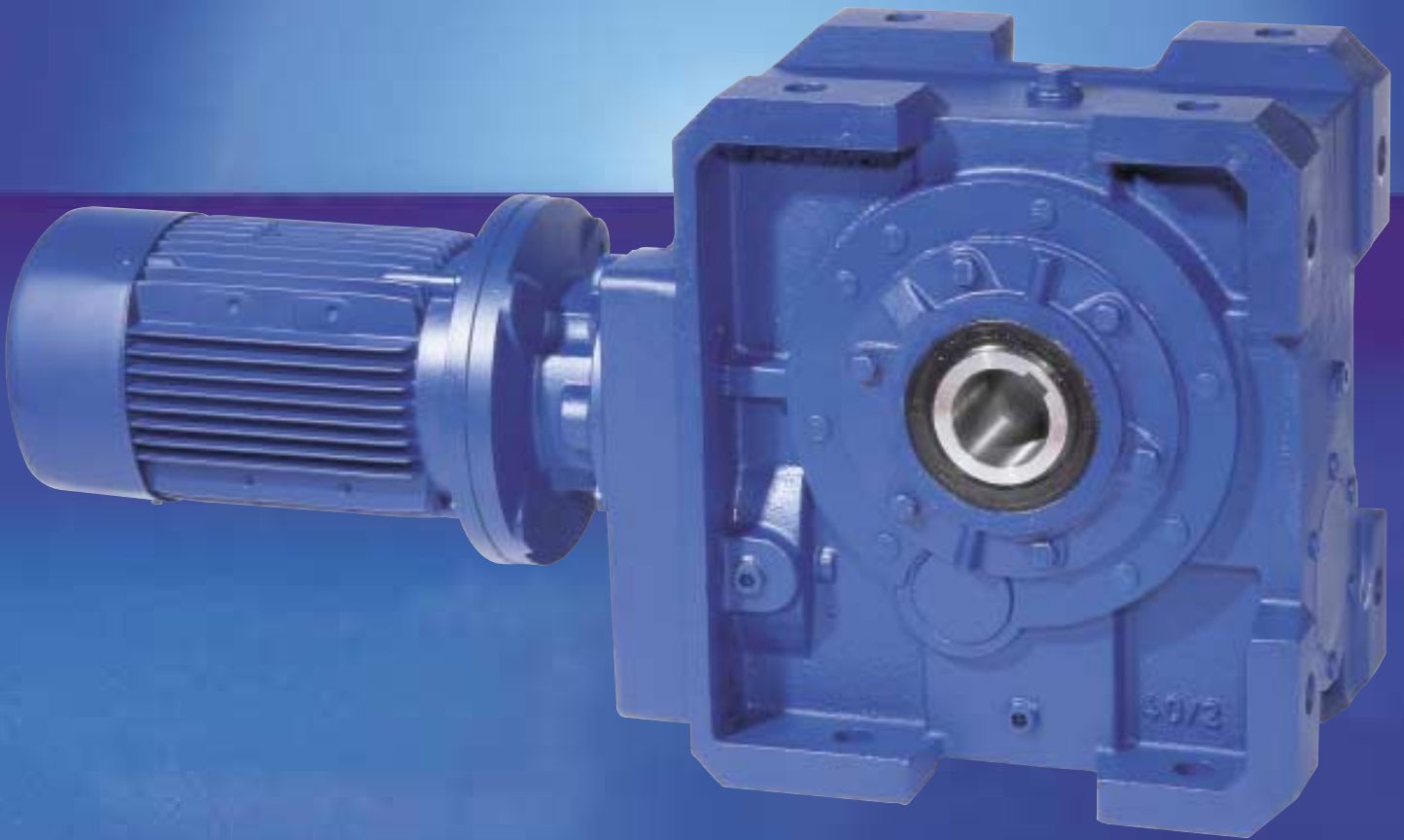
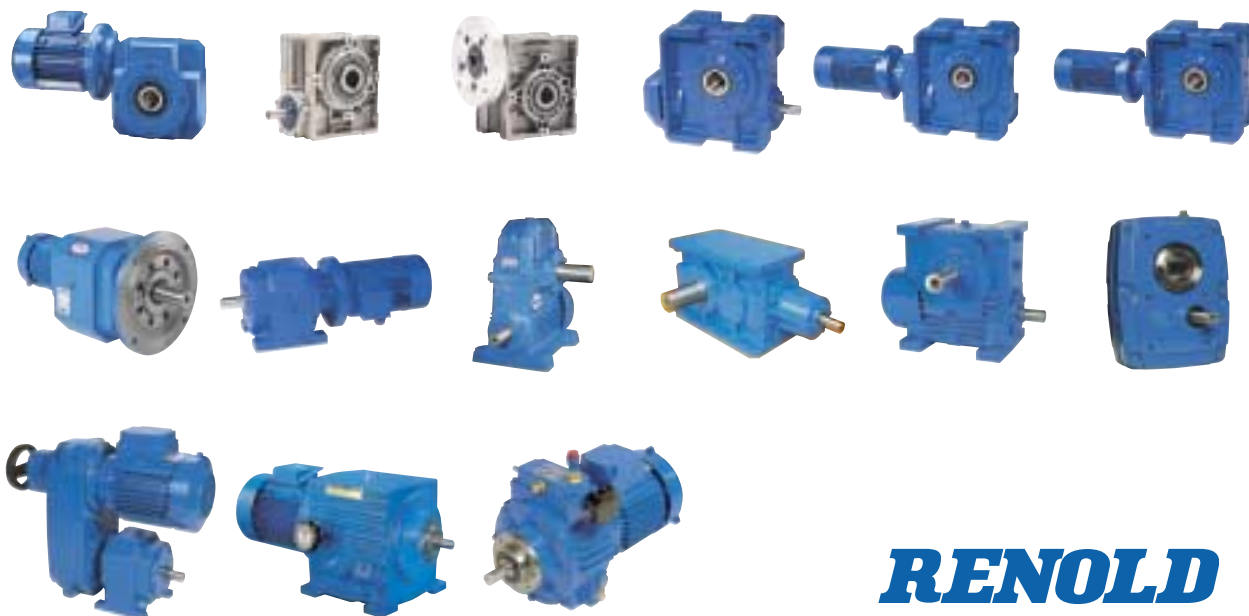


RENOLD

e.PM Series - PB Type



Helical-Bevel-Helical Gear Unit



RENOLD

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RENOLD e.PM Series - PB Type Product Features

Heavy duty taper roller bearings fitted for maximum load capacity and long life.

Hollow output shaft for direct mounting, with plug-in single and double extension output shafts for total design flexibility.

Case hardened and ground helical and spiral bevel gears for quiet running and high efficiency.

Speed Reducer and motorized unit types. Accepts standard NEMA and IEC motors.

One piece close grained cast iron gear case for strength and absorption of vibration for quiet running

Applications:

- Conveyors
- Mining
- Lumber
- Textiles
- Materials Handling
- Packaging Machinery
- Food Process Machinery
- Water Treatment
- Foundry equipment
- General Industrial Applications

RENOLD e.PM Series - PB Type Product Specification

Gear Case

The gear cases are of close grained cast iron with all joints and bearing bores accurately machined to ensure oil tightness and precise gear location.

Shafts

Standard shaft extensions are to inch dimensions, to suit the requirements of the North American market. The output Shaft is manufactured in carbon steel, but if required by applicational conditions, can be made from high tensile steel, in single or double extension. The output bore is in metric dimensions.

Bearings

Standard metric taper/roller bearings are fitted throughout the **RENOLD** e.PM Series range of units in both single and double extension shaft options.

Oil Seals

Semi-dual lip oil seals are fitted to all hollow output shaft units. However, provision has been made to fit two oil seals if weatherproofing or dustproofing is required.

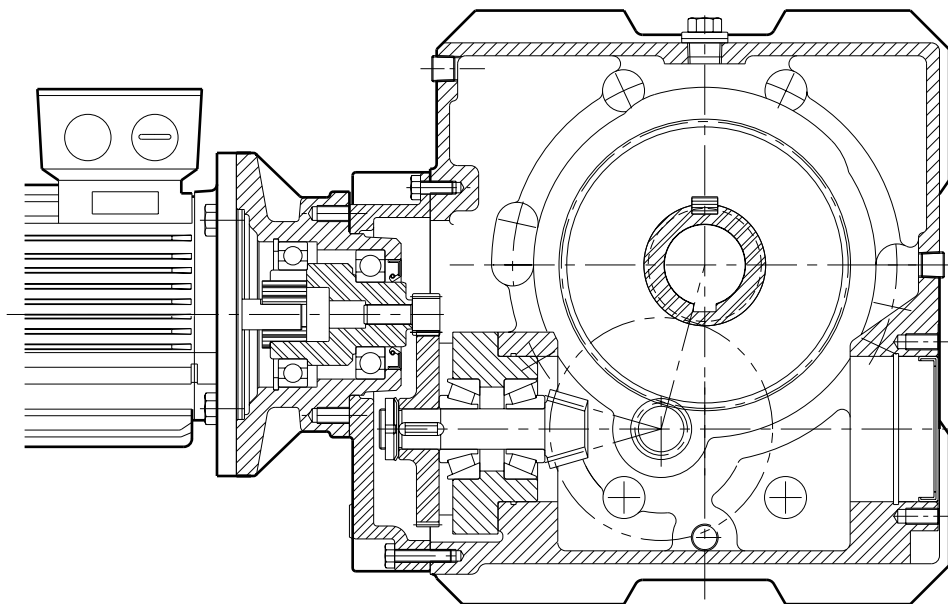
Lubrication

Gear and bearings are positively lubricated by oil from the sump in the underdriven and overdriven versions at normal motor speeds. With the vertical type, grease lubrication is necessary to the wheel line bearings.

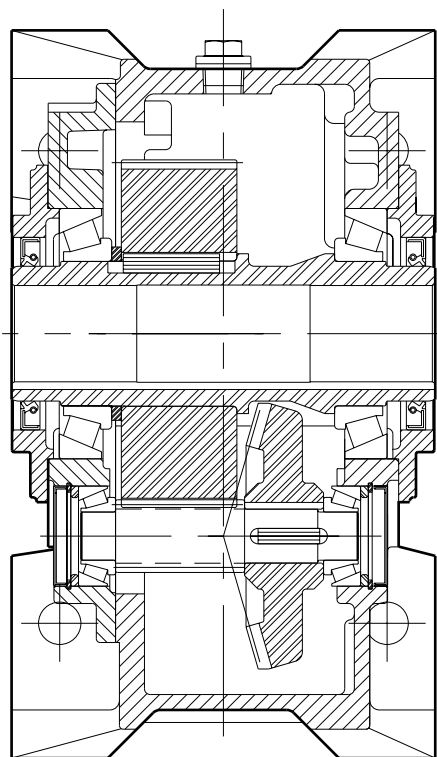
For lower speeds it may be necessary to consider grease lubrication of certain bearings and in this instance it is advisable to consult with Renolds Engineers. Full lubrication details can be found under the "Installation & Maintenance" section.

Input Housing

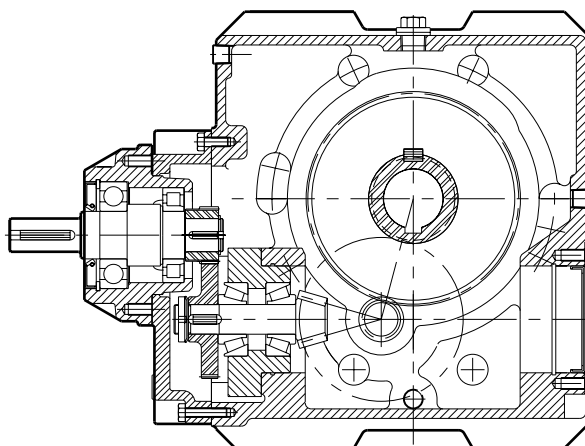
When the **RENOLD** e.PM Series unit is supplied as a non-motorized unit i.e. for direct coupling or driven via a V-belt or chain drive, a high speed input shaft housing is fitted. This consists of a robust housing containing the input shaft which is supported in maintenance-free bearings.

RENOLD e.PM Series PB Type - Product Design Variations

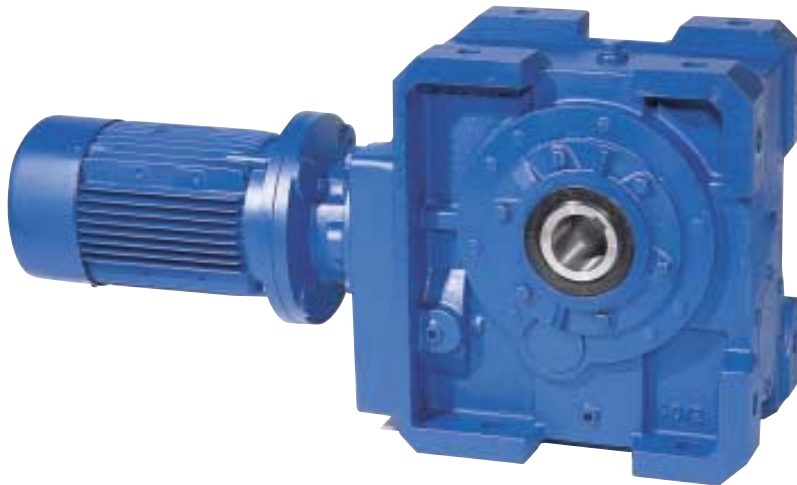
**Motorized unit with hollow output shaft.
Motor adaptor suitable for all standard
NEMA and IEC motors.**



**Standard hollow output shaft
with semi dual lip oil seal for
added oil retention.**



**Speed reducer unit with
input shaft housing.**

RENOLD e.PM Series PB Type - Product Design Variations

e.PM Series - PB type motorized unit

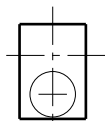


e.PM Series - PB type speed reducer unit

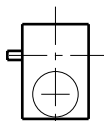
RENOLD e.PM Series - PB Type - Mounting & Handing

Underdriven

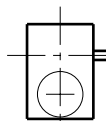
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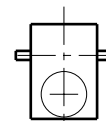
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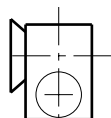
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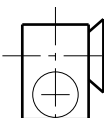
UE



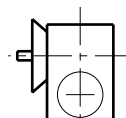
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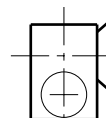
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UL

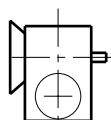


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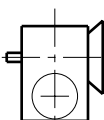


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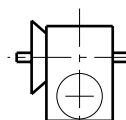
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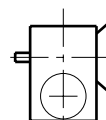
US



UU



UW

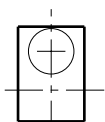


UY

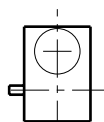
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Overdriven

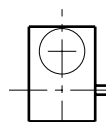
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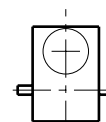
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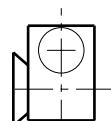
OC



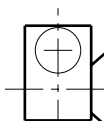
OE



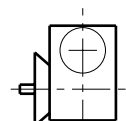
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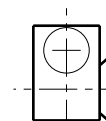
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OL

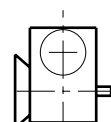


ON

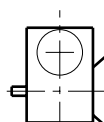


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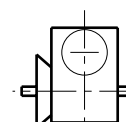
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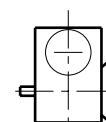
OS



OU



OW



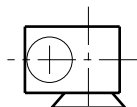
OY

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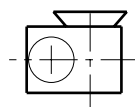
RENOLD e.PM Series - PB Type - Mounting & Handing

Vertical
PB Type with dry well sump
(Factory Built)

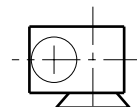
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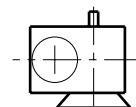
VS



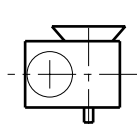
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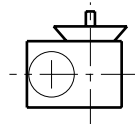
VW



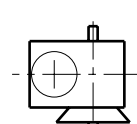
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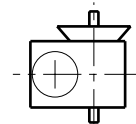
V1



V3



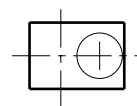
V5



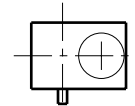
V7

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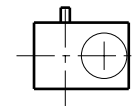
Wall Mounting



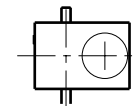
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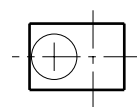
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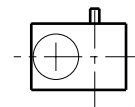
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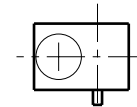
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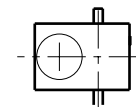
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WL



WN



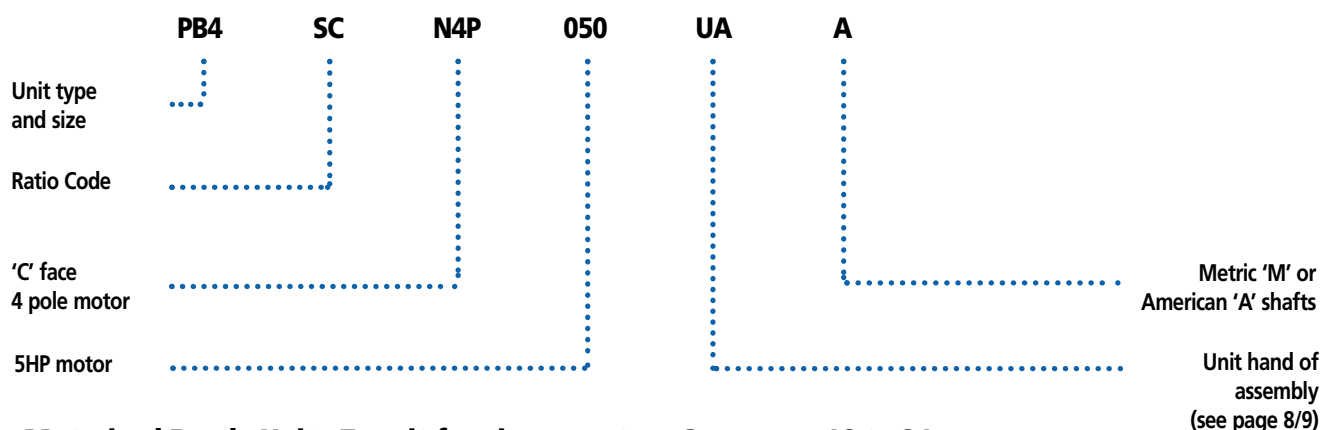
WQ

NOTE: Sprag Backstop is not available on PB Type Gear Units.

Ordering Procedure - Unit Product Code

To ensure that the correct e.PM Series PB Type unit is supplied and that your order is processed without delay, please quote the full designation code as detailed below:

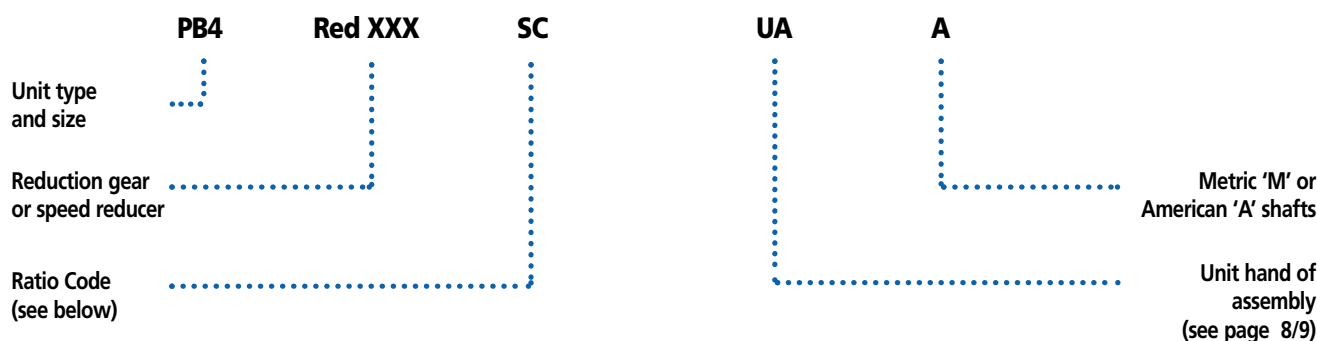
Motorized Unit - See pages 16 to 22



Motorized Ready Unit - To suit free issue motor - See pages 16 to 21



Speed Reducer Unit - See pages 30 to 39



Ratio Codes for PB Type Gear Units

RATIO	CODE	RATIO	CODE	RATIO	CODE	RATIO	CODE
016	SA	032	SD	063	SG	125	SK
020	SB	040	SE	080	SH	160	SL
025	SC	050	SF	100	SJ		

RENOLD e.PM Series - Selection Information

To select a gear unit the following basic information must be known and, if we are to make the selection, should be submitted in full to our Technical Sales Department.

