

PBZ



PBH



PBC

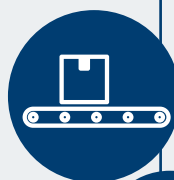


# Mid-Heavy Duty gearboxes

# SOLUTIONS FOR THE MID-HEAVY DUTY INDUSTRY



## MAIN FIELDS OF APPLICATION



conveyor belts

cooling  
towers

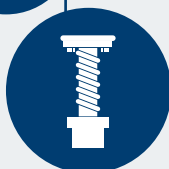


crushers



mills

reciprocating  
pumps



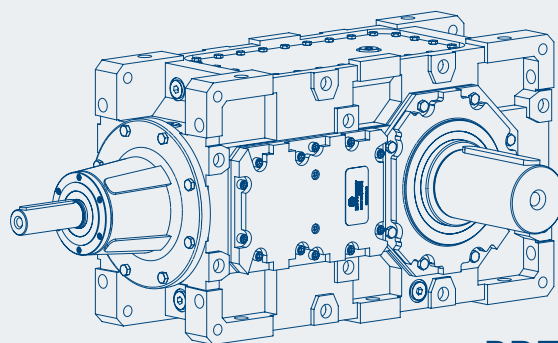
multipliers

palm oil  
presses

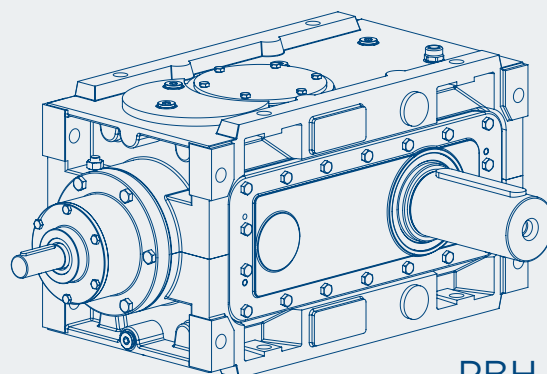


screw  
conveyors

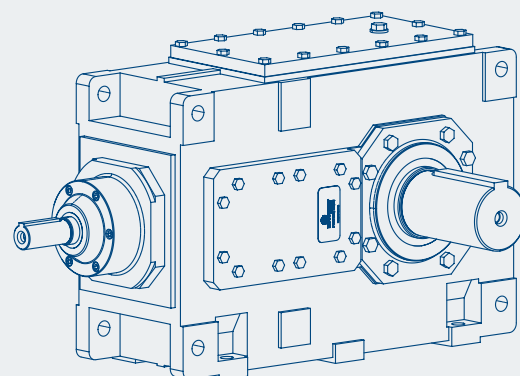
water spilgates



PBZ



PBH

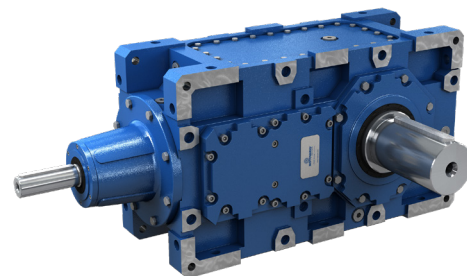


PBC

## CONTINUOUS DUTY WITH REDUCED MAINTENANCE COSTS

The Motovario PBZ series consists of parallel helical and bevel-helical gear reducers up to 4 reduction stages, characterised by high power density, compact size, modularity, reliability and a favourable performance/sturdiness ratio.

These industrial gear reducers have been conceived and designed for continuous, critical and particularly arduous applications requiring a high number of accessories, as well as dedicated options for specific fields: PBZ units perfectly meet all these needs, fully satisfying the heavy-duty industry world.



## RANGE

	diameter output shaft (mm)	Mn2 (Nm)	ratio i	
			min	max
<b>PZ 179</b>	100	9	6.37	86.2
<b>PZ 199</b>	110	11	7.91	107
<b>PZ 219</b>	120	19	6.28	318
<b>PZ 249</b>	130	24	7.96	403
<b>PZ 269</b>	140	29	6.44	339
<b>PZ 279</b>	160	36	7.96	419
<b>PZ 319</b>	170	55	6.33	314
<b>PZ 349</b>	180	70	8.14	404
<b>PZ 399</b>	200	90	6.62	319
<b>PZ 409</b>	220	110	8.01	386

	diameter output shaft (mm)	Mn2 (Nm)	ratio i	
			min	max
<b>BZ 179</b>	100	9	13.3	69.7
<b>BZ 199</b>	110	11	16.5	86.6
<b>BZ 219</b>	120	19	12	323
<b>BZ 249</b>	130	24	15.3	410
<b>BZ 269</b>	140	29	12.4	348
<b>BZ 279</b>	160	36	15.3	431
<b>BZ 319</b>	170	55	12.1	320
<b>BZ 349</b>	180	70	15.6	412
<b>BZ 399</b>	200	90	12.7	327
<b>BZ 409</b>	220	110	15.3	396

## FEATURES

- Monobloc casing (up to size 349 included) with high power density.
- Universal mounting for horizontal or vertical mounting.
- Solid output shaft (as standard).
- Motor coupling bell for large-sized IEC motors.

## ACCESSORIES

- Cooling systems: fan, internal coil, air/oil and water/oil independent unit.
- Output flange for direct mounting to the machine.
- Special output shafts, reinforced for applications with high radial load.
- Control units complete with base, electric motor, (hydraulic, spring or toothed) joint, parking brake.
- Optional kits dedicated to customer's needs for specific applications.

