



Vision Statement

Our vision is to be the leader in every market we serve, to the benefit of our customers and our shareholders.

Mission Statement

Profitable growth through superior customer service, innovation, quality and commitment to customer satisfaction.

Core Values

- 1. We respect each other, our community and the environment.
- 2. We are ethical and honest in all of our business dealings.
- 3. We are diligent in protecting the safety of our people.
- We are disciplined and personally accountable for our decisions, actions, attitude and results.
- 5. We have an entrepreneur's mindset, driving innovation and striving for excellence in all we do.
- 6. We openly communicate among all levels of the company.
- 7. We believe in working as a team toward common objectives with a can-do attitude.

Contents



WPT Power is constantly striving to improve and develop the product range. For this reason, WPT Power reserves the right to make changes in any product information without prior notice. Every effort has been made to ensure that the dimensions, performance, specifications, etc. are correct at the time of printing. For more information, please contact your authorized WPT Power distributor or visit: WPTpower.com.

Pilotless™ Mechanical Power Take-Off



Industrial engine applications are more demanding than ever. Customers need a solution rugged enough to meet those demands and WPT Power has engineered that solution with the WPT Pilotless[™] Mechanical Power Take-Off. This design eliminates



the pilot bearing and increases side load capacity over previous generations of PTO products. The WPT Pilotless[™] Mechanical Power Take-Off will optimize your cost by reducing inventory, increasing uptime and engine life, and simplify installation time.

- Dual spherical roller main bearing design.
- Time savings for assembly since no pilot bearing alignment required.
- Most sizes fit within envelope of previous design.
- No direct loading to engine crankshaft increases life of engine main bearings.
- No installation related engine thrust bearing damage.
- 100% equipped with ball-bearing engagement collars.
- Increased side load capacity.

Model	SAE			Output Shaft		С	D	Weight	# of
Widdei	Housings		В	Dia	Keyway	Ŭ	Ŭ	lb (kg)	Teeth
WPL 106	5, 4	8 7/16 (214.6)	2 1/8 (55.4)	1.438 (36.53)	3/8 x 3/16	2 7/16 (62.7)	4 7/16 (112.8)	72 (33)	42
WPL 107	5, 4	8 7/16 (214.6)	2 1/8 (55.4)	1.438 (36.53)	3/8 x 3/16	2 7/16 (62.7)	4 7/16 (112.8)	75 (134)	47
WPL 108	4	8 3/8 (213.4)	4 5/8 (118.4)	1.750 (44.45)	1/2 x 1/4	3 (76.7)	4 13/16 (122.9)	88 (40)	51
WPL 110	4, 3	9 3/4 (248.4)	3 15/16 (100.1)	2.250 (57.15)	5/8 x 5/16	3 1/2 (89.4)	5 3/4 (146.1)	125 (57)	63
WPL 111	3	11 7/16 (291.7)	4 1/16 (102.6)	2.250 (57.15)	5/8 x 5/16	11 1/8 (282.7)	5 3/4 (146.1)	162 (73)	72
WPL 211	3, 2	12 9/16 (320.0)	3 5/8 (92.5)	2.500 (63.50)	5/8 x 5/16	4 1/4 (108.0)	6 3/4 (171.5)	218 (99)	72
WPL 3111	3, 2	15 3/4 (400.8)	8 (204.0)	3.500 (88.90)	7/8 x 7/16	3 11/16 (94.2)	7 3/4 (196.9)	343 (156)	72
WPL 114	1	13 5/8 (346.2)	5 1/8 (130.6)	3.000 (76.20)	3/4 x 3/8	3 3/4 (95.2)	6 3/4 (171.5)	275 (125)	59
WPL 2141	1, 0	16 3/16 (411.5)	7 1/2 (191.8)	3.500 (88.90)	7/8 x 7/16	4 5/16 (110.2)	7 3/4 (196.9)	407 (185)	59
WPL 3141	1, 0	17 1/16 (433.1)	7 1/2 (190.5)	3.938 (100.01)	1 x 1/2	3 7/8 (99.6)	8 1/4 (209.6)	470 (213)	59

¹ Support plate for 311, 214, 314 is required for sideload applications and recommended for inline applications.



WPT Power's Pilotless[™] Over-the-Shaft (OTS) Power Take-Off is engineered to meet the most demanding diesel engine applications. This design eliminates the pilot bearing while increasing side load capacity over competitive units. The OTS PTO is suitable for pneumatic or hydraulic actuation from the side of the housing and can be utilized for in-line or side load applications. The WPT Pilotless[™] OTS Power Take-Off will increase uptime, engine life, and simplify installation time.

- Dual spherical roller main bearing design, increases side load capacity.
- Self-Adjusting clutch.
- No direct loading to engine crankshaft which increases life of engine main bearings.
- Time savings for assembly since no pilot bearing alignment required.
- For in-line or side load applications.
- Hydraulic or pneumatic actuation.
- Compatible with the Hydraulic Power Unit.



Model SAE	•		Output Shaft			D	Weight	# of	
Woder	Housings	A				С	U	lb (kg)	Teeth
OTS-PL 211	3, 2	12 9/16 (320.0)	4 1/16 (102.6)	2.500 (63.50)	5/8 x 5/16	4 1/4 (108.0)	6 3/4 (171.5)	218 (99)	72
OTS-PL 3111	3, 2	15 3/4 (400.8)	8 (204.0)	3.500 (88.90)	7/8 x 7/16	3 11/16 (94.2)	7 3/4 (196.9)	343 (156)	72
OTS-PL 2141	1, 0	16 3/16 (411.5)	7 1/2 (191.8)	3.500 (88.90)	7/8 x 7/16	4 5/16 (110.2)	7 3/4 (196.9)	407 (185)	59
OTS-PL 3141	1, 0	17 1/16 (433.1)	7 1/2 (190.5)	3.938 (100.01)	1 x 1/2	3 7/8 (99.6)	8 1/4 (209.6)	470 (213)	59

¹ Support plate for 311, 214, 314 is required for sideload applications and recommended for inline applications.

