

# PEERLESS®

## COMMERCIAL PRODUCTS

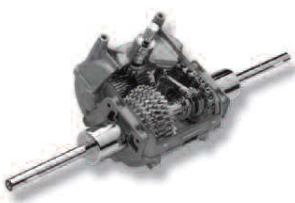


***Driving choice.  
Delivering dependability.***



# Commercial

## 700 Series Transmissions & 100 Series Differentials


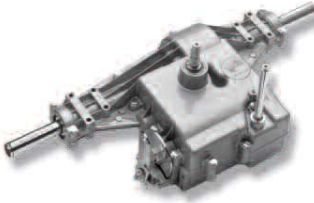
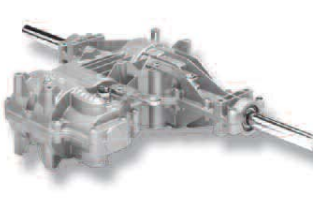
### TECHNICAL SPECIFICATIONS

			
	700 Series with Connector Shafts	700 Series with Sprocket & Service Brake	100 Series Differential
Output torque	20 ft. lbs. (27.1 N-m)	20 ft. lbs. (27.1 N-m)	150 ft lbs. (203.4 N-m)
Axle diameter	n/a	n/a	3/4" (19.05 mm) or 1" (25.4 mm)
Weight on axles	n/a	n/a	400 lbs. (181.5 kg) — 3/4" (19.05 mm) 600 lbs. (272.3 kg) — 1" (25.4 mm)
Axle bearings	n/a	n/a	Bushings or needle bearings
Axle ends & length	n/a	n/a	Consult factory
Transmission/ differential housing	Die-cast aluminum	Die-cast aluminum	Die-cast aluminum
Differential housing	n/a	n/a	4-Bolt housing standard 6-Bolt housing optional
Output shaft diameter	5/8" (15.9 mm)	Serrated for brake/sprocket	n/a
Output shaft lengths & ends	Consult factory	n/a	n/a
Output shaft bearings	Bushings, optional ball bearings	Bushings, optional ball bearings	n/a
Input shaft diameter	5/8" (15.9 mm)	5/8" (15.9 mm)	n/a
Shifter shaft	Threaded or drilled & tapped	Threaded or drilled & tapped	n/a
Forward speeds (maximum)	5	5	n/a
Reverse speeds	1	1	n/a
Shift keys	4	2 or 4	n/a
Neutral start switch	Optional	Optional	n/a
Input speed (maximum)	2400 rpm	2400 rpm	n/a
Input bearings	Needle bearings	Needle bearings	n/a
Input type	Vertical	Vertical	n/a
Mounting	4-Bolt mount	4-Bolt mount	3 locations
Net weight	18 lbs. (8.2 kg)	18 lbs. (8.2 kg)	10 lbs. (4.5 kg)
Lubrication	Specially formulated grease	Specially formulated grease	Specially formulated grease
Type of shift	In-line pattern	In-line pattern	n/a
Service brake	n/a	Optional — disc	n/a
Sprockets	n/a	Consult factory	Consult factory
Sintered metal gears	Standard	Standard	Standard
Steel gears	Optional	Optional	Optional
Gear ratios	Consult factory	Consult factory	n/a



