

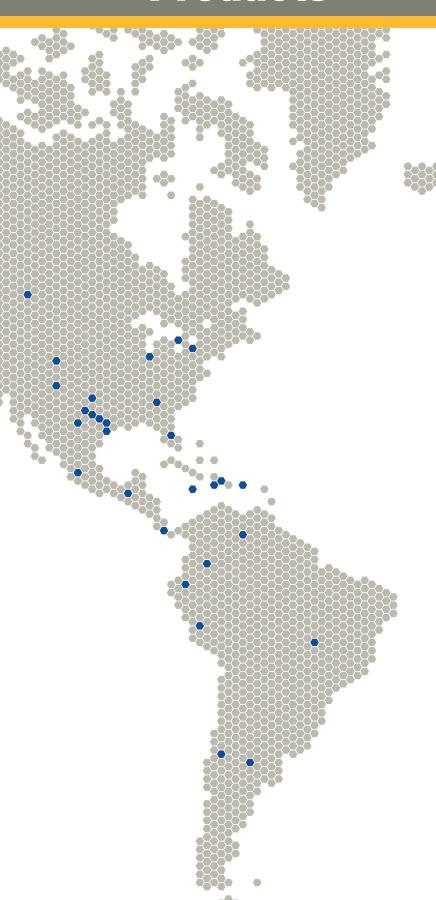
Power **Drivetrain Products**











About **WPT Power**





Power. It's in our name and in our products.

Since 1992, WPT® Power Corporation, located in Wichita Falls, Texas, has been building an international reputation for excellence in the power transmission industry. Clutches, brakes, power take-offs, hydraulic pump drives and winches comprise the core of our product lines.

WPT products are engineered for simplicity, reliability and durability. The foundation of our success is built on quality products, competitive lead-times and over twenty years of hands-on knowledge.

Our equipment is thoroughly tested in our manufacturing process to assure that every precaution is taken for both personal and environmental safety.

In addition to our own set of rigid quality standards, we have third party testing and audits such as DNV ISO 9001:2008 certification and ABS Type Approvals to help you choose WPT with confidence.

When you choose WPT products, you can rely on us for design, engineering and production expertise to create fast, successful solutions for even your most diverse and demanding applications.

As a global technology leader, WPT engineers specialize in products that will meet and exceed your expectations from standard applications to designs engineered for your specific needs.

Competitive pricing, quality products, outstanding lead-times and customer service make WPT the OEM supplier of choice for major manufacturers worldwide.

Let us show you how our power can work for you.

Give us a call at 940-761-1971 or visit us online at wptpower.com for more information on any of the products and services we provide.













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Mechanical Over-Center Power Take-Off

Sizes 6 $\frac{1}{2}$ " thru 18" with standard SAE housing sizes #6 thru #0. All mechanical clutches also supplied as OEM clutch packages.

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Automotive-Style Spring Loaded Power Take-Off

13" (SAE #3) Automotive style and 11" GM style bellhousings available.

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Type 1 Air/Hydraulic Power Take-Off

Sizes 314 (SAE #1), 318 (SAE #0), 321 (SAE #00) Straddle-Bearing PTOs. Heavy-duty design for very high capacity sideload applications.

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Type 2 Air/Hydraulic Power Take-Off

Sizes 211/311 (SAE #3, #2), 214/314 (SAE #2, #1, #0), 318 (SAE #0) Cantilever design for medium to high capacity sideload applications.

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Custom Units

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Power Grip High Speed Clutch

14" thru 21" size air or hydraulic clutches supplied with drive rings suitable for mounting to standard SAE industrial engine flywheels.

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Product Selection

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Hydraulic Remote Start

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Pump Drive

A versatile pump drive with rear-mounted power take-off allowing for multiple pump drives. Many unique accessories are available to complete the final assembly.

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.

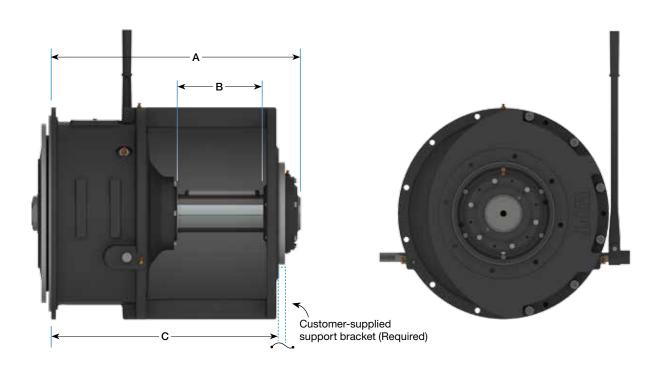


Mechanical



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 ½", 14" and 18". Standard on the 311 PTO.
- Heavy-duty, laminated, gear tooth friction disc is available for heavy shock load applications that require extra friction disc tooth strength.
- All drive rings are ductile (nodular) iron or steel.
- Roller pilot bearings are available for higher sideload requirements in select sizes.



