing in die-cast aluminium alloy
- Excellent mechanical strength while being and particularly lightweight
- Gears hardened and tempered with shaved or ground profile
- Load capacity calculated and verified according to ISO 6336 and AGMA 2001
- Painted with RAL 5010 blue epoxy-polyester powder
- ATEX version available 3GD



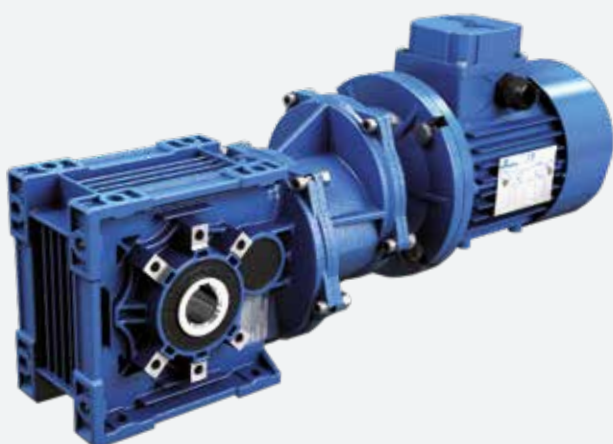
	Ø [mm]	Output Torque M <sub>2</sub> [Nm]	Ratio	
		Max	Min	Max
<b>B063</b>	35 - 40	600	5,71	157,42
<b>B083</b>	40 - 45	850	7,81	144,7
<b>B103</b>	50	1.800	8,13	165,25
<b>B123</b>	60	3.500	7,97	180,40
<b>B143</b>	70	5.000	10,84	187,24
<b>B153</b>	80 - 90	8.000	10,49	165,42
<b>B163</b>	100	13.000	8,89	154,83

- Power from 0,18 up to 90 kW with three phase 4 pole motors
- Reduction ratios between 5,71 and 187,24
- Nominal torque 13.000 Nm
- Admissible radial loads max 80.000 N

## NEW

- Reinforced input flanges for big cast iron motors
- Increased torsional rigidity thanks to the new cast iron inspection cover
- Metal plate for aggressive environments
- Oil-free gearbox to allow the most suitable choice of lubricant for every application requirement

n <sub>2</sub> (rpm)	Viscosity index	
	Mineral oil	Synthetic oil
	0 ÷ +40 [°C]	-10 ÷ +50 [°C]
> 210	150	150
210 ÷ 20	150	220
20 ÷ 5	220	320
< 5	320	460



	Ø [mm]	Output Torque M <sub>2</sub> [Nm]	Ratio	
		Max	Min	Max
<b>BA40</b>	20	120	7,62	78,17
<b>BA50</b>	25-28	220	7,91	342,65
<b>BA70</b>	30-35	450	8,36	442,76

- Power from 0,12 kW up to 4,8 kW with three phase 4 pole motors
- Reduction ratios between 7,62 and 442,76
- Nominal torque 450 Nm
- Admissible radial loads max 10.000 N

# ACCESSORIES



## TORQUE ARM



Available for the sizes:  
063 - 083 - 103 - 123 - A40 - A50 - A70



Available for the sizes:  
143 - 153 - 163

## SHRINK DISK



## SOLID OUTPUT SHAFT



Single Output Shaft



Double Output Shaft

## OTHER ACCESSORIES

- Backstop Device
- Protection Cover kit
- Reinforced seals on output shaft and viton seals

## OUTPUT FLANGE



FA



FB - FC - FD

	FA	FB	FC	FD
<b>B063</b>	•	•	•	-
<b>B083</b>	•	•	•	-
<b>B103</b>	•	•	•	-
<b>B0123</b>	•	•	•	-
<b>B0143</b>	-	•	-	-
<b>B0153</b>	-	•	•	-
<b>B0163</b>	-	•	-	-
<b>BA40</b>	•	•	•	•
<b>BA50</b>	•	•	•	•
<b>BA70</b>	•	•	-	-

- Available
- Not available

# VERSIONS



**B... SC**  
Flange Mounting



**B... UC**  
Foot/Flange Mounting



**B... FC**  
Foot Mounting

DIFFERENT VERSIONS ARE AVAILABLE WITH HOLLOW OUTPUT SHAFTS AND SINGLE/DOUBLE SOLID OUTPUT SHAFTS.



**BA.. 2 STAGES**  
Foot/Flange Mounting

DIFFERENT VERSIONS ARE AVAILABLE WITH HOLLOW OUTPUT SHAFTS. SINGLE/DOUBLE SOLID OUTPUT SHAFTS ARE ONLY AVAILABLE FOR THE BA70.



**BA.. 3 STAGES**  
Foot/Flange Mounting

# SALES NETWORK



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