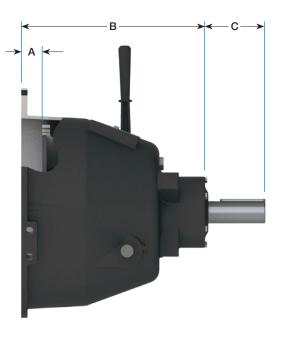
Pilotless[™] Over-the-Shaft Power Take-Off

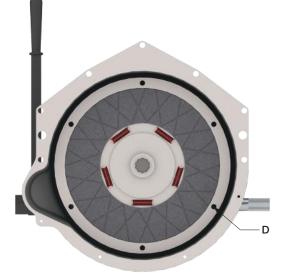


Model	SAE	A			Output Sha	ıft		D Hole		Weight
	Housings		В	с	Dia	Keyway	Bolt Circle	Qty	Dia	lb (kg)
WTD-13-130 WTD-13-133	3	2.56 (65.1)	9 1/8 (231.8)	2 15/16 (74.6)	1.750 (44.45)	3/8 x 3/16	14.13 (358.8)	8	3/8 (9.5)	149 (68)
W15-WG-200	1	2.53 (79.1)	13 3/16 (335.3)	4 1/4 (108.0)	2.500 (63.50)	5/8 x 5/16	16.63 (422.3)	8	1/2 (12)	190 (87)



- GM[®]-style bellhousing mounts directly to 4.3, 5.7, 6.2, 7.4 & 8.1 liter engines.
- Solid ductile iron bellhousing is built for heavy-duty applications, keeping out weather and other contaminants.
- Heavy-duty adjustment ball screw with jam nut makes adjustments easy.
- Inline or sideload applications.
- Heavy-duty, precision components are made of steel and ductile iron.





GM[®]-Sty

 $\operatorname{GM}^{\textcircled{R}}$ is a registered trademark of the General Motors Company

	А	А	А			Output Shaf	t		D Hole		Weight
Model		В	с	Dia	Keyway	Bolt Circle	Qty	Dia	lb (kg)		
GM [®] Style	1.69 (42.9)	14 7/16 (366.7)	4 7/16 (112.7)	1.750 (44.45)	3/8 x 3/16	12.63 (320.7)	6	3/8 (9.5)	160 (73)		
GM [®] Style HD	1.69 (42.9)	14 7/16 (366.7)	4 7/16 (112.7)	2.250 (57.15)	1/2 x 1/4	12.63 (320.7)	6	3/8 (9.5)	160 (73)		

Mechanical Power Take-Of





The WPT[®] Mechanical Power Take-Off consists of a lever-actuated clutch with a shaft and bearings mounted in a rigid cast housing. The Mechanical PTO is designed for inline and sideload applications on all internal combustion engines with standard SAE industrial flywheel/flywheel housing dimensions.

- Sealed-for-life pilot bearings eliminate lubrication problems.
- Ball bearing throwout collars are optional on 10", 11 1/2", 14" and 18". Standard on the 311 PTO.
- All drive rings are ductile (nodular) iron or steel.

Model	SAE	А	Output Shaft		с	D	Weight	# of	
wodei	Housings	A	в	Dia	Keyway			lb (kg)	Teeth
C106 ¹ C107 ¹	5, 4	7 1/8 (181.0)	3 1/2 (88.9)	1.438 (36.53)	3/8 x 3/16	2 1/8 (54.0)	4 5/8 (117.5)	65 (30)	42
C108	5, 4, 3	7 1/8 (181.0)	6 (152.4)	1.750 (44.45)	1/2 x 1/4	2 1/4 (57.2)	5 (127.0)	82 (37)	51
C110	4, 3	8 5/8 (219.1)	5 1/2 (139.7)	2.250 (57.15)	5/8 x 5/16	3 3/4 (95.3)	5 5/8 (142.9)	117 (53)	63
SP111	3, 2, 1	9 1/4 (235.0)	6 1/2 (165.1)	2.250 (57.15)	5/8 x 5/16	3 3/4 (95.3)	5 3/4 (146.1)	143 (65)	72
SP211	3, 2, 1	9 5/8 (244.5)	6 1/2 (165.1)	2.500 (63.50)	5/8 x 5/16	3 (76.2)	6 1/4 (158.8)	157 (71)	72
SP311 ²	3, 2	13 7/8 (352.4)	10 (254.0)	3.500 (88.90)	7/8 x 7/16	3 3/8 (85.7)	7 1/2 (190.5)	233 (106)	72
SP114	1	12 1/8 (308.0)	8 1/2 (215.9)	3.000 (76.20)	3/4 x 3/8	3 3/4 (95.3)	6 5/8 (168.3)	263 (119)	59
SP214 ²	1, 0	13 3/4 (349.3)	10 (254.0)	3.500 (88.90)	7/8 x 7/16	3 3/8 (85.7)	7 1/2 (190.5)	332 (151)	59
SP314 ²	1, 0	14 1/2 (368.3)	10 (254.0)	3.938 (100.01)	1 x 1/2	3 3/8 (85.7)	7 1/2 (190.5)	413 (187)	59
IBF314 ²	1, 0	16 3/4 (425.5)	10 (254.0)	3.938 (100.01)	1 x 1/2	3 5/8 (92.1)	12 1/2 (317.5)	595 (270)	59
SP318 ²	0	18 1/4 (463.6)	10 (254.0)	4.500 (114.30)	1 x 1/2	2 5/8 (66.7)	10 (254.0)	897 (407)	75

¹ Double main bearings

² Support plate for 311, 214, 314 is required for sideload applications and recommended for inline applications. Support plate for 318 is required for both sideload and inline applications.