Type 1	Type 1 Model SAE		SAE A		Output Shaft			Sheave (Customer Supplied)		Weight
1360 1	Wodel	Housings	^	В	Dia	Keyway	Ü	Max Dia	Max Width ¹	lb (kg)
	SP314 (GEN II)	1, 0	29 1/2 (749.3)	9 1/2 (241.3)	3.938 (100.00)	1 x 1/2 (25.4 x 12.7)	23 7/8 (606.4)	17 (431.8)	12 7/8 (327.0)	730 (330)





Martal	SAE		Output Shaft					Weight	# of
Model	Housings	Α	В	Dia	Keyway	С	D	lb (kg)	Teeth
C106	6, 5, 4	5 9/16 (141.3)	3 1/2 (88.9)	1.438 (36.53)	3/8 x 3/16 (9.5 x 4.8)	7/8 (22.2)	4 1/2 (114.3)	60 (27)	42
C106 ¹	6, 5, 4	7 1/8 (181.0)	3 1/2 (88.9)	1.438 (36.53)	3/8 x 3/16 (9.5 x 4.8)	2 1/8 (54.0)	4 5/8 (117.5)	65 (30)	42
C107	6, 5, 4	5 9/16 (141.3)	3 1/2 (88.9)	1.438 (36.53)	3/8 x 3/16 (9.5 x 4.8)	7/8 (22.2)	4 1/2 (114.3)	72 (33)	47
C107 ¹	6, 5, 4	7 1/8 (181.0)	3 1/2 (88.9)	1.438 (36.53)	3/8 x 3/16 (9.5 x 4.8)	2 1/8 (54.0)	4 5/8 (117.5)	78 (35)	47
C108	5, 4, 3	7 1/8 (181.0)	6 (152.4)	1.750 (44.45)	1/2 x 1/4 (12.7 x 6.4)	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 (15.9 x 7.9)	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 (15.9 x 7.9)	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 (15.9 x 7.9)	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 (22.2 x 11.1)	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 (19.1 x 9.5)	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 (22.2 x 11.1)	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 (25.4 x 12.7)	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 (25.4 x 12.7)	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 (25.4 x 12.7)	2 5/8 (66.7)	10 (254.0)	897 (407)	75

OEM Mechanical Clutch Packs

OEM over-center clutch packs are available for manufacturers of gear boxes requiring a disconnect clutch. WPT Power can furnish a complete package under one part number that includes the clutch and all needed accessories.

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.

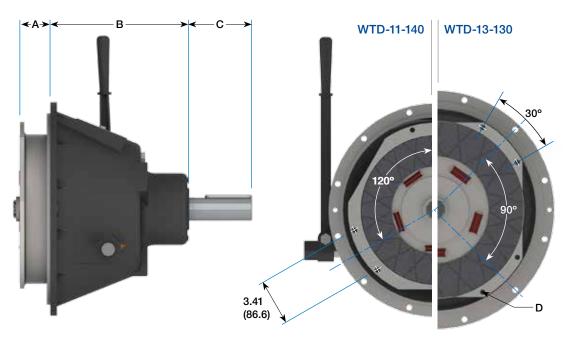


Automotive-Style



Loaded with features and virtually maintenance free, the rugged automotive-style PTO is used with flat-faced flywheels in marine, industrial, construction, brush chipper and irrigation applications.

- The troublesome pilot bearing has been eliminated to reduce failures and downtime.
- Main bearings are sealed and require no adjustments for the life of the bearing.
- Simple adjustments at the initial setup compensate for wear with a torsionally-dampened automotive-style spring-loaded clutch.
- Adjustments are quick and easy with an external ball stud and jam nut.
- The angular contact throwout bearing reduces heat buildup during long idle times.
- Engagement force is 1/3 of the force required to engage an equivalent over-center type PTO.



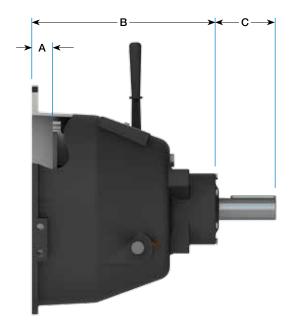
Model	SAE				Output Sha	ft		D Hole		Weight
Model	Housings	A	В	С	Dia	Keyway	Bolt Circle	Qty	Dia	lb (kg)
WTD-11-140	4	2 1/4 (57.2)	10 5/16 (261.9)	4 5/8 (117.5)	1.750 (44.45)	3/8 x 3/16 (9.5 x 4.8)	12 3/8 (314.3)	6	3/8 (9.5)	123 (56)
WTD-13-130	3	2 9/16 (65.1)	9 1/8 (231.8)	2 15/16 (74.6)	1.750 (44.45)	3/8 x 3/16 (9.5 x 4.8)	14 1/8 (358.8)	8	3/8 (9.5)	149 (68)

GM-Style



- GM-style bellhousing mounts directly to 4.1, 5.7, 6.2, 7.4 & 8.1 liter engines.
- Solid ductile iron bellhousing is built for heavyduty 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.







Model				Output Shaft			Weight		
Model	A	В	С	Dia	Keyway	Bolt Circle	Qty	Dia	lb (kg)
GM Style	1 11/16 (42.9)	14 7/16 (366.7)	4 7/16 (112.7)	1.750 (44.45)	3/8 x 3/16 (9.5 x 4.8)	12 5/8 (320.7)	6	3/8 (9.5)	160 (73)
GM Style HD	1 11/16 (42.9)	14 7/16 (366.7)	4 7/16 (112.7)	2.250 (57.15)	1/2 x 1/4 (12.7 x 6.4)	12 5/8 (320.7)	6	3/8 (9.5)	160 (73)



Type 1

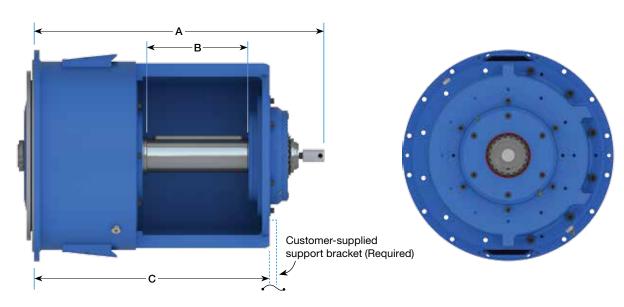


The Type 1 PTO is one of the most rugged, highest capacity products available on the market today. With sheaves between the bearings, these power take-offs are designed to attain the maximum potential of their massive spherical roller bearings.

