

PILOT BEARINGLESS PTO

QUALITY IS STANDARD

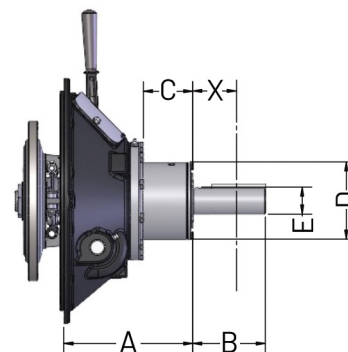
- Available in sizes 6.5" Thru 11.5"
- Spherical main bearings
- Optional sintered iron plates
- Ball bearing throw-out collar
- Save time with ease of engine installation
- Suitable for side load & inline applications
- Removes loading of engine bearings



SPECIFICATIONS

	SAE Housing	Maximum Input Torque Nm (lb-ft)		Maximum Safe Speed rpm		Weight kg (lbs)
		Organic	Sintered	Solid Plates	Split Plates	
PBL106P	4, 5, 6	216 (159)	—	3200	—	29.2 (64.3)
PBL107P	4, 5, 6	237 (175)	—	3200	—	31.7 (69.8)
PBL108P	3, 4, 5	312 (230)	387 (285)	3100	3100	41.1 (90.6)
PBL110P	1, 2, 3, 4	448 (330)	556 (410)	3930	3500	54.9 (121.0)
PBL111P	1, 2, 3	617 (455)	746 (550)	3600	3200	71.1 (157.0)

	PBL106	PBL107	PBL108	PBL110	PBL111
SAE J620 Clutch Size	6.5"	7.5"	8.0"	10.0"	11.5"
SAE J617 Housing Size	#5	#5	#4	#4	#3
A	215.4 (8.48)	215.4 (8.48)	213.3 (8.40)	252.6 (9.94)	278.2 (10.95)
B	62.1 (2.44)	62.1 (2.44)	88.9 (3.50)	113.4 (4.46)	122.4 (4.81)
C	74.3 (2.92)	74.3 (2.92)	82.8 (3.25)	115.6 (4.55)	115.1 (4.53)
D	114.0 (4.48)	114.0 (4.48)	127.0 (5.00)	146.0 (5.74)	146.0 (5.74)
E	36.5 (1.44)	36.5 (1.44)	44.4 (1.75)	57.1 (2.25)	57.1 (2.25)

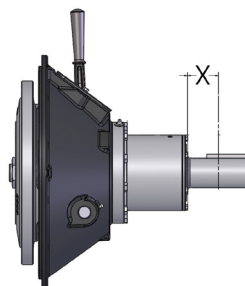


Dimensions are in mm (in).

All clutch engagements to be with prime mover below 1000 RPM. High inertia loads may require use of larger clutch. Contact Twin Disc application engineering department for assistance.

SIDE LOAD – PBL PTO

	RPM	X Distance mm (in)				
		-25.4 (-1)	0 (0)	25.4 (1)	50.8 (2)	76.2 (3)
PBL106P PBL107P	1800	1667 (3674)	1188 (2618)	922 (2034)	754 (1662)	638 (1406)
	2100	1591 (3508)	1134 (2500)	881 (1942)	720 (1587)	609 (1342)
	2600	1492 (3290)	1064 (2345)	826 (1821)	675 (1489)	571 (1259)
	3200	1402 (3092)	999 (2203)	776 (1711)	1399 (1399)	537 (1183)



	RPM	X Distance mm (in)					
		0 (0)	25.4 (1)	50.8 (2)	76.2 (3)	101.6 (4)	127.0 (5)
PBL108P	1800	1418 (3126)	1122 (2473)	928 (2046)	791 (1745)	690 (1521)	611 (1348)
	2100	1354 (2985)	1071 (2362)	886 (1954)	756 (1666)	659 (1452)	584 (1287)
	2600	1270 (2800)	1005 (2215)	831 (1832)	709 (1562)	618 (1362)	547 (1207)
	3100	1205 (2656)	953 (2101)	788 (1738)	672 (1482)	586 (1292)	519 (1145)

	RPM	X Distance mm (in)					
		0 (0)	25.4 (1)	50.8 (2)	76.2 (3)	101.6 (4)	127.0 (5)
PBL110P PBL111P	1800	1418 (3126)	1122 (2473)	928 (2046)	791 (1745)	690 (1521)	611 (1348)
	2100	1354 (2985)	1071 (2362)	886 (1954)	756 (1666)	659 (1452)	584 (1287)
	2300	1318 (2905)	1042 (2298)	862 (1901)	735 (1621)	641 (1413)	568 (1252)
	2500	1285 (2833)	1017 (2241)	841 (1854)	717 (1581)	625 (1378)	554 (1221)

ALLOWABLE SIDE LOAD – kg (lbs)

The following general formula should be used for determining the actual applied load: $L = \frac{126,000 \times \text{HP}}{N \times D} \times F \times \text{LF}$

WHERE L = Actual applied load (lbs)

N = Shaft speed (rpm)

D = Pitch diameter (in) of sheave, etc.

F = Load factor

1.0 for chain or gear drive, 1.5 for timing belts, 2.5 for all v belts, 3.5 for flat belts

LF = 2.1 for reciprocating compressors and other severe shock drives and 1.8 for large inertia type drives (i.e. crushers, chippers, planers, etc.)

Compound drives and power engaged power take-off applications must have written factory review.

Twin Disc, Incorporated reminds users of these products that their safe operation depends on use in compliance with engineering information provided in our catalog. Users are also reminded that safe operation depends on proper installation, operation and routine maintenance and inspection under prevailing conditions. It is the responsibility of users (and not Twin Disc, Incorporated) to provide and install guards or safety devices which may be required by recognized safety standards or by the Occupational Safety and Health Act of 1970 and its subsequent provisions.

Since 1918, we've been putting horsepower to work by designing, engineering and manufacturing rugged-duty industrial products. Our products and our reputation are bolted to the most renowned engine manufacturers and equipment OEMs in the world. Our mission is to make boats, machines and off-highway vehicles more productive, more durable, more operator-friendly, and more cost-effective. From design and installation consultation through after-sale support, Twin Disc and its distributors are committed to your business. No one knows more about managing horsepower in more ways than Twin Disc.

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