WPT provides many clutch pack options for OEM gearbox applications.

- Mechanical Clutch Pack sizes ranging from SAE 6 to SAE 18 inch flywheels.
- Bellhousings from SAE #5 to SAE #0.
- Pneumatic and hydraulic clutch sizes ranging from SAE 10 to SAE 21 inch flywheels.
- Bell housing from SAE #3 to SAE #00.

Type 2 Power Take-Off



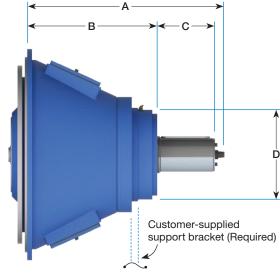
If you are looking for an innovative, high capacity power take-off, look no further than the WPT® Type 2.

With its versatile design, dry clutch and top-of-the-line spherical roller bearings, the Type 2 PTO has been field-proven in many sideload applications.

The benefits of the WPT Type 2 include the potential for remote engagement, self-adjusting clutch, with air or hydraulic actuation. Heavy-duty gear tooth friction discs are standard on 14" and 18" models. Bearings are lubricated with either grease or oil.

Customers needing maximum capacity in a small package will find the Type 2 an outstanding PTO for their applications.

Model	SAE	•	в		Output	Shaft	D
woder	Housings	A	В	С	Dia	Keyway	
211/311	3, 2	17 5/16 (439.6)	11 3/16 (284.2)	3 3/8 (85.7)	2.750 (69.85)	5/8 x 5/16	7 3/16 (182.6)
214/314H	1, 0	31 9/16 (801.7)	21 1/16 (535.0)	7 1/4 (184.2)	3.625 (92.08)	7/8 x 7/16	8 1/2 (215.9)
214 Compact	2, 1	20 7/16	20 7/16	5 1/2 (140.0)	2.756 (70.00)	20 mm x 6 mm	9 (228.6)
314H Compact	2, 1	(518.6)	(518.6)	5 11/16 (144.0)	3.542 (90.00)	25 mm x 10.7 mm	9 (228.6)
218	0	31 7/8 (810.3)	20 15/16 (531.5)	7 1/4 (184.2)	3.625 (92.08)	7/8 x 7/16	8 1/2 (215.9)
318	0	33 7/16 (849.3)	22 7/16 (569.2)	7 1/4 (184.2)	3.625 (92.08)	7/8 x 7/16	8 1/2 (215.9)

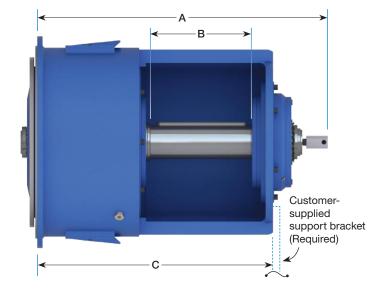


Type 1 Power Take-Off

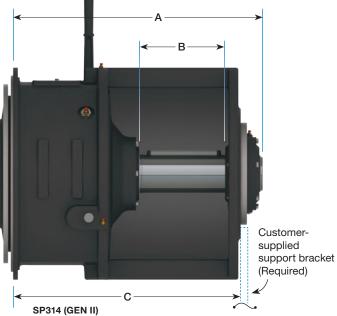
The Type 1 PTO is one of the most rugged, highest capacity products available on the market today. With the sheave mounted between the bearings, these power take-offs are designed to attain the maximum potential of their massive spherical roller bearings.

Some benefits of the WPT[®] Type 1 include: Potential for remote engagement, self-adjusting clutch, air or hydraulic actuation, heavy-duty gear tooth friction discs and easy drive belt removal.

Gen II Type 1 PTO's make it possible to house mechanical, hydraulic or pneumatic clutch pack. In addition, the sheave housing is designed with internal and external pilots, vastly improving the quality and ease of field repairs while increasing uptime.







Model	SAE	А		Output Sha	ıft	с	Sheave (Custo	omer Supplied)
Model	Housings			Dia	Keyway	C C	Max Dia	Max Width ¹
314H (GEN II)	1, 0	29 1/2 (749.3)	9 1/2 (241.3)	3.938 (100.00)	1 x 1/2	23 7/8 (606.4)	17 (431.8)	12 7/8 (327.0)
SP314 (GEN II)	1, 0	28 5/16 (718.6)	9 1/2 (241.3)	3.938 (100.00)	1 x 1/2	23 7/8 (606.4)	17 (431.8)	12 7/8 (327.0)
318	0	38 3/4 (984.3)	13 5/16 (338.1)	4.500 (114.30)	1 x 1/2	31 1/2 (800.1)	18 (457.2)	15 5/16 (388.9)
318/Ext Version	0	44 3/4 (1136.7)	19 5/16 (490.5)	4.500 (114.30)	1 x 1/2	37 1/2 (952.5)	18 (457.2)	21 3/8 (542.9)
321	00	44 5/8 (1133.5)	19 15/16 (506.4)	4.750 (120.65)	1 1/4 x 5/8	39 3/4 (1009.7)	23 (584.2)	22 (558.8)
321/Short Version	00	35 5/8 (904.9)	11 (279.4)	4.750 (120.65)	1 1/4 x 5/8	30 3/4 (781.1)	23 (584.2)	13 (330.2)
321/Ext Version	00	47 5/8 (1209.7)	23 (584.2)	4.750 (120.65)	1 1/4 x 5/8	42 3/4 (1085.9)	23 (584.2)	25 (635.0)

¹ Maximum sheave width varies with sheave diameter. Tabulated value is at the maximum sheave diameter.