## 200/820/855 Series Transaxles

### TECHNICAL SPECIFICATIONS

			
	200 Series	820 Series	855 Series
Output torque	225 ft. lbs. (305 N-m)	450 ft. lbs. (610 N-m)	450 ft. lbs. (610 N-m)
Ground engaging	No	Yes	Yes
Transaxle housing	Die-cast aluminum	Die-cast aluminum	Die-cast aluminum
Axle diameter	3/4" (19.05 mm)	1" (25.4 mm)	1" (25.4 mm)
Axle bearings	Optional needle bearings	Standard ball bearings	Standard ball bearings
Axle ends	Consult factory	Consult factory	Consult factory
Differential	Standard	Standard	Standard
Differential lock	n/a	n/a	Optional
Positive traction without differential	Optional	Optional	Optional
Forward speeds (maximum)	6	6	3
Reverse speeds	1	1	1
Shift keys	2	4	4
Shifter shaft	Threaded or drilled & tapped	Threaded or drilled & tapped	Threaded or drilled & tapped
Neutral start switch	Optional	Optional	Optional
Input speed (maximum)	2000 rpm	2000 rpm	2000 rpm
Input shaft diameter	3/4" (19.05 mm)	3/4" (19.05 mm)	3/4" (19.05 mm)
Input bearings	Needle bearings	Ball bearings	Needle bearings
Input type	Vertical	Vertical	Horizontal
Tire diameter (maximum)	20" (508 mm)	23" (584 mm)	23" (584 mm)
Weight over axle (maximum)	525 lbs. (238 kg)	600 lbs. (272 kg)	600 lbs. (272 kg)
Transaxle mounting	4 locations (2 on axle housing & 1 on each side of transaxle housing)	4 locations (2 on axle housing & 1 on each side of transaxle housing)	4 locations (2 on axle housing & 1 on each side of transaxle housing)
Net weight	38 lbs. (17.2 kg)	45 lbs. (20.4 kg)	38 lbs. (17.2 kg)
Lubrication	80w90 gear lube	Specially formulated grease	80w90 gear lube
Type of shift	In-line pattern	In-line pattern	In-line pattern
Service brake	Standard	Standard	Standard
Sintered metal gears	Standard	n/a	n/a
Steel gears	Optional	Standard	Standard
Gear ratios	Consult factory	Consult factory	Consult factory


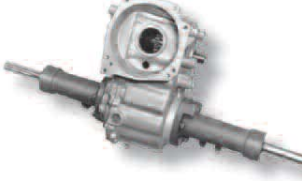

Reliable powertrain solutions.

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# Commercial/Industrial

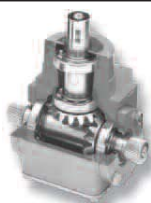


## 1300/2500/2600 Series Final Drives

### TECHNICAL SPECIFICATIONS

			
	1300 Series	2500 Series	2600 Series
<b>Output torque</b>	400 ft. lbs. (542 N-m)	1,200 ft. lbs. (1,627 N-m)	1,200 ft. lbs. (1,627 N-m)
<b>Transaxle housing</b>	Die-cast aluminum	Die-cast aluminum	Die-cast aluminum
<b>Axle diameter</b>	1" (25.4 mm)	1-1/8" (28.6 mm)	1-3/16" (30.1 mm)
<b>Forged axle</b>	n/a	n/a	Optional — 2675
<b>Axle bearings</b>	Bushings	Standard — ball bearings	Standard — ball bearings
<b>Axle ends</b>	Consult factory	Consult factory	Consult factory
<b>Differential</b>	Automotive-type bevel gears	Automotive-type bevel gears	Automotive-type bevel gears
<b>Differential options</b>	n/a	Spur gear with limit slip feature	4-Pinion differential
<b>Differential lock</b>	n/a	n/a	Optional
<b>Forward speeds</b>	Infinite	Infinite with high-low range	Infinite with high-low range
<b>Reverse speeds</b>	Infinite	Infinite with high-low range	Infinite with high-low range
<b>Input speed (maximum)</b>	3600 rpm	3600 rpm	3600 rpm
<b>Tire diameter (maximum)</b>	23" (584 mm)	29" (737 mm)	29" (737 mm)
<b>Weight over forged axle (maximum)</b>	600 lbs. (272 kg)	1,500 lbs. (681 kg)	1,800 lbs. (817 kg) — standard axle 2,250 lbs. (1,021 kg) — forged axle
<b>Transaxle mounting</b>	U-Bolt on axle housing & torque strap to housing	4 locations (2 on axle housing & 1 on each side of transaxle housing)	4 locations (2 on axle housing & 1 on each side of transaxle housing)
<b>Net weight</b>	30 lbs. (14 kg)	90 lbs. (41 kg)	90 lbs. (41 kg) with std. axle housing, 120 lbs. (263.4 kg) with forged axle
<b>Type of shift</b>	In-line pattern	In-line pattern	In-line pattern
<b>Service brake</b>	Optional	Provision — customer supplied brake	Provision — customer supplied brake
<b>Sintered metal gears</b>	Standard	n/a	n/a
<b>Steel gears</b>	Optional	Standard	Standard
<b>Gear ratios</b>	19.7 or 22.2	High 18.6 or 20.6 Low 27.3 or 40	High 24.8 Low 40.0
<b>Wheel weight</b>	100 lbs. (145 kg)	600 lbs. (272 kg)	600 lbs. (272 kg)
<b>Rear weight to offset front implement</b>	200 lbs. (91 kg)	400 lbs. (182 kg)	500 lbs. (227 kg)

