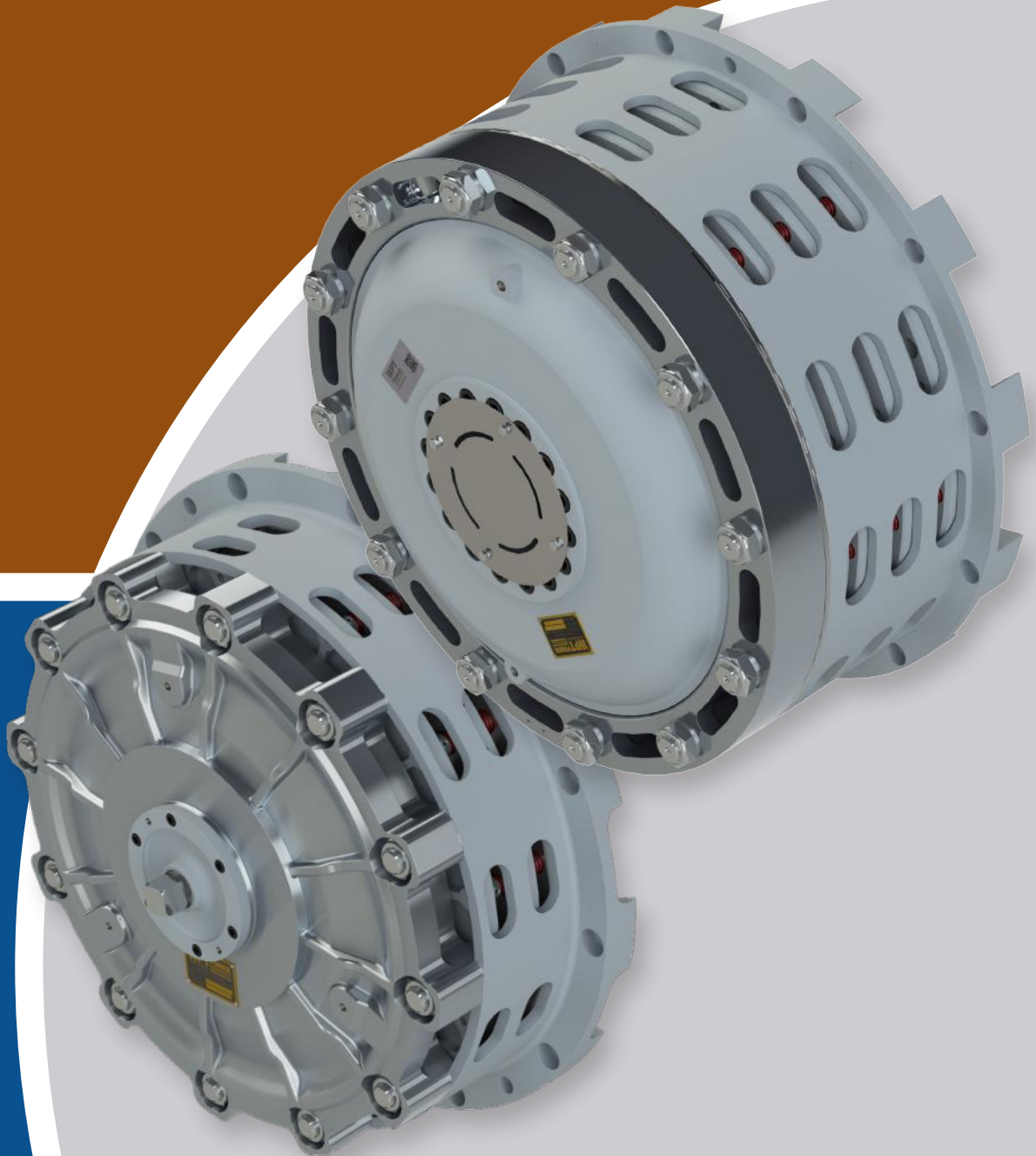




Mining Brakes and Clutches

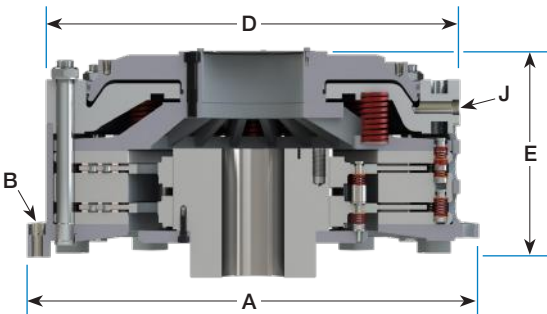




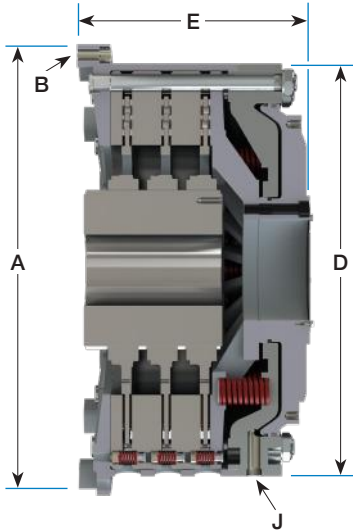
Mining Brakes



WPT Power's Mining Brakes and Clutches are designed specifically for heavy earthmoving equipment, such as rope shovels and draglines. These brake and clutch units are suitable for pneumatic operation, have a variety of torque capacities and pressure settings, and can dissipate large thermal loads. WPT Mining Brake and Clutch units are 100% compatible with competitor products, and multiple hub options are available.



Vertical Mount



Horizontal Mount

Mining Brake Specifications

Model	Torque Rating @ 60 psi (4.1 Bar)*		Weight and Inertia			Lining Area
	Static Torque		Total Weight Less Hub	Drive Plate Weight	Drive Plate Inertia	
	lbf-in (N-m)		lb (kg)	lb (kg)	lbf-ft² (kg-m²)	
PE-113	21,700 (2450)		180 (82)	16 (7)	2.6 (0.11)	90 (580)
PE-117	44,500 (5030)		350 (160)	34 (16)	8.5 (0.36)	134 (870)
PE-217	82,200 (9290)		470 (210)	60 (27)	16 (0.66)	270 (1700)
PE-121	86,700 (9800)		520 (240)	43 (20)	17 (0.73)	200 (1300)
PE-221	158,000 (17900)		660 (300)	96 (44)	35 (1.5)	400 (2600)