Python[™] Hydraulic Clutch Control





WPT Power's patented Python[™] Hydraulic Clutch Control is the perfect product for any equipment with an engine that struggles during machine startup. With the push of a button, our Python[™] will smoothly engage any WPT Type 1 and Type 2 Power Take-Off to accelerate the most demanding loads. It eliminates the need for bump starting heavy loads which can stall or damage the engine. This product was designed and tested alongside seasoned experts in the Off-Highway Equipment industry, and was specially engineered for applications with high inertia loads. WPT Power's patented Python[™] is perfect for the OEM as well as the end user.

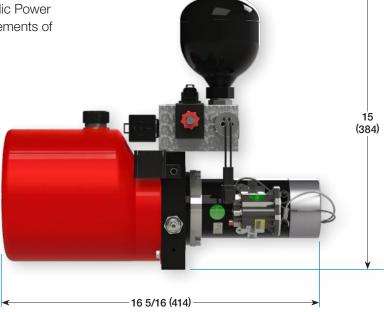
- Eliminates operator-related engagement abuse.
- Maximizes the clutch's wear component life.
- Optimizes clutch engagement for smooth operation.
- Can be easily integrated into OEM control systems.
- Designed & tested to operate in cold weather conditions.
- Self contained unit. No need for machine hydraulics.
- Compatible with SAE J1939 engine connections.
- Available in 12 or 24 volt.

Hydraulic Power Unit

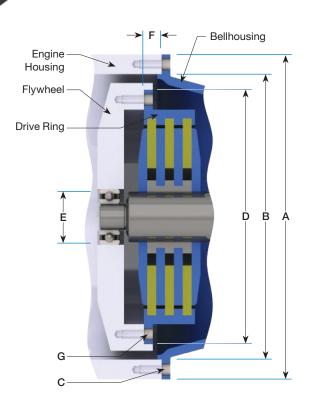


WPT's Power's self-contained Hydraulic Power Unit (HPU) is the ideal hydraulic power source to operate any WPT Hydraulic Power Take-Off. Available in 12VDC or 24VDC, the WPT HPU is designed to simplify installation and minimize maintenance. All WPT Hydraulic Power Packs are factory set to the pressure requirements of your PTO application.

- Large 0.8 gal (3L) tank
- Lockout/Tagout is easy with removable key
- Thermal Overload Protection
 as standard



PTO Product Selection Guide

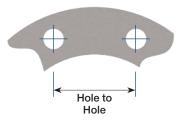


WPT SAE Housing Adapters Available

Part Number	From SAE Engine Housing	To SAE Bellhousing
WTD-00-000	2	4
WTD-00-001	1	2
WTD-00-002	1/2	1
WTD-00-003	0	1
WTD-00-004	00	0

WPT PTOs meet the mounting requirements of SAE J617 and SAE J620.

Dual or double-drilled flywheels may interfere with PTO. Contact WPT Applications Engineering for assistance on higher capacity or speed rating questions.



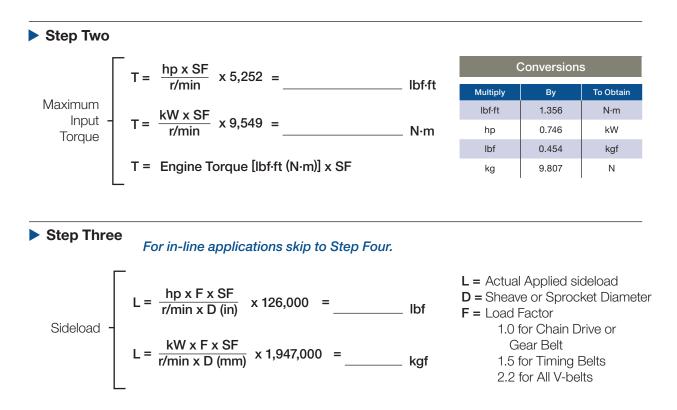
		Н	ousing					
SAE	А	в	C					
Housing	~	Pilot	Bolt Circle	Qty	Dia	Hole to Hole		
6	12 1/8 (307.8)	10.500 (266.70)	11.25 (285.8)	8	13/32 (10.3)	4 1/4 (109.4)		
5	14 (355.6)	12.375 (314.32)	13.13 (333.4)	8	13/32 (10.3)	5 (127.6)		
4	15 7/8 (403.4)	14.250 (361.95)	15.00 (381.0)	12	13/32 (10.3)	3 7/8 (98.6)		
3	17 3/4 (450.8)	16.125 (409.58)	16.88 (428.6)	12	13/32 (10.3)	4 5/16 (110.9)		
2	19 1/4 (489.0)	17.625 (447.68)	18.38 (466.7)	12	13/32 (10.3)	4 3/4 (120.8)		
1	21 3/4 (552.4)	20.125 (511.18)	20.88 (530.2)	12	15/32 (11.9)	5 3/8 (137.2)		
1/2	25 1/2 (647.7)	23.000 (584.20)	24.38 (619.1)	12	17/32 (11.5)	6 1/4 (160.2)		
0	28 (711.2)	25.500 (647.70)	26.75 (679.5)	16	17/32 (11.5)	5 3/16 (132.6)		
00	34 3/4 (882.6)	31.000 (787.40)	33.50 (850.9)	16	17/32 (11.5)	6 1/2 (166.0)		