## 1000/1050/1100 Series Right Angle & T-Drive Gear Boxes

### TECHNICAL SPECIFICATIONS

				
	1000 Series	1050 Series	1100 Series	
Engine horsepower	10	13	20	
Shaft size	7/8" (22.2 mm)	7/8" (22.2 mm)	1" (25.4 mm)	
Maximum input speed	3600 rpm	3600 rpm	3600 rpm	
Maximum static torque	1,200 in. lbs.	1,200 in. lbs.	n/a	
Weight	6 lbs. (2.7 kg)	6 lbs. (2.7 kg)	18 lbs. (8.2 kg)	
Ratios			1.5:1 (1100-003)	
			1.04:1 (1100-013)	
			2:1 (1100-023)	
STANDARD FEATURES				
	Left hand rotation	Model 1000-014	Left hand rotation	Lubrication — oil bath
	Right hand rotation	Model 1000-026	Right hand rotation	Vent plug provision
	T-drive	Model 1000-007	T-drive	

## PLA-917 Power Device Actuator 12 VDC, 1.5" Diameter, 2-Pole, Permanent Magnet



### TECHNICAL SPECIFICATIONS

Frame size	S150	Reduction	10 or 12:1
Rated volts	12, 24 VDC	Diameter Over Flats	1.5"
Rated hp	0.069	Over Rounds	2.0"
Rated current amps	10	Magnet Construction	2-Pole, permanent
Max. hp	0.069	Applications	Seat actuators
(Kt) Oz. inch/amp	4.00		Pedal adjusters
(Ke) Volts/1000 rpm	6.86		Locking devices
Weight lbs.	1.5		Mower deck lifts
Lift Weight	400 lbs.		Blade engagement
Thrust load lbs.	1,300		Grass catcher dumping
Travel Speed	1" per second		Snow products

### STANDARD FEATURES

Designed to meet automotive application requirements	Low audible noise
Engineered for industrial and commercial long life use	Motor only or actuator designs available





*Innovative features for a growing market.*

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# Commercial/Industrial




## VDP Models Variable Displacement Axial Piston Pump

### TECHNICAL SPECIFICATIONS

				
	<b>VDP-718</b>	<b>VDP-1521</b>	<b>VDP-2028</b>	<b>VDP-3552</b>
<b>Displacements</b>	7, 9, 11, 13, 14, 16, 18 cc/rev.	15, 20, 21 cc/rev.	20, 25, 28 cc/rev.	35, 40, 45, 52 cc/rev.
<b>Max. rotation speed</b>	3600 rpm (with load)	3600 rpm (with load)	3600 rpm (with load)	3400 rpm (with load)
	3900 rpm (without load)	3900 rpm (without load)	3900 rpm (without load)	3600 rpm (without load)
<b>Min. rotation speed</b>	700 rpm	700 rpm	700 rpm	700 rpm
<b>Continue pressure</b>	3050 psi (210 bar) max.	3050 psi (210 bar) max.	3625 psi (250 bar) max.	3625 psi (250 bar) max.
<b>Intermittent pressure</b>	3900 psi (270 bar) max.	4060 psi (280 bar) max.	4640 psi (320 bar) max.	4640 psi (320 bar) max.
<b>Peak pressure</b>	4350 psi (300 bar) max.	4640 psi (320 bar) max.	5075 psi (350 bar) max.	5075 psi (350 bar) max.
<b>Temperature with standard seals</b>	194°F (90°C) max.	194°F (90°C) max.	194°F (90°C) max.	194°F (90°C) max.
<b>Weight</b>	16.5 lbs. (7.5 kg)	26.4 lbs. (12 kg)	28.6 lbs. (13 kg)	61.7 lbs. (28 kg)