Power

- Prime mover, type and output power (HP).
- Gear unit input and output power required (HP).
- For input speeds below 250 rev/min consult our Technical Sales Department, giving details of required output torque (lbf.ins) and diameter of driven shaft (ins).

Speed

Gear unit input and output rev/min.

Duty

- The characteristics of the drive eg. degree of impulsiveness of the driven load.
- Duration of service in hours/day.
- Starting load (HP) and number of starts per day.
- For intermittent duty, reversing or shock loading, state normal power (HP) and frequency.
- Disposition and details of external loads imposed on input/output shafts.
- Working conditions, i.e. clean, dusty, moist, abnormal temperatures etc.

If the operating conditions are in any way unusual it is advisable to consult our Technical Sales Department.

Enquiry/Ordering Procedure

At the order or enquiry stage, please quote the catalogue reference, shaft assembly number and nominal ratio or exact ratio if this is important (see tables). Non-standard mounting positions should be indicated with a sketch. Where a double extension output shaft is required, please state any special requirements regarding alignment of keyways.

Mechanical Rating

The mechanical powers listed are those which the ePM Series class units will transmit for 10 hours each day and correspond to a service factor of 1.0. Where non-uniform loading or a working day other than 10 hours is involved, a service factor f_d should be applied to the selection power or torque which is taken from Table 2.

High numbers of starts per hour also influence the mechanical selection. Table 3 shows the starts factor f_s which should also be applied to the selection power or torque.

For guidance, a comprehensive list of the various load conditions for a number of applications is given in Table 1. When confirming the mechanical selection powers therefore, the rating must be equal to or greater than - calculated power or torque demand $\times$ application service factor f_d (Table 1 and Table 2) $\times$ starts factor f_s (Table 3)

Efficiencies

The efficiency figures are approximate only and are those that could be expected from a gearbox which is fully run-in and operating under full load with the lubricant at its full working temperature.

For intermittent rating where the lubricant may remain comparatively cool, the efficiency may be somewhat lower due to the increased oil churning losses associated with the higher viscosity of the cool oil.

We shall be pleased to advise on any particular application.

Selection Procedure

The ratings tables for the gear units provide mechanical ratings in terms of input and output power in HP and mechanical and thermal output torque ratings in lbf.ins.

Tables 1 and 2 list the service factors relative to the operational hours each working day and the load classification with regard to the nature of the service. When determining the selection power, the actual power absorbed and not the rating of the prime mover should be used.

The procedure is as follows for single reduction units:-

- Establish the ratio required by dividing the input speed by the output, choosing the nearest nominal ratio available from tables 8 and 9.

$$\text{Gear ratio} = \frac{\text{Input speed rev/min}}{\text{Output speed rev/min}}$$
- Determine the load classification from Table 1 and the corresponding mechanical service factor f_d from Table 2 and the starts factor f_s from Table 3.
- Multiply the actual power absorbed by the mechanical service factor f_d and tentatively select the size of unit by comparing this against the mechanical rating appropriate to the ratio and input speed.

$$\text{Selection Output Torque} = \text{actual output torque} \times f_d \times f_s$$

or

$$\text{Selection Output Torque} = \frac{\text{absorbed power} \times 63,025 \times f_d \times f_s}{\text{output speed (rev/min)}}$$
- Check the capability of the unit to withstand external loads applied to the output shaft.

RENOLD e.PM Series - Selection Examples

Mechanical Selection Torque	lb. ins =	Actual (lb. ins) Torque Requirement	X	Mechanical Service Factor (fd)	X	Starts Factor (fs)
Thermal Selection Torque	lb. ins =	Actual (lb. ins) Torque Requirement	X	Thermal Service Factor (ft)		
Mechanical Selection Power	(HP) =	Actual Power (HP) Requirement	X	Mechanical Service Factor (fd)	X	Starts Factor (fs)
Thermal Selection Power	(HP) =	Actual Power (HP) Requirement	X	Thermal Service Factor (ft)		

Example 1 Motorized Unit

A motorized gear unit is required to drive an inclined chain elevator having a headshaft torque of 20000lb.in, operating for 24 hours per day continuously at 50 RPM.

The duty is considered a steady load.

$$\begin{aligned}
 \text{a) Approximate motor power (HP)} &= \frac{20000 \times 50}{63000 \times 0.95} \\
 \text{assuming a gear efficiency of 95\%} &= 16.7\text{HP}
 \end{aligned}$$

Nearest motor power is 20HP.

b) From the Load Classification and Service Factor tables 1 and 2, a steady load operating 24 hours/day the duty factor $f_d = 1.25$.

c) The starts factor from table 3 for continuous running is $f_s = 1$.

$$\begin{aligned}
 \text{d) Total selection factor } S &= f_d \times f_s \\
 &= 1.25 \times 1 \\
 &= 1.25
 \end{aligned}$$

e) From the selection tables on pages 23 to 28 a 20HP drive can be found on page 23.
51 RPM is the closest speed to the one required offering a mechanical service factor SF of 1.61 which satisfies the selection factor in d) above.

The selected unit product code is **PB6SDN4P200*****

Example 2 Speed Reducer

A right angle gear unit is required to drive a machine using an electric motor as the prime mover @ 1800 RPM. The output torque required is 15500 lb.in with a gear ratio of 100:1.

The duty cycle is heavy shock load, 10 hours/day running with 7 stops/starts per hour. Maximum ambient temperature is 86°F.

$$\begin{aligned}
 \text{a) } & \begin{array}{ccccc} \text{mechanical} & \text{Actual} & & \text{mechanical} & \text{starts} \\ \text{selection} & = \text{torque} & \times & \text{service factor } f_d & \times \text{ factor } f_s \\ \text{torque} & & & [\text{table 1}] & [\text{table 2}] \end{array} \\
 & = 15500 \times 1.75 \times 1.2 \\
 & = 32550 \text{ lb.in}
 \end{aligned}$$

The selection tables on page 36 to 45 show that for a gear ratio of 100:1 page 43 @ 1800 RPM the PB 6 unit is the size that fulfills both the selection criteria in a) and b)

The selected unit product code is **PB6REDXXSJ*****

RENOLD e.PM Series - Load Classification by Application

Table 1

Agitators		Sugar (1)	M	Medium duty	M	Individual drives	H	single acting: 1 or 2 cylinders	*
Pure liquids	S	Dredges		Skip hoist	M	Reversing	*	double acting: single cylinder	*
Liquids and solids	M	Cable reels	M	Laundry	M	Wire drawing and flattening machine	M	Rotary - gear type	S
Liquids-variable density	M	Conveyors	M	Washers - reversing	M	Wire winding machine	M	Rotary - lobe, vane	S
Blowers		Cutter head drives	H	Tumblers	M	Mills, rotary type		Rubber and plastics industries	
Centrifugal	M	Jig drives	H	Line shafts		Ball (1)	M	Crackers (1)	H
Lobe	M	Manoeuvring winches	M	Driving processing equipment	M	Cement kilns (1)	M	Laboratory equipment	M
Vane	S	Pumps	M	Light	S	Dryers and coolers (1)	M	Mixed mills (1)	H
Brewing and Distilling		Screen drive	H	Other line shafts	S	Kilns other than cement	M	Refiners (1)	M
Bottling machinery	S	Stackers	M	Lumber industry	M	Pebble (1)	M	Rubber calenders (1)	M
Brew kettles-continuous duty	S	Utility winches	M	Barkers, hydraulic, mechanical	M	Rod, plain & wedge bar (1)	M	Rubber mill, 2 on line (1)	M
Cookers-continuous duty	S	Dry dock cranes		Burner conveyor	M	Tumbling barrels	H	Rubber mill, 3 on line (1)	S
Mash tubs-continuous duty	S	Main hoist	(2)	Chain saw and drag saw	H	Mixers		Sheeter (1)	M
Scale hopper-frequent starts	M	Auxiliary hoist	(2)	Chain transfer	H	Concrete mixers continuous	M	Tyre building machines	*
Can filling machines		Boom, luffing	(2)	Crane-way transfer	H	Concrete mixers intermittent	M	Tyre and tube press openers	*
Cane knives (1)	M	Rotating, swing or slew	(3)	De-barking drum	H	Constant density	S	Tubers and strainers (1)	M
Car dumpers		Tracking, drive wheels	(4)	Edger feed	M	Variable density	M	Warming mills (1)	M
Car pullers	M	Elevators		Gang feed	M	Oil industry		Sand muller	M
Clarifiers	S	Bucket - uniform load	S	Green chain	M	Chillers	M	Screens	
Classifiers	M	Bucket - heavy load	M	Live rolls	H	Oil well pumping	*	Air washing	S
Clay working machinery		Bucket - continuous	S	Log deck	H	Paraffin filter press	M	Rotary, stone or gravel	M
Brick press	H	Centrifugal discharge	S	Log haul-incline	H	Rotary kilns	M	Travelling water intake	S
Briquette machine	H	Escalators	S	Log haul-well type	H	Pulp mills		Sewage disposal equipment	
Clay working machinery	M	Freight	M	Log turning device	M	Agitators (mixers)	M	Bar screens	S
Pug mill	M	Gravity discharge	S	Main log conveyor	H	Barker-auxiliaries hydraulic	M	Chemical feeders	S
Compressors		Man lifts	*	Off bearing rolls	M	Barker-mechanical	H	Collectors	S
Centrifugal	S	Passenger	*	Planer feed chains	M	Barking drum	H	Dewatering screws	M
Lobe	M	Extruders (plastic)		Planer floor chains	M	Beater and pulper	M	Scum breakers	M
Reciprocating - multi-cylinder	M	Film	S	Planer tilting hoist	M	Bleacher	S	Slow or rapid mixers	M
Reciprocating - single cylinder	H	Sheet	S	Re-saw merry-go-round conveyor	M	Calenders	M	Thickeners	M
Conveyors - uniformly loaded or fed		Coating	S	Roll cases	H	Calenders-super	H	Vacuum filters	M
Apron	S	Rods	S	Slab conveyor	M	Converting machine except	M	Slab pushers	M
Assembly	S	Tubing	S	Small waste conveyor-belt	S	cutters, platers	M	Steering gear	M
Belt	S	Blow moulders	M	Small waste conveyor-chain	M	Conveyors	M	Stokers	S
Bucket	S	Pre-plasticisers	M	Sorting table	M	Couch	M	Sugar industry	
Chain	S	Fans	M	Tipple hoist conveyor	M	Cutters, platers	H	Cane knives (1)	M
Flight	S	Centrifugal	S	Tipple hoist drive	M	Cylinders	M	Crushers (1)	M
Oven	S	Cooling towers	S	Transfer conveyors	M	Dryers	M	Mills (1)	M
Screw	S	Induced draft	*	Transfer rolls	M	Fell stretcher	M	Textile industry	
Conveyors - heavy duty		Forced draft	M	Tray drive	M	Fell whipper	H	Batchers	M
not uniformly fed		Induced draft	M	Trimmer feed	M	Jordans	M	Calenders	M
Apron	M	Large, mine etc.	M	Waste conveyor	M	Log haul	H	Cards	M
Assembly	M	Large, industrial	M	Machine tools		Presses	M	Dry cans	M
Belt	M	Light, small diameter	S	Bending roll	M	Pulp machine reel	M	Dryers	M
Bucket	M	Feeders		Punch press-gear driven	H	Stock chest	M	Dyeing machinery	M
Chain	M	Apron	M	Notching press-belt drive	M	* Suction roll	M	Looms	M
Flight	M	Belt	M	Plate planners	H	Washers and thickeners	M	Mangles	M
Live roll	*	Disc	S	Tapping machine	H	Winders	M	Nappers	M
Oven	M	Reciprocating	H	Other machine tools		Printing presses		Pads	M
Reciprocating	H	Screw	M	Main drives	M	Pullers		Range drives	*
Screw	M	Food industry		Auxiliary drives	M	Barge haul	S	Slashers	M
Shaker	H	Beef slicer	M	Metal mills	M	Pumps		Soapers	M
Crane Drives - not dry dock		Cereal cooker	S	Drawn bench carriage	M	Centrifugal	M	Spinners	M
Main hoists	S	Dough mixer	M	and main drive	M	Proportioning	M	Tenter frames	M
Bridge travel	*	Meat grinder	M	Pinch, dryer and scrubber	M	Reciprocating	M	Washers	M
Trolley travel	*	Generators - not welding		rolls, reversing	S	* single acting:		Winders	M
Crushers	H	Hammer mills		Slitters	H	3 or more cylinders	M	Windlass	*
Ore	H	Hoists		Table conveyors non-	H	double acting:			
Stone	H	Heavy duty	H	reversing group drives		2 or more cylinders	M		

Service Factors

Table 2 (Service Factor f_D)

Prime mover (Drive input)	Driven machinery characteristics			
	Duration Service hours/day	Steady load	Medium impulsive	Highly impulsive
Electric, Air & Hydraulic Motors or Steam Turbine (Steady input)	Intermittent -			
	3hrs/day max	0.90	1.00	1.50
	3 - 10	1.00	1.25	1.75
	over 10	1.25	1.50	2.00
Multi-cylinder I.C. engine (Medium impulsive input)	Intermittent -			
	3hrs/day max	1.00	1.25	1.75
	3 - 10	1.25	1.50	2.00
	over 10	1.50	1.75	2.25
Single-cylinder I.C. engine (Highly impulsive input)	Intermittent -			
	3hrs/day max	1.25	1.50	2.00
	3 - 10	1.50	1.75	2.25
	over 10	1.75	2.00	2.50

RENOLD e.PM Series - Overhung and Axial Loads

Output shafts of gear units are frequently fitted with a spur pinion, chain pinion or belt pulley causing an overhung load to be imposed on the output shaft and bearings. These loads can generally be sustained by the gear unit; however, if the load is greater than the maximum allowable load for the unit, it may be necessary to either select a larger unit or lessen the effect of the load on the shaft bearings. This can be done in two ways. The pinion can be mounted on a shaft in its own bearings and the shaft coupled to the gear unit; or the output shaft may be extended beyond the overhung load and fitted with an outboard bearing. In order to obtain the best possible arrangement for a particular application (where large overhung loads are anticipated) customers are advised to submit details of the load to our Sales Technical Staff for their consideration.

In the interests of good design, the overhung member should be fitted as close as possible to the gear case in order to minimise the stresses and reduce the deflecting moment on the unit.

The maximum imposed axial thrust and overhung loads to which the units can be subjected are given on pages 16-28 and page 32.

Imposed axial thrust loads can also be minimised by the use of flexible couplings on the input and output shafts.

For drives where both imposed thrust and overhung loads are encountered, it is advisable to consult our Technical Sales Staff.

Where a double extension shaft is fitted, the maximum overhung loads listed apply in full to each shaft extension.

The overhung load may be calculated by the following formula:

resultant overhung load = (lbf)

$$P \times 126,000 \times F$$

$$D \times S$$

Where P = Power absorbed at output shaft (HP)

S = Speed of output shaft in rev/min

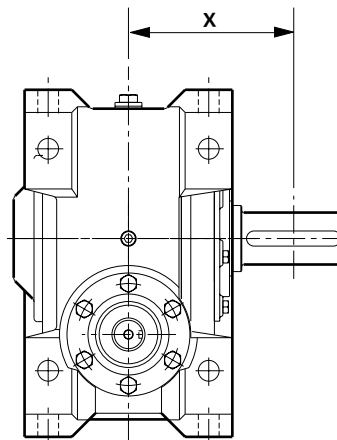
D = Pitch circle diameter of chain sprocket, spur or helical gear, or belt sheave in ins.

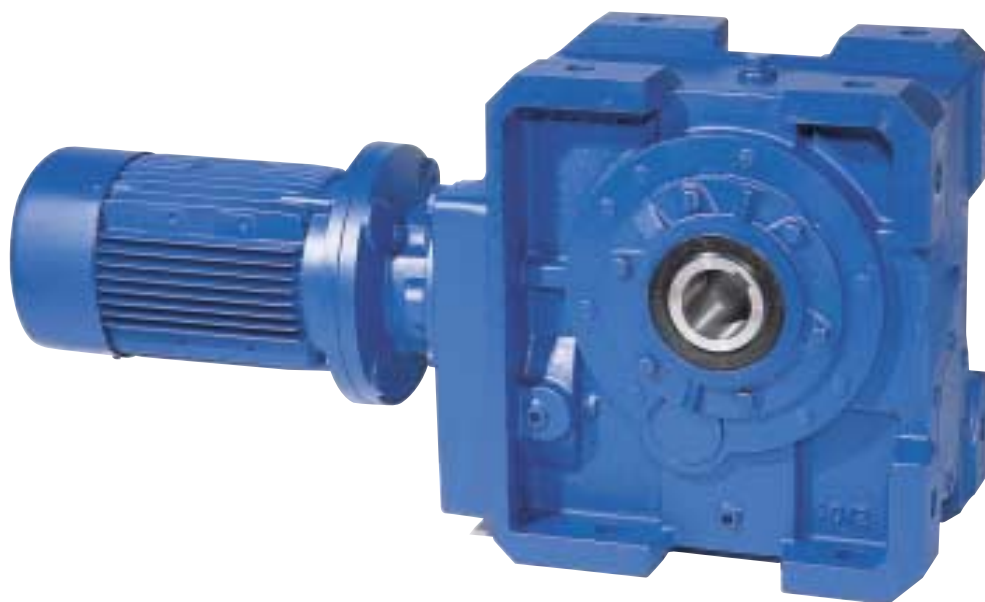
F = Overhung drive application factor as follows:

Chain sprocket	1,00
Spur or helical gear	1,25
Vee sheave	1,50
Flat belt sheave	2,00

The overhung load capacities of motorized units are on pages 16 to 22 and speed reducer units on pages 30 to 39 assume the load is applied mid-way along the output shaft extension, the relevant dimension from the center line of the unit being as given below.