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

The Type 1 PTO is intended for customers with the most demanding of applications. Typical drive belt tension capacity of these PTOs can range from two to four times that of the Type 2 PTO.

Gen II Type 1 PTO's make it possible to house mechanical clutch packs. 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		Output Shaft			С	Sheave (Custo	mer Supplied)
Model	Housings	_ ^	В	Dia	Keyway	C	Max Dia	Max Width ¹
314H	1, 0	29 1/2	9 1/2	3.938	1 x 1/2	23 7/8	17	12 7/8
(GEN II)		(749.3)	(241.3)	(100.00)	(25.4 x 12.7)	(606.4)	(431.8)	(327.0)
318	0	38 3/4 (984.3)	13 5/16 (338.1)	4.500 (114.30)	1 x 1/2 (25.4 x 12.7)	31 1/2 (800.1)	18 (457.2)	15 5/16 (388.9)
318/Ext	0	44 3/4	19 5/16	4.500	1 x 1/2	37 1/2	18	21 3/8
Version		(1136.7)	(490.5)	(114.30)	(25.4 x 12.7)	(952.5)	(457.2)	(542.9)
321	00	44 5/8 (1133.5)	19 15/16 (506.4)	4.750 (120.65)	1 1/4 x 5/8 (31.8 x 15.9)	39 3/4 (1009.7)	23 (584.2)	22 (558.8)
321/Short	00	35 5/8	11	4.750	1 1/4 x 5/8	30 3/4	23	13
Version		(904.9)	(279.4)	(120.65)	(31.8 x 15.9)	(781.1)	(584.2)	(330.2)
321/Ext	00	47 5/8	23	4.750	1 1/4 x 5/8	42 3/4	23	25
Version		(1209.7)	(584.2)	(120.65)	(31.8 x 15.9)	(1085.9)	(584.2)	(635.0)

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

Type 2



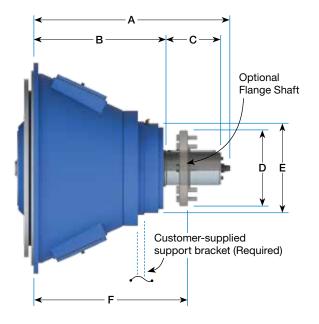
If you are looking for an innovative, high capacity power take-off, look no further than the WPT® Type 2.

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, maintenance free self-adjusting clutch, with air or hydraulic actuation. Heavy-duty, laminated 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				Output Sh	naft	Οι	ıtput Flan	ge	D	_	F
Model	Housings	A	В	С	Dia	Keyway	Hole Circle	Qty	Thds	D	E	-
211/311	3, 2	14 11/16 (373.1)	11 3/16 (284.2)	3 3/8 (85.7)	2.750 (69.85)	5/8 x 5/16 (15.9 x 7.9)	-	-	-	-	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 (22.3 x 11.1)	-	-	-	-	8 1/2 (215.9)	-
214/314H Compact	2, 1	20 7/16 (519.1)	13 5/8 (346.0)	5 9/16 (141.3)	3.543 (90.00)	.98 x .42 (25 x 10.7)	-	-	-	-	9 (228.6)	-
214/314H Flanged	1	26 1/2 (673.1)	-	-	-	-	4.75 (120.7)	6	5/8-18	6 1/2 (165.5)	8 1/2 (215.9)	21 7/8 (555.6)
218/318	0	31 7/16 (798.5)	21 7/16 (544.5)	7 1/4 (184.2)	3.625 (92.08)	7/8 x 7/16 (22.3 x 11.1)	-	-	-	-	8 1/2 (215.9)	-
218/318 Flanged	0	27 3/16 (690.6)	-	-	-	-	6.25 (158.8)	8	5/8-18	7 3/4 (196.9)	9 7/8 (250.8)	23 9/16 (598.5)
318 HD Flanged	0	23 3/4 (603.3)	-	-	-	-	8.75 (222.3)	16	3/4-10	10 1/2 (266.7)	12 (304.8)	21 1/8 (536.6)



Custom Units

► WTD-11-333



Designed for very high tension and torque applications, this heavy-duty PTO will carry 1.5 times the torque and close to 3 times the belt tension of comparably sized PTOs.

► WTD Shaft-to-Shaft



Specifically designed for customers needing a mechanical disconnect clutch between shafts.

► W15-CG-325



Designed for proper sheave location while still having the capacity for very high belt tension.

► WTD-14-21D



Designed for customers running an SAE E hydraulic pump directly behind an engine. Features the ability to disengage the pump at any time.

Power Grip High Speed Clutch



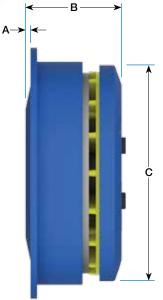


The Power Grip high speed clutch is designed to withstand the most severe applications imaginable. The heavy-duty, laminated gear tooth friction discs withstand heavy shock loads and the torsional vibrations of internal combustion engines. Drive rings are designed to fit standard SAE industrial flywheels for easy installation.



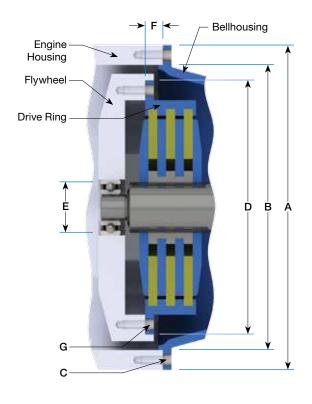
Model	А	В	С	Max Bore ¹	Weight Ib (kg)
214H	3/4	6 1/2	16 5/16	3.25	212
	(19.1)	(165.1)	(414.3)	(82.6)	(96)
314H	3/4	8	16 5/16	3.25	290
	(19.1)	(203.2)	(414.3)	(82.6)	(132)
218	3/8	7 1/8	20	3.88	397
	(9.53)	(181.0)	(508.0)	(98.4)	(180)
318	3/8	8 7/8	20	3.88	501
	(9.53)	(225.4)	(508.0)	(98.4)	(227)
321	3/4	10 1/8	21 5/16	4.75	738
	(19.1)	(257.2)	(541.3)	(120.7)	(335)

¹ Larger bore sizes available upon request.





