

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

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



IB

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



BA

Fitted for motor coupling



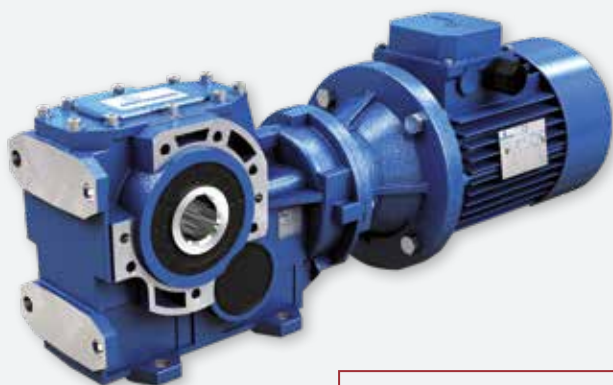
CBA

With compact motor



IBA

With input shaft



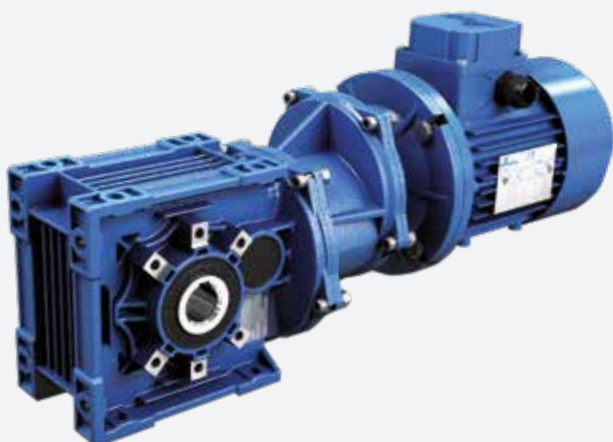
	Ø [mm]	Output Torque M ₂ [Nm]	Ratio	
		Max	Min	Max
B063	35 - 40	600	5,71	157,42
B083	40 - 45	850	7,81	144,7
B103	50	1.800	8,13	165,25
B123	60	3.500	7,97	180,40
B143	70	5.000	10,84	187,24
B153	80 - 90	8.000	10,49	165,42
B163	100	13.000	8,89	154,83

- 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 ₂ (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 ₂ [Nm]	Ratio	
		Max	Min	Max
BA40	20	120	7,62	78,17
BA50	25-28	220	7,91	342,65
BA70	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
B063	•	•	•	-
B083	•	•	•	-
B103	•	•	•	-
B0123	•	•	•	-
B0143	-	•	-	-
B0153	-	•	•	-
B0163	-	•	-	-
BA40	•	•	•	•
BA50	•	•	•	•
BA70	•	•	-	-

• 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



SUBSIDIARIES



DEALERS



EUROPE



NORTH AMERICA



ASIA



OCEANIA



SOUTH AMERICA



AFRICA

