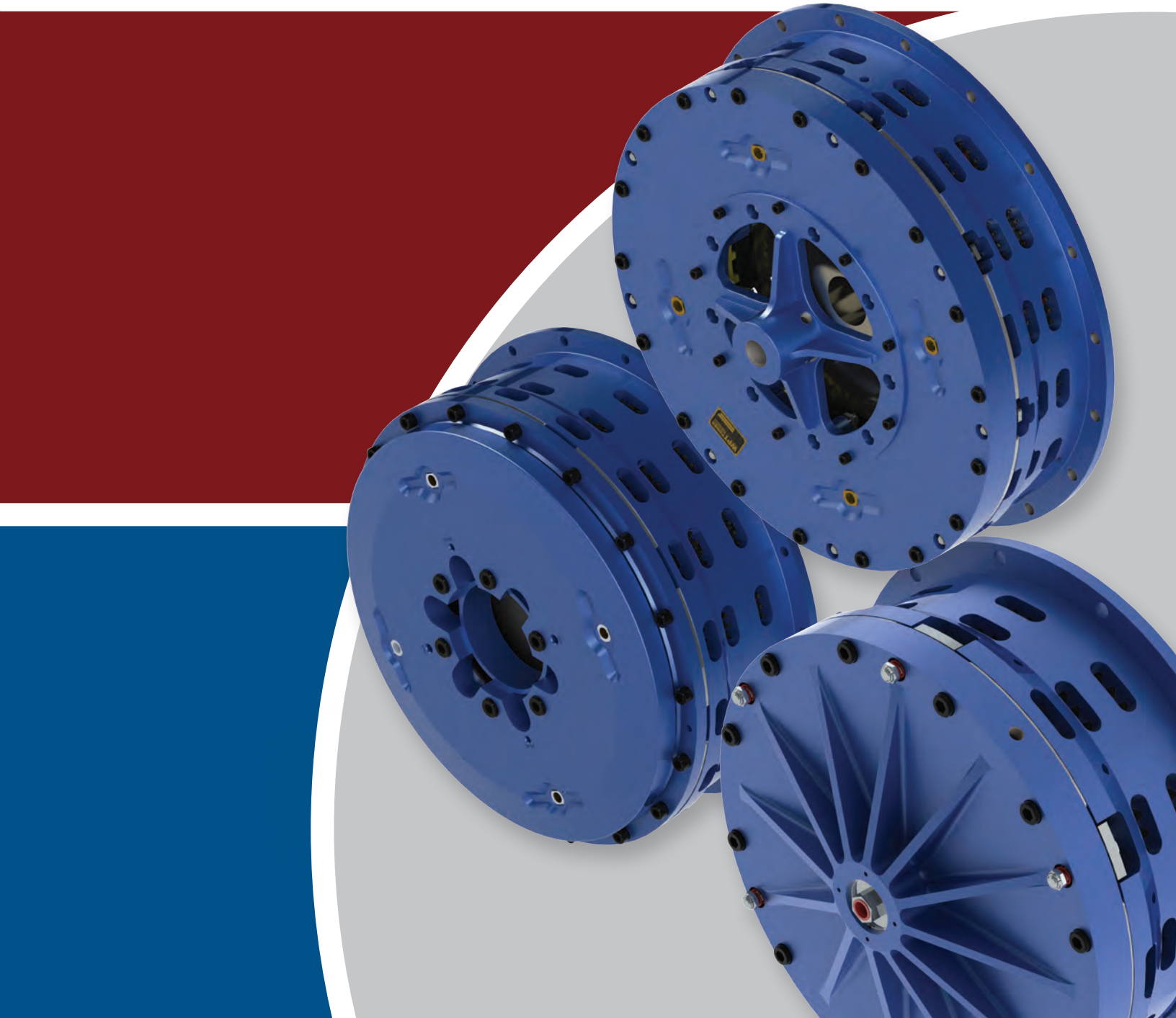
WPT® POWER

Low Inertia Clutches and Brakes



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.
4. 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

Low Inertia Clutches

WPT Low Inertia (LI) Clutches are well suited for high cycle applications, such as steel shears and stamping presses. The Low Inertia design reduces the rotational mass during starts and stops, allowing for increased cycles per minute and reduced deceleration times. This advantage also leads to reduced heat generation during dynamic braking conditions. WPT's Low Inertia Clutches are available in 1, 2, or 3 plate construction with diameters ranging from 6 through 60 inches.