Product Selection **Dimensions**

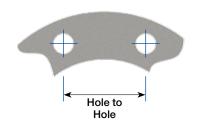


WPT SAE Housing Adapters Available

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 us for assistance.



Housing

SAE		В			С	
Housing	A	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)	4.31 (109.4)
5	14 (355.6)	12.375 (314.32)	13.13 (333.4)	8	13/32 (10.3)	5.02 (127.6)
4	15 7/8 (403.4)	14.250 (361.95)	15.00 (381.0)	12	13/32 (10.3)	3.88 (98.6)
3	17 3/4 (450.8)	16.125 (409.58)	16.88 (428.6)	12	13/32 (10.3)	4.37 (110.9)
2	19 1/4 (489.0)	17.625 (447.68)	18.38 (466.7)	12	13/32 (10.3)	4.76 (120.8)
1	21 3/4 (552.4)	20.125 (511.18)	20.88 (530.2)	12	15/32 (11.9)	5.40 (137.2)
1/2	25 1/2 (647.7)	23.000 (584.20)	24.38 (619.1)	12	17/32 (11.5)	6.31 (160.2)
0	28 (711.2)	25.500 (647.70)	26.75 (679.5)	16	17/32 (11.5)	5.22 (132.6)
00	34 3/4 (882.6)	31.000 (787.40)	33.50 (850.9)	16	17/32 (11.5)	6.54 (166.0)

Flywheel

WPT	D	Е	_			G	
Clutch Size	Pilot	(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)	3.94 (100.0)
7"	9.500 (241.30)	52	1 3/16 (30.2)	8.75 (222.3)	8	21/64 (8.3)	3.35 (85.1)
8"	10.375 (263.52)	62	2 7/16 (62.0)	9.63 (244.5)	6	13/32 (10.3)	4.81 (122.2)
10"	12.375 (314.32)	62 72	2 1/8 (53.8)	11.63 (295.3)	8	13/32 (10.3)	4.45 (113.0)
11"	13.875 (352.42)	62 72 80	1 9/16 (39.6)	13.13 (333.4)	8	13/32 (10.3)	5.02 (127.6)
14"	18.375 (466.72)	72 80 100	1 (25.4)	17.25 (438.2)	8	17/32 (13.5)	6.60 (167.7)
18"	22.500 (571.50)	100 120	5/8 (15.7)	21.38 (542.9)	6	21/32 (16.7)	10.69 (271.5)
21"	26.500 (673.10)	-	0 (0)	25.25 (641.4)	12	21/32 (16.7)	6.54 (166.0)

Product Selection **Calculations**

▶ Step One

Appl	ication Service Factor S	Service Factor (SF)					
	Duby Comiles	Turing	Single Cylii	nder Engine	Multi-Cylin	nder 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 Two -

Maximum
Input
Torque
$$T = \frac{hp \times SF}{r/min} \times 5,252 = \underline{\qquad} Ibf \cdot ft$$

$$T = \frac{kW \times SF}{r/min} \times 9,549 = \underline{\qquad} N \cdot m$$

$$T = Engine Torque [Ibf \cdot ft (N \cdot m)] \times SF$$

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

▶ Step Three

In-line applications go to Step Four.

2.2 for All V-belts

Step Four -

See Pages 12 and 13 for PTO Maximum Input Torque, r/min and Sideload ratings.