Unit Size	X (ins)
PB35	6.50
PB40	6.89
PB50	8.27
PB60	9.25
PB70	10.63
PB80	10.63



RENOLD e.PM Series - PB Type Motorized Unit**Features**

- Motorized unit up to 120HP
- Ratio range up to 160:1
- Accepts standard NEMA and IEC motors
- Hollow output shaft for direct shaft mounting
- Plug-in single and double extension output shaft
- Mounting feet on at unit sides
- Cast iron case construction for heavy duty applications
- Output flange available on both sides of the unit

Applications

- ▲ Conveyors
- ▲ Food process machinery
- ▲ Steelworks
- ▲ Mining
- ▲ Mixers
- ▲ Lumber machinery
- ▲ Water treatment
- ▲ Crane drives
- ▲ General industrial applications

RENOLD e.PM Series - PB Type - Motorized - Selection Data

P _I 1.0HP						
4P - 143TC 1710 RPM 6P - 145TC 1140 RPM						
n ₂ rpm	Actual Ratio i	M ₂ lb.in	S _F	Overhung Load (max.) lb	Axial Load (max.) lb	Product Code
91	18.78	671	11.20	2000	2700	PB3SBN4P010***
69	24.76	885	8.50	2000	2700	PB3SCN4P010***
54	31.64	1131	6.65	2000	2700	PB3SDN4P010***
42	41.09	1468	5.12	2000	2700	PB3SEN4P010***
36	47.28	1690	4.45	2000	2700	PB3SFN4P010***
28	61.05	2182	3.45	2000	2700	PB3SGN4P010***
22	77.01	2752	2.73	2000	2700	PB3SHN4P010***
17	100.96	3608	3.68	4000	3600	PB4SBN4P010***
17	100.96	3608	2.08	2000	2700	PB3SBN4P010***
13	128.60	4596	2.89	4000	3600	PB4SDN4P010***
13	128.60	4596	1.64	2000	2700	PB3SKN4P010***
11	153.61	5490	4.23	5600	4500	PB5SLN4P010***
11	155.40	5553	2.39	4000	3600	PB4SLN4P010***
11	155.40	5553	1.35	2000	2700	PB3SLN4P010***
9.0	127.12	6814	3.41	5600	4500	PB5SKN6P010***
8.9	128.60	6894	1.92	4000	3600	PB4SKN6P010***
8.9	128.60	6894	1.09	2000	2700	PB3SKN6P010***
7.4	153.61	8234	2.82	5600	4500	PB5SLN6P010***
7.3	155.40	8330	1.59	4000	3600	PB4SLN6P010***
7.3	155.40	8330	0.90	1500	2700	PB3SLN6P010***

P _I 1.5HP						
4P - 145TC 1710 RPM 6P - 182TC 1150 RPM						
n ₂ rpm	Actual Ratio i	M ₂ lb.in	S _F	Overhung Load (max.) lb	Axial Load (max.) lb	Product Code
91	18.78	1007	7.47	2000	2700	PB3SBN4P015***
69	24.76	1327	5.67	2000	2700	PB3SCN4P015***
54	31.64	1696	4.43	2000	2700	PB3SDN4P015***
42	41.09	2203	3.41	2000	2700	PB3SEN4P015***
36	47.28	2535	2.97	2000	2700	PB3SFN4P015***
28	61.05	3273	4.05	4000	3600	PB4SGN4P015***
28	61.05	3273	2.30	2000	2700	PB3SGN4P015***
22	77.01	4128	3.21	4000	3600	PB4SHN4P015***
22	77.01	4128	1.82	2000	2700	PB3SHN4P015***
17	99.80	5350	4.34	5600	4500	PB5SBN4P015***
17	100.96	5412	2.45	4000	3600	PB4SBN4P015***
17	100.96	5412	1.39	2000	2700	PB3SBN4P015***
13	127.12	6814	3.41	5600	4500	PB5SKN4P015***
13	128.60	6894	1.92	4000	3600	PB4SKN4P015***
13	128.60	6894	1.09	2000	2700	PB3SKN4P015***
11	153.61	8234	2.82	5600	4500	PB5SLN4P015***
11	155.40	8330	1.59	4000	3600	PB4SLN4P015***
11	155.40	8330	0.90	1500	2700	PB3SLN4P015***
9.1	126.06	10048	3.95	7600	7850	PB6SKN6P015***
9.0	127.12	10133	2.29	5600	4500	PB5SKN6P015***
8.9	128.60	10250	1.29	4000	3600	PB4SKN6P015***
7.5	153.61	12244	1.90	5600	4500	PB5SLN6P015***
7.4	154.99	12354	3.21	7600	7850	PB6SLN6P015***
7.4	155.40	12386	1.07	3750	3600	PB4SLN6P015***

P _I 2.0HP						
4P - 145TC 1710 RPM 6P - 184TC 1150 RPM						
n ₂ rpm	Actual Ratio i	M ₂ lb.in	S _F	Overhung Load (max.) lb	Axial Load (max.) lb	Product Code
91	18.78	1343	5.60	2000	2700	PB3SBN4P020***
69	24.76	1770	4.25	2000	2700	PB3SCN4P020***
54	31.64	2261	3.33	2000	2700	PB3SDN4P020***
42	41.09	2937	4.52	4000	3600	PB4SEN4P020***
42	41.09	2937	2.56	2000	2700	PB3SEN4P020***
36	47.28	3380	3.93	4000	3600	PB4SFN4P020***
36	47.28	3380	2.23	2000	2700	PB3SFN4P020***
28	61.05	4363	3.04	4000	3600	PB4SGN4P020***
28	61.05	4363	1.72	2000	2700	PB3SGN4P020***
22	76.13	5441	4.27	5600	4500	PB5SHN4P020***
22	77.01	5505	2.41	4000	3600	PB4SHN4P020***
22	77.01	5505	1.37	2000	2700	PB3SHN4P020***
17	99.80	7133	3.26	5600	4500	PB5SBN4P020***
17	100.96	7216	1.84	4000	3600	PB4SBN4P020***
17	100.96	7216	1.04	2000	2700	PB3SBN4P020***
14.1	81.55	8667	4.58	7600	7850	PB6SHN6P020***
13	127.12	9086	2.56	5600	4500	PB5SKN4P020***
13	128.60	9191	1.44	4000	3600	PB4SKN4P020***
13	128.60	9191	0.82	700	2700	PB3SKN4P020***
11	153.61	10979	2.12	5600	4500	PB5SLN4P020***
11	155.40	11107	1.19	4000	3600	PB4SLN4P020***
10.9	105.39	11201	3.54	7600	7850	PB6SBN6P020***
9.1	126.06	13397	2.96	7600	7850	PB6SKN6P020***
9.0	127.12	13510	1.72	5600	4500	PB5SKN6P020***
8.9	128.60	13667	0.97	3200	3600	PB4SKN6P020***
7.8	147.16	15640	4.66	9400	11200	PB7SLN6P020***
7.5	153.61	16325	1.42	5600	4500	PB5SLN6P020***
7.4	154.99	16472	2.41	7600	7850	PB6SLN6P020***
7.4	155.40	16515*	0.80	1450	3600	PB4SLN6P020***

The overhung load shown is based on the maximum motor power being transmitted.

For greater overhung loads consult Renold.

*Max. Standard Plug-in Shaft torque lb.in

PB35	PB40	PB50	PB60	PB70	PB80
9250	13700	23900	39400	70300	100400

Key

- n₂ Output Speed, rpm
- i Overall Ratio
- M₂ Output Torque lb.in, Mechanical
- S_F Safety Factor, Mechanical
- # Consult Renold Gears Technical Dept

RENOLD e.PM Series - PB Type - Motorized - Selection Data

P ₁ 3.0HP							4P - 182TC 1740 RPM 6P - 213TC 1160 RPM	
n ₂ rpm	Actual Ratio i	M ₂ lb.in	S _F	Overhung Load (max.) lb	Axial Load (max.) lb	Product Code		
93	18.78	1979	3.80	2000	2700	PB3SBN4P030***		
70	24.76	2609	2.88	2000	2700	PB3SCN4P030***		
55	31.64	3333	3.67	4000	3600	PB4SDN4P030***		
55	31.64	3333	2.26	2000	2700	PB3SDN4P030***		
42	41.09	4329	3.07	4000	3600	PB4SEN4P030***		
42	41.09	4329	1.74	2000	2700	PB3SEN4P030***		
37	47.28	4982	2.66	4000	3600	PB4SFN4P030***		
37	47.28	4982	1.51	2000	2700	PB3SFN4P030***		
29	60.35	6358	3.65	5600	4500	PB5SGN4P030***		
29	61.05	6432	2.06	4000	3600	PB4SGN4P030***		
29	61.05	6432	1.17	2000	2700	PB3SGN4P030***		
23	76.13	8021	2.90	5600	4500	PB5SHN4P030***		
23	77.01	8114	1.64	4000	3600	PB4SHN4P030***		
23	77.01	8114	0.93	1650	2700	PB3SHN4P030***		
17	99.80	10516	2.21	5600	4500	PB5SJN4P030***		
17	100.96	10638	1.25	4000	3600	PB4SJN4P030***		
17	105.39	11105	3.57	7600	7850	PB6SJN4P030***		
14	126.06	13282	2.99	7600	7850	PB6SKN4P030***		
14	127.12	13394	1.73	5600	4500	PB5SKN4P030***		
14	128.60	13549	0.98	3250	3600	PB4SKN4P030***		
12	147.16	15505	4.51	9400	11200	PB7SLN4P030***		
11	153.61	16185	1.44	5600	4500	PB5SLN4P030***		
11	154.99	16330	2.43	7600	7850	PB6SLN4P030***		
11	155.40	16373*	0.81	1600	3600	PB4SLN4P030***		
9.7	119.69	18916	3.73	9400	11200	PB7SKN6P030***		
9.2	126.06	19923	1.99	7600	7850	PB6SKN6P022***		
9.1	127.12	20091	1.16	5150	4500	PB5SKN6P030***		
7.9	147.16	23257	3.13	9400	11200	PB7SLN6P030***		
7.6	153.61	24277	0.96	3550	4500	PB5SLN6P030***		
7.5	154.99	24495	1.62	7600	7850	PB6SLN6P022***		

P ₁ 5.0HP							4P - 184TC 1740 RPM 6P - 215TC 1150 RPM	
n ₂ rpm	Actual Ratio i	M ₂ lb.in	S _F	Overhung Load (max.) lb	Axial Load (max.) lb	Product Code		
93	18.78	3299	2.28	2000	2700	PB3SBN4P050***		
71	24.48	4298	5.23	5600	4500	PB5SCN4P050***		
70	24.76	4348	2.59	4000	3600	PB4SCN4P050***		
70	24.76	4348	1.73	2000	2700	PB3SCN4P050***		
56	31.27	5492	4.23	5600	4500	PB5SDN4P050***		
55	31.64	5555	2.20	4000	3600	PB4SDN4P050***		
55	31.64	5555	1.35	2000	2700	PB3SDN4P050***		
43	40.62	7133	3.26	5600	4500	PB5SEN4P050***		
42	41.09	7216	1.84	4000	3600	PB4SEN4P050***		
42	41.09	7216	1.04	2000	2700	PB3SEN4P050***		
37	46.74	8208	2.83	5600	4500	PB5SFN4P050***		
37	47.28	8303	1.60	4000	3600	PB4SFN4P050***		
37	47.28	8303	0.91	1500	2700	PB3SFN4P050***		
29	60.35	10597	2.19	5600	4500	PB5SGN4P050***		
29	61.05	10720	1.24	4000	3600	PB4SGN4P050***		
28	62.77	11023	3.60	7600	7850	PB6SGN4P050***		
23	76.13	13369	1.74	5600	4500	PB5SHN4P050***		
23	77.01	13524	0.98	3250	3600	PB4SHN4P050***		
21	81.55	14320	2.77	7600	7850	PB6SHN4P050***		
17	99.80	17526	1.33	5600	4500	PB5SJN4P050***		
17	100.07	17572	4.01	9400	11200	PB7SJN4P050***		
17	105.39	18508	2.14	7600	7850	PB6SJN4P050***		
15	119.69	21018	3.34	9400	11200	PB7SKN4P050***		
14	126.06	22136	1.79	7600	7850	PB6SKN4P050***		
14	127.12	22323	1.04	4350	4500	PB5SKN4P050***		
12	147.16	25842	2.71	9400	11200	PB7SLN4P050***		
11	153.61	26974*	0.86	2050	4500	PB5SLN4P050***		
11	154.99	27217	1.46	7600	7850	PB6SLN4P050***		
9.8	117.84	31310	3.39	12350	12300	PB8SKN6P050***		
9.6	119.69	31801	2.22	9400	11200	PB7SKN6P050***		
9.1	126.06	33493	1.19	7600	7850	PB6SKN6P050***		
7.9	144.89	38496	2.77	12350	12300	PB8SLN6P050***		
7.8	147.16	39100	1.86	9400	11200	PB7SLN6P050***		
7.4	154.99	41180*	0.96	5050	7850	PB6SLN6P050***		

The overhung load shown is based on the maximum motor power being transmitted.

For greater overhung loads consult Renold.

*Max. Standard Plug-in Shaft torque lb.in

PB35	PB40	PB50	PB60	PB70	PB80
9250	15100	26900	34900	55300	71000

Key

- n₂ Output Speed, rpm
- i Overall Ratio
- M₂ Output Torque lb.in, Mechanical
- S_F Safety Factor, Mechanical
- # Consult Renold Gears Technical Dept

RENOLD e.PM Series - PB Type - Motorized - Selection Data

P ₁ 7.5HP						4P - 213TC 1720 RPM 6P - 254TC 1170 RPM
n ₂ rpm	Actual Ratio i	M ₂ lb.in	S _F	Overhung Load (max.) lb	Axial Load (max.) lb	Product Code
93	18.57	4948	4.21	5600	4500	PB5SBN4P075***
92	18.78	5005	2.04	4000	3600	PB4SBN4P075***
92	18.78	5005	1.50	2000	2700	PB3SBN4P075***
70	24.48	6522	3.45	5600	4500	PB5SCN4P075***
69	24.76	6598	1.71	4000	3600	PB4SCN4P075***
69	24.76	6598	1.14	2000	2700	PB3SCN4P075***
55	31.27	8333	2.79	5600	4500	PB5SDN4P075***
54	31.64	8430	1.46	4000	3600	PB4SDN4P075***
54	31.64	8430	0.89	1400	2700	PB3SDN4P075***
42	40.62	10823	2.15	5600	4500	PB5SEN4P075***
42	41.09	10949	1.21	4000	3600	PB4SEN4P075***
40	43.40	11564	3.41	7600	7850	PB6SEN4P075***
37	46.74	12455	1.87	5600	4500	PB5SFN4P075***
36	47.28	12600	1.05	3650	3600	PB4SFN4P075***
33	51.78	13796	2.88	7600	7850	PB6SFN4P075***
29	59.60	15881	4.51	9400	11200	PB7SGN4P075***
29	60.35	16080	1.44	5600	4500	PB5SGN4P075***
28	61.05	16267*	0.82	1650	3600	PB4SGN4P075***
27	62.77	16727	2.37	7600	7850	PB6SGN4P075***
23	76.13	20286	1.15	5600	4500	PB5SHN4P075***
22	77.43	20632	3.44	9400	11200	PB7SHN4P075***
21	81.55	21730	1.83	7600	7850	PB6SHN4P075***
17	99.80	26595*	0.87	5600	4500	PB5SJN4P075***
17	100.07	26665	2.64	9400	11200	PB7SJN4P075***
16	105.39	28084	1.41	7600	7850	PB6SJN4P075***
15	117.84	31401	3.33	12350	12300	PB8SKN4P075***
14	119.69	31893	2.20	9400	11200	PB7SKN4P075***
14	126.06	33591	1.18	7600	7850	PB6SKN4P075***
12	144.89	38608	2.73	12350	12300	PB8SLN4P075***
12	147.16	39213	1.78	9400	11200	PB7SLN4P075***
11	154.99	41300*	0.96	5000	7850	PB6SLN4P075***
9.9	117.84	46162	2.29	12350	12300	PB8SKN6P075***
9.8	119.69	46886	1.50	9400	11200	PB7SKN6P075***
9.3	126.06	49381*	0.80	#	7850	PB6SKN6P075***
8.1	144.89	56756	1.88	12350	12300	PB8SLN6P075***
8.0	147.16	57647	1.26	9400	11200	PB7SLN6P075***

The overhung load shown is based on the maximum motor power being transmitted.

For greater overhung loads consult Renold.

*Max. Standard Plug-in Shaft torque lb.in

PB35	PB40	PB50	PB60	PB70	PB80
9250	15100	26900	34900	55300	71000

Key

- n₂ Output Speed, rpm
- i Overall Ratio
- M₂ Output Torque lb.in, Mechanical
- S_F Safety Factor, Mechanical
- # Consult Renold Gears Technical Dept

RENOLD e.PM Series - PB Type - Motorized - Selection Data

P ₁ 10.0HP						4P - 215TC 1720 RPM 6P - 256TC 1165 RPM
n ₂ rpm	Actual Ratio i	M ₂ lb.in	S _F	Overhung Load (max.) lb	Axial Load (max.) lb	Product Code
93	18.57	6597	3.15	5600	4500	PB5SBN4P100***
92	18.78	6674	1.53	4000	3600	PB4SBN4P100***
92	18.78	6674	1.13	2000	2700	PB3SBN4P100***
70	24.48	8696	2.59	5600	4500	PB5SCN4P100***
69	24.76	8797	1.28	4000	3600	PB4SCN4P100***
69	24.76	8797	0.85	1100	2700	PB3SCN4P100***
65	26.30	9342	4.10	7600	7850	PB6SCN4P100***
55	31.27	11111	2.09	5600	4500	PB5SDN4P100***
54	31.64	11240	1.09	4000	3600	PB4SDN4P100***
50	34.54	12272	3.17	7600	7850	PB6SDN4P100***
42	40.62	14431	1.61	5600	4500	PB5SEN4P100***
42	41.09	14599*	0.91	2750	3600	PB4SEN4P100***
42	41.20	14640	4.87	9400	11200	PB7SEN4P100***
40	43.40	15419	2.55	7600	7850	PB6SEN4P100***
37	46.74	16606	1.40	5600	4500	PB5SFN4P100***
36	47.28	16800*	0.79	1250	3600	PB4SFN4P100***
35	49.16	17466	4.12	9400	11200	PB7SFN4P100***
33	51.78	18395	2.16	7600	7850	PB6SFN4P100***
29	59.60	21175	3.40	9400	11200	PB7SGN4P100***
29	60.35	21441	1.08	4700	4500	PB5SGN4P100***
27	62.77	22302	1.78	7600	7850	PB6SGN4P100***
23	76.13	27048*	0.86	2000	4500	PB5SHN4P100***
23	76.23	27085	3.79	12350	12300	PB8SHN4P100***
22	77.43	27510	2.58	9400	11200	PB7SHN4P100***
21	81.55	28974	1.37	7600	7850	PB6SHN4P100***
17	98.52	35004	2.96	12350	12300	PB8SJN4P100***
17	100.07	35553	1.98	9400	11200	PB7SJN4P100***
16	105.39	37445	1.06	6400	7850	PB6SJN4P100***
15	117.84	41868	2.50	12350	12300	PB8SKN4P100***
14	119.69	42525	1.65	9400	11200	PB7SKN4P100***
14	126.06	44788*	0.89	3350	7850	PB6SKN4P100***
12	144.89	51477	2.05	12350	12300	PB8SLN4P100***
12	147.16	52284	1.34	9400	11200	PB7SLN4P100***
9.9	117.84	61813	1.71	12350	12300	PB8SKN6P100***
9.7	119.69	62783	1.12	9400	11200	PB7SKN6P100***
8.0	144.89	76000	1.40	12350	12300	PB8SLN6P100***
7.9	147.16	77192*	0.94	4750	11200	PB7SLN6P100***

The overhung load shown is based on the maximum motor power being transmitted.

For greater overhung loads consult Renold.

*Max. Standard Plug-in Shaft torque lb.in

PB35	PB40	PB50	PB60	PB70	PB80
9250	15100	26900	34900	55300	71000

Key

- n₂ Output Speed, rpm
- i Overall Ratio
- M₂ Output Torque lb.in, Mechanical
- S_F Safety Factor, Mechanical
- # Consult Renold Gears Technical Dept

For more information telephone us - Canada: Toll Free 800.265.9970. USA: Toll Free 800.850.8141

RENOLD e.PM Series - PB Type - Motorized - Selection Data

P ₁ 15.0HP 4P - 254TC 1750 RPM						
n ₂ rpm	Actual Ratio i	M ₂ lb.in	S _F	Overhung Load (max.) lb	Axial Load (max.) lb	Product Code
94	18.57	9726	2.13	5600	4500	PB5SBN4P150***
93	18.78	9839	1.03	4000	3600	PB4SBN4P150***
84	20.85	10923	3.38	7600	7850	PB6SBN4P150***
71	24.48	12821	1.75	5600	4500	PB5SCN4P150***
71	24.76	12970	0.87	3500	3600	PB4SCN4P150***
67	26.30	13773	2.77	7600	7850	PB6SCN4P150***
56	31.27	16381	1.42	5600	4500	PB5SDN4P150***
53	32.80	17178	4.09	9400	11200	PB7SDN4P150***
51	34.54	18093	2.15	7600	7850	PB6SDN4P150***
43	40.62	21276	1.09	4750	4500	PB5SEN4P150***
42	41.20	21583	3.30	9400	11200	PB7SEN4P150***
40	43.40	22732	1.73	7600	7850	PB6SEN4P150***
37	46.74	24483*	0.95	3450	4500	PB5SFN4P150***
36	49.16	25750	2.79	9400	11200	PB7SFN4P150***
34	51.78	27120	1.46	7600	7850	PB6SFN4P150***
30	58.68	30736	3.29	12350	12300	PB8SGN4P150***
29	59.60	31218	2.30	9400	11200	PB7SGN4P150***
28	62.77	32880	1.21	7600	7850	PB6SGN4P150***
23	76.23	39931	2.57	12350	12300	PB8SHN4P150***
23	77.43	40557	1.75	9400	11200	PB7SHN4P150***
21	81.55	42715*	0.93	4350	7850	PB6SHN4P150***
18	98.52	51606	2.01	12350	12300	PB8SJN4P150***
17	100.07	52416	1.34	9400	11200	PB7SJN4P150***
15	117.84	61725	1.69	12350	12300	PB8SKN4P150***
15	119.69	62693	1.12	9400	11200	PB7SKN4P150***
12	144.89	75891	1.39	12350	12300	PB8SLN4P150***
12	147.16	77082*	0.91	4850	11200	PB7SLN4P150***

P ₁ 20.0HP 4P - 256TC 1750 RPM						
n ₂ rpm	Actual Ratio i	M ₂ lb.in	S _F	Overhung Load (max.) lb	Axial Load (max.) lb	Product Code
94	18.57	12968	1.60	5600	4500	PB5SBN4P200***
93	18.78	13119	0.77	3450	3600	PB4SBN4P200***
88	19.80	13828	4.89	9400	11200	PB7SBN4P200***
84	20.85	14564	2.53	7600	7850	PB6SBN4P200***
71	24.48	17094	1.31	5600	4500	PB5SCN4P200***
70	24.97	17436	3.96	9400	11200	PB7SCN4P200***
67	26.30	18364	2.08	7600	7850	PB6SCN4P200***
56	31.27	21841	1.06	4550	4500	PB5SDN4P200***
53	32.80	22904	3.07	9400	11200	PB7SDN4P200***
51	34.54	24123	1.61	7600	7850	PB6SDN4P200***
43	40.57	28333	3.50	12350	12300	PB8SEN4P200***
43	40.62	28368*	0.82	1050	4500	PB5SEN4P200***
42	41.20	28777	2.48	9400	11200	PB7SEN4P200***
40	43.40	30309	1.30	7600	7850	PB6SEN4P200***
36	48.40	33802	2.96	12350	12300	PB8SFN4P200***
36	49.16	34333	2.10	9400	11200	PB7SFN4P200***
34	51.78	36160	1.10	6850	7850	PB6SFN4P200***
30	58.68	40981	2.47	12350	12300	PB8SGN4P200***
29	59.60	41624	1.72	9400	11200	PB7SGN4P200***
28	62.77	43840*	0.91	3850	7850	PB6SGN4P200***
23	76.23	53241	1.92	12350	12300	PB8SHN4P200***
23	77.43	54076	1.32	9400	11200	PB7SHN4P200***
18	98.52	68808	1.51	12350	12300	PB8SJN4P200***
17	100.07	69888	1.01	7500	11200	PB7SJN4P200***
15	117.84	82300	1.27	12350	12300	PB8SKN4P200***
15	119.69	83591*	0.84	9400	11200	PB7SKN4P200***
12	144.89	101189	1.04	7600	12300	PB8SLN4P200***

The overhung load shown is based on the maximum motor power being transmitted.