PE-321	212,000 (24000)		880 (400)	150 (69)	55 (2.3)	600 (3900)
PE-225	278,000 (31400)		1,200 (530)	150 (69)	89 (3.8)	540 (3500)
PE-325	386,000 (43600)		1,500 (680)	230 (110)	130 (5.4)	810 (5200)
PE-130	272,000 (30700)		1,600 (700)	100 (46)	84 (3.5)	340 (2200)

Mining Brake Dimensions

Model	A		B			D	E	J Air Inlet
	(+.003/ -.000)	(+0.08/ -0.00)	Hole Circle	Diameter	Quantity			
	in (mm)	in (mm)				in	in (mm)	in (mm)
PE-113	18.872 (479.35)		17.63 (447.7)	21/32	8	16 5/8 (422.4)	6 9/16 (166.6)	1/2
PE-117	23.995 (609.47)		22.50 (571.5)	25/32	12	21 (533.4)	8 5/8 (218.4)	1/2
PE-217	23.995 (609.47)		22.50 (571.5)	25/32	12	21 (533.4)	11 1/16 (280.7)	1/2
PE-121	28.245 (717.42)		26.75 (679.5)	25/32	12	25 (635.0)	9 1/8 (231.1)	3/4
PE-221	28.245 (717.42)		26.75 (679.5)	25/32	12	25 (635.0)	11 1/4 (286.3)	3/4
PE-321	28.245 (717.42)		26.75 (679.5)	25/32	12	25 (635.0)	13 1/2 (342.1)	3/4
PE-225	32.495 (825.37)		31.00 (787.4)	25/32	12	29 3/4 (755.7)	14 1/8 (358.9)	3/4
PE-325	32.495 (825.37)		31.00 (787.4)	25/32	12	29 3/4 (755.7)	16 15/16 (430.8)	3/4
PE-130	38.995 (990.47)		37.00 (939.8)	29/32	12	35 1/2 (901.7)	15 1/16 (382.5)	3/4