Product Selection Ratings

Steps Two and Three Mechanical Sideload and Torqui							ad and Torqu	е	
		"X" Dista	ance Inches (mm) · Al	lowable Si	deload¹ lbf (kgf)			Maximum Input Torque ²	Maximum Speed ²
Model	r/min	"X"	Sideload	"X"	Sideload	"X"	Sideload	Ibf·ft (N·m)	r/min
C106 C107	1800 2500 3500	7 (178)	600 (300) 600 (300) 500 (200)	8 (203)	600 (300) 500 (200) 500 (200)	9 (229)	500 (200) 500 (200) 400 (200)	171 (232) 191 (259)	3500 3200
(Double Main Bearings) C106 C107	1800 2500 3500	8 (203)	1,300 (600) 1,200 (500) 1,100 (500)	9 (229)	1,000 (400) 900 (400) 800 (400)	10 (254)	800 (400) 700 (300) 600 (300)	171 (232) 191 (259)	3500 3200
C108	1800 2500 3100	8 (203)	2,100 (900) 1,900 (900) 1,800 (800)	10 (254)	1,300 (600) 1,200 (500) 1,100 (500)	12 (305)	900 (400) 800 (400) 800 (400)	248 (336)	3100
C110	1800 2500 2800	10 (254)	2,600 (1200) 2,300 (1100) 2,300 (1000)	12 (305)	2,000 (900) 1,800 (800) 1,700 (800)	14 (356)	1,400 (600) 1,300 (600) 1,200 (600)	354 (481)	2800
SP111	1800 2100 2500	10 (254)	2,600 (1200) 2,500 (1100) 2,400 (1100)	12 (305)	2,100 (1000) 2,000 (900) 1,900 (900)	14 (356)	1,500 (700) 1,400 (600) 1,300 (600)	487 (660)	2500
SP211	1800 2100 2500	11 (279)	3,300 (1500) 3,200 (1500) 3,000 (1400)	13 (330)	2,100 (900) 2,000 (900) 1,900 (800)	15 (381)	1,500 (700) 1,400 (600) 1,300 (600)	974 (1321)	2500
SP311	1200 1800 2300	15 (381)	3,500 (1600) 3,500 (1600) 3,400 (1500)	18 (457)	1,900 (900) 1,900 (900) 1,900 (900)	22 (559)	1,200 (500) 1,200 (500) 1,200 (500)	1746 (2367)	2300
SP114	1200 1800 2300	13 (330)	5,300 (2400) 4,600 (2100) 4,200 (1900)	16 (406)	2,800 (1300) 2,400 (1100) 2,200 (1000)	20 (508)	1,700 (800) 1,500 (700) 1,400 (600)	862 (1169)	2300
SP214	1200 1800 2300	15 (381)	5,200 (2400) 4,500 (2100) 4,200 (1900)	18 (457)	2,900 (1300) 2,500 (1100) 2,300 (1000)	22 (559)	1,800 (800) 1,600 (700) 1,400 (700)	1724 (2337)	2300
SP314 (80 mm PB)	1200 1800 2300	16 (406)	5,600 (2500) 4,900 (2200) 4,500 (2000)	19 (483)	3,100 (1400) 2,700 (1200) 2,500 (1100)	23 (584)	1,900 (800) 1,700 (800) 1,500 (700)	2586 (3506)	2300
SP314 (100mm PB)	1200 1800 2300	16 (406)	6,000 (2700) 5,300 (2400) 4,900 (2200)	19 (483)	4,700 (2100) 4,100 (1900) 3,800 (1700)	23 (584)	2,900 (1300) 2,600 (1200) 2,400 (1100)	2586 (3506)	2300
IBF314	1200 1800 2300	18 (457)	6,400 (2900) 5,700 (2600) 5,300 (2400)	22 (559)	5,400 (2400) 4,800 (2200) 4,400 (2000)	27 (686)	4,500 (2000) 4,000 (1800) 3,700 (1700)	2586 (3506)	2300
SP318	1200 1800 2100	19 (483)	12,600 (5700) 11,200 (5100) 10,200 (4600)	23 (584)	7,100 (3200) 6,200 (2800) 5,900 (2700)	27 (686)	4,600 (2100) 4,000 (1800) 3,800 (1700)	6465 (8765)	2100

Steps Two and Three				Automotive Sideload and Torque								
		"X" Distanc	e Inches (mm) · A	Allowable Sid	eload ¹ lbf (kgf)			Maximum Input Torque ²	Maximum Speed ²			
Model	r/min	"X"	Sideload	"X"	Sideload	"X"	Sideload	lbf∙ft (N·m)	r/min			
WTD-11-140 WTD-13-130	1000 2000 3000	8 (203)	1,800 (800) 1,400 (700) 1,300 (600)	10 (254)	1,300 (600) 1,000 (500) 900 (400)	13 (330)	900 (400) 700 (300) 600 (300)	412 (560)	3500 3000			
GM Style	1000 2000 3000	13 (330)	1,800 (800) 1,400 (700) 1,300 (600)	15 (381)	1,300 (600) 1,000 (500) 900 (400)	18 (457)	900 (400) 700 (300) 600 (300)	386 (523)	3400			
GM Style HD	1000 2000 3000	13 (330)	4,400 (2000) 4,400 (2000) 4,400 (2000)	15 (381)	2,900 (1300) 2,900 (1300) 2,900 (1300)	18 (457)	2,000 (900) 2,000 (900) 2,000 (900)	386 (523)	3400			

¹ Allowable sideload does not apply to OEM clutch packs. ² Contact WPT for applications requiring higher capacity or speed ratings.







Power Grip, Type 1, and Type 2 Torque

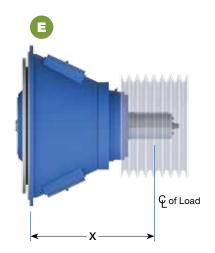
Size	Maximum Input Torque Ibf∙ft (N·m)	Maximum Speed r/min
211	1,300 (1800)	2500
311	1,900 (2600)	2500
214H	2,500 (3400)	2300
314H	3,800 (5100)	2300
218	4,700 (6400)	2100
318	7,100 (9600)	2100
321	13,500 (18300)	1800





Type 1 Sideload

"X" Distance Inches (mm)						· Allowable Sideload¹ lbf (kgf)					
	Model	RPM	"X"	Sideload	"X"	Sideload	"X"	Sideload			
	314H (GEN II)	1800 2100 2300	15 (381)	11,500 (5200) 11,000 (5000) 10,700 (4900)	17 (432)	15,100 (6900) 14,400 (6600) 14,100 (6400)	19 (483)	12,400 (5600) 11,800 (5400) 11,500 (5200)			
	318	1200 1800 2100	18 (457)	22,100 (10000) 19,900 (9000) 19,000 (8600)	22 (559)	31,400 (14300) 28,300 (12800) 27,000 (12300)	26 (660)	23,900 (10800) 21,700 (9900) 19,800 (9000)			
	318/Ext Version	1200 1800 2100	20 (508)	22,500 (10200) 20,300 (9200) 19,400 (8800)	25 (635)	31,500 (14300) 28,400 (12800) 27,100 (12300)	30 (762)	24,200 (11000) 22,000 (10000) 20,100 (9100)			
	321	1200 1800	22 (559)	22,600 (10300) 20,400 (9300)	28 (711)	31,700 (14400) 28,800 (13100)	32 (813)	24,400 (11100) 22,200 (10100)			
	321/ Short Version	1200 1800	19 (483)	24,800 (11200) 17,000 (7700)	22 (559)	33,200 (15100) 22,800 (10400)	25 (635)	26,300 (11900) 23,900 (10800)			
	321/Ext Version	1200 1800	23 (584)	22,800 (10300) 20,500 (9300)	29 (737)	32,600 (14800) 29,400 (13300)	33 (838)	25,900 (11700) 23,500 (10700)			