For greater overhung loads consult Renold.

*Max. Standard Plug-in Shaft torque lb.in

PB35	PB40	PB50	PB60	PB70	PB80
9250	15100	26900	34900	55300	71000

Key

- n₂ Output Speed, rpm
- i Overall Ratio
- M₂ Output Torque lb.in, Mechanical
- S_F Safety Factor, Mechanical
- # Consult Renold Gears Technical Dept

For more information telephone us - Canada: Toll Free 800.265.9970. USA: Toll Free 800.850.8141

RENOLD e.PM Series - PB Type - Motorized - Selection Data

P ₁ 25.0HP 4P - 284TC 1760 RPM						
n ₂ rpm	Actual Ratio i	M ₂ lb.in	S _F	Overhung Load (max.) lb	Axial Load (max.) lb	Product Code
89	19.80	17187	3.93	9400	11200	PB7SBN4P250***
84	20.85	18102	2.03	7600	7850	PB6SBN4P250***
70	24.97	21672	3.18	9400	11200	PB7SCN4P250***
67	26.30	22825	1.67	7600	7850	PB6SCN4P250***
55	32.29	28028	3.48	12350	12300	PB8SDN4P250***
54	32.80	28468	2.47	9400	11200	PB7SDN4P250***
51	34.54	29983	1.30	7600	7850	PB6SDN4P250***
43	40.57	35215	2.81	12350	12300	PB8SEN4P250***
43	41.20	35767	1.99	9400	11200	PB7SEN4P250***
41	43.40	37671	1.04	6350	7850	PB6SEN4P250***
36	48.40	42013	2.38	12350	12300	PB8SFN4P250***
36	49.16	42672	1.69	9400	11200	PB7SFN4P250***
34	51.78	44943*	0.88	3250	7850	PB6SFN4P250***
30	58.68	50936	1.99	12350	12300	PB8SGN4P250***
30	59.60	51735	1.39	9400	11200	PB7SGN4P250***
23	76.23	66173	1.55	12350	12300	PB8SHN4P250***
23	77.43	67211	1.06	8300	11200	PB7SHN4P250***
18	98.52	85522	1.21	12350	12300	PB8SJN4P250***
18	100.07	86863*	0.81	#	11200	PB7SJN4P250***
15	117.84	102291*	1.02	7200	12300	PB8SKN4P250***
12	144.89	125767*	0.84	#	12300	PB8SLN4P250***

P ₁ 30.0HP 4P - 286TC 1760 RPM						
n ₂ rpm	Actual Ratio i	M ₂ lb.in	S _F	Overhung Load (max.) lb	Axial Load (max.) lb	Product Code
89	19.80	20624	3.28	9400	11200	PB7SBN4P300***
84	20.85	21722	1.70	7600	7850	PB6SBN4P300***
72	24.58	25604	3.58	12350	12300	PB8SCN4P300***
70	24.97	26006	2.65	9400	11200	PB7SCN4P300***
67	26.30	27390	1.40	7600	7850	PB6SCN4P300***
55	32.29	33634	2.90	12350	12300	PB8SDN4P300***
54	32.80	34161	2.06	9400	11200	PB7SDN4P300***
51	34.54	35979	1.08	6900	7850	PB6SDN4P300***
43	40.57	42258	2.34	12350	12300	PB8SEN4P300***
43	41.20	42921	1.66	9400	11200	PB7SEN4P300***
41	43.40	45205*	0.87	7600	7850	PB6SEN4P300***
36	48.40	50416	1.99	12350	12300	PB8SFN4P300***
36	49.16	51206	1.40	9400	11200	PB7SFN4P300***
30	58.68	61123	1.65	12350	12300	PB8SGN4P300***
30	59.60	62082	1.15	9400	11200	PB7SGN4P300***
23	76.23	79407	1.29	12350	12300	PB8SHN4P300***
23	77.43	80653*	0.88	3100	11200	PB7SHN4P300***
18	98.52	102626*	1.01	7050	12300	PB8SJN4P300***
15	117.84	122749*	0.85	6750	12300	PB8SKN4P300***
12	144.89	150921*	0.70	#	12300	PB8SLN4P300***

The overhung load shown is based on the maximum motor power being transmitted.

For greater overhung loads consult Renold.

*Max. Standard Plug-in Shaft torque lb.in

PB35	PB40	PB50	PB60	PB70	PB80
9250	15100	26900	34900	55300	71000

Key

n₂ Output Speed, rpm
i Overall Ratio
M₂ Output Torque lb.in, Mechanical
S_F Safety Factor, Mechanical
Consult Renold Gears Technical Dept

RENOLD e.PM Series - PB Type - Motorized - Selection Data

P ₁ 40.0HP 4P - 324TC 1765 RPM						
n ₂ rpm	Actual Ratio i	M ₂ lb.in	S _F	Overhung Load (max.) lb	Axial Load (max.) lb	Product Code
91	19.49	26998	3.16	12350	12300	PB8SBN4P400***
89	19.80	27421	2.46	9400	11200	PB7SBN4P400***
85	20.85	28880	1.28	7600	7850	PB6SBN4P400***
72	24.58	34043	2.69	12350	12300	PB8SCN4P400***
71	24.97	34577	2.00	9400	11200	PB7SCN4P400***
67	26.30	36417	1.05	6750	7850	PB6SCN4P400***
55	32.29	44718	2.18	12350	12300	PB8SDN4P400***
54	32.80	45419	1.55	9400	11200	PB7SDN4P400***
51	34.54	47837*	0.81	1400	7850	PB6SDN4P400***
44	40.57	56184	1.76	12350	12300	PB8SEN4P400***
43	41.20	57065	1.25	9400	11200	PB7SEN4P400***
36	48.40	67030	1.49	12350	12300	PB8SFN4P400***
36	49.16	68082	1.06	8050	11200	PB7SFN4P400***
30	58.68	81266	1.24	12350	12300	PB8SGN4P400***
30	59.60	82540*	0.87	2000	11200	PB7SGN4P400***
23	76.23	105577*	0.97	5850	12300	PB8SHN4P400***
18	98.52	136447*	0.76	#	12300	PB8SUN4P400***

P ₁ 75.0HP 4P - 365TC 1770 RPM						
n ₂ rpm	Actual Ratio i	M ₂ lb.in	S _F	Overhung Load (max.) lb	Axial Load (max.) lb	Product Code
91	19.49	50477	1.69	12350	12300	PB8SBN4P750***
89	19.80	51269	1.32	9400	11200	PB7SBN4P750***
72	24.58	63649	1.44	12350	12300	PB8SCN4P750***
71	24.97	64648	1.03	9050	11200	PB7SCN4P750***
55	32.29	83609	1.17	12350	12300	PB8SDN4P750***
54	32.80	84920*	0.83	#	11200	PB7SDN4P750***
44	40.57	105048*	0.94	6100	12300	PB8SEN4P750***
37	48.40	125327*	0.80	#	12300	PB8SFN4P750***

P ₁ 50.0HP 4P - 326TC 1765 RPM						
n ₂ rpm	Actual Ratio i	M ₂ lb.in	S _F	Overhung Load (max.) lb	Axial Load (max.) lb	Product Code
91	19.49	33747	2.53	12350	12300	PB8SBN4P500***
89	19.80	34276	1.97	9400	11200	PH7SBN4P500***
85	20.85	36101	1.02	6850	7850	PB6SBN4P500***
72	24.58	42553	2.15	12350	12300	PB8SCN4P500***
71	24.97	43221	1.60	9400	11200	PH7SCN4P500***
67	26.30	45520*	0.84	2950	7850	PB6SCN4P500***
55	32.29	55897	1.75	12350	12300	PB8SDN4P500***
54	32.80	56774	1.24	9400	11200	PH7SDN4P500***
44	40.57	70230	1.41	12350	12300	PB8SEN4P500***
43	41.20	71332*	1.00	7000	11200	PH7SEN4P500***
36	48.40	83788	1.19	12350	12300	PB8SFN4P500***
36	49.16	85102*	0.84	#	11200	PH7SFN4P500***
30	58.68	101583*	1.00	7450	12300	PB8SGN4P500***
23	76.23	131970*	0.78	#	12300	PB8SHN4P500***

P ₁ 100.0HP 4P - 405TC 1775 RPM						
n ₂ rpm	Actual Ratio i	M ₂ lb.in	S _F	Overhung Load (max.) lb	Axial Load (max.) lb	Product Code
91	19.49	67114	1.27	12350	12300	PB8SBN4P10Z***
90	19.80	68166	0.99	8050	11200	PB7SBN4P10Z***
72	24.58	84627	1.08	12350	12300	PB8SCN4P10Z***
71	24.97	85954*	0.80	#	11200	PB7SCN4P10Z***
55	32.29	111165*	0.88	3300	12300	PB8SDN4P10Z***
44	40.57	139669*	0.71	#	12300	PB8SEN4P10Z***

P ₁ 60.0HP 4P - 364TC 1770 RPM						
n ₂ rpm	Actual Ratio i	M ₂ lb.in	S _F	Overhung Load (max.) lb	Axial Load (max.) lb	Product Code
91	19.49	40382	2.11	12350	12300	PB8SBN4P600***
89	19.80	41015	1.64	9400	11200	PB7SBN4P600***
72	24.58	50920	1.80	12350	12300	PB8SCN4P600***
71	24.97	51718	1.29	9400	11200	PB7SCN4P600***
55	32.29	66887	1.46	12350	12300	PB8SDN4P600***
54	32.80	67937	1.03	8100	11200	PB7SDN4P600***
44	40.57	84038	1.18	12350	12300	PB8SEN4P600***
43	41.20	85356*	0.83	#	11200	PB7SEN4P600***
37	48.40	100262	1.00	7950	12300	PB8SFN4P600***
30	58.68	121555*	0.83	#	12300	PB8SGN4P600***

P ₁ 125.0HP 4P - 444TC 1775 RPM						
n ₂ rpm	Actual Ratio i	M ₂ lb.in	S _F	Overhung Load (max.) lb	Axial Load (max.) lb	Product Code
91	19.49	83892	1.02	12350	12300	PB8SBN4P12Z***
90	19.80	85208*	0.79	#	11200	PB7SBN4P12Z***
72	24.58	105784*	0.86	5850	12300	PB8SCN4P12Z***

The overhung load shown is based on the maximum motor power being transmitted.

For greater overhung loads consult Renold.

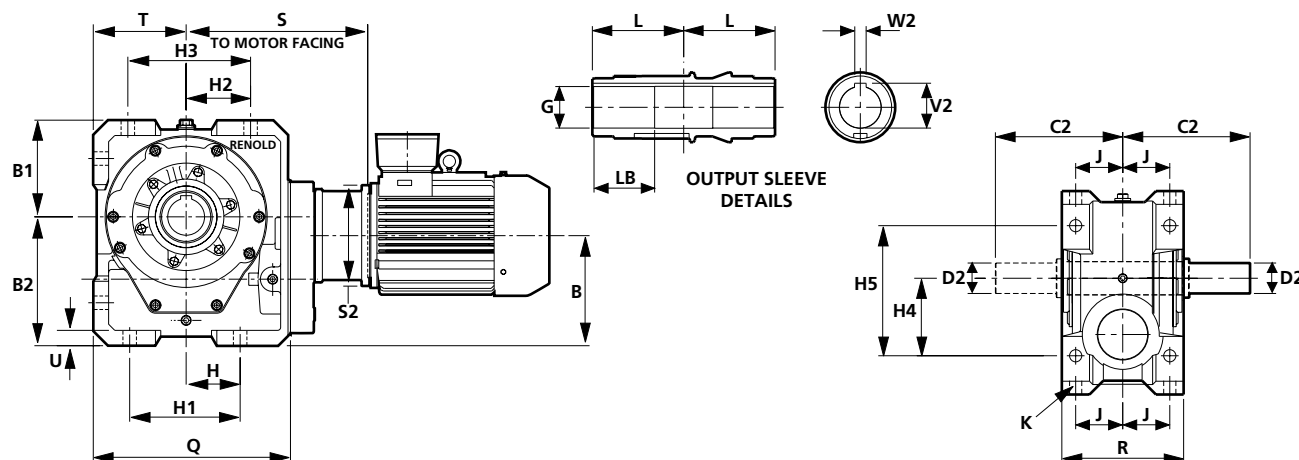
*Max. Standard Plug-in Shaft torque lb.in

PB35	PB40	PB50	PB60	PB70	PB80
9250	13700	23900	39400	70300	100400

Key

- n₂ Output Speed, rpm
- i Overall Ratio
- M₂ Output Torque lb.in, Mechanical
- S_F Safety Factor, Mechanical
- # Consult Renold Gears Technical Dept

RENOLD e.PM Series - PB Type - Motorized Unit - Dimensions



UNIT SHOWN WITH PLUG-IN SINGLE EXTENSION OUTPUT SHAFT

SHAFTS CAN BE PLUGGED-IN
FROM EITHER SIDE OF THE UNIT

e.PM Series - PB Motorized

UNIT REF	B	B1	B2	H	H1	H2	H3	H4	H5
PB35	6.38	5.51	7.09	2.36	5.31	3.35	6.30	4.72	8.07
PB40	7.06	6.20	8.27	3.46	7.09	4.13	7.87	5.51	9.25
PB50	7.24	7.68	9.45	3.46	7.09	4.92	9.06	6.30	11.02
PB60	9.43	8.86	11.02	4.72	9.25	5.71	10.63	7.48	13.39
PB70	10.60	10.06	13.19	5.51	11.42	6.30	12.20	9.45	16.22
PB80	10.98	11.02	14.57	5.51	12.20	6.69	13.39	10.08	18.11

UNIT REF	J	K	Q	R	T	U
PB35	2.95	0.67	10.79	7.32	5.12	0.98
PB40	3.35	0.85	12.64	8.66	5.94	0.98
PB50	3.94	0.85	14.37	9.84	6.89	1.18
PB60	4.92	1.00	16.46	12.01	7.87	1.38
PB70	5.91	1.00	18.03	14.17	8.86	1.38
PB80	5.91	1.00	19.80	14.17	9.69	1.38

UNIT REF	S						S2				
	143/145	182/256	284/286	324/326	364-405	444	143/145	182/256	284/286	324/326	364-444
PB35	10.12	10.63	-	-	-	-	6.48	9.02	-	-	-
PB40	11.14	11.65	-	-	-	-	6.48	9.02	-	-	-
PB50	11.93	12.44	-	-	-	-	6.48	9.02	-	-	-
PB60	-	13.78	14.80	15.51	-	-	-	9.06	11.26	12.99	-
PB70	-	14.37	15.39	16.10	19.80	21.30	-	9.06	11.26	12.99	17.72
PB80	-	15.31	16.34	17.05	20.75	22.24	-	9.06	11.26	12.99	17.72

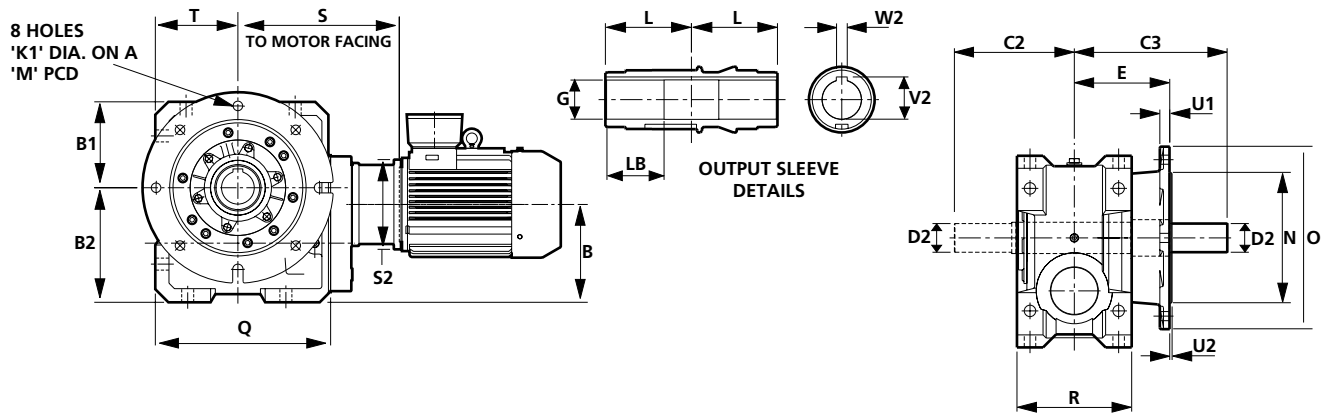
Output Sleeve - Hollow Bore

UNIT REF	G		L	LB	V2 min.	W2	
	max.	min.				max.	min.
PB35	1.5768	1.5758	4.06	2.56	1.70	0.4733	0.4716
PB40	1.9705	1.9695	4.33	2.95	2.12	0.5520	0.5504
PB50	2.3646	2.3634	5.12	3.74	2.54	0.7095	0.7078
PB60	2.7583	2.7571	6.10	5.12	2.95	0.7884	0.7864
PB70	3.5461	3.5447	6.85	4.92	3.76	0.9853	0.9832
PB80	3.9398	3.9384	6.85	4.53	4.19	1.1034	1.1013

Plug-in Output Shaft

UNIT REF	C2	D2
PB35	7.50	1.5000
PB40	8.75	1.8750
PB50	10.00	2.2500
PB60	11.63	2.6250
PB70	14.00	3.3750
PB80	14.50	3.6250

RENOLD e.PM Series - PB Type - Motorized Unit - Dimensions



UNIT SHOWN WITH PLUG-IN SINGLE EXTENSION OUTPUT SHAFT

SHAFTS CAN BE PLUGGED-IN FROM EITHER SIDE OF THE UNIT

e.PM Series - PB Motorized - Horizontal Flange Mounted

UNIT REF	B	B1	B2	E	K1	M
PB35	6.38	5.51	7.09	6.06	0.53	10.43
PB40	7.06	6.20	8.27	7.20	0.69	11.81
PB50	7.24	7.68	9.45	7.76	0.69	13.78
PB60	9.43	8.86	11.02	8.46	0.69	15.75
PB70	10.60	10.06	13.19	9.76	0.69	19.69
PB80	10.98	11.02	14.57	9.76	0.69	19.69

UNIT REF	N		O	Q	R	T	U1	U2
	max	min						
PB35	9.055	9.052	11.81	10.79	7.32	5.12	0.51	0.16
PB40	9.843	9.840	13.78	12.64	8.66	5.94	0.75	0.20
PB50	11.811	11.808	15.75	14.37	9.84	6.89	0.75	0.20
PB60	13.780	13.776	17.72	16.46	12.01	7.87	0.75	0.20
PB70	17.717	17.713	21.65	18.03	14.17	8.86	0.94	0.20
PB80	17.717	17.713	21.65	19.80	14.17	9.69	0.94	0.20

UNIT REF	S						S2				
	143/145	182/256	284/286	324/326	364-405	444	143/145	182/256	284/286	324/326	364-444
PB35	10.12	10.63	-	-	-	-	6.48	9.02	-	-	-
PB40	11.14	11.65	-	-	-	-	6.48	9.02	-	-	-
PB50	11.93	12.44	-	-	-	-	6.48	9.02	-	-	-
PB60	-	13.78	14.80	15.51	-	-	-	9.06	11.26	12.99	-
PB70	-	14.37	15.39	16.10	19.80	21.30	-	9.06	11.26	12.99	17.72
PB80	-	15.31	16.34	17.05	20.75	22.24	-	9.06	11.26	12.99	17.72