	Flywheel										
WPT Clutch	D	E	F			G					
Size	Pilot	(mm)	(mm) F Bolt Circle	Qty	Dia	Hole to Hole					
6"	8.500 (215.90)	52	1 3/16 (30.2)	7.88 (200.0)	6	21/64 (8.3)	3 15/16 (100.0)				
7"	9.500 (241.30)	52	1 3/16 (30.2)	8.75 (222.3)	8	21/64 (8.3)	3 5/16 (85.1)				
8"	10.375 (263.52)	62	2 7/16 (62.0)	9.63 (244.5)	6	13/32 (10.3)	4 3/4 (122.2)				
10"	12.375 (314.32)	62 72	2 1/8 (53.8)	11.63 (295.3)	8	13/32 (10.3)	4 7/16 (113.0)				
11"	13.875 (352.42)	62 72 80	1 9/16 (39.6)	13.13 (333.4)	8	13/32 (10.3)	5 (127.6)				
14"	18.375 (466.72)	72 80 100	1 (25.4)	17.25 (438.2)	8	17/32 (13.5)	6 9/16 (167.7)				
18"	22.500 (571.50)	100 120	5/8 (15.7)	21.38 (542.9)	6	21/32 (16.7)	10 11/16 (271.5)				
21"	26.500 (673.10)	-	0 (0)	25.25 (641.4)	12	21/32 (16.7)	6 1/2 (166.0)				

PTO Product Selection Guide

Step One

Appl	lication Service Factor	Service Factor (SF)					
	Dutu Camilaa	Turical	Single Cylir	nder Engine	Multi-Cylinder Engine		
	Duty Service Classification	Typical Applications	Up to 10 Hours/Day	Over 10 Hours/Day	Up to 10 Hours/Day	Over 10 Hours/Day	
Uniform	Light loads with minimal slip	Centrifugal blowers, compressors, fans, rotary pumps	1.5	1.75	1.25	1.5	
Moderate	Medium loads with maximum 3 second slip at engagement	Cone crushers, wood chippers, mine fans, reciprocating pumps, road milling machines and planers	2	2.25	1.75	2	
Severe	Heavy loads requiring bump start sequence for engagement	Jaw crushers, tub grinders, dredge/mud pumps, hammer mills, reciprocating compressors, waste recyclers	2.25	2.5	2	2.25	



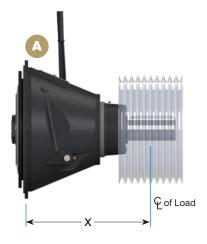
Step Four

See Pages 14 and 15 for PTO Maximum Input Torque, r/min and Sideload ratings.

Additional Notes:

Power Take-Off calculations are for reference only. For full warranty consideration, a data sheet must be turned into WPT Power and complete review performed by WPT Power Applications Engineering.

Pilotless[™]/OTS/Automotive Performance Ratings



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4		Pilotless [™] Mechanical	
	· .		

"X" Dis	"X" Distance Inches (mm) Allowable Sideload ¹ lbf (kgf)								
Model	r/min	"X"	Sideload	"X"	Sideload	Input Torque ¹ Ibf·ft (N·m)	Speed ¹ r/min		
WPL 106	1800 2500 3500	10 (254)	1,610 (730) 1,610 (730) 1,540 (700)	11 (279)	1,360 (610) 1,360 (610) 1,290 (590)	171 (232)	3500		
WPL 107	1800 2500 3200	10 (254)	1,610 (730) 1,610 (730) 1,580 (720)	11 (279)	1,360 (610) 1,360 (610) 1,330 (600)	191 (259)	3200		
WPL 108	2100 2400 3100	11 (279)	1,900 (860) 1,900 (860) 1,710 (780)	13 (330)	1,250 (570) 1,250 (560) 1,130 (510)	248 (336)	3100		
WPL 110	2100 2300 2500	12 (305)	2,370 (1070) 2,310 (1050) 2,250 (1020)	14 (356)	1,810 (820) 1,780 (810) 1,740 (790)	354 (481)	2800		
WPL 111	2100 2300 2500	13 (330)	3,100 (1410) 3,020 (1370) 2,940 (1340)	15 (381)	2,410 (1090) 2,350 (1060) 2,290 (1040)	487 (660)	2500		
WPL 211	2100 2300 2500	14 (356)	4,750 (2160) 4,630 (2100) 4,510 (2050)	16 (406)	3,690 (1670) 3,590 (1630) 3,500 (1590)	974 (1321)	2500		
WPL 311	2100 2300 2500	19 (483)	3,670 (1660) 3,570 (1620) 3,480 (1580)	23 (584)	2,500 (1130) 2,430 (1100) 2,370 (1080)	1746 (2367)	2500		
WPL 114	1800 2100 2300	16 (406)	3,150 (1430) 3,000 (1360) 2,920 (1330)	18 (457)	2,490 (1130) 2,380 (1080) 2,310 (1050)	862 (1169)	2300		
WPL 214	1800 2100 2300	20 (508)	3,890 (1770) 3,720 (1690) 3,620 (1640)	24 (610)	2,760 (1250) 2,640 (1200) 2,570 (1160)	1724 (2337)	2300		
WPL 314	1800 2100 2300	22 (559)	4,040 (1830) 3,850 (1750) 3,750 (1700)	24 (610)	3,420 (1550) 3,270 (1480) 3,180 (1440)	2586 (3506)	2300		

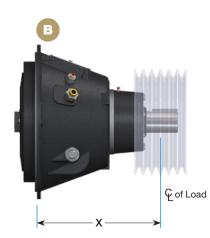
B Pilotless[™] Over-the-Shaft

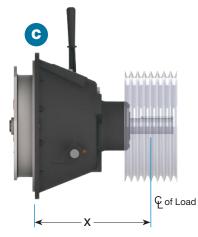
Model			e Inches (mm) Ieload ¹ lbf (kgf)	Maximum Input Torque Ibf·ft (N·m)	Maximum Input Torque ¹ Ibf·ft (N·m)	Maximum Speed ¹
	r/min	"X"	Sideload	at 100 lbf/in² [7 bar]	at 200 lbf/in ² [14 bar]	r/min
OTS-PL 211	2100 2300 2500	14 (356)	4,750 (2160) 4,630 (2100) 4,510 (2050)	810 (1100)	1770 (2400)	2500
OTS-PL 311	2100 2300 2500	19 (483)	3,670 (1660) 3,570 (1620) 3,480 (1580)	1250 (1700)	2580 (3500)	2500
OTS-PL 214	1800 2100 2300	20 (508)	3,890 (1770) 3,720 (1690) 3,620 (1640)	740 (1000)	1860 (2525)	2300
OTS-PL 314	1800 2100 2300	22 (559)	4,040 (1830) 3,850 (1750) 3,750 (1700)	1360 (1500)	2780 (3770)	2300