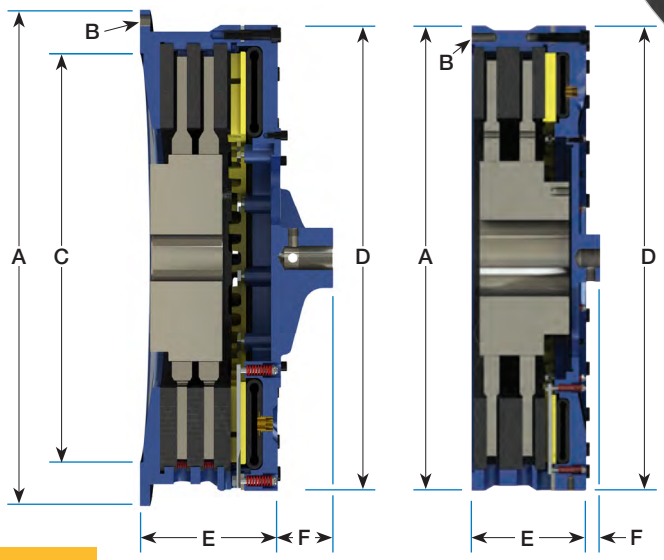
- High cycle life
- Predictable preventative maintenance
- Hydraulic actuation available
- Slotted, solid and ventilated center plates available
- Marine corrosion protection available
- Type approval certification available: DNV, ABS, ATEX
- *See Power Perfomance upgrade on page 12*