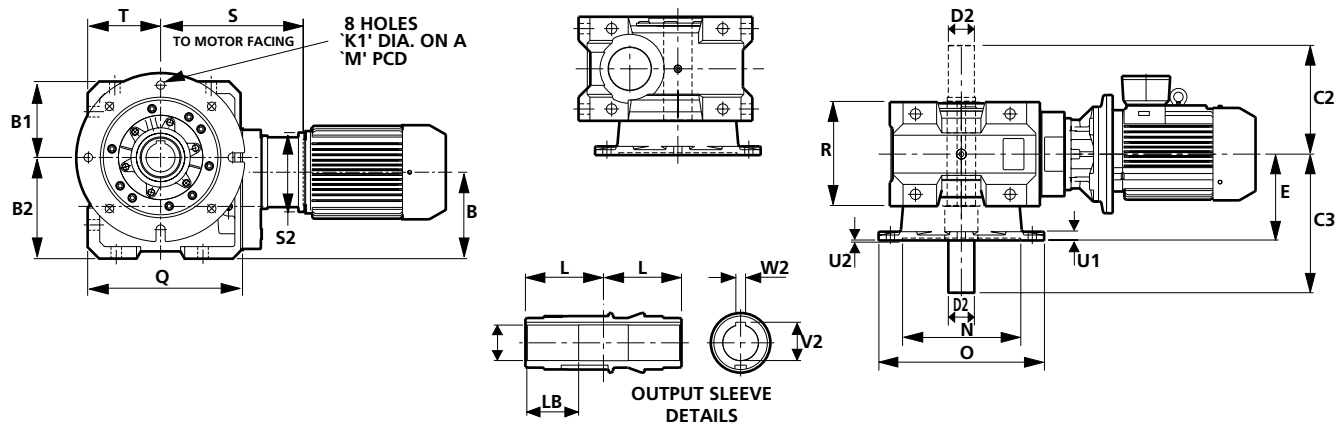
Output Sleeve - Hollow Bore

UNIT REF	G		L	LB	V2	W2	
	max.	min.			min.	max.	min
PB35	1.5768	1.5758	4.06	2.56	1.70	0.4733	0.4716
PB40	1.9705	1.9695	4.33	2.95	2.12	0.5520	0.5504
PB50	2.3646	2.3634	5.12	3.74	2.54	0.7095	0.7078
PB60	2.7583	2.7571	6.10	5.12	2.95	0.7884	0.7864
PB70	3.5461	3.5447	6.85	4.92	3.76	0.9853	0.9832
PB80	3.9398	3.9384	6.85	4.53	4.19	1.1034	1.1013

Plug-in Output Shaft

UNIT REF	C2	C3	D2
PB35	7.50	9.18	1.5000
PB40	8.75	11.18	1.8750
PB50	10.00	12.25	2.2500
PB60	11.63	13.63	2.6250
PB70	14.00	16.50	3.3750
PB80	14.50	17.00	3.6250

RENOLD e.PM Series - PB Type - Motorized Unit - Dimensions



UNIT SHOWN WITH PLUG-IN SINGLE EXTENSION OUTPUT SHAFT

SHAFTS CAN BE PLUGGED-IN FROM EITHER SIDE OF THE UNIT

e.PM Series - PB Motorized - Horizontal Flange Mounted

UNIT REF	B	B1	B2	E	K1	M
PB35	6.38	5.51	7.09	6.06	0.53	10.43
PB40	7.06	6.20	8.27	7.20	0.69	11.81
PB50	7.24	7.68	9.45	7.76	0.69	13.78
PB60	9.43	8.86	11.02	8.46	0.69	15.75
PB70	10.60	10.06	13.19	9.76	0.69	19.69
PB80	10.98	11.02	14.57	9.76	0.69	19.69

UNIT REF	N	O	Q	R	T	U1	U2
	max	min					
PB35	9.058	9.055	11.81	10.79	7.32	5.12	0.51
PB40	9.845	9.843	13.78	12.64	8.66	5.94	0.75
PB50	11.814	11.811	15.75	14.37	9.84	6.89	0.75
PB60	13.783	13.780	17.72	16.46	12.01	7.87	0.75
PB70	17.720	17.717	21.65	18.03	14.17	8.86	0.94
PB80	17.720	17.717	21.65	19.80	14.17	9.69	0.94

UNIT REF	S						S2				
	143/145	182/256	284/286	324/326	364-405	444	143/145	182/256	284/286	324/326	364-444
PB35	10.12	10.63	-	-	-	-	6.48	9.02	-	-	-
PB40	11.14	11.65	-	-	-	-	6.48	9.02	-	-	-
PB50	11.93	12.44	-	-	-	-	6.48	9.02	-	-	-
PB60	-	13.78	14.80	15.51	-	-	-	9.06	11.26	12.99	-
PB70	-	14.37	15.39	16.10	19.80	21.30	-	9.06	11.26	12.99	17.72
PB80	-	15.31	16.34	17.05	20.75	22.24	-	9.06	11.26	12.99	17.72

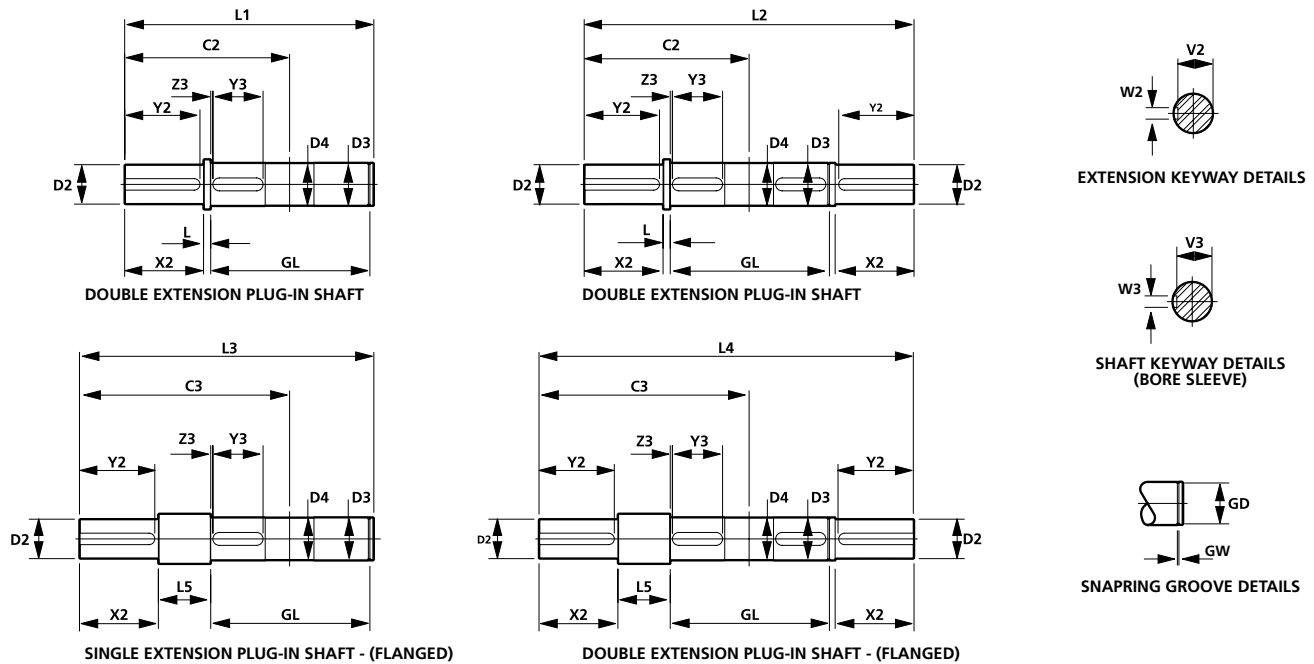
Output Sleeve - Hollow Bore

UNIT REF	G	L	LB	V2	W2
	max.	min.		min.	max.
PB35	1.5768	1.5758	4.06	1.70	0.4733
PB40	1.9705	1.9695	4.33	2.12	0.5520
PB50	2.3646	2.3634	5.12	2.54	0.7095
PB60	2.7583	2.7571	6.10	2.95	0.7884
PB70	3.5461	3.5447	6.85	3.76	0.9853
PB80	3.9398	3.9384	6.85	4.19	1.1034

Plug-in Output Shaft

UNIT REF	C2	C3	D2
PB35	7.50	9.18	1.5000
PB40	8.75	11.18	1.8750
PB50	10.00	12.25	2.2500
PB60	11.63	13.63	2.6250
PB70	14.00	16.50	3.3750
PB80	14.50	17.00	3.6250

RENOLD e.PM Series - PB Type - Output Shaft Dimensions



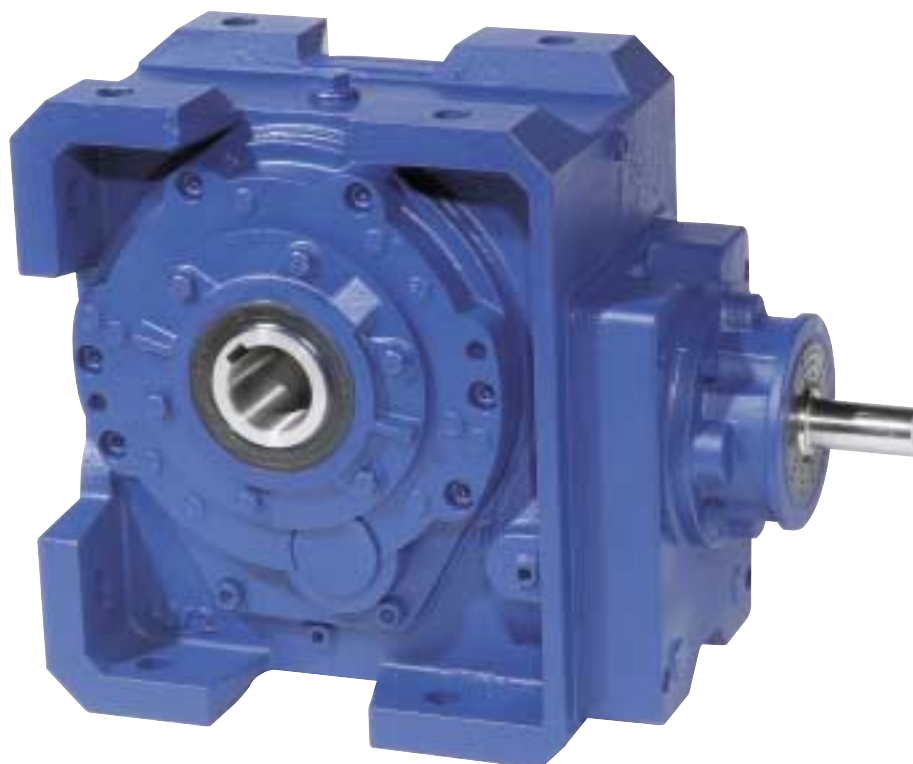
Plug-in Shafts

UNIT REF	C2	C3	L	L1	L2	L3	L4	L5	GD	GL	GW
PB35	7.50	9.18	0.32	11.85	15.00	13.54	16.68	2.00	1.476 1.467	8.175 8.173	0.078 0.073
PB40	8.75	11.18	0.42	13.39	17.50	15.83	19.92	2.85	1.850 1.841	8.746 8.744	0.090 0.085
PB50	10.00	12.25	0.38	15.47	20.00	17.72	22.25	2.63	2.244 2.232	10.321 10.319	0.090 0.085
PB60	11.63	13.63	0.40	18.11	23.25	20.12	25.25	2.40	2.638 2.626	12.309 12.307	0.110 0.104
PB70	14.00	16.50	0.40	21.22	28.00	23.74	30.50	2.90	3.406 3.392	13.825 13.823	0.131 0.124
PB80	14.50	17.00	0.40	21.73	29.00	24.25	31.50	2.90	3.799 3.785	13.825 13.823	0.131 0.124

UNIT REF	D2		V2 min	W2		X2	Y2
	max	min		max	min		
PB35	1.5000	1.4995	1.283	0.377	0.375	3.13	3.00
PB40	1.8750	1.8740	1.585	0.502	0.500	4.00	3.75
PB50	2.2500	2.2490	1.966	0.502	0.500	4.50	4.25
PB60	2.6250	2.6240	2.269	0.627	0.625	5.13	4.88
PB70	3.3750	3.3740	2.874	0.877	0.875	6.75	6.50
PB80	3.6250	3.6240	3.128	0.877	0.875	7.25	6.88

UNIT REF	D3		V3 min	W3		Y3	Z3	D4
	max	min		max	min			
PB35	1.5748	1.5742	1.370	0.472	0.470	2.48	0.12	1.50
PB40	1.9685	1.9675	1.744	0.550	0.549	3.15	0.12	1.89
PB50	2.3622	2.3615	2.079	0.708	0.706	3.94	0.12	2.28
PB60	2.7559	2.7552	2.453	0.787	0.784	4.92	0.12	2.68
PB70	3.5433	3.5424	3.181	0.983	0.981	5.51	0.12	3.46
PB80	3.9370	3.9361	3.535	1.101	1.099	4.92 *	0.12	3.78

*2 Keys

RENOLD e.PM Series - PB Type - Speed Reducer Unit**Features**

- Wormgear speed reducer unit
- Ratio range up to 160:1
- Torque capacity up to 109000 lb.in
- Hollow output shaft for direct shaft mounting
- Plug-in single and double extension output shaft
- Mounting feet on all unit sides
- Cast iron case construction for heavy duty applications
- Dry-well feature for agitator drives
- Output flange available on both sides of the unit

Applications

- ▲ Conveyors
- ▲ Food process machinery
- ▲ Steelworks
- ▲ Mining
- ▲ Mixers
- ▲ Lumber machinery
- ▲ Water treatment
- ▲ Crane drives
- ▲ General industrial applications

RENOLD e.PM Series - PB Type - Overhung/Axial Load Capacities

e.PM Series PB - HELICAL/BEVEL/HELICAL

Overhung Load Capacities @ 1800 RPM Input Speed

Ratio	Output Speed	Gear Unit Size					
		PB35	PB40	PB50	PB60	PB70	PB80
20	90	2000	4600	5000	6700	8350	12500
25	72	2000	4250	4000	6200	7800	10900
32	56	2000	3950	4000	5950	7400	8900
40	45	2000	3400	4000	5750	7050	8400
50	36	2000	3400	4000	5600	6850	8050
63	29	2000	3400	4000	5600	6850	7650
80	23	2000	3400	4000	5600	7100	7150
100	18	2000	3400	4000	5600	7300	6750
125	14	2000	3400	4000	5600	7350	6450
160	11	2000	3400	4000	5600	7450	6100

- based on Gear Unit transmitting Mechanical Rating

e.PM Series PB - HELICAL/BEVEL/HELICAL

Axial Load Capacities

Ratio	Output Speed	Gear Unit Size					
		PB35	PB40	PB50	PB60	PB70	PB80
16	113	3600	4500	7850	11200	12300	12300
20	90	2700	3600	4500	7850	11200	12300
25	72	2700	3600	4500	7850	11200	12300
32	56	2700	3600	4500	7850	11200	12300
40	45	2700	3600	4500	7850	11200	12300
50	36	2700	3600	4500	7850	11200	12300
63	29	2700	3600	4500	7850	11200	12300
80	23	2700	3600	4500	7850	11200	12300
100	18	2700	3600	4500	7850	11200	12300
125	14	2700	3600	4500	7850	11200	12300
160	11	2700	3600	4500	7850	11200	12300

based on Gear Unit transmitting Mechanical Rating

RENOLD e.PM Series - PB Type - Exact Ratio

e.PM Series PB Helical/Bevel/Helical Actual Ratios

PB35/40							
R10	Helical		Bevel		Helical		Overall Ratio
	Pinion	Wheel	Pinion	Wheel	Pinion	Wheel	
20	51	51	11	38	16	87	18.78
25	44	58	11	38	16	87	24.76
32	38	64	11	38	16	87	31.64
40	32	70	11	38	16	87	41.09
50	29	73	11	38	16	87	47.28
63	24	78	11	38	16	87	61.05
80	20	82	11	38	16	87	77.01
100	16	86	11	38	16	87	100.96
125	13	89	11	38	16	87	128.60
160	11	91	11	38	16	87	155.40

PB50							
R10	Helical		Bevel		Helical		Overall Ratio
	Pinion	Wheel	Pinion	Wheel	Pinion	Wheel	
20	51	51	11	38	16	86	18.57
25	44	58	11	38	16	86	24.48
32	38	64	11	38	16	86	31.27
40	32	70	11	38	16	86	40.62
50	29	73	11	38	16	86	46.74
63	24	78	11	38	16	86	60.35
80	20	82	11	38	16	86	76.13
100	16	86	11	38	16	86	99.80
125	13	89	11	38	16	86	127.12
160	11	91	11	38	16	86	153.61

PB60							
R10	Helical		Bevel		Helical		Overall Ratio
	Pinion	Wheel	Pinion	Wheel	Pinion	Wheel	
20	66	74	11	37	17	94	20.85
25	58	82	11	37	17	94	26.30
32	49	91	11	37	17	94	34.54
40	42	98	11	37	17	94	43.40
50	37	103	11	37	17	94	51.78
63	32	108	11	37	17	94	62.77
80	26	114	11	37	17	94	81.55
100	21	119	11	37	17	94	105.39
125	18	122	11	37	17	94	126.06
160	15	125	11	37	17	94	154.99

PB70							
R10	Helical		Bevel		Helical		Overall Ratio
	Pinion	Wheel	Pinion	Wheel	Pinion	Wheel	
20	66	74	11	37	16	84	19.80
25	58	82	11	37	16	84	24.97
32	49	91	11	37	16	84	32.80
40	42	98	11	37	16	84	41.20
50	37	103	11	37	16	84	49.16
63	32	108	11	37	16	84	59.60
80	26	114	11	37	16	84	77.43
100	21	119	11	37	16	84	100.07
125	18	122	11	37	16	84	119.69
160	15	125	11	37	16	84	147.16

PB80							
R10	Helical		Bevel		Helical		Overall Ratio
	Pinion	Wheel	Pinion	Wheel	Pinion	Wheel	
20	66	74	11	36	16	85	19.49
25	58	82	11	36	16	85	24.58
32	49	91	11	36	16	85	32.29
40	42	98	11	36	16	85	40.57
50	37	103	11	36	16	85	48.40
63	32	108	11	36	16	85	58.68
80	26	114	11	36	16	85	76.23
100	21	119	11	36	16	85	98.52
125	18	122	11	36	16	85	117.84
160	15	125	11	36	16	85	144.89

RENOLD e.PM Series - PB Type - Speed Reducer - Selection Data

Nominal ratio: 20/1

Input rpm	Nominal Output rpm	Product Code Actual Ratio Overall Ratio	PB3REDXXSB***	PB4REDXXSB***	PB5REDXXSB***	PB6REDXXSB***	PB7REDXXSB***	PB8REDXXSB***
			Helical 51/51 Bevel 11/38 Helical 16/87 18.78	Helical 51/51 Bevel 11/38 Helical 16/87 18.78	Helical 51/51 Bevel 11/38 Helical 16/86 18.57	Helical 66/74 Bevel 11/37 Helical 17/94 20.85	Helical 66/74 Bevel 11/37 Helical 16/84 19.80	Helical 66/74 Bevel 11/36 Helical 16/85 19.49
1800	90.0	Actual Output Speed, rpm	95.8	95.8	96.9	86.3	90.9	92.4
		Input HP, Mechanical	11.8	15.7	32.5	51.6	99.8	128.2
		Output Torque lb.in, Mechanical	7523	10046	20490	36555	67091	84837
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1500	75.0	Actual Output Speed, rpm	79.9	79.9	80.8	71.9	75.8	77.0
		Input HP, Mechanical	9.83	13.9	28.7	44.7	85.1	112.8
		Output Torque lb.in, Mechanical	7523	10621	21685	38015	68640	89616
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1200	60.0	Actual Output Speed, rpm	63.9	63.9	64.6	57.6	60.6	61.6
		Input HP, Mechanical	7.86	11.9	24.5	36.3	69.1	96.5
		Output Torque lb.in, Mechanical	7523	11374	23145	38546	69702	95812
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1000	50.0	Actual Output Speed, rpm	53.2	53.2	53.9	48.0	50.5	51.3
		Input HP, Mechanical	6.55	10.4	20.5	30.6	58.2	82.3
		Output Torque lb.in, Mechanical	7523	11993	23234	38944	70498	98025
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
750	37.5	Actual Output Speed, rpm	39.9	39.9	40.4	36.0	37.9	38.5
		Input HP, Mechanical	4.91	8.55	15.3	23.3	44.4	62.8
		Output Torque lb.in, Mechanical	7523	13099	23145	39564	71693	99751
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
500	25.0	Actual Output Speed, rpm	26.6	26.6	26.9	24.0	25.3	25.7
		Input HP, Mechanical	3.28	5.78	10.2	15.6	29.5	42.8
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	71428	101919
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
250	12.5	Actual Output Speed, rpm	13.3	13.3	13.5	12.0	12.6	12.8
		Input HP, Mechanical	1.64	2.89	5.12	7.79	14.5	22.0
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	70011	104973
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0