c Automotive

"X" D)istance In	ches (mm)	· Allowable Side	load ¹ lbf	Maximum Input	Maximum	
Model	r/min	"X"	Sideload	"X"	Sideload	Torque ¹ Ibf·ft (N·m)	Speed ¹ r/min
WTD-13-130	2000 3000	10 (254)	1,000 (500) 900 (400)	13 (330)	700 (300) 600 (300)	412 (560)	3500 3000
WTD-13-133	2000 3000	10 (254)	2,600 (1200) 2,300 (1000)	13 (330)	1,700 (800) 1,500 (700)	412 (560)	3000
W15-WG-200	2000 3000	10 (254)	1,000 (500) 900 (400)	13 (330)	500 (200) 400 (200)	1650 (2200)	2100
GM [®] Style	2000 3000	15 (381)	1,000 (500) 900 (400)	18 (457)	700 (300) 600 (300)	386 (523)	3400
GM [®] Style HD	2000 3000	15 (381)	2,900 (1300) 2,900 (1300)	18 (457)	2,000 (900) 2,000 (900)	386 (523)	3400

¹ Contact WPT Applications Engineering for assistance on higher capacity or speed rating questions.



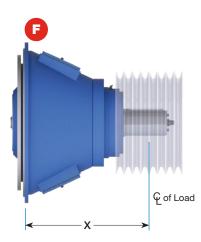


Mechanical/Type 1/Type 2 Performance Ratings

Mechan	ical						
"X" Dis	tance Incl	nes (mm)	· Allowable Sidel	oad ¹ lbf (l	‹gf)	Maximum	Maximum
Model	r/min	"X"	Sideload	"X"	Sideload	Input Torque ¹ Ibf·ft (N·m)	Speed ¹ r/min
C106 C107	1800 3500	8 (203)	600 (300) 500 (200)	9 (229)	500 (200) 400 (200)	171 (232) 191 (259)	3500 3200
(Double Main Bearings) C106 C107	1800 3200	9 (229)	1,000 (400) 800 (400)	10 (254)	800 (400) 600 (300)	171 (232) 191 (259)	3500 3200
C108	1800 3100	10 (254)	1,300 (600) 1,100 (500)	12 (305)	900 (400) 800 (400)	248 (336)	3100
C110	1800 2800	12 (305)	2,000 (900) 1,700 (800)	14 (356)	1,400 (600) 1,200 (600)	354 (481)	2800
SP111	1800 2500	12 (305)	2,100 (1000) 1,900 (900)	14 (356)	1,500 (700) 1,300 (600)	487 (660)	2500
SP211	1800 2500	13 (330)	2,100 (900) 1,900 (800)	15 (381)	1,500 (700) 1,300 (600)	974 (1321)	2500
SP311	1800 2300	18 (457)	2,000 (900) 1,900 (900)	22 (559)	1,300 (300) 1,200 (500)	1746 (2367)	2300
SP114	1800 2300	16 (406)	2,000 (900) 2,200 (1000)	22 (508)	1,200 (500) 1,400 (600)	862 (1169)	2300
SP214	1800 2300	18 (457)	2,900 (1300) 2,300 (1000)	20 (559)	1,200 (500) 1,400 (700)	1724 (2337)	2300
SP314 (80 mm PB)	1800 2300	19 (483)	2,700 (1200) 2,500 (1100)	23 (584)	1,700 (800) 1,500 (700)	2586 (3506)	2300
SP314 (100mm PB)	1800 2800	19 (483)	3,800 (1700) 3,800 (1700)	23 (584)	2,500 (1100) 2,400 (1100)	2586 (3506)	2300
IBF314	1800 2300	22 (559)	5,500 (2500) 6,000 (2700)	27 (686)	4,600 (2100) 5,000 (2300)	2586 (3506)	2300
SP318	1800 2100	23 (584)	6,020 (2730) 6,340 (2880)	27 (686)	3,910 (1770) 4,110 (1860)	6465 (8765)	2100



¢ of Load



E Type 1

"X'	' Distance	Maximum Input	Maximum Speed ¹					
Model	RPM	"X"	Sideload	"X"	Sideload	Torque ¹ Ibf·ft (N·m)	r/min	
314H (GEN II) SP314 (GEN II)	1800 2300	17 (432)	15,100 (6900) 14,100 (6400)	19 (483)	12,400 (5600) 11,500 (5200)	3,800 (5100)	2300	
318	1800 2100	22 (559)	28,300 (12800) 27,000 (12300)	26 (660)	21,700 (9900) 19,800 (9000)	7,100 (9600)	2100	
321	1200 1800	28 (711)	31,700 (14400) 28,800 (13100)	32 (813)	24,400 (11100) 22,200 (10100)	13,500 (18300)	1800	