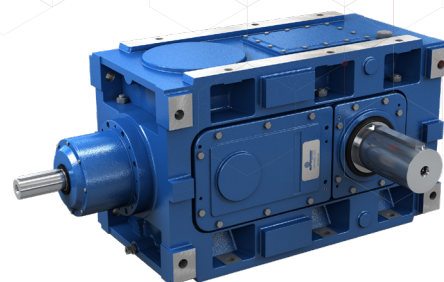
# PBH



## MAXIMUM RELIABILITY IN THE MOST ARDUOUS CONDITIONS

The Motovario PBH series consists of parallel helical and bevel-helical gear reducers up to 4 reduction stages, conceived to ensure the maximum reliability under the most arduous conditions such as in case of applications with high inertias, overloads, sudden peaks and significant external loads.

Range features enhance the possibility of a high customisation level, for customised solutions satisfying the specifications of the most demanding users, and meeting the requirements with a high technological content.



## RANGE

	diameter output shaft (mm)	Mn2 (Nm)	ratio i	
			min	max
<b>PH 180</b>	100	11.25	2.04	605
<b>PH 200</b>	110	16.42	1.95	600
<b>PH 225</b>	120	23	1.96	627
<b>PH 250</b>	130	29.38	2.04	636
<b>PH 280</b>	140	45.18	1.96	625
<b>PH 355</b>	180	90	1.95	627

	diameter output shaft (mm)	Mn2 (Nm)	ratio i	
			min	max
<b>BH 180</b>	100	11.5	5.27	593
<b>BH 200</b>	110	15.4	5.44	632
<b>BH 225</b>	120	21.22	5.41	634
<b>BH 250</b>	130	29.35	5.44	633
<b>BH 280</b>	140	45	5.41	623
<b>BH 355</b>	180	80	5.52	604

## FEATURES

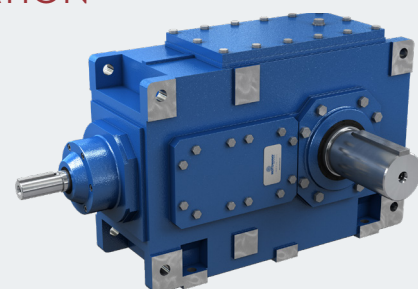
- 2-section (split) casing to favour the maintenance operations directly on the system.
- Solid output shaft (as standard).
- High overhung ratings both at input and output shaft ends.

# PBC

## THE PERFECT CHOICE FOR YOUR SEASONAL APPLICATION

The Motovario PBC series consists of parallel helical and bevel-helical gear reducers up to 4 reduction stages, designed according to a high-modularity and industrialisation logic that allowed a high sharing level of common components thus favouring the competitiveness of these models.

Mainly thanks to design specifications, the PBC series gear reducers are particularly suitable for seasonal applications or intermittent service.



## RANGE

	diameter output shaft (mm)	Mn2 (Nm)	ratio i	
			min	max
<b>PC 176</b>	100	9	1.25	90
<b>PC 196</b>	110	12	8	112
<b>PC 216</b>	120	17	1.25	355
<b>PC 246</b>	130	22	8	450
<b>PC 266</b>	140	29	1.25	355
<b>PC 276</b>	160	35	8	450
<b>PC 316</b>	170	51	1.6	355
<b>PC 346</b>	180	62	8	450
<b>PC 396</b>	200	70	1.6	355
<b>PC 406</b>	210	87	8	450

	diameter output shaft (mm)	Mn2 (Nm)	ratio i	
			min	max
<b>BC 176</b>	100	9	5	315
<b>BC 196</b>	110	12	6.3	400
<b>BC 216</b>	120	17	5	315
<b>BC 246</b>	130	22	6.3	400
<b>BC 266</b>	140	29	5	315
<b>BC 276</b>	160	35	6.3	400
<b>BC 316</b>	170	51	5	315
<b>BC 346</b>	180	62	6.3	400
<b>BC 396</b>	200	73	5	315
<b>BC 406</b>	210	90	6.3	400

# MAIN ACCESSORIES



	PBZ	PBH	PBC
Lubrication device: mechanical pump	•	•	•
Lubrication device: motor pump	•	•	•
Cooling fans	•	•	•
Cooling coil (with or without thermostatic valve)	•	•	•
Oil/air cooling system	•	•	
Oil/water cooling system	•	•	
Filter for forced lubrication	•	•	•
Oil heater	•	•	•
Oil temperature probe and PT100 bearings	•	•	•
Minimum pressure switch	•	•	•
Column oil level indicator		•	
Backstop device	•	•	•
Output shaft with shrink disc	•	•	
Splined output shaft, hollow & solid		•	
Special seals: viton seals on output and input shaft	•	•	•
Special seals: labyrinth seals on output and input shaft	•	•	•
Special seals: double viton seals on output and input shaft	•	•	•
Special seals: double NBR seals on output and input shaft	•	•	•
Special painting C4	•	•	•
Special painting C5	•	•	•
Output flange	•	•	
Output shaft protection	•	•	•
Reaction bolt with Belleville washers		•	
Double outlet input shaft for parallel helical gear reducers	•		•
Double outlet input shaft for bevel-helical gear reducers	•		
Bell & coupling for IEC motor connection	•	•	
Bell & coupling for NEMA motor connection		•	

# SALES NETWORK



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