E Step Three

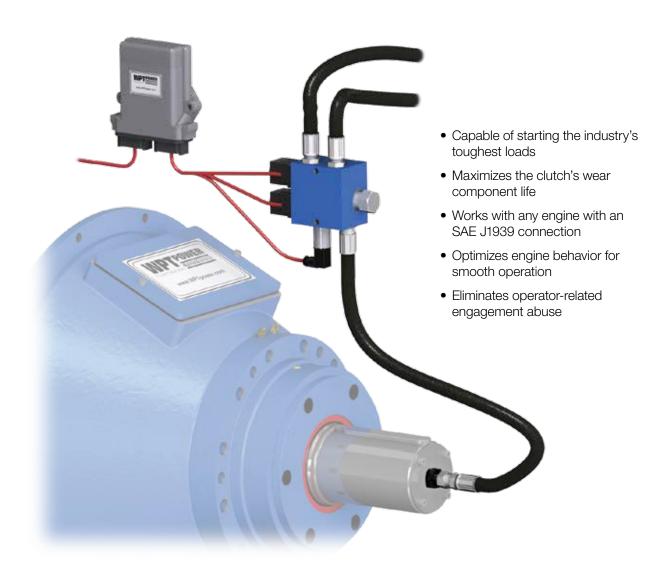
Type 2 Sideload

		"X" Di	stance Inches (mm)	· Allowa	lowable Sideload¹ lbf (kgf)			
Model	r/min	r/min "X" Sideload		"X"	Sideload	"X"	Sideload	
211/311	2100 2300 2500	9 (229)	6,700 (3100) 6,600 (3000) 6,400 (2900)	12 (305)	3,500 (1600) 3,400 (1600) 3,300 (1500)	15 (381)	2,400 (1100) 2,300 (1100) 2,300 (1000)	
214/314H 218/318	1800 2100 2300	17 (432)	13,700 (6200) 13,700 (6200) 13,100 (5900)	23 (584)	8,000 (3600) 8,000 (3600) 7,600 (3500)	29 (737)	5,500 (2500) 5,500 (2500) 5,300 (2400)	
214/314H Compact	1800 2100 2300	14 (356)	6,600 (3000) 6,600 (3000) 6,600 (3000)	16 (406)	5,300 (2400) 5,300 (2400) 5,300 (2400)	19 (483)	3,800 (1700) 3,600 (1600) 3,500 (1600)	
318 Heavy Duty	1200 1800 2100	14 (356)	28,500 (12900) 25,200 (11500) 24,100 (10900)	17 (432)	18,100 (8200) 16,000 (7300) 15,300 (6900)	20 (508)	11,200 (5100) 11,700 (5300) 13,300 (6000)	

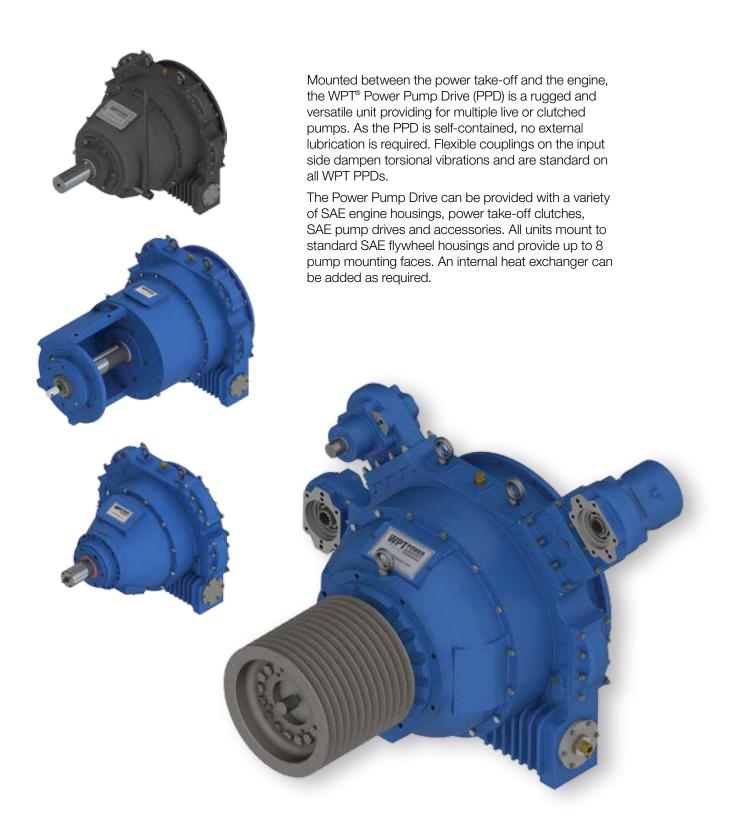
Hydraulic **Remote Start**

WPT® Power's new Monotonic Remote Start is the perfect tool for any equipment whose engine struggles during machine startup. With the "push of a button", our Remote Start will feather any fluid-actuated clutch as needed to accelerate the most demanding loads. It eliminates the need for bump starting heavy loads which can stall or damage the engine.

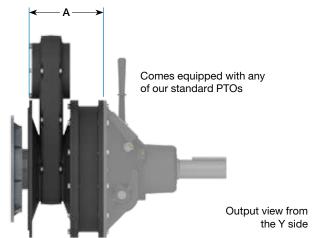
This product was designed and tested alongside seasoned experts in the Off-Highway Equipment industry, is patent pending, and was specifically engineered for applications with very high inertia loads. Our product offering is perfect for anyone from the OEM to the end user, is field installable, comes in complete kits and with WPT Power's immaculate reputation for customer service.