F Туре	2						
"X'	' Distance	Inches (n	nm) · Allowable Sid	eload ¹ lb	f (kgf)	Maximum Input Torque ¹	Maximum Speed ¹
Model	r/min	"X"	Sideload	"X"	Sideload	lbf∙ft (N∙m)	r/min
211	2100 2500	12 (305)	3,500 (1600) 3,300 (1500)	15 (381)	2,400 (1100) 2,300 (1000)	1,300 (1800)	2500
311	2100 2500	12 (305)	3,500 (1600) 3,300 (1500)	15 (381)	2,400 (1100) 2,300 (1000)	1,900 (2600)	2500
214H Compact	1800 2300	16 (406)	5,300 (2400) 5,300 (2400)	19 (483)	3,800 (1700) 3,500 (1600)	2,500 (3400)	2300
214H	1800 2300	23 (584)	8,000 (3600) 7,600 (3500)	29 (737)	5,500 (2500) 5,300 (2400)	2,500 (3400)	2300
314H Compact	1800 2300	16 (406)	5,300 (2400) 5,300 (2400)	19 (483)	3,800 (1700) 3,500 (1600)	3,800 (5100)	2300
314H	1800 2300	23 (584)	8,000 (3600) 7,600 (3500)	29 (737)	5,500 (2500) 5,300 (2400)	3,800 (5100)	2300
218	1800 2300	23 (584)	8,000 (3600) 7,600 (3500)	29 (737)	5,500 (2500) 5,300 (2400)	4,700 (6400)	2100
318	1800 2300	23 (584)	8,000 (3600) 7,600 (3500)	29 (737)	5,500 (2500) 5,300 (2400)	7,100 (9600)	2100
318 Heavy Duty	1800 2100	17 (432)	16,600 (7500) 15,800 (7200)	20 (508)	12,000 (5400) 11,500 (5200)	7,100 (9600)	2100

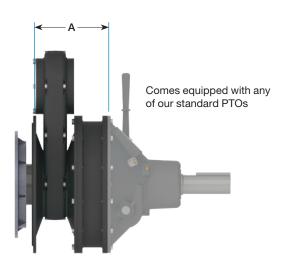
¹ Contact WPT Applications Engineering for assistance on higher capacity or speed rating questions.

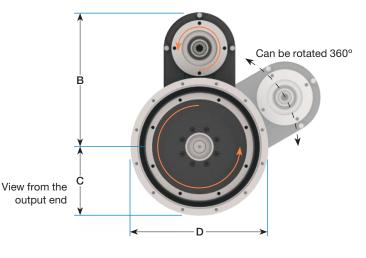




Mounted between the power take-off and the engine, the WPT[®] Power Pump Drive (PPD) is a rugged and versatile unit providing for multiple live or clutched pumps. As the PPD is selfcontained, no external lubrication is required. Flexible couplings on the input side dampen torsional vibrations and are standard on all WPT PPDs.

The Power Pump Drive can be provided with a variety of SAE engine housings, power take-off clutches, SAE pump drives and accessories. All units mount to standard SAE flywheel housings and provide up to 8 pump mounting faces. An internal heat exchanger can be added as required.



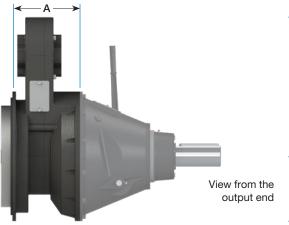


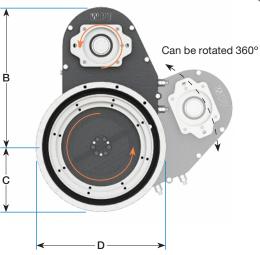
WPD-03										
SAE Input	SAE Output	A	В	с	D	Maximum Input Speed r/min	Maximum Input Torque Ibf·ft (N·m)	Head hp (kW) ¹	Head Ratio	Weight Ib (kg)
#5 - 7 1/2"				7 (178.0)			230 (310)			
#4 - 10"	#4M - 10"	8 5/8 (218.5)	15 1/2 (393.0)	7 15/16 (202.0)	15 7/8 (404.0)	3000	413 (560)	58 (43)	1:1	110 (50)
#3 - 11 1/2"				8 7/8 (225.5)			413 (560)			

Available in SAE B

¹ Rated at maximum input speed.

Pump Drive





Head hp (kW)¹

210

(157)

Weight Ib (kg)

260

(117)

Head Ratio

1:1

WPD-03 HD									
SAE Input	SAE Output	A	в	с	D				
#3 - 11 1/2"	#3M - 11 1/2"	9 1/4 (235.0)	19 (483.9)	8 7/8 (225.5)	17 3/4 (450.9)				

Available in SAE B, B-B, C, D, E (spline only)

¹ Rated at maximum input speed.

Maximum Input Torque Ibf·ft (N·m)

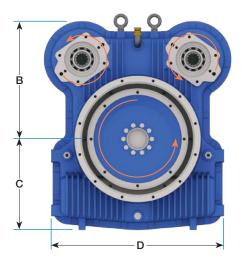
1475

(2000)

Maximum Input Speed r/min

2500



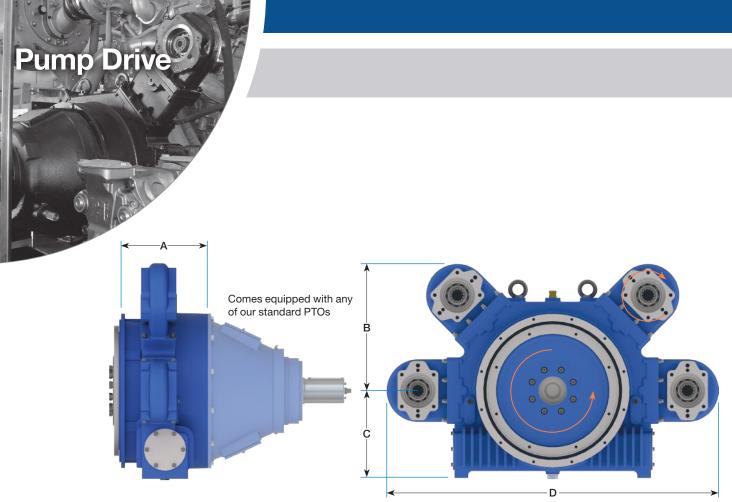


WPD-00									
SAE Input	SAE Output	A	в	с	D				
#3, #2 - 11 1/2"		#3M - 11 1/2" 10 1/8 (257.0) 16 5/8	12 13/16	24 7/16					
#1 - 14"	#31VI - 11 1/2	11 1/8 (282.0)	(422.0)	(325.0)	(620.0)				

	Maximum Input Speed r/min	Maximum Input Torque Ibf·ft (N·m)	Total Head hp (kW) ¹	Single Head hp (kW) ¹	Head Ratio	Weight Ib (kg)
6	2600	1475 (2000)	235 (175)	160 (120)	1:1	430 (195)

Available in SAE B, B-B, C, D, E (spline only)

¹ Rated at maximum input speed.



