



### ParallelHelical and BevelHelical GearReducers



### **FEATURES**



The PBH series of gearboxes for heavy industries are a range of parallel and bevel helical gearboxes with up to 4 reduction stages, built as standard and designed specifically to ensure maximum reliability in the most arduous conditions.

PBH series reducers present the classic features of parallel and bevel helical gear reducers such as robustness, efficiency, compactness and reliability, combined with universality, ease of application and low maintenance which are a result of a modern design concept, typical of quality reducers.



PH
Bell coupling input
without motor

- Universal mounting: suitable for horizontal or vertical mounting
- Cast iron casing, rigid and with great lubricant capacity to enhance the thermal capacity
- Casing split into two parts, with reduced and direct maintenance
- Standard solid low speed shaft, with standard and double extension
- Option of double extended, high speed shaft
- Capable of use with large size motors
- High endurance of loads on both low and high speed shaft end
- High performances, reliable and tested
- Ground helical cylindrical gear pairs
- Gleason spiral bevel gear pairs accurately run-in
- Reinforced output shaft bearing with extended bearing housing execution available
- True drywell execution available for certain parallel helical & bevel helical case sizes



BH Bell coupling input without motor

P	PARALLEL HELICAL		
P1H	P2H	РЗН	P4H
0.98	0.96	0.94	0.92

BEVEL HELICAL		
В2Н	взн	В4Н
0.95	0.94	0.92

# RANGE





	Output Torque [ft-lbs]	Ratio	
	Max	Min	Max
PH 180	8,688	1.26	762.00
PH 200	11,771	1.22	659.00
PH 225	17,447	1.28	676.00
PH 250	21,721	1.23	710.00
PH 280	28,027	1.27	708.00
PH 320	35,034	1.25	710.00
PH 355	54,934	1.26	708.00



	Output Torque [ft-lbs]	Ratio	
	Max	Min	Max
BH 180	8,548	5.81	727.00
BH 200	11,842	5.81	660.00
BH 225	16,115	5.20	669.20
BH 250	20,320	5.31	710.00
BH 280	28,027	5.81	676.00
BH 320	34,334	5.60	710.00
BH 355	53,672	5.60	685.00

Case Sizes	180 - 200 - 225 - 250 - 280 - 320 - 355
Output Shaft/ Bore	From Ø100 to Ø180 mm *
Transmission Ratio Range	1.26 - 727

<sup>\*</sup> Inch dimension output option available by request

## **ACCESSORIES**



Output Options
Hollow low speed shaft with keyway
Hollow low speed shaft with shrink disk
Splined hollow, low speed shaft
Cylindrical solid, low speed shaft
Splined solid, low speed shaft
Cylindrical, double extended, solid, low speed shaft
Enlined double extended solid low speed shaft

Cooling and Heating Options	
Cooling fan	
Cooling water with coil and with or without thermostatic valve	
Independent cooling unit: oil/water or oil/air	
Oil heater	

Lubrication System Options	
Bearing lubrication pump	
Bearing lubrication motor & pump	
Oil temperature probe PT100	
Bearing temperature probe PT100	
Bimetallic thermostat probe	
Pressure switch	
Oil level switch with float	
Oil level column	
Infrared oil level probe	

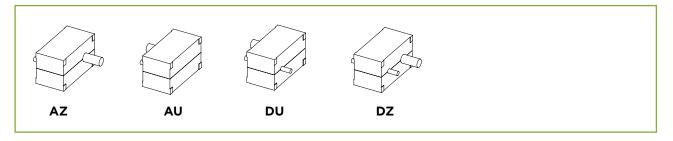
Accessories	
Backstop device	
Protective cover for hollow, low speed shaft	
Protective cover for hollow, low speed shaft with shrink disc	
Hollow, low speed shaft washer	
Output flange	
Reaction bolt with spring disc	
Reaction arm	
Special anticorrosion painting	
Labyrinth seals with greaser on high and low speed shaft	
Fluoro rubber seals	
Vent plug with filter	
Magnetic plug	
NEMA adaptor input flange	



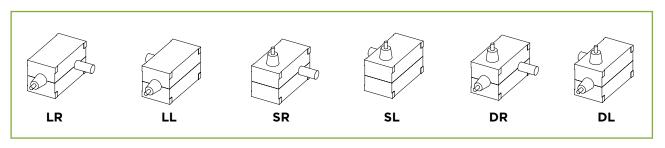
### **EXECUTIONS**



#### **Parallel Helical**

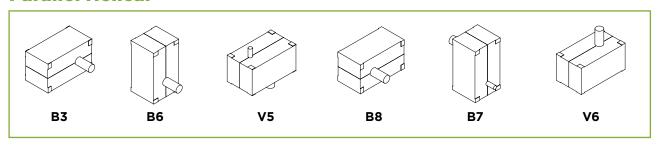


#### **Bevel Helical**

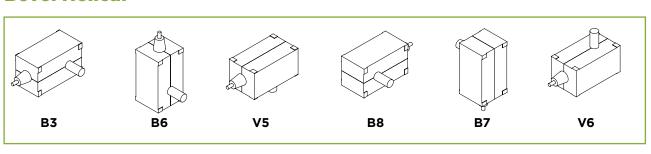


### **MOUNTING POSITIONS**

#### **Parallel Helical**



#### **Bevel Helical**



### **GLOBAL**PRESENCE



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