Max. Standard Plug-in Shaft torque lb.in

PB35	PB40	PB50	PB60	PB70	PB80
9250	13700	23900	39400	70300	100400

For applications with combinations of high torques, overhung loads, or number of starts, consult Renold

For more information telephone us - Canada: Toll Free 800.265.9970. USA: Toll Free 800.850.8141

RENOLD e.PM Series - PB Type - Speed Reducer - Selection Data

Nominal ratio: 25/1

Input rpm	Nominal Output rpm	Product Code Actual Ratio Overall Ratio	PB3REDXXSC***	PB4REDXXSC***	PB5REDXXSC***	PB6REDXXSC***	PB7REDXXSC***	PB8REDXXSC***
			Helical 44/58 Bevel 11/38 Helical 16/87 24.76	Helical 44/58 Bevel 11/38 Helical 16/87 24.76	Helical 44/58 Bevel 11/38 Helical 16/86 24.48	Helical 58/82 Bevel 11/37 Helical 17/94 26.30	Helical 58/82 Bevel 11/37 Helical 16/84 24.97	Helical 58/82 Bevel 11/36 Helical 16/85 24.58
1800	72.0	Actual Output Speed, rpm	72.7	72.7	73.5	68.4	72.1	73.2
		Input HP, Mechanical	8.95	13.2	27.9	42.7	81.2	108.9
		Output Torque lb.in, Mechanical	7523	11108	23234	38148	68905	90944
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1500	60.0	Actual Output Speed, rpm	60.6	60.6	61.3	57.0	60.1	61.0
		Input HP, Mechanical	7.45	11.6	23.3	36.0	68.5	95.9
		Output Torque lb.in, Mechanical	7523	11728	23234	38591	69746	96078
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1200	48.0	Actual Output Speed, rpm	48.5	48.5	49.0	45.6	48.1	48.8
		Input HP, Mechanical	5.96	9.96	18.6	29.2	55.6	78.5
		Output Torque lb.in, Mechanical	7523	12568	23234	39077	70719	98335
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1000	40.0	Actual Output Speed, rpm	40.4	40.4	40.8	38.0	40.0	40.7
		Input HP, Mechanical	4.97	8.74	15.5	24.5	46.8	66.2
		Output Torque lb.in, Mechanical	7523	13232	23234	39473	71472	99441
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
750	30.0	Actual Output Speed, rpm	30.3	30.3	30.6	28.5	30.0	30.5
		Input HP, Mechanical	3.73	6.58	11.6	18.5	35.3	50.4
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	71782	101034
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
500	20.0	Actual Output Speed, rpm	20.2	20.2	20.4	19.0	20.0	20.3
		Input HP, Mechanical	2.48	4.39	7.76	12.3	23.2	34.3
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	70719	103026
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
250	10.0	Actual Output Speed, rpm	10.1	10.1	10.2	9.5	10.0	10.2
		Input HP, Mechanical	1.24	2.19	3.88	6.17	11.5	17.6
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	70277	105814
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0

Max. Standard Plug-in Shaft torque lb.in

PB35	PB40	PB50	PB60	PB70	PB80
9250	13700	23900	39400	70300	100400

For applications with combinations of high torques, overhung loads, or number of starts, consult Renold

For more information telephone us - Canada: Toll Free 800.265.9970. USA: Toll Free 800.850.8141

RENOLD e.PM Series - PB Type - Speed Reducer - Selection Data

Nominal ratio: 32/1

Input rpm	Nominal Output rpm	Product Code Actual Ratio Overall Ratio	PB3REDXXXSD***	PB4REDXXXSD***	PB5REDXXXSD***	PB6REDXXXSD***	PB7REDXXXSD***	PB8REDXXXSD***
			Helical 38/64 Bevel 11/38 Helical 16/87 31.64	Helical 38/64 Bevel 11/38 Helical 16/87 31.64	Helical 38/64 Bevel 11/38 Helical 16/86 31.27	Helical 49/91 Bevel 11/37 Helical 17/94 34.54	Helical 49/91 Bevel 11/37 Helical 16/84 32.80	Helical 49/91 Bevel 11/36 Helical 16/85 32.29
1800	56.3	Actual Output Speed, rpm	56.9	56.9	57.6	52.1	54.9	55.7
		Input HP, Mechanical	7.00	11.1	21.9	33.0	63.0	88.9
		Output Torque lb.in, Mechanical	7523	11949	23234	38767	70144	97494
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1500	46.9	Actual Output Speed, rpm	47.4	47.4	48.0	43.4	45.7	46.5
		Input HP, Mechanical	5.83	9.78	18.2	27.8	53.1	75.0
		Output Torque lb.in, Mechanical	7523	12613	23234	39166	70941	98644
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1200	37.5	Actual Output Speed, rpm	37.9	37.9	38.4	34.7	36.6	37.2
		Input HP, Mechanical	4.67	8.24	14.6	22.5	43.0	60.7
		Output Torque lb.in, Mechanical	7523	13277	23234	39653	71826	99928
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1000	31.3	Actual Output Speed, rpm	31.6	31.6	32.0	29.0	30.5	31.0
		Input HP, Mechanical	3.89	6.86	12.2	18.8	35.8	51.1
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	71826	100946
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
750	23.4	Actual Output Speed, rpm	23.7	23.7	24.0	21.7	22.9	23.2
		Input HP, Mechanical	2.92	5.15	9.11	14.1	26.5	38.9
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	70985	102406
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
500	15.6	Actual Output Speed, rpm	15.8	15.8	16.0	14.5	15.2	15.5
		Input HP, Mechanical	1.94	3.43	6.08	9.40	17.5	26.4
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	70277	104221
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
250	7.8	Actual Output Speed, rpm	7.9	7.9	8.0	7.2	7.6	7.7
		Input HP, Mechanical	0.97	1.72	3.04	4.70	9.52	13.5
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	76340	106743
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0

Max. Standard Plug-in Shaft torque lb.in

PB35	PB40	PB50	PB60	PB70	PB80
9250	13700	23900	39400	70300	100400

For applications with combinations of high torques, overhung loads, or number of starts, consult Renold

For more information telephone us - Canada: Toll Free 800.265.9970. USA: Toll Free 800.850.8141

RENOLD e.PM Series - PB Type - Speed Reducer - Selection Data

Nominal ratio: 40/1

Input rpm	Nominal Output rpm	Product Code Actual Ratio Overall Ratio	PB3REDXXXSE***	PB4REDXXXSE***	PB5REDXXXSE***	PB6REDXXXSE***	PB7REDXXXSE***	PB8REDXXXSE***
			Helical 32/70 Bevel 11/38 Helical 16/87 41.09	Helical 32/70 Bevel 11/38 Helical 16/87 41.09	Helical 32/70 Bevel 11/38 Helical 16/86 40.62	Helical 42/98 Bevel 11/37 Helical 17/94 43.40	Helical 42/98 Bevel 11/37 Helical 16/84 41.20	Helical 42/98 Bevel 11/36 Helical 16/85 40.57
1800	45.0	Actual Output Speed, rpm	43.8	43.8	44.3	41.5	43.7	44.4
		Input HP, Mechanical	5.39	9.51	16.8	26.6	50.8	71.8
		Output Torque lb.in, Mechanical	7523	13277	23234	39254	71118	98910
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1500	37.5	Actual Output Speed, rpm	36.5	36.5	36.9	34.6	36.4	37.0
		Input HP, Mechanical	4.49	7.93	14.0	22.4	42.8	60.5
		Output Torque lb.in, Mechanical	7523	13277	23234	39652	71826	99972
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1200	30.0	Actual Output Speed, rpm	29.2	29.2	29.5	27.6	29.1	29.6
		Input HP, Mechanical	3.59	6.34	11.2	18.0	34.2	48.9
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	71693	101167
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1000	25.0	Actual Output Speed, rpm	24.3	24.3	24.6	23.0	24.3	24.6
		Input HP, Mechanical	2.99	5.28	9.36	15.0	28.3	41.2
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	71339	102096
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
750	18.8	Actual Output Speed, rpm	18.3	18.3	18.5	17.3	18.2	18.5
		Input HP, Mechanical	2.25	3.96	7.02	11.2	21.0	31.3
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	70587	103468
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
500	12.5	Actual Output Speed, rpm	12.2	12.2	12.3	11.5	12.1	12.3
		Input HP, Mechanical	1.50	2.64	4.68	7.48	13.9	21.2
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	69967	105150
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
250	6.3	Actual Output Speed, rpm	6.1	6.1	6.2	5.8	6.1	6.2
		Input HP, Mechanical	0.75	1.32	2.34	3.74	7.52	10.8
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	75720	107407
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0

Max. Standard Plug-in Shaft torque lb.in

PB35	PB40	PB50	PB60	PB70	PB80
9250	13700	23900	39400	70300	100400

For applications with combinations of high torques, overhung loads, or number of starts, consult Renold

For more information telephone us - Canada: Toll Free 800.265.9970. USA: Toll Free 800.850.8141

RENOLD e.PM Series - PB Type - Speed Reducer - Selection Data

Nominal ratio: 50/1

Input rpm	Nominal Output rpm	Product Code Actual Ratio Overall Ratio	PB3REDXXSF***	PB4REDXXSF***	PB5REDXXSF***	PB6REDXXSF***	PB7REDXXSF***	PB8REDXXSF***
			Helical 29/73 Bevel 11/38 Helical 16/87 47.28	Helical 29/73 Bevel 11/38 Helical 16/87 47.28	Helical 29/73 Bevel 11/38 Helical 16/86 46.74	Helical 37/103 Bevel 11/37 Helical 17/94 51.78	Helical 37/103 Bevel 11/37 Helical 16/84 49.16	Helical 37/103 Bevel 11/36 Helical 16/85 48.40
1800	36.0	Actual Output Speed, rpm	38.1	38.1	38.5	34.8	36.6	37.2
		Input HP, Mechanical	4.68	8.27	14.6	22.5	43.0	60.8
		Output Torque lb.in, Mechanical	7523	13277	23234	39652	71826	99928
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1500	30.0	Actual Output Speed, rpm	31.7	31.7	32.1	29.0	30.5	31.0
		Input HP, Mechanical	3.90	6.89	12.2	18.8	35.8	51.2
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	71826	100946
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1200	24.0	Actual Output Speed, rpm	25.4	25.4	25.7	23.2	24.4	24.8
		Input HP, Mechanical	3.12	5.51	9.76	15.0	28.5	41.4
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	71339	102096
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1000	20.0	Actual Output Speed, rpm	21.2	21.2	21.4	19.3	20.3	20.7
		Input HP, Mechanical	2.60	4.59	8.13	12.5	23.5	34.8
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	70764	102937
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
750	15.0	Actual Output Speed, rpm	15.9	15.9	16.0	14.5	15.3	15.5
		Input HP, Mechanical	1.95	3.44	6.10	9.40	17.5	26.4
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	70277	104221
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
500	10.0	Actual Output Speed, rpm	10.6	10.6	10.7	9.7	10.2	10.3
		Input HP, Mechanical	1.30	2.30	4.07	6.27	11.7	17.9
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	70144	105769
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
250	5.0	Actual Output Speed, rpm	5.3	5.3	5.3	4.8	5.1	5.2
		Input HP, Mechanical	0.65	1.15	2.03	3.13	6.42	9.12
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	77225	107938
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0

Max. Standard Plug-in Shaft torque lb.in

PB35	PB40	PB50	PB60	PB70	PB80
9250	13700	23900	39400	70300	100400

For applications with combinations of high torques, overhung loads, or number of starts, consult Renold

RENOLD e.PM Series - PB Type - Speed Reducer - Selection Data

Nominal ratio: 63/1

Input rpm	Nominal Output rpm	Product Code Actual Ratio Overall Ratio	PB3REDXXXSG***	PB4REDXXXSG***	PB5REDXXXSG***	PB6REDXXXSG***	PB7REDXXXSG***	PB8REDXXXSG***
			Helical 24/78 Bevel 11/38 Helical 16/87 61.05	Helical 24/78 Bevel 11/38 Helical 16/87 61.05	Helical 24/78 Bevel 11/38 Helical 16/86 60.35	Helical 32/108 Bevel 11/37 Helical 17/94 62.77	Helical 32/108 Bevel 11/37 Helical 16/84 59.60	Helical 32/108 Bevel 11/36 Helical 16/85 58.68
1800	28.6	Actual Output Speed, rpm	29.5	29.5	29.8	28.7	30.2	30.7
		Input HP, Mechanical	3.63	6.40	11.3	18.6	35.5	50.7
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	71782	100990
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1500	23.8	Actual Output Speed, rpm	24.6	24.6	24.9	23.9	25.2	25.6
		Input HP, Mechanical	3.02	5.34	9.45	15.5	29.4	42.6
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	71428	101919
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1200	19.0	Actual Output Speed, rpm	19.7	19.7	19.9	19.1	20.1	20.4
		Input HP, Mechanical	2.42	4.27	7.56	12.4	23.3	34.5
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	70764	103026
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1000	15.9	Actual Output Speed, rpm	16.4	16.4	16.6	15.9	16.8	17.0
		Input HP, Mechanical	2.02	3.56	6.30	10.3	19.3	28.9
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	70454	103822
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
750	11.9	Actual Output Speed, rpm	12.3	12.3	12.4	11.9	12.6	12.8
		Input HP, Mechanical	1.51	2.67	4.72	7.76	14.4	21.9
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	70011	104973
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
500	7.9	Actual Output Speed, rpm	8.2	8.2	8.3	8.0	8.4	8.5
		Input HP, Mechanical	1.01	1.78	3.15	5.17	9.91	14.8
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	72224	106433
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
250	4.0	Actual Output Speed, rpm	4.1	4.1	4.1	4.0	4.2	4.3
		Input HP, Mechanical	0.50	0.89	1.57	2.59	5.32	7.56
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	77579	108425
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0

Max. Standard Plug-in Shaft torque lb.in

PB35	PB40	PB50	PB60	PB70	PB80
9250	13700	23900	39400	70300	100400

For applications with combinations of high torques, overhung loads, or number of starts, consult Renold

For more information telephone us - Canada: Toll Free 800.265.9970. USA: Toll Free 800.850.8141

RENOLD e.PM Series - PB Type - Speed Reducer - Selection Data

Nominal ratio: 80/1

Input rpm	Nominal Output rpm	Product Code Actual Ratio Overall Ratio	PB3REDXXSH***	PB4REDXXSH***	PB5REDXXSH***	PB6REDXXSH***	PB7REDXXSH***	PB8REDXXSH***
			Helical 20/82 Bevel 11/38 Helical 16/87 77.01	Helical 20/82 Bevel 11/38 Helical 16/87 77.01	Helical 20/82 Bevel 11/38 Helical 16/86 76.13	Helical 26/114 Bevel 11/37 Helical 17/94 81.55	Helical 26/114 Bevel 11/37 Helical 16/84 77.43	Helical 26/114 Bevel 11/36 Helical 16/85 76.23
1800	22.5	Actual Output Speed, rpm	23.4	23.4	23.6	22.1	23.2	23.6
		Input HP, Mechanical	2.88	5.08	8.99	14.3	27.0	39.5
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	71029	102318
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1500	18.8	Actual Output Speed, rpm	19.5	19.5	19.7	18.4	19.4	19.7
		Input HP, Mechanical	2.40	4.23	7.49	11.9	22.4	33.2
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	70675	103203
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1200	15.0	Actual Output Speed, rpm	15.6	15.6	15.8	14.7	15.5	15.7
		Input HP, Mechanical	1.92	3.38	5.99	9.55	17.8	26.8
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	70321	104132
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1000	12.5	Actual Output Speed, rpm	13.0	13.0	13.1	12.3	12.9	13.1
		Input HP, Mechanical	1.60	2.82	4.99	7.96	14.8	22.5
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	70056	104884
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
750	9.4	Actual Output Speed, rpm	9.7	9.7	9.9	9.2	9.7	9.8
		Input HP, Mechanical	1.20	2.11	3.74	5.97	11.2	17.0
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	70587	105946
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
500	6.3	Actual Output Speed, rpm	6.5	6.5	6.6	6.1	6.5	6.6
		Input HP, Mechanical	0.80	1.41	2.50	3.98	7.93	11.5
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	75101	107230
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
250	3.1	Actual Output Speed, rpm	3.2	3.2	3.3	3.1	3.2	3.3
		Input HP, Mechanical	0.40	0.70	1.25	1.99	4.12	5.84
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	77977	108956
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0

Max. Standard Plug-in Shaft torque lb.in

PB35	PB40	PB50	PB60	PB70	PB80
9250	13700	23900	39400	70300	100400

For applications with combinations of high torques, overhung loads, or number of starts, consult Renold

RENOLD e.PM Series - PB Type - Speed Reducer - Selection Data

Nominal ratio: 100/1

Input rpm	Nominal Output rpm	Product Code Actual Ratio Overall Ratio	PB3REDXXSJ***	PB4REDXXSJ***	PB5REDXXSJ***	PB6REDXXSJ***	PB7REDXXSJ***	PB8REDXXSJ***
			Helical 16/86 Bevel 11/38 Helical 16/87 100.96	Helical 16/86 Bevel 11/38 Helical 16/87 100.96	Helical 16/86 Bevel 11/38 Helical 16/86 99.80	Helical 21/119 Bevel 11/37 Helical 17/94 105.39	Helical 21/119 Bevel 11/37 Helical 16/84 100.07	Helical 21/119 Bevel 11/36 Helical 16/85 98.52
1800	18.0	Actual Output Speed, rpm	17.8	17.8	18.0	17.1	18.0	18.3
		Input HP, Mechanical	2.19	3.87	6.85	11.1	20.8	30.9
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	70542	103512
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1500	15.0	Actual Output Speed, rpm	14.9	14.9	15.0	14.2	15.0	15.2
		Input HP, Mechanical	1.83	3.23	5.71	9.24	17.2	26.0
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	70277	104309
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1200	12.0	Actual Output Speed, rpm	11.9	11.9	12.0	11.4	12.0	12.2
		Input HP, Mechanical	1.46	2.58	4.57	7.39	13.7	21.0
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	69967	105194
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1000	10.0	Actual Output Speed, rpm	9.9	9.9	10.0	9.5	10.0	10.2
		Input HP, Mechanical	1.22	2.15	3.81	6.16	11.5	17.6
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	70321	105858
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
750	7.5	Actual Output Speed, rpm	7.4	7.4	7.5	7.1	7.5	7.6
		Input HP, Mechanical	0.91	1.61	2.86	4.62	8.99	13.3
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	73331	106787
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
500	5.0	Actual Output Speed, rpm	5.0	5.0	5.0	4.7	5.0	5.1
		Input HP, Mechanical	0.61	1.08	1.90	3.08	6.31	8.96
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	77269	107982
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
250	2.5	Actual Output Speed, rpm	2.5	2.5	2.5	2.4	2.5	2.5
		Input HP, Mechanical	0.30	0.54	0.95	1.54	3.20	4.52
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	78331	108956
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0

Max. Standard Plug-in Shaft torque lb.in

PB35	PB40	PB50	PB60	PB70	PB80
9250	13700	23900	39400	70300	100400

For applications with combinations of high torques, overhung loads, or number of starts, consult Renold

For more information telephone us - Canada: Toll Free 800.265.9970. USA: Toll Free 800.850.8141

