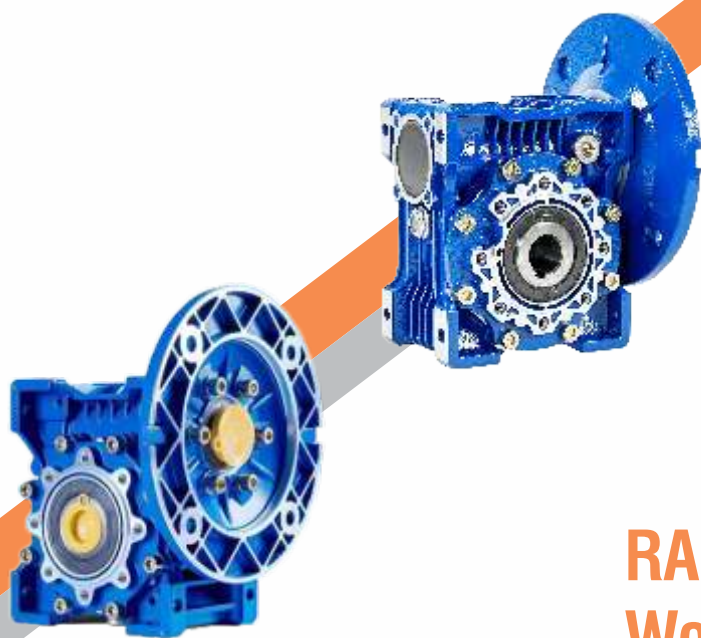




UNLEASHING POWER

UNLOCKING VALUE



RADICON POWERBUILD Worm Gear Reducers

★ ABOUT TRANSMISSION

Power Build Pvt. Ltd. (also known as PBL) has been the pioneer in the mechanical power transmission industry for the medium torque category since its inception in 1972. Geared motors, gearboxes, and other drive solutions in the Radicon Power Build range are designed to cater to the most complex needs of a wide cross-section of the industry. Radicon Power Build puts the advantages of proven technology and modern manufacturing processes at your disposal. Our global network of branches ensures that you always find technical support at your doorstep.



★ TECHNICAL SPECIFICATION FOR PBWR WORM GEARBOXES

PBL is delighted to announce the universal mounting reducer known as the "PBWR Series (Aluminium Worm Gearbox)." The PBWR series is a new generation of worm gear units produced both domestically and internationally on the basis of their reliability, performance and sophisticated engineering.

Model	Output Torque (N.m)		Ratio
	Min	Max	Min / Max
PBWR 025	2.6	15	7.5 to 100
PBWR 030	2.6	23	
PBWR 040	17	53	
PBWR 050	29	89	
PBWR 063	56	167	
PBWR 075	90	269	
PBWR 090	189	479	
PBWR 110	281	767	
PBWR 130	333	1179	
PBWR 150	512	1760	

The PBWR Series comes in sizes ranging from 030 to 150, with reduction ratios ranging from 7.5 to 100.

PBWR Series worm reducers and gearbox housings from models 030 to 090 are constructed of die-cast aluminum alloy, while sizes 110 to 150 are made of grey cast iron.

Worm shafts are profile ground and composed of high-quality steel with a hardness rating of 58-62 HRC. The worm wheel is composed of bronze alloy, which has improved wear resistance and heat dissipation and stable chemical properties.

Also, gearboxes up to size 90 are pre-filled with synthetic oil grade ISO VG 320, which is virtually maintenance-free and doesn't require oil changes during their lifetime. Above size 110 to 150, mineral oil ISO VG 320 is commonly used, with synthetic oil available on request.

- ★ Sizes 025-90 : Die-cast Aluminum Alloy
- ★ Sizes 110-150 : Grey Cast Iron
- ★ Power upto 15kw
- ★ Range of ratios : 7.5 to 100
- ★ Max torque upto 1760NM



★ ACCESSORIES FOR PBWR WORM GEARBOXES

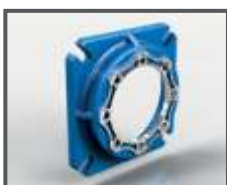
Enhance the capabilities of our PBWR Series Worm Reducer with our range of accessories:

Output Flanges: Choose from a variety of output flanges to seamlessly connect our reducer to your driven equipment.

Torque Arms: Improve stability and support by adding torque arms for heavier loads or applications with high torque requirements.

