

Model	Max. HP* (kW)	Max Input Torque (Lb.ft (nm))	Input Style#	Flywheel Housing Size	Ratio Inc. OR Dec.	Pump Adaptors	Pump Centre Distance	Approx. Weight kg
1PD06	495 (370)	1040 (1410)	P,S	1,2,3,4	1:1, 1.18:1, 1.25:1, 1.32:1, 1.40:1, 1.48:1, 1.57:1, 1.67:1	A,B,C,D,E,F	6.00"	100
2PD06	495 (370)	1040 (1410)	P,S	1,2,3,4	1:1, 1.18:1, 1.32:1, 1.40:1, 1.48:1, 1.57:1, 1.67:1	A,B,C,D,E,F	12.00"	135
2PD08	725 (540)	1523 (2065)	P,S	1,2,3,4	1:1, 1.23:1, 1.34:1, 1.40:1, 1.53:1^	A,B,C,D,E,F	16.00"	160
2PD10	950 (708)	1995 (2705)	P,S	1,2,3,4	1:1, 1.21:1, 1.29:1, 1.38:1	A,B,C,D,E,F	21.00"	230
3PD06	495 (370)	1040 (1410)	P,S	1,2,3,4	1:1, 1.17:1, 1.29:1, 1.36:1, 1.52:1^	A,B,C,D	8.49" x 12.38"	175
3PD08	725 (540)	1523 (2065)	P,S	1,2,3,4	1:1, 1.23:1, 1.34:1, 1.40:1, 1.53:1^	A,B,C,D,E,F	13.29" x 12.00"	200
3PD10	950 (708)	1995 (2705)	P,S	1,2,3,4	1:1, 1.21:1, 1.29:1, 1.38:1	A,B,C,D,E,F	15.91" x 18.00"	295
4PD08	725 (540)	1523 (2065)	P,S	1,2,3,4	1:1, 1.23:1, 1.34:1, 1.40:1, 1.53:1^	A,B,C,D,E,F	11.08" x 11.54"	240
4PD09	815 (608)	1710 (2320)	P,S	1,2,3,4	1:1, 1.20:1, 1.30:1, 1.40:1	A,B,C,D,E,F	12.18" x 13.26"	270
4PD11	1025 (765)	2153 (2920)	P,S	1,2,3,4	1:1, 1.16:1, 1.31:1, 1.39:1	A,B,C,D,E,F	16.05" x 16.00"	375

\* HP rating @ 2500RPM      # P = Plate Driven      S = Shaft Driven      ^ Increaser only

### SERVICE FACTOR

Prime Mover	Duration of Service	Driven Machine Load Classification Multiplier		
		Uniform	Moderate Shock	Heavy Shock
Electric Motor, Steam Turbine, or Hydraulic Motor	Occasional _ hr. per day	0.50	0.80	1.25
	Intermittent 3 hr. per day	0.80	1.00	1.50
	Over 3 hr. per day and incl. 10 hr. per day	1.00	1.25	1.75
	Over 10 hr. per day	1.25	1.50	2.00
Multi-Cylinder Internal Combustion Engine	Occasional _ hr. per day	0.80	1.00	1.50
	Intermittent 3 hr. per day	1.00	1.25	1.75
	Over 3 hr. per day and incl. 10 hr. per day	1.25	1.50	2.00
	Over 10 hr. per day	1.50	1.75	2.25
Single Cylinder Internal Combustion Engine	Occasional _ hr. per day	1.00	1.25	1.75
	Intermittent 3 hr. per day	1.25	1.50	2.00
	Over 3 hr. per day 10 hr. per day	1.50	1.75	2.25
	Over 10 hr. per day	1.75	2.00	2.50

Input Torque Calculation      Maximum Rated Input Torque    Max Application Torque X Service Factor

Caution: Always insure your powertrain is free of torsional vibrations. DURST is not responsible for damage or failure due to unaddressed torsional vibrations

### CONVERSIONS AND USEFUL FORMULA

#### TORQUE

Nm x 0.7376 = lbf ft  
lbf ft x 1.356 = Nm

#### POWER

kW x 1.341 = HP  
HP x 0.7457 = kW

#### POWER TORQUE AND SPEED RELATIONSHIPS US UNITS

$$T = \frac{HP \times 5252}{RPM} \quad HP = \frac{T \times RPM}{5252} \quad RPM = \frac{HP \times 5252}{T}$$

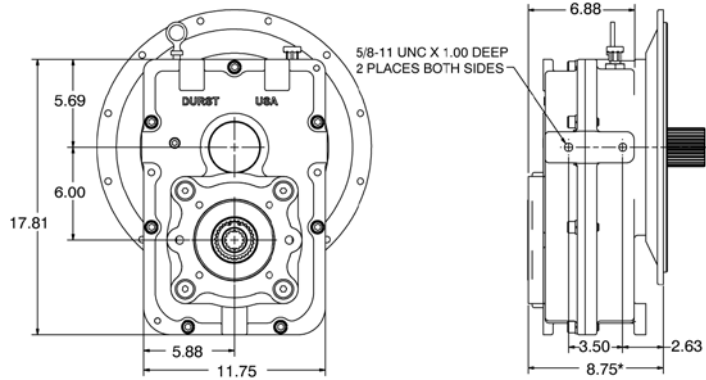
Where T = Torque Ft Lbs  
HP = Horsepower  
RPM = Revs Per Minute