LI Clutch Specifications

Model	Torque Rating @ 100 psi (7 bar)		Maximum Speed			Weight and Inertia								Lining Area		Bore Range*			
	Static Torque **		Complete Clutch	Hub/CPs only	Slip Speed	Total Weight		Total Inertia		Hub & CP Weight		Hub & CP Inertia				Minimum		Maximum	
	lbf·in	(N·m)	r/min			lb	(kg)	lb-ft^2	(kg·m^2)	lb	(kg)	lb-ft^2	(kg·m^2)	in^2	(cm^2)	in	(mm)	in	(mm)
106	4520	(510)	3930	5290	3530	23	(10)	1.6	(0.066)	6.6	(3.0)	0.17	(0.0072)	39	(250)	0.88	(22.4)	1.90	(48.3)
206	9030	(1020)	3930	5290	3530	36	(16)	1.2	(0.052)	12	(5.6)	0.35	(0.015)	78	(500)	0.88	(22.4)	1.90	(48.3)
108	7480	(845)	2840	4300	2870	56	(25)	7.2	(0.30)	9.3	(4.2)	0.46	(0.019)	55	(360)	0.94	(23.8)	2.50	(63.5)
208	15000	(1690)	2840	4300	2870	64	(29)	8.1	(0.34)	21	(10)	0.90	(0.038)	110	(710)	1.13	(28.7)	2.50	(63.5)
111	16800	(1900)	2150	3130	2090	130	(60)	26	(1.1)	27	(12)	2.3	(0.10)	110	(730)	1.25	(31.8)	2.80	(71.1)
211	33600	(3790)	2150	3130	2090	170	(77)	31	(1.3)	51	(23)	4.6	(0.19)	230	(1500)	1.25	(31.8)	2.80	(71.1)
311	50300	(5690)	2150	3130	2090	210	(96)	32	(1.3)	75	(34)	6.3	(0.27)	340	(2200)	1.25	(31.8)	2.80	(71.1)
114	28300	(3190)	1840	2460	1640	190	(88)	52	(2.2)	48	(22)	5.8	(0.24)	170	(1100)	1.50	(38.1)	3.30	(83.8)
214	56500	(6390)	1840	2460	1640	240	(110)	72	(3.0)	74	(34)	12	(0.47)	330	(2100)	1.88	(47.8)	3.90	(99.1)
314	84800	(9580)	1840	2460	1640	290	(130)	76	(3.2)	120	(56)	17	(0.72)	500	(3200)	1.88	(47.8)	3.90	(99.1)
116	38900	(4390)	1620	2150	1440	290	(130)	110	(4.6)	67	(31)	11	(0.45)	230	(1500)	2.13	(54.1)	4.20	(106.7)
216	77700	(8780)	1620	2150	1440	340	(160)	94	(4.0)	110	(49)	19	(0.81)	460	(2900)	2.13	(54.1)	4.20	(106.7)
316	117000	(13200)	1620	2150	1440	460	(210)	170	(7.0)	160	(71)	29	(1.2)	680	(4400)	2.13	(54.1)	4.20	(106.7)
118	64900	(7330)	1480	1950	1300	350	(160)	150	(6.2)	76	(34)	13	(0.56)	240	(1600)	2.25	(57.2)	4.90	(124.5)
218	130000	(14700)	1480	1910	1280	410	(190)	180	(7.5)	150	(70)	38	(1.6)	520	(3300)	2.25	(57.2)	4.90	(124.5)
318	195000	(22000)	1480	1950	1300	530	(240)	210	(8.9)	220	(100)	52	(2.2)	720	(4600)	2.75	(69.9)	4.90	(124.5)
121	93300	(10500)	1280	1640	1100	470	(210)	300	(13)	190	(88)	34	(1.4)	360	(2300)	2.75	(69.9)	6.30	(160.0)
221	187000	(21100)	1280	1640	1100	680	(310)	340	(14)	270	(120)	39	(1.6)	720	(4600)	2.75	(69.9)	6.30	(160.0)
321	280000	(31600)	1280	1680	1120	760	(340)	420	(18)	270	(120)	71	(3.0)	980	(6300)	2.75	(69.9)	6.30	(160.0)
124H	165000	(18600)	1150	1430	955	640	(290)	470	(20)	200	(89)	57	(2.4)	580	(3700)	2.75	(69.9)	6.30	(160.0)
224H	330000	(37300)	1150	1430	955	820	(370)	520	(22)	270	(120)	118	(5.0)	1200	(7400)	2.75	(69.9)	6.30	(160.0)
324H	495000	(55900)	1150	1430	955	1100	(480)	790	(33)	390	(180)	150	(6.4)	1700	(11000)	2.75	(69.9)	6.30	(160.0)
227	371000	(41900)	1050	1270	850	1100	(480)	910	(38)	390	(180)	206	(8.7)	1500	(9400)	3.25	(82.6)	6.30	(160.0)
327	556000	(62800)	1050	1270	850	1200	(530)	1100	(44)	430	(190)	298	(13)	2200	(14000)	3.25	(82.6)	6.30	(160.0)
230H	692000	(78200)	930	1150	770	1400	(620)	1500	(61)	520	(230)	350	(15)	1700	(11000)	3.50	(88.9)	7.00	(177.8)
330H	1040000	(117000)	930	1150	770	1800	(810)	1900	(78)	750	(340)	400	(17)	2500	(16000)	3.50	(88.9)	7.00	(177.8)
236	1060000	(119000)	790	960	640	2000	(900)	3200	(140)	780	(360)	470	(20)	2200	(15000)	5.50	(139.7)	8.40	(213.4)
336	1590000	(179000)	790	960	640	2800	(1300)	4900	(210)	870	(400)	600	(25)	3400	(22000)	5.50	(139.7)	8.40	(213.4)
242	1500000	(170000)	660	830	555	2800	(1200)	5400	(230)	950	(430)	1200	(50)	2700	(18000)	7.50	(190.5)	11.20	(284.5)
342	2250000	(254000)	660	830	555	3700	(1700)	9200	(390)	1000	(470)	2700	(110)	4100	(26000)	7.50	(190.5)	11.20	(284.5)
248	2810000	(317000)	605	720	480	4700	(2100)	14000	(580)	3000	(1300)	3300	(140)	4000	(26000)	10.00	(254.0)	14.50	(368.3)
348	4210000	(475000)	605	720	480	6200	(2800)	19000	(810)	3000	(1300)	5200	(220)	6000	(39000)	10.00	(254.0)	14.50	(368.3)
260	5950000	(672000)	490	570	480	9500	(4300)	49000	(2100)	3300	(1500)	8500	(360)	7200	(47000)	10.00	(254.0)	18.90	(480.1)
360	8930000	(1010000)	490	570	480	12000	(5300)	57000	(2400)	5000	(2300)	13000	(540)	11000	(70000)	10.00	(254.0)	18.90	(480.1)
460	11900000	(1340000)	490	570	480	15000	(6600)	69000	(2900)	7600	(3500)	19000	(800)	15000	(94000)	10.00	(254.0)	18.90	(480.1)