RENOLD e.PM Series - PB Type - Speed Reducer - Selection Data

Nominal ratio: 125/1

Input rpm	Nominal Output rpm	Product Code Actual Ratio Overall Ratio	PB3REDXXSK***	PB4REDXXSK***	PB5REDXXSK***	PB6REDXXSK***	PB7REDXXSK***	PB8REDXXSK***
			Helical 13/89 Bevel 11/38 Helical 16/87 128.60	Helical 13/89 Bevel 11/38 Helical 16/87 128.60	Helical 13/89 Bevel 11/38 Helical 16/86 127.12	Helical 18/122 Bevel 11/37 Helical 17/94 126.06	Helical 18/122 Bevel 11/37 Helical 16/84 119.69	Helical 18/122 Bevel 11/36 Helical 16/85 117.84
1800	14.4	Actual Output Speed, rpm	14.0	14.0	14.2	14.3	15.0	15.3
		Input HP, Mechanical	1.72	3.04	5.38	9.27	17.3	26.1
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	70277	104265
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1500	12.0	Actual Output Speed, rpm	11.7	11.7	11.8	11.9	12.5	12.7
		Input HP, Mechanical	1.44	2.53	4.48	7.73	14.4	21.9
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	70011	105017
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1200	9.6	Actual Output Speed, rpm	9.3	9.3	9.4	9.5	10.0	10.2
		Input HP, Mechanical	1.15	2.03	3.59	6.18	11.5	17.6
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	70277	105814
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1000	8.0	Actual Output Speed, rpm	7.8	7.8	7.9	7.9	8.4	8.5
		Input HP, Mechanical	0.96	1.69	2.99	5.15	9.88	14.8
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	72268	106433
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
750	6.0	Actual Output Speed, rpm	5.8	5.8	5.9	5.9	6.3	6.4
		Input HP, Mechanical	0.72	1.27	2.24	3.86	7.73	11.2
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	75411	107318
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
500	4.0	Actual Output Speed, rpm	3.9	3.9	3.9	4.0	4.2	4.2
		Input HP, Mechanical	0.48	0.84	1.49	2.58	5.30	7.52
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	77579	108425
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
250	2.0	Actual Output Speed, rpm	1.9	1.9	2.0	2.0	2.1	2.1
		Input HP, Mechanical	0.24	0.42	0.75	1.29	2.68	3.78
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	78553	108956
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0

Max. Standard Plug-in Shaft torque lb.in

PB35	PB40	PB50	PB60	PB70	PB80
9250	13700	23900	39400	70300	100400

For applications with combinations of high torques, overhung loads, or number of starts, consult Renold

For more information telephone us - Canada: Toll Free 800.265.9970. USA: Toll Free 800.850.8141

RENOLD e.PM Series - PB Type - Speed Reducer - Selection Data

Nominal ratio: 160/1

Input rpm	Nominal Output rpm	Product Code Actual Ratio Overall Ratio	PB3REDXXXSL***	PB4REDXXXSL***	PB5REDXXXSL***	PB6REDXXXSL***	PB7REDXXXSL***	PB8REDXXXSL***
			Helical 11/91 Bevel 11/38 Helical 16/87 155.40	Helical 11/91 Bevel 11/38 Helical 16/87 155.40	Helical 11/91 Bevel 11/38 Helical 16/86 153.61	Helical 15/125 Bevel 11/37 Helical 17/94 154.99	Helical 15/125 Bevel 11/37 Helical 16/84 147.16	Helical 15/125 Bevel 11/36 Helical 16/85 144.89
1800	11.3	Actual Output Speed, rpm	11.6	11.6	11.7	11.6	12.2	12.4
		Input HP, Mechanical	1.43	2.52	4.45	7.54	14.0	21.4
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	69967	105106
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1500	9.4	Actual Output Speed, rpm	9.7	9.7	9.8	9.7	10.2	10.4
		Input HP, Mechanical	1.19	2.10	3.71	6.28	11.7	17.9
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	70144	105769
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1200	7.5	Actual Output Speed, rpm	7.7	7.7	7.8	7.7	8.2	8.3
		Input HP, Mechanical	0.95	1.68	2.97	5.03	9.67	14.4
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	72490	106522
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
1000	6.3	Actual Output Speed, rpm	6.4	6.4	6.5	6.5	6.8	6.9
		Input HP, Mechanical	0.79	1.40	2.47	4.19	8.29	12.1
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	74570	107097
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
750	4.7	Actual Output Speed, rpm	4.8	4.8	4.9	4.8	5.1	5.2
		Input HP, Mechanical	0.59	1.05	1.86	3.14	6.44	9.14
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	77225	107894
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
500	3.1	Actual Output Speed, rpm	3.2	3.2	3.3	3.2	3.4	3.5
		Input HP, Mechanical	0.40	0.70	1.24	2.09	4.33	6.15
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	77889	108912
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0
250	1.6	Actual Output Speed, rpm	1.6	1.6	1.6	1.6	1.7	1.7
		Input HP, Mechanical	0.20	0.35	0.62	1.05	2.19	3.08
		Output Torque lb.in, Mechanical	7523	13277	23234	39697	78818	108956
		Efficiency %	97.0	97.0	97.0	97.0	97.0	97.0

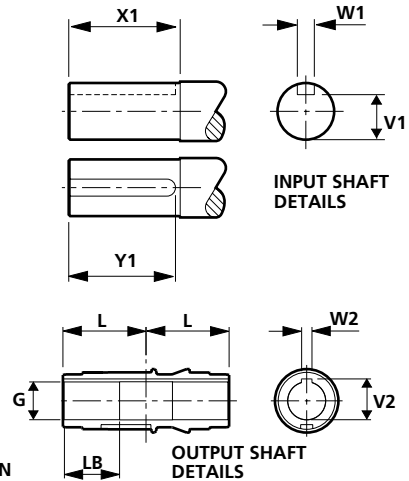
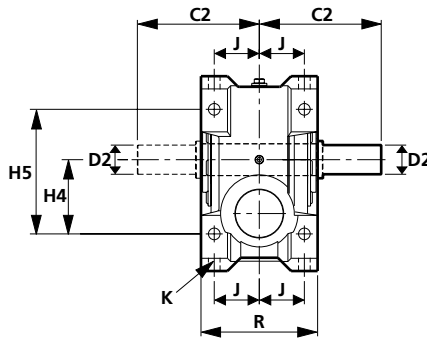
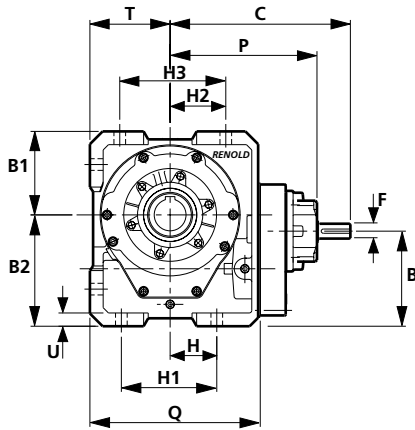
Max. Standard Plug-in Shaft torque lb.in

PB35	PB40	PB50	PB60	PB70	PB80
9250	13700	23900	39400	70300	100400

For applications with combinations of high torques, overhung loads, or number of starts, consult Renold

For more information telephone us - Canada: Toll Free 800.265.9970. USA: Toll Free 800.850.8141

RENOLD e.PM Series - PB Type - Speed Reducer Dimensions



UNIT SHOWN WITH PLUG-IN SINGLE EXTENSION OUTPUT SHAFT

SHAFTS CAN BE PLUGGED-IN FROM EITHER SIDE OF THE UNIT

e.PM Series - PB Type - Speed Reducer

UNIT REF	B	B1	B2	C	H	H1	H2	H3	H4	H5
PB35	6.38	5.51	7.09	12.36	2.36	5.31	3.35	6.30	4.72	8.07
PB40	7.06	6.20	8.27	13.39	3.46	7.09	4.13	7.87	5.51	9.25
PB50	7.24	7.68	9.45	14.17	3.46	7.09	4.92	9.06	6.30	11.02
PB60	9.43	8.86	11.02	18.13	4.72	9.25	5.71	10.63	7.48	13.39
PB70	10.60	10.06	13.19	18.72	5.51	11.42	6.30	12.20	9.45	16.22
PB80	10.98	11.02	14.57	19.67	5.51	12.20	6.69	13.39	10.08	18.11

UNIT REF	J	K	P	Q	R	T	U
PB35	2.95	0.67	9.88	10.79	7.32	5.12	0.98
PB40	3.35	0.85	10.91	12.64	8.66	5.94	0.98
PB50	3.94	0.85	11.69	14.37	9.84	6.89	1.18
PB60	4.92	1.00	14.02	16.46	12.01	7.87	1.38
PB70	5.91	1.00	14.61	18.03	14.17	8.86	1.38
PB80	5.91	1.00	15.55	19.80	14.17	9.69	1.38

Input Shaft

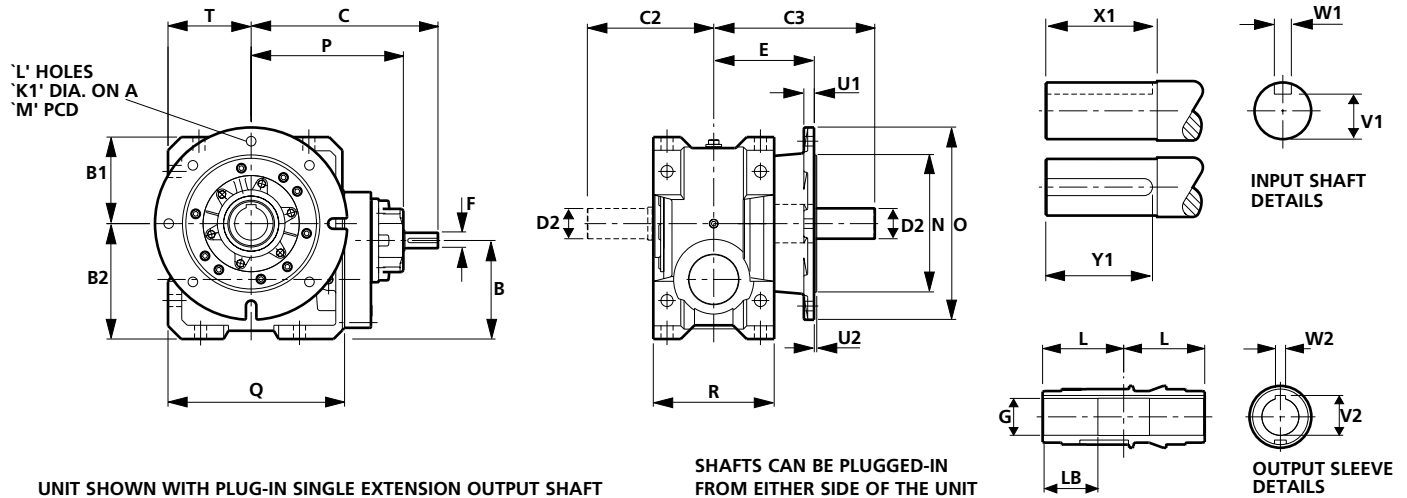
UNIT REF	F	V1	W1	X1	Y1
	max.	min.	min.		
PB35	1.1250	1.1245	0.980	0.250	2.38
PB40	1.1250	1.1245	0.980	0.250	2.38
PB50	1.1250	1.1245	0.980	0.250	2.38
PB60	1.7500	1.7490	1.536	0.375	4.00
PB70	1.7500	1.7490	1.536	0.375	4.00
PB80	1.7500	1.7490	1.536	0.375	4.00

UNIT REF	C2	D2
PB35	7.50	1.5000
PB40	8.75	1.8750
PB50	10.00	2.2500
PB60	11.63	2.6250
PB70	14.00	3.3750
PB80	14.50	3.6250

Output Sleeve - Hollow Bore

UNIT REF	G	L	LB	V2	W2
	max.	min.		min.	max.
PB35	1.5768	1.5758	4.06	2.56	1.70
PB40	1.9705	1.9695	4.33	2.95	2.12
PB50	2.3646	2.3634	5.12	3.74	2.54
PB60	2.7583	2.7571	6.10	5.12	2.95
PB70	3.5461	3.5447	6.85	4.92	3.76
PB80	3.9398	3.9384	6.85	4.53	4.19

RENOLD e.PM Series - PB Type - Speed Reducer Dimensions



UNIT SHOWN WITH PLUG-IN SINGLE EXTENSION OUTPUT SHAFT

SHAFTS CAN BE PLUGGED-IN FROM EITHER SIDE OF THE UNIT

e.PM Series - PB Type - Speed Reducer - (Horizontal Flange Mounting)

UNIT REF	B	B1	B2	C	E	K1	M
PB35	6.38	5.51	7.09	12.36	6.06	0.53	10.43
PB40	7.06	6.20	8.27	13.39	7.20	0.69	11.81
PB50	7.24	7.68	9.45	14.17	7.76	0.69	13.78
PB60	9.43	8.86	11.02	18.13	8.46	0.69	15.75
PB70	10.60	10.06	13.19	18.72	9.76	0.69	19.69
PB80	10.98	11.02	14.57	19.67	9.76	0.69	19.69

UNIT REF	N	O	P	Q	R	T	U1	U2
	max.	min.						
PB35	9.055	9.052	11.81	9.88	10.79	7.32	5.12	0.51
PB40	9.843	9.840	13.78	10.91	12.64	8.66	5.94	0.75
PB50	11.811	11.808	15.75	11.69	14.37	9.84	6.89	0.75
PB60	13.780	13.776	17.72	14.02	16.46	12.01	7.87	0.75
PB70	17.717	17.713	21.65	14.61	18.03	14.17	8.86	0.94
PB80	17.717	17.713	21.65	15.55	19.80	14.17	9.69	0.94

Input Shaft

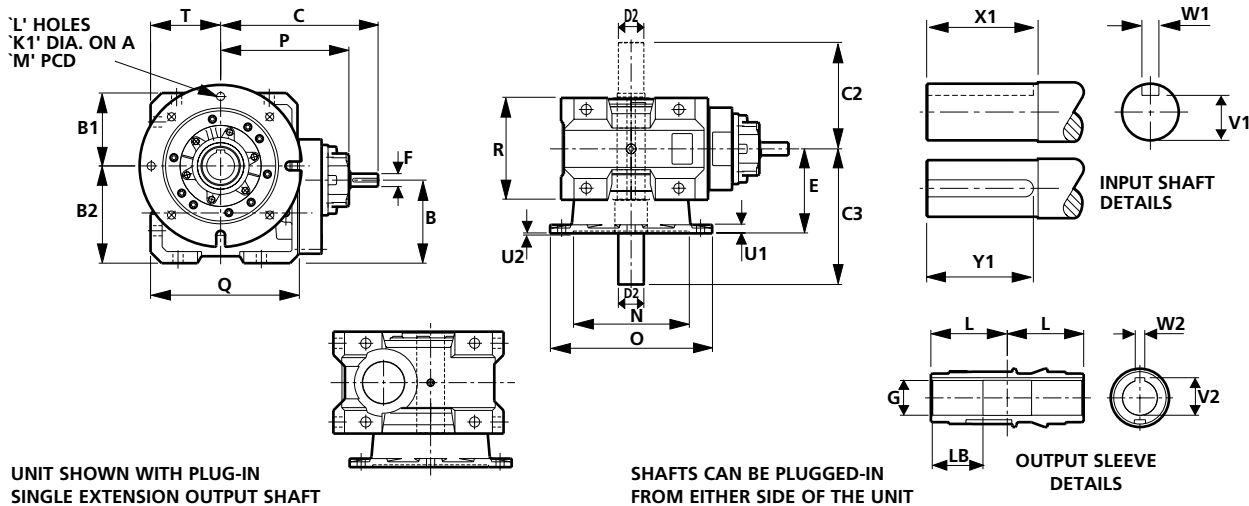
UNIT REF	F	V1	W1	X1	Y1
	max.	min.	min.		
PB35	1.1250	1.1245	0.980	0.250	2.38
PB40	1.1250	1.1245	0.980	0.250	2.38
PB50	1.1250	1.1245	0.980	0.250	2.38
PB60	1.7500	1.7490	1.536	0.375	4.00
PB70	1.7500	1.7490	1.536	0.375	4.00
PB80	1.7500	1.7490	1.536	0.375	4.00

UNIT REF	C2	C3	D2
PB35	7.50	9.18	1.5000
PB40	8.75	11.18	1.8750
PB50	10.00	12.25	2.2500
PB60	11.63	13.63	2.6250
PB70	14.00	16.50	3.3750
PB80	14.50	17.00	3.6250

Output Sleeve - Hollow Bore

UNIT REF	G	L	LB	V2	W2
	max.	min.		min.	max.
PB35	1.5768	1.5758	4.06	1.70	0.4733
PB40	1.9705	1.9695	4.33	2.12	0.5520
PB50	2.3646	2.3634	5.12	2.54	0.7095
PB60	2.7583	2.7571	6.10	2.95	0.7884
PB70	3.5461	3.5447	6.85	3.76	0.9853
PB80	3.9398	3.9384	6.85	4.19	1.1034

RENOLD e.PM Series - PB Type - Speed Reducer Dimensions



e.PM Series - PB Type - Speed Reducer - (Vertical Skirt)

UNIT REF	B	B1	B2	C	E	K1	M
PB35	6.38	5.51	7.09	12.36	6.06	0.53	10.43
PB40	7.06	6.20	8.27	13.39	7.20	0.69	11.81
PB50	7.24	7.68	9.45	14.17	7.76	0.69	13.78
PB60	9.43	8.86	11.02	18.13	8.46	0.69	15.75
PB70	10.60	10.06	13.19	18.72	9.76	0.69	19.69
PB80	10.98	11.02	14.57	19.67	9.76	0.69	19.69

UNIT REF	N		O	P	Q	R	T	U1	U2
	max.	min.							
PB35	9.058	9.055	11.81	9.88	10.79	7.32	5.12	0.51	0.20
PB40	9.845	9.843	13.78	10.91	12.64	8.66	5.94	0.75	0.24
PB50	11.814	11.811	15.75	11.69	14.37	9.84	6.89	0.75	0.24
PB60	13.783	13.780	17.72	14.02	16.46	12.01	7.87	0.75	0.24
PB70	17.720	17.717	21.65	14.61	18.03	14.17	8.86	0.94	0.24
PB80	17.720	17.717	21.65	15.55	19.80	14.17	9.69	0.94	0.24

Input Shaft

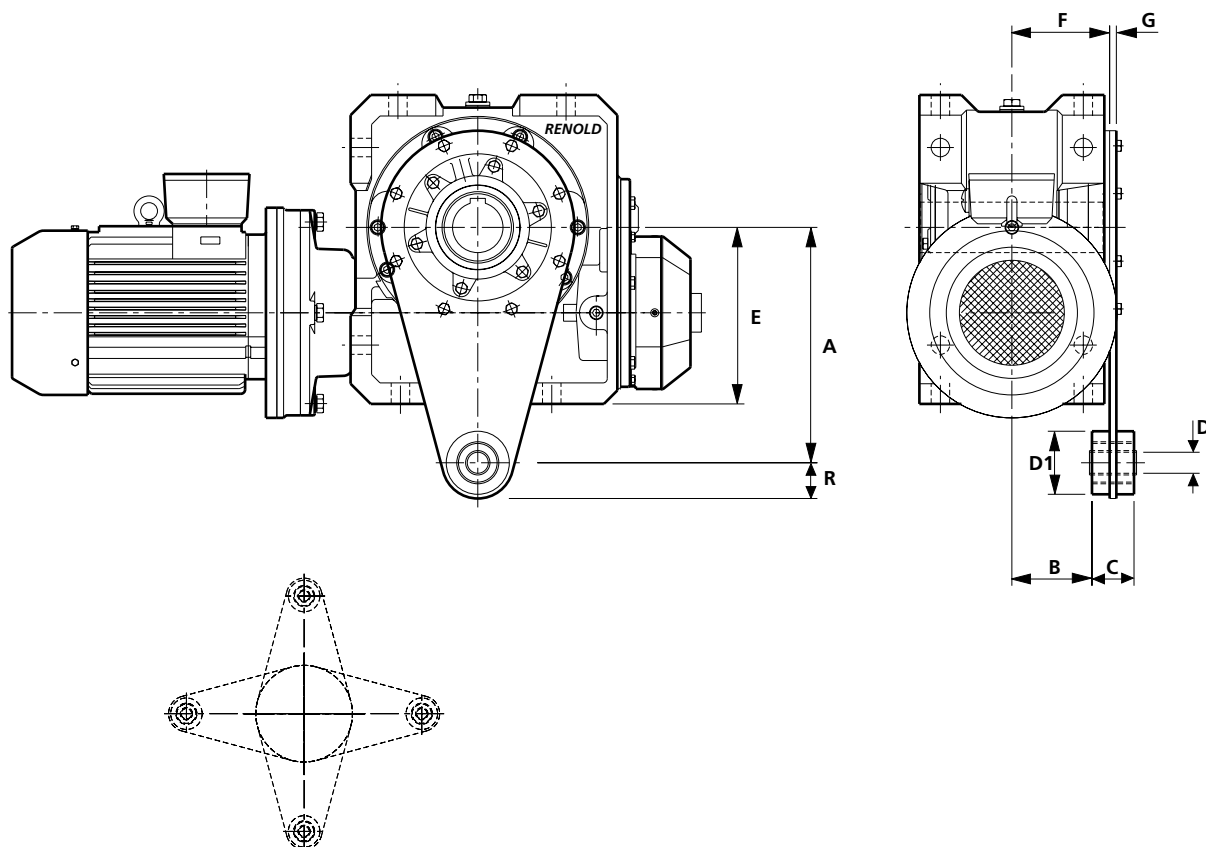
UNIT REF	F		V1 min.	W1	X1	Y1
	max.	min.				
PB35	1.1250	1.1245	0.980	0.250	2.38	2.25
PB40	1.1250	1.1245	0.980	0.250	2.38	2.25
PB50	1.1250	1.1245	0.980	0.250	2.38	2.25
PB60	1.7500	1.7490	1.536	0.375	4.00	3.75
PB70	1.7500	1.7490	1.536	0.375	4.00	3.75
PB80	1.7500	1.7490	1.536	0.375	4.00	3.75