#### POWER TORQUE AND SPEED RELATIONSHIPS ISO UNITS

$$T = \frac{kW \times 9549}{RPM} \quad kW = \frac{T \times RPM}{9549} \quad RPM = \frac{kW \times 9549}{T}$$

Where T = Torque Newton Metres  
kW = Kilowatts  
RPM = Revs Per Minute

### MODEL 1PD

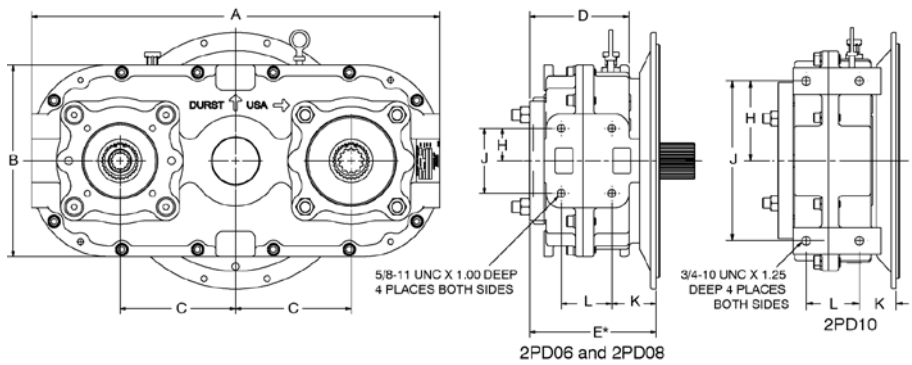


\* Pads SAE D2 and E = 8.88" F = 9.25"

### MODEL 2PD

	2PD06	2PD08	2PD10
A	23.00"	28.24"	37.00"
B	11.50"	13.25"	16.50"
C	6.00"	8.00"	10.50"
D	6.88"	6.88"	6.88"
E*	8.75"	8.75"	8.75"
H	2.25"	2.25"	6.00"
J	4.50"	4.50"	12.00"
K	2.62"	3.06"	2.75"
L	3.50"	3.50"	4.00"

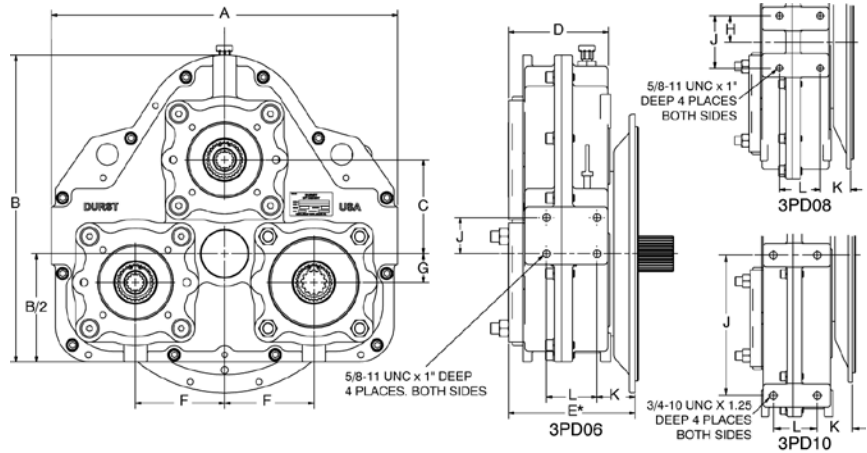
\* Pads SAE D2 and E = 8.88" F = 9.25"



### MODEL 3PD

	3PD06	3PD08	3PD10
A	24.00"	25.00"	33.50"
B	21.25"	26.75"	32.60"
B/2	7.50"	11.79"	13.18"
C	6.50"	8.00"	10.50"
D	6.88"	6.88"	6.88"
E*	8.75"	8.75"	8.75"
F	6.19"	6.00"	9.00"
G	1.99"	5.29"	5.41"
H	0	2.25"	0
J	2.50"	4.50"	12.00"
K	2.62"	2.63"	3.00"
L	3.50"	3.50"	3.75"

\* Pads SAE D2 and E = 8.88" F = 9.25"



### MODEL 4PD

	4PD08	4PD09	4PD11
A	25.00"	28.00"	32.25"
B	25.52"	28.02"	33.00"
B/2	11.88"	13.13"	16.50"
C	8.00"	9.00"	11.33"
D	6.88"	7.63"	6.88"
E*	8.75"	8.75"	8.75"
F	5.77"	6.63"	8.00"
G	5.54"	6.09"	8.03"
H	2.25"	4.75"	4.00"
J	4.50"	9.50"	8.00"
K	2.62"	3.13"	3.06"
L	3.50"	3.75"	4.00"

\* Pads SAE D2 and E = 8.88" F = 9.25"