Torque Arms: Choose single or double output solid shafts to connect our reducer to your driven equipment.

Other Accessories: Drain Plug, Oil Filling Plug, Breather Plug, Oil Sight Glass shall be provided with gear box.



STANDARD OUTPUT
FLANGE



EXTENDED OUTPUT
FLANGE



SINGLE SOLID
OUTPUT SHAFT



DOUBLE SOLID
OUTPUT SHAFT



TORQUE ARM

★ COMBINATION OF PBWR GEAR REDUCER WITH PRE-STAGE HELICAL KIT

- ★ The pre-stage (single-stage helical pair) units called PC Kit are available with desired transmission ratios of PC063, I=3, PC071, I=3, PC080, I=3, PC090, and I=2.42.
- ★ The combination of the PC kit with the PBWR worm gearbox is comparatively simple and similar to the connection form of the B14 mount.
- ★ The material of the casing is die-cast aluminum alloy; steel gears are available with hardened and tempered; and the output shaft of reducers adopts the heat treatment for medium carbon steel.
- ★ PC Kit adopts extreme pressure lubricating grease for lubrication with a temperature range of -20°C to +50°C.
- ★ The pre-stage construction is modular, and therefore it can be supplied for various IEC motor connections.
- ★ Power up to 2.2 kw and IEC motor frame sizes up to 090.

Model	Output Torque (N-m)		Ratio
	Min	Max	Min
PC063 + PBWR040	42	85	Min. 100 To Max. 5000
PC063 + PBWR050	63	133	
PC063 + PBWR063	92	155	
PC071 + PBWR050	88	126	
PC071 + PBWR063	90	218	
PC071 + PBWR075	138	254	
PC071 + PBWR090	262	371	
PC080 + PBWR075	205	341	
PC080 + PBWR090	239	578	
PC080 + PBWR110	425	756	
PC080 + PBWR130	397	962	
PC090 + PBWR110	392	1000	
PC090 + PBWR130	398	1220	



★ COMBINATION OF DOUBLE STEP WORM GEAR REDUCER

Model	Output Torque (N-m)		Ratio
	Min	Max	Min
PBWR025 + PBWR030	25	405	Min. 100 To Max. 5000
PBWR025 + PBWR040	59	356	
PBWR030 + PBWR040	57	338	
PBWR030 + PBWR050	107	311	
PBWR030 + PBWR063	171	360	
PBWR040 + PBWR075	324	498	
PBWR040 + PBWR090	365	757	
PBWR050 + PBWR110	639	1411	
PBWR063 + PBWR130	995	2430	
PBWR063 + PBWR150	752	3182	

- ★ Higher ratios can be obtained by combining two single-stage reducers with the use of a combination kit or connecting kit.
- ★ To obtain the desired ratio and lower RPM, we are assembling two worm gearboxes as per the end customer's specifications.
- ★ The pre-stage construction is modular, and therefore it can be supplied for various IEC motor connections.
- ★ Power up to 1.5 kw.
- ★ Combined PBWR worm gearbox total ratios shall be in the range of 100 to 5000.
- ★ The maximum output torque of the PC Kit with PBWR worm gearbox shall be 3182 nm.

★ ADVANTAGES OVER COMPETITORS

Superior Efficiency: Our PBWR Series Worm Reducer is designed to maximize power transmission efficiency, reducing energy consumption and operating costs.

Exceptional Durability: With high-quality materials and robust construction, our worm reducer offers exceptional durability, minimizing downtime and maintenance costs.

Smooth Operation: The precisely engineered gear system ensures smooth and quiet operation, reducing noise pollution in your workspace.

Versatile Applications: The PBWR Series Worm Reducer can be used in a wide range of applications, including machinery, conveyors, packaging equipment, and more.

Trusted Performance: Our products undergo rigorous testing to ensure they meet the highest industry standards, providing you with reliable and consistent performance.

★ WHY CHOOSE US

Expertise and Experience: With years of experience in the power transmission industry, we have the knowledge and expertise to provide the best solutions for your needs.

Excellent Customer Service: We are committed to providing exceptional customer service at every stage, from product selection to after-sales support.

Long-Term Partnership: We believe in building long-term relationships with our customers, supporting you throughout the life cycle of our products.

Discover the Power of PBL'S Worm GEAR Reducer Today!



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2. RADICON TRANSMISSION FZE (UAE)

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