



Helical **bevel** Gear **Reducers**

TECO   **Westinghouse**

www.tecowestinghouse.com

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 aluminum (sizes A42 to A73) casing.



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



CB
With compact motor



IB
With input shaft



BA
Fitted for motor coupling



CBA
With compact motor



IBA
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 top level performances and high reliability
- 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 according to DIN 1843
- ATEX versions available 2GD/3GD

ALUMINUM

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 aluminum 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 according to DIN 1843
- ATEX version available 3GD

RANGE



	Ø [in]	Output Torque in-lbs	Ratio	
		Max	Min	Max
B063	1.375, 1.5	5576	5,71	157,42
B083	1.5	7899	7,81	144,77
B103	2	16,778	8,13	165,25
B123	2.375	32,526	7,97	180,40
B143	2.75	46,466	10,84	187,24
B153	3.25	74,346	10,49	165,42
B163	4	120,813	8,89	154,83

- Power from 0.16 HP up to 75 HP with three phase 4 pole motors
- Reduction ratios between 5.71 and 187.24
- Torque max 120.813 in-lbs
- Admissible overhung load 17,985 lbf



	Ø [in]	Output Torque in-lbs	Ratio	
		Max	Min	Max
BA40	.75	1042	7,62	78,17
BA50	1	2045	7,91	342,65
BA70	1.375	4182	8,36	442,76

- Power from 0.16 HP up to 5 HP with three phase 4 pole motors
- Reduction ratios between 7.62 and 442.76
- Torque max 4182 in-lbs
- Admissible overhung load max 2248 lbf

ACCESSORIES



TorqueArm



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



Available for the sizes:
143 - 153 - 163

ShrinkDisk



SolidOutputShaft



Single Output Shaft



Double Output Shaft

OtherAccessories

BackstopDevice
ProtectionCoverkit
ReinforcedOutput

OutputFlange



FA



FB - FC - FD

	FA	FB	FC	FD
B063	•	•	•	/
B083	•	•	•	/
B103	•	•	•	/
B123	•	•	•	/
B143	/	•	/	/
B153	/	•	•	/
B163	/	•	/	/
BA40	•	•	•	•
BA50	•	•	•	•
BA70	•	•	/	/

• Available
/ Not available

VERSIONS



B... SC
Flange Mounting



B... FC
Foot Mounting



B... UC
Foot/Flange Mounting

Different versions are available with hollow output shafts and single/double solid output shafts.



BA.. 2 Stages
Foot/Flange Mounting



BA.. 3 Stages
Foot/Flange Mounting

Different versions are available with hollow output shafts.
Single/double solid output shafts are only available for the BA70.

GLOBAL PRESENCE



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