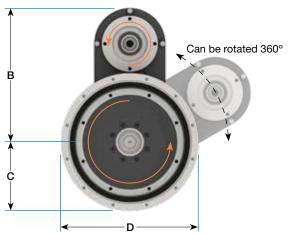


Pump Drive



Pump Drive



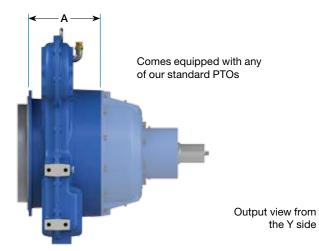


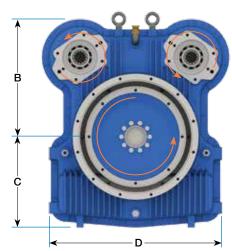
WPD-03

_	AE put	SAE Output	Α	В	С	D
#5 -	7 1/2"	#4M - 10"	8 5/8 (218.5)	15 1/2 (393.0)	7 (178.0)	15 7/8 (404.0)
#4	- 10"				7 15/16 (202.0)	
#3 - '	11 1/2"				8 7/8 (225.5)	

	Input Speed r/min	Input Torque Ibf·ft (N·m)	Head hp (kW) ¹	Head Ratio	Weight Ib (kg)
		230 (310)			
	3000	413 (560)	58 (43)	1:1	110 (50)
		413 (560)			

¹ Rated at maximum input speed.





WPD-00

SAE Input	SAE Output	Α	В	С	D
#3, 2# - 11 1/2"	#3M - 11 1/2"	10 1/8 (257.0)	16 5/8	12 13/16 (325.0)	24 7/16
#1 - 14"	#3IVI - 11 1/2	11 1/8 (282.0)	(422.0)		(620.0)

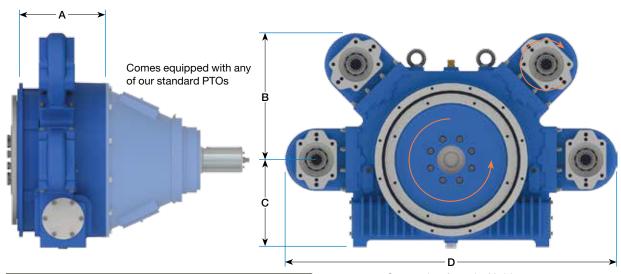
Available	in SAF	B. B-	B.C.	D. F	(spline	only)

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

¹ Rated at maximum input speed.

Available in SAE B (spline only)

Pump Drive



VA.		

SAE Input	SAE Output	Α	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)

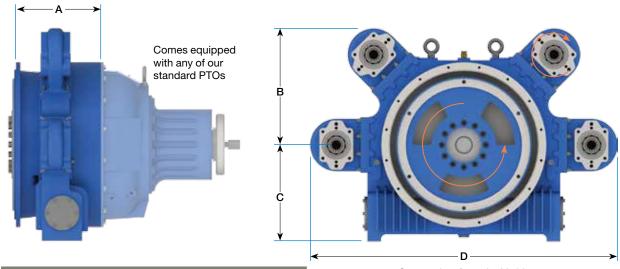
Available in SAE B, B-B, C, D, E (spline only)

Output view from the Y side

	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 lb (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	A	В	С	D
#1 - 14"	#0M - 18"	14 3/4 (374.0)	19 3/4 (502.0)	16 3/8 (415.0)	52 3/16 (1326.0)
#0 - 18"		14 5/16 (363.0)			

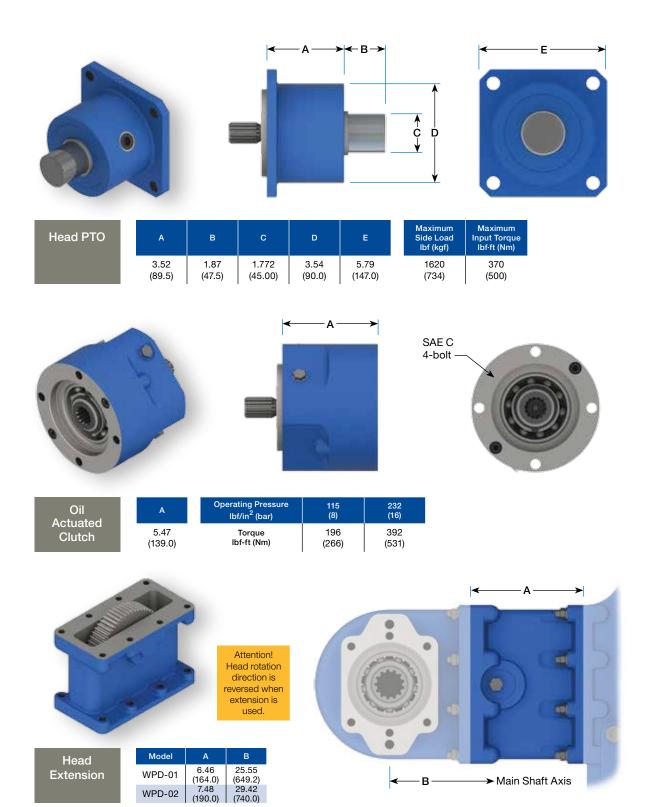
Output view from the Y side

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 lb (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

Accessories



Application Data Sheet 1 of 2

WPT Power Corporation ATTN: Applications Dept. P.O. Box 8148 Wichita Falls, TX 76307 940-761-1971 940-761-1989 Fax applications@WPTpower.com www.WPTpower.com

Please provide the following information to help ensure the most accurate and competitive offer for your applications.