## FDM Models Fixed Displacement Axial Piston Motor



### TECHNICAL SPECIFICATIONS

			
	<b>FDM-718</b>	<b>FDM-1521</b>	<b>FDM-2450</b>
<b>Displacements</b>	7, 9, 11, 13, 14, 17, 18 cc/rev.	15, 17, 20, 21 cc/rev.	24, 28, 34, 40, 50 cc/rev.
<b>Max. rotation speed</b>	3600 rpm	3600 rpm	3600 rpm
<b>Min. rotation speed</b>	500 rpm	500 rpm	500 rpm
<b>Continue pressure</b>	3050 psi (210 bar) max.	3050 psi (210 bar) max.	3050 psi (210 bar) max.
<b>Intermittent pressure</b>	3900 psi (270 bar) max.	4060 psi (280 bar) max.	3625 psi (250 bar) max.
<b>Peak pressure</b>	4350 psi (300 bar) max.	4640 psi (320 bar) max.	4568 psi (315 bar) max.
<b>Temperature with standard seals</b>	194°F (90°C) max.	194°F (90°C) max.	194°F (90°C) max.
<b>Weight</b>	7.7 lbs. (3.5 kg)	15.4 lbs. (7.0 kg)	26.4 lbs. (12 kg)



## LDP Model Hydrostatic Pumps Variable Displacement Pump

### TECHNICAL SPECIFICATIONS

			
		<b>LDP-10</b>	<b>LDP-12</b>
<b>Displacement</b>			
<b>Variable pump (max.)</b>	in <sup>3</sup> /rev	.623	.730
	cc/rev	10.2	12
	gpm@3000 rpm	8.09	9
<b>Input speeds</b>			
<b>Maximum (no load)</b>	rpm	3600	3600
<b>Minimum</b>	rpm	1800	1800
<b>System operating pressure</b>			
<b>Intermittent</b>	psi	2100	2100
	bar	145	145
<b>Continuous</b>	psi	1000	1000
	bar	70	70
<b>Case pressure</b>			
<b>Continuous</b>	psi	4	4
	bar	0.3	0.3
<b>Maximum (cold start)</b>	psi	10	10
	bar	0.7	0.7
<b>Weight</b>	lbs.	8	12.8
	kg	3.6	5.8
<b>Change pump displacement</b>	in <sup>3</sup> /rev	0.11	0.11
	cc/rev	1.9	1.9
<b>Control shaft torque</b>	in-lbs/1000 psi	85	85
	N-m/70 bar	9.6	9.6
	in-lbs/500 psi	60	60
	N-m/35 bar	6.8	6.8
<b>Pump Oil Temperature</b>			
<b>Intermittent (maximum)</b>	°F	230	230
	°C	110	110
<b>Operating range (normal)</b>	°F	-10 to 200	-10 to 200
	°C	-23 to 93	-23 to 93
<b>Fluid Viscosity Limits @ 212°F (100°C)</b>			
<b>Optimum</b>	SUS (cSt)	70 (13)	70 (13)
<b>Minimum</b>	SUS (cSt)	55 (9.0)	55 (9.0)



### F-Series features

- Available displacements: 159.6, 199.8, 250.1, 315.7, 397.0 cc/rev.
- Adaptable to many low speed applications.
- Can eliminate expensive shafts, gears, chains, sprockets, belts, pulleys and other components.
- Can be combined with Peerless LDP series pumps for more economical hydraulic drive.



### K-Series features

- Available displacements: 159.6, 199.8, 250.1, 315.7, 397.0 cc/rev.
- Long life.
- Compact design.
- Integrated high-pressure shaft seal.
- No drain line required.
- Large capacity bearing.
- High starting torque.
- High total efficiency.

*Durable drives for demanding applications.*

**PEERLESS<sup>®</sup>**  
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# PEERLESS<sup>®</sup>

## COMMERCIAL PRODUCTS

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*The trusted name in commercial, industrial, and residential drives and powertrains.*