View from the output end

WPD-01										
SAE Input	SAE Output	A	В	с	D					
#1 - 14"	#1M - 14"	12 3/16 (310.0)	18 (456.5)	12 7/16 (315.0)	47 1/8 (1197.0)					

Available in SAE B, B-B, C, D, E (spline only)

Maximum Input Speed r/min	Maximum Input Torque Ibf·ft (N·m)	Total Head hp (kW) ¹	Single Head hp (kW) ¹	Head Ratio ²	Weight Ib (kg)
2200	2470	400	160	1:1	770
	(3350)	(300)	(120)	1:0.88	(350)

¹ Rated at maximum input speed.

 2 Head ratios other than 1:1 are speed increasing

WPD-02					
SAE Input	SAE Output	А	В	с	D
#1 - 14"	#OM 10"	14 3/4 (374.0)	19 3/4	16 3/8	52 3/16
#0M - 18"	14 5/16 (363.0)	(502.0)	(415.0)	(1326.0)	

Available in SAE B, B-B, C, D, E (spline only)

Maximum Input Speed r/min	Maximum Input Torque Ibf·ft (N·m)	Total Head hp (kW) ¹	Single Head hp (kW) ¹	Head Ratio ²	Weight Ib (kg)
2100	4650 (6300)	535 (400)	235 (175)	1 : 0.95	1170 (530)

¹ Rated at maximum input speed.

² Head ratios other than 1:1 are speed increasing



Pump Drive Product Selection Guide

Step One $T = \frac{hp}{r/min} \times 5,252 = \underline{\qquad}$ Maximum Input Torque $T = \frac{kW}{r/min} \times 9,549 = \underline{\qquad}$

Conversions					
Multiply	Ву	To Obtain			
lbf·ft	1.356	N∙m			
hp	0.746	kW			
lbf	0.454	kgf			
kg	9.807	Ν			

lbf·ft

N⋅m

Step Two

Hydraulic Pump Service Factor Guide

T = Engine Torque [lbf·ft (N·m)] x SF

Pump Type	Service Factor (SF)
Piston Plunger	1.8
Vane Gear	1.5
Centrifugal	1.0

Step Three

Single Head N° 1¹ = P₁ x SF₁ x PU₁ + P₂ x SF₂ x PU₂ + ... + P_n x SF_n x PU_n Single Head N° 2¹ = P₁ x SF₁ x PU₁ + P₂ x SF₂ x PU₂ + ... + P_n x SF_n x PU_n Single Head N° 3¹ = P₁ x SF₁ x PU₁ + P₂ x SF₂ X PU₂ + ... + P_n x SF_n x PU_n Single Head N° 4¹ = P₁ x SF₁ x PU₁ + P₂ x SF₂ x PU₂ + ... + P_n x SF_n x PU_n

Total Head¹ = Sum of All Heads from Step 3

Definitions:

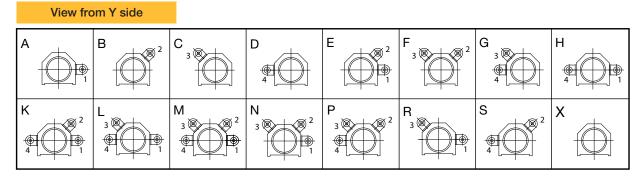
P = Hydraulic Pump Absorbed Power

SF = Pump Service Factor

- PU = Percent of Power Used by Pump
- **n** = Number of Pumps on Head

Note 1: Single and Total Head calculations may exceed rating for Pump Drive depending on duty cycles or pump modes. Please contact WPT Power Applications Engineering for details.

Step Four For WPD-01 and WPD-02 only!



Step Five See Pages 16, 17, 18 for Pump Drive Maximum Input Torque, r/min, and Head Ratings.

Additional Notes:

Power Pump Drive calculations are for reference only. For full warranty consideration, a data sheet must be turned into WPT Power and complete review performed by WPT Power Applications Engineering.

Power Pump Drive models WPD-01 and WPD-02 may require Cooling Package and Circulation Kit. Please contact WPT Power Applications Engineering for details.



▶ W10-CG-101 -



The WPT Hydro-Mechanical PTO was designed for side-load applications, where a customer needs hydraulic engagement in a mechanical PTO sized package. This PTO requires no adjustment for the life of the product. It also replaces competitive thrust-bearing design PTO's requiring precision pressure control, by using a high-reliability low-maintenance clutch, pressure insensitive actuator, and rotating union.

Application Photos



Trailer Mounted Water Blaster

WPT 11" Mechanical Power Take-Off.



Track Mounted Brush Chipper

WPT Single Head Pump Drive with 10" Pilotless™ Mechanical Power Take-Off.



Self Contained Loader Mount Snow Blower

WPT 14" Mechanical Power Take-Off or 14" Power Grip PO Pneumatic Clutch.



Portable Horizontal Impact Plant

WPT 314 Hydraulic Power Take-Off with patented Python™ Hydraulic Clutch Control System.



Global resource network

Our extensive network of knowledgeable distributors ensures that your product needs will be met quickly and with minimum downtime – when and wherever you are, worldwide.

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