UNIT REF	C2	C3	D2
PB35	7.50	9.18	1.5000
PB40	8.75	11.18	1.8750
PB50	10.00	12.25	2.2500
PB60	11.63	13.63	2.6250
PB70	14.00	16.50	3.3750
PB80	14.50	17.00	3.6250

Output Sleeve - Hollow Bore

UNIT REF	G		L	LB	V2 min.	W2	
	max.	min.				max.	min.
PB35	1.5768	1.5758	4.06	2.56	1.70	0.4733	0.4716
PB40	1.9705	1.9695	4.33	2.95	2.12	0.5520	0.5504
PB50	2.3646	2.3634	5.12	3.74	2.54	0.7095	0.7078
PB60	2.7583	2.7571	6.10	5.12	2.95	0.7884	0.7864
PB70	3.5461	3.5447	6.85	4.92	3.76	0.9853	0.9832
PB80	3.9398	3.9384	6.85	4.53	4.19	1.1034	1.1013

RENOLD e.PM Series - PB Type - Torque Restraint Bracket

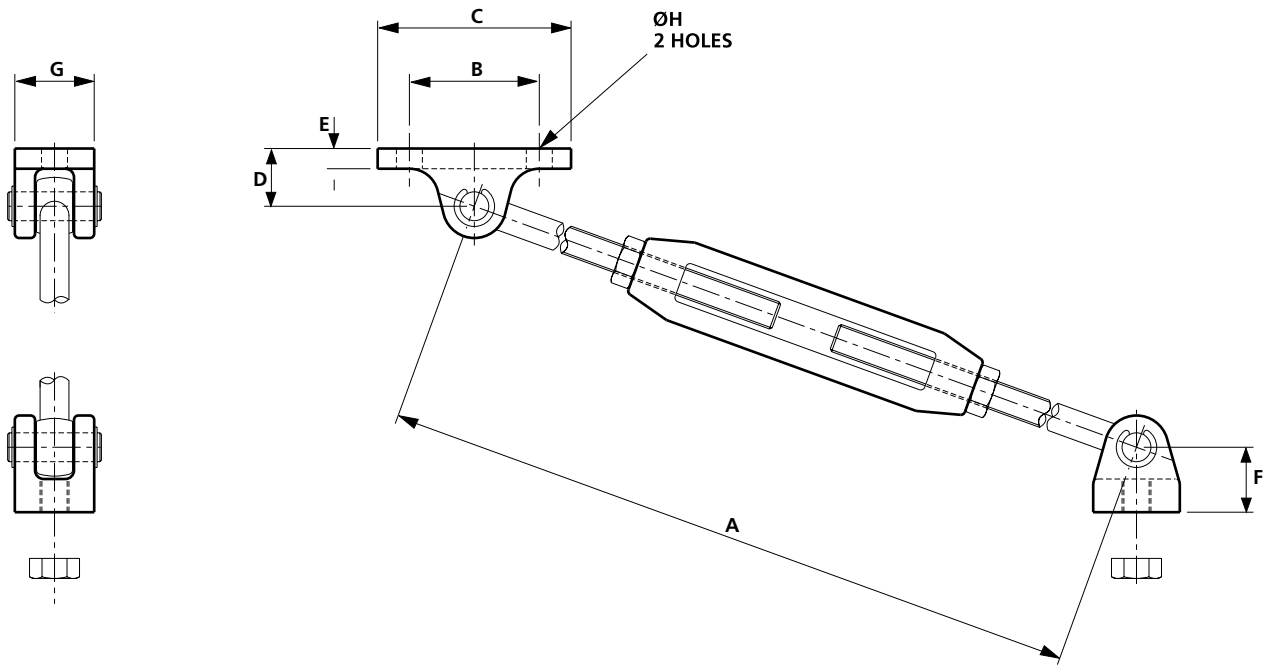


BRACKET CAN BE MOUNTED IN ANY OF 4 POSITIONS SHOWN
- ON EITHER SIDE OF GEAR UNIT

Torque Restraint Bracket

UNIT SIZE	A	B	C	D	D1	E	F	G	R
PB35	9.45	2.67	2.76	0.79	2.76	7.09	3.82	0.47	1.77
PB40	10.63	4.02	2.76	0.79	2.76	8.25	5.63	0.47	1.77
PB50	11.81	4.57	2.76	0.79	2.76	9.50	6.18	0.47	1.77
PB60	14.17	5.30	2.60	1.18	3.15	11.00	6.89	0.60	2.05
PB70	16.34	6.28	2.60	1.18	3.15	12.75	7.87	0.60	2.05
PB80	17.72	6.28	2.60	1.18	3.15	13.75	7.87	0.60	2.05

RENOLD e.PM Series - PB Type - Torque Arm Assembly



Torque Arm Assembly

UNIT SIZE	A	B	C	D	E	F	G	H
PB35	23.5	2.95	4.3	1.38	0.5	1.57	1.6	0.55
PB40	23.5	3.54	5.2	1.57	0.6	1.77	2.0	0.709
PB50	29.5	3.54	5.2	1.57	0.6	1.77	2.0	0.709
PB60	29.5	4.53	7.0	2.24	0.8	2.17	3.0	0.866
PB70	35.5	4.53	7.0	2.24	0.8	2.17	3.0	0.866
PB80	35.5	4.53	7.0	2.24	0.8	2.17	3.0	0.866

RENOLD e.PM Series - Installation, Maintenance & Storage

Initial Running

All units are supplied without oil.

First Filling

When installed and before running, the unit should be filled with new lubricant to the correct level as follows.

With the gear stationary, remove the filler and breather plug and oil level plug. Fill until the lubricant level is visible at the indicator (if fitted) or until lubricant overflows from oil level aperture.

Replace and secure both plugs. Care should be taken to avoid overfilling, as this may cause subsequent leakage.

Starting Up

All units have been subjected to a short test before despatch to the customer but it takes many hours running under full load for the gear to attain its highest efficiency. The gear may if necessary be put to work immediately on full load, but if circumstances permit it is better for the ultimate life of the gear to run it in under gradually increasing load attaining the full load after about 20 to 40 hours. Reasonable precautions should however, be taken to avoid overloads in the early stage of running. Temperature rise on the initial run will be higher than that eventually attained after the gear is fully run in.

Routine Maintenance

The oil level in the unit should be regularly maintained, and should be checked at least once a month. To avoid false readings, examination of the oil level should be made with the gear stationary, and to maintain free ventilation of the unit under all conditions, the breather hole in the filler plug should be kept clear at all times. In the case of double reduction units, ensure that maintenance requirements given above are applied to both 1st and 2nd stage reduction gears.

Changing Oil

The oil should be changed completely at intervals depending upon the working conditions.

Grease Lubrication of Bearings

Where this feature is included, the bearing caps are fitted with a grease nipple or stauffer lubricator, which should be used to lubricate the bearings.

When mounted with input shaft vertical, the top bearing requires grease lubrication. Standard units, therefore, need to be modified by the inclusion of a grease nipple and nylos ring adjacent to the top bearing. Customers must advise us of this requirement when placing enquiries and orders.

Couplings and Bedplates

All couplings should be carefully fitted and shafts accurately aligned. To prevent damage to the bearings, coupling half-bodies should not be hammered onto shafts.

Gear units and other drive components should be rigidly mounted on firm foundations to prevent movement and vibration which may affect the alignment of the shafts. Suitable bedplates can be supplied if required.

Abnormal Ambient Temperatures

If the gear unit is to be operated under extremes of temperature or humidity, special oils may be required and recommendations will be made on request.

Storage

All gear units stored or left inactive for long periods should be adequately protected, particularly those on exposed sites and those operating in corrosive atmospheres.

The following precautions will generally be adequate, but advice on the protection of particular units will be given, if required.

If empty of oil: spray the gear case interior with rust preventative oil; compatible with lubricant recommended for service conditions.

If filled with oil: operate at full speed once per month for not less than 10 minutes to ensure liberal coating of all internal parts with oil. For indefinite storage: completely fill unit with oil ensuring complete submersion of all internal components and shafts should be occasionally turned by hand. When unit is returned to service, drain and refill with new oil to correct level.

External shaft extensions and oil seals can be protected by the use of grease impregnated tape. Full long term storage specification details can be obtained from Renold on request.

Spare Parts

Information relating to spare parts is available on request.

RENOLD e.PM Series - PB Type - Lubrication Information

Oil Lubrication Helical Bevel Gears

The correct fill of oil for the unit size and mounting position can be found in either the appropriate catalogue or the Installation and Maintenance Guide. Only good quality oils should be used, such as those listed below, as the use of inferior or unsuitable products may cause rapid wear and possible damage to the gearbox.

Oils with three viscosity ranges (Light, medium and heavy) are listed below, the correct choice depends on the application operating speed, load and temperature. Temperature and speed can often be the main factor as it affects the operating viscosity. If the unit runs below the catalogue rating and operates at a temperature below 60°C then a light grade oil should be used. Operating at catalogue rating with temperatures up to 100°C require medium grade, with higher temperatures and loading heavy grade oils should be used.

If the unit is operating with gear speeds below 2.5 m/s (500ft/min) then the next higher grade should be used. Using too heavy a grade than required will result in reduced efficiency, too light a grade will result in premature wear, if in doubt ask Renold Gears Technical Department.

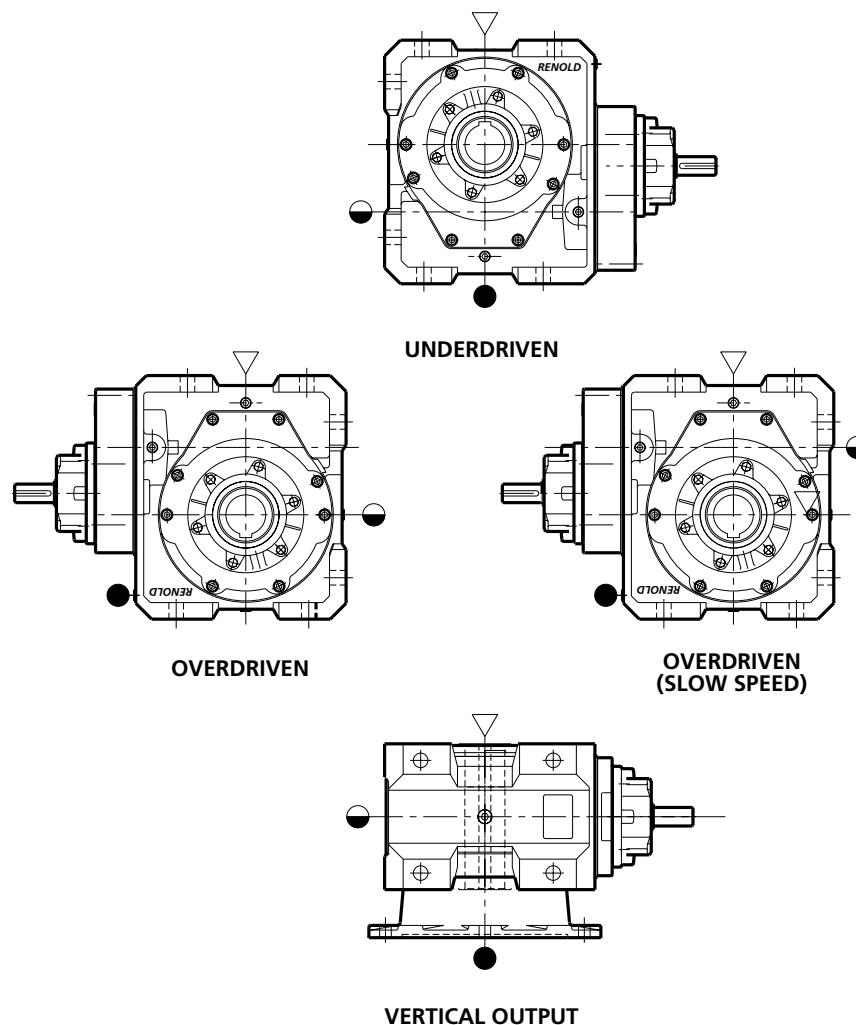
Which Oil to Select

There are three main oils Mineral, Synthetic - Polyalphaolefin and Synthetic (Polyglycol). Mineral oils tend to be lower cost, have a shorter life and are less efficient. Synthetic - Polyalphaolefin can operate over a higher temperature range, are more efficient, give higher ratings and have a longer life and as such are preferred. The use of Synthetic - Polyglycol are not recommended without prior discussion with Renold as special paints and seals are required. If necessary a list of recommended food grade oils is available on request.

Mineral Oil	Light		Medium		Heavy	
		Temp °C		Temp °C		Temp °C
Mobil Gear	630	-13 to 90	632	-13 to 90	634	-1 to 90
Mobil Gear XMP	220	-13 to 100	320	-13 to 100	460	-1 to 100
Castrol Optimol BP	220	-21 to 120	320	-21 to 120	460	-6 to 120
Castrol MoLub - Alloy EP	220	-24 to 120	320	-18 to 120	460	-15 to 120
Shell Omala F	220	-9 to 120	320	-9 to 120	460	-9 to 120
Shell Omala	220	-9 to 120	320	-9 to 120	460	-9 to 120
Esso Spartan EP	220	-30 to 120	320	-27 to 120	460	-18 to 120
Petro - Canada Harmony	220	-18 to 120	320	-12 to 120	460	-9 to 120
Petro - Canada Ultima EP	220	-30 to 80	320	-27 to 80	460	-18 to 80

Synthetic (Polyalphaolefin)	Light		Medium		Heavy	
		Temp °C		Temp °C		Temp °C
Mobil Gear SHC	630	-42 to 160	632	-42 to 160	634	-39 to 160
Mobil Gear SHC XMP	220	-42 to 160	632	-42 to 160	460	-39 to 160
Castrol Alpha EP	220	-42 to 150	320	-36 to 150	460	-20 to 150
Shell Omala HD	220	-40 to 150	320	-40 to 150	460	-40 to 150
Esso Spartan Synthetic EP	220	-27 to 120	320	-27 to 120	460	-18 to 120
Klubersynth EG 4	220	-30 to 160	320	-30 to 160	460	-25 to 160
Petro - Canada Ultima Synthetic	220	-42 to 160	220	-42 to 160	460	-39 to 160

RENOLD e.PM Series - PB Type - Oil Capacities



▽ FILLER/BREATHING PLUG ○ OIL LEVEL PLUG ⊗ DRAIN PLUG

e.PM Series PB Helical/Bevel/Helical Oil Quantities

UNIT REF	Underdriven		Overdriven				Vertical Output VA - VQ		- Mounting pos'n VS - VY & V1 - V7	
	Litres	U.S. Pints	Normal Speed Litres	U.S. Pints	Slow Speed Litres	U.S. Pints	Litres	U.S. Pints	Litres	U.S. Pints
PB35	1.2	2.5	2.6	5.5	4.3	9.1	1.5	3.2	3.0	6.3
PB40	1.7	3.6	3.6	7.6	5.6	12	2.5	5.3	4.2	8.9
PB50	2.8	5.9	6.6	14	11.0	23	5.2	11	7.7	16
PB60	5.1	11	10.2	22	18.0	38	6.6	14	12.8	27
PB70	7.5	16	14.9	31	26.0	55	12.0	25	17.7	37
PB80	9.1	19	17.6	37	30.0	63	14.0	30	22.5	48

Nominal oil quantity - May vary with ratio

RENOLD e.PM Series - PB Type - Unit Weights

e.PM Series PB Single Reduction Weights (kg)

PB35	Foot Mounting			Flange Mounting			Vertical Output (Dry Well)		
	Hollow Shaft	Single Extension	Double Extension	Hollow Shaft	Single Extension	Double Extension	Hollow Shaft	Single Extension	Double Extension
PB35-Speed Reducer	144	150	152	156	164	165	155	163	164
Motor Ready Units - weights do not include motor									
PB35 + 143/145TC	150	156	158	162	170	171	161	169	171
PB35 + 182/184TC	157	164	165	169	177	179	169	177	178
PB35 + 213/215TC	157	163	165	169	177	178	168	176	178

PB40	Foot Mounting			Flange Mounting			Vertical Output (Dry Well)		
	Hollow Shaft	Single Extension	Double Extension	Hollow Shaft	Single Extension	Double Extension	Hollow Shaft	Single Extension	Double Extension
PB40-Speed Reducer	190	202	205	215	229	232	214	228	232
Motor Ready Units - weights do not include motor									
PB40 + 143/145TC	196	208	222	221	235	239	220	234	238
PB40 + 182/184TC	204	215	230	228	243	246	227	242	245
PB40 + 213/215TC	203	215	230	228	243	246	227	242	245
PB40 + 254/256TC	203	215	229	228	242	245	227	241	244

PB50	Foot Mounting			Flange Mounting			Vertical Output (Dry Well)		
	Hollow Shaft	Single Extension	Double Extension	Hollow Shaft	Single Extension	Double Extension	Hollow Shaft	Single Extension	Double Extension
PB50-Speed Reducer	279	299	303	309	332	337	308	331	336
Motor Ready Units - weights do not include motor									
PB50 + 143/145TC	285	305	310	315	338	343	314	337	342
PB50 + 182/184TC	293	312	317	323	346	351	321	344	349
PB50 + 213/215TC	292	312	317	322	346	351	321	344	349
PB50 + 254/256TC	292	311	316	322	345	350	321	344	349

RENOLD e.PM Series - PB Type - Unit Weights

e.PM Series PB Single Reduction Weights (kg)

PB60	Foot Mounting			Flange Mounting			Vertical Output (Dry Well)		
	Hollow Shaft	Single Extension	Double Extension	Hollow Shaft	Single Extension	Double Extension	Hollow Shaft	Single Extension	Double Extension
PB60-Speed Reducer	457	488	496	493	529	537	492	527	535
Motor Ready Units - weights do not include motor									
PB60 + 182/184TC	482	514	522	519	555	563	518	553	561
PB60 + 213/215TC	482	513	521	519	554	562	517	553	561
PB60 + 254/256TC	481	513	521	518	554	562	517	552	560
PB60 + 284/286TC	498	529	537	535	570	578	533	569	577
PB60 + 324/326TC	523	554	562	559	595	603	558	593	601

PB70	Foot Mounting			Flange Mounting			Vertical Output (Dry Well)		
	Hollow Shaft	Single Extension	Double Extension	Hollow Shaft	Single Extension	Double Extension	Hollow Shaft	Single Extension	Double Extension
PB70-Speed Reducer	647	704	721	705	771	788	702	769	785
Motor Ready Units - weights do not include motor									
PB70 + 182/184TC	673	730	747	731	797	814	728	794	811
PB70 + 213/215TC	673	730	746	730	797	813	728	794	811
PB70 + 254/256TC	672	729	746	730	796	813	727	793	810
PB70 + 284/286TC	688	746	762	746	812	829	743	810	827
PB70 + 324/326TC	713	770	787	771	837	854	768	835	851
PB70 + 364/365TC	846	903	920	904	970	987	901	968	984
PB70 + 405TC	842	899	916	899	966	982	897	963	980
PB70 + 444/445TC	903	960	977	960	1027	1044	958	1024	1041

PB80	Foot Mounting			Flange Mounting			Vertical Output (Dry Well)		
	Hollow Shaft	Single Extension	Double Extension	Hollow Shaft	Single Extension	Double Extension	Hollow Shaft	Single Extension	Double Extension
PB80-Speed Reducer	795	853	869	862	943	964	859	941	962
Motor Ready Units - weights do not include motor									
PB80 + 182/184TC	821	878	895	888	969	990	885	967	988
PB80 + 213/215TC	821	878	895	887	969	990	885	966	987
PB80 + 254/256TC	820	877	894	887	968	989	884	966	987
PB80 + 284/286TC	837	894	910	903	984	1005	901	982	1003
PB80 + 324/326TC	861	919	935	928	1009	1030	925	1007	1028
PB80 + 364/365TC	995	1052	1068	1061	1142	1163	1059	1140	1161
PB80 + 405TC	990	1047	1064	1056	1138	1159	1054	1135	1156
PB80 + 444/445TC	1051	1108	1125	1118	1199	1220	1115	1196	1217

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