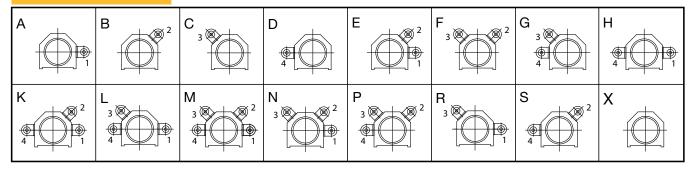
Name / Title:			Email:			
Company Name:	Phone:					
Address:			Country:			
City / State / Zip:			Special Instructions:			
WPD-00, -01, -02	2, -03		Engine/N	Motor	*	<u>L1</u> —X—→
Customer Information					Z	Y
Machine Type & Model	:			Preferred		
Quantity (per year)	:		☐ Dies	□ Uvdrou	·	
Engine Make & Model	(Please enclose curves)		■ Elec	Pneum		
Application Power	: Power @ r/min				 	
Maximum Engine Ratings	: Torque @ r/min		WP	Pump Head	WPI Pump Head	D-00 Pump Head
	: Power @ r/min			Ѱ 1	N° 3	N° 2
	: r/miı	n	B 2-bolt			
Installation	SAE Housing Size	SAE Flywheel Size				
Engine-Mounted	:		[] •[(
Remote-Mounted :						
☐ In-Line (Shaft-to-sha	aft)			All output	views	
☐ Belt Drive				from the		
Type of Belt Tensioner		· -	WPD-01,	-02		
L1	(Please circle one)		WPD-01	Pump Head		Pump Head
L2			<u> </u>	N° 3		N° 2
X Distance	:		.88 : 1			
D	:		WPD-02			
Belt Type	:		95 : 1	Pump Head		Pump Head
	(Example: 5	5V-10 belts)		Nº 4		Nº 1
Pump Information (View	v from Z side)		Pump Info	r mation (View fro	om Y side)	
,		Absorbed Power				Absorbed Power
Head 1: SAE*	:		Head 1:	SAE* : _		l
Head 2: SAE*	:		Head 2:	SAE* : _		
Head 3: SAE*	:		Head 3:	SAE* : _		
Head 4: SAE*	:	l	Head 4:	SAE* : _		l
Duty Cycle (View from Z s	side)		Duty Cycle	(View from Y side	<u>)</u>	
		% of Power				% of Power
Head 1:	:		Head 1:	:_		
Head 2:	:		Head 2:	: _		
Head 3:	:		Head 3:	:_		
Head 4:	:	l	Head 4:	:_		l

Application Data Sheet 2 of 2

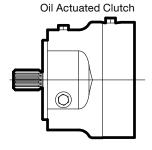
WPT Power Corporation ATTN: Applications Dept. P.O. Box 8148 Wichita Falls, TX USA 76307 940-761-1971 940-761-1989 Fax applications@WPTpower.com www.WPTpower.com

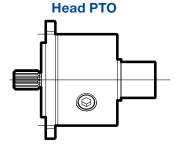
Please provide the following information to help ensure the most accurate and competitive offer for your applications.

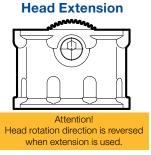
View from Y side



Disconnect Clutch







Accessories (View from Z side)

Disconnect Clutch	Head PTO	Head Extention**
Head 1:		l
Head 2:	l	l
Head 3:		l
Head 4:	l	l

 ${}^\star\!When$ PTO is used to drive pulley, specify pulley type and effective diameter.

**When head extension is used, the pump head rotation is reversed.

Accessories (View from Y side)

Accessories (view in	oni i side)			
Disconnect C	lutch	Head PTO		Head Extention**
Head 1:			_	
Head 2:				
Head 3:	I			
Head 4:	_		_	

*When PTO is used to drive pulley, specify pulley type and effective diameter.

**When head extension is used, the pump head rotation is reversed.

kW = hp * 0.746

 $hp = gal/min * lbf/in^2 / 1714$ $hp = r/min * lbf \cdot ft / 5252$

kW = I/min * bar / 600 kW = r/min * N·m / 9549

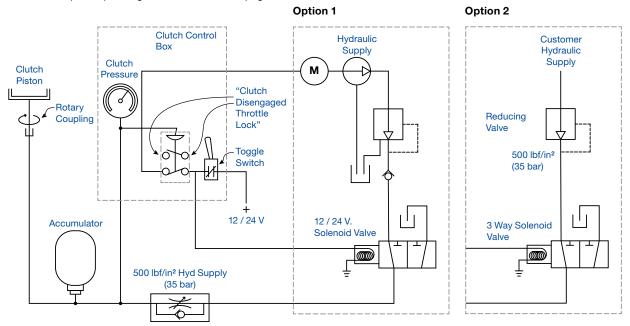
Office Use Only

20 WRM-PD-000 Rev. B

Remote Actuation Schematics

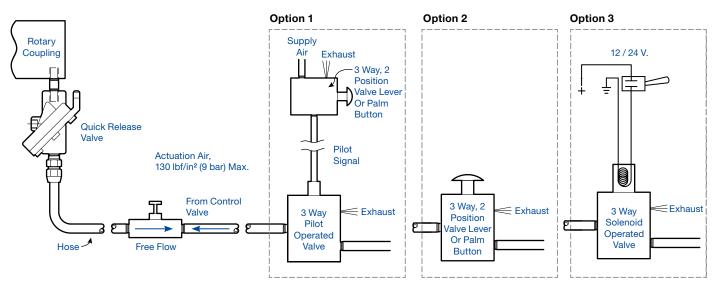
Hydraulic Actuation

See our new patent pending remote controller on page 14.



This hydraulic schematic represents two possible methods for remote actuation control. Many possibilities beyond these examples can be configured to your specific needs.

Air Actuation



This hydraulic schematic represents three possible methods for remote actuation control. Many possibilities beyond these examples can be configured to your specific needs.

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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