Consult WPT Application Engineering for application assistance, service factors, specifications, and detailed drawings/3D models.

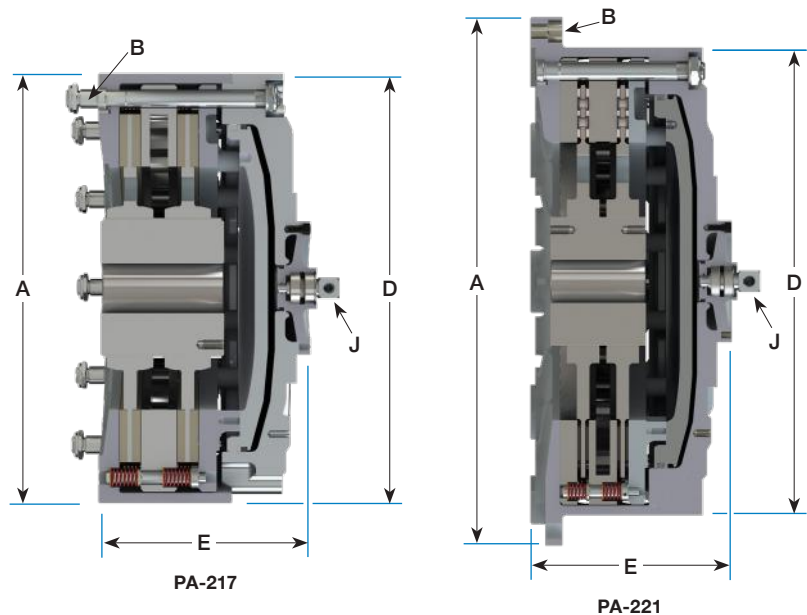
*Dynamic (slipping) Torque is 75% of the Static Torque.

NOTE: Contact WPT for other available torques and release pressures.

Mining Clutches



- Interchangeable with competitor products
- Premium metallic friction linings
- Vertical & Horizontal mounting
- Available with limit switches and wear indicators



Mining Clutch Specifications

Model	Torque-- Rating @ 100 psi (7 Bar)*	Weight and Inertia				Lining Area
	Static Torque	Total Weight Less Hub	Total Inertia Less Hub	Drive Plate Weight	Drive Plate Inertia	
	lbf-in (N-m)	lb (kg)	lbf-ft ² (kg-m ²)	lb (kg)	lbf-ft ² (kg-m ²)	
PA-217	163,000 (18400)	340 (160)	160.00 (6.7)	60 (27)	15 (0.64)	460 (3000)
PA-221	338,000 (38100)	525 (240)	360.00 (15.2)	100 (46)	37 (1.6)	400 (2600)

Mining Clutch Dimensions

Model	A		B			D	E	J Air Inlet
	(+.003/ -.000)	(+0.08/ -0.00)	Hole Circle	Diameter	Quantity			
	in (mm)		in (mm)	in		in (mm)	in (mm)	NPT
PA-217	20.995 (533.27)		18.50 (469.9)	7/8 - 14 NF	12	21 (533.4)	10 3/4 (272.7)	1/4
PA-221	28.245 (717.40)		26.75 (679.5)	25/32	12	25 (635.0)	10 5/16 (262.4)	3/8



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