Consult WPT Application Engineering for application assistance, service factors, specifications, and detailed drawings/3D models.
*Contact WPT for larger bore sizes. Listed bore sizes are for square key.
**Dynamic (slipping) Torque is 75% of the Static Torque.

Low Inertia Clutches



LI Clutch Dimension

Size 242-460

Model	Imperial Mounting								Metric Mounting					D		E (Ventilated)		E (DSCP)		F	
	A		B				C		A	B			C								
	+0.000/-0.003	(+0.00/-0.08)	Hole Circle		Dia.	Qty	+0.003/-0.000	(+0.08/-0.00)	(+0.00/-0.08)	Hole Circle	Dia.	Qty	H7								
	in	(mm)	in	(mm)	in		in	(mm)	(mm)	(mm)	(mm)		(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)
106	8.753	(222.33)	8.00	(203.2)	11/32	4	7.377	(187.38)	(220.04)	(203.0)	(9.0)	4	(190.00)	8 13/16	(223.8)	3 3/4	(95)	-	-	1 7/16	(36.5)
206	8.753	(222.33)	8.00	(203.2)	11/32	4	7.377	(187.38)	(220.04)	(203.0)	(9.0)	4	(190.00)	8 13/16	(223.8)	4 15/16	(125)	-	-	1 7/16	(36.5)
108	12.125	(307.98)	11.13	(282.7)	17/32	6	8.375	(212.73)	(310.00)	(280.0)	(14.0)	6	(220.00)	11 1/8	(282.6)	4 9/16	(116)	5 7/8	(149)	1 3/4	(44.5)
208	12.125	(307.98)	11.13	(282.7)	17/32	6	8.375	(212.73)	(310.00)	(280.0)	(14.0)	6	(220.00)	11 1/8	(282.6)	5 15/16	(151)	7 1/4	(184)	1 3/4	(44.5)
111	16.000	(406.40)	14.75	(374.7)	21/32	6	11.375	(288.93)	(400.00)	(375.0)	(18.0)	6	(295.00)	14 3/4	(374.7)	5 7/16	(138)	-	-	1 3/4	(44.5)
211	16.000	(406.40)	14.75	(374.7)	21/32	6	11.375	(288.93)	(400.00)	(375.0)	(18.0)	6	(295.00)	14 3/4	(374.7)	7 1/4	(184)	8 1/4	(209)	1 3/4	(44.5)
311	16.000	(406.40)	14.75	(374.7)	21/32	6	11.375	(288.93)	(400.00)	(375.0)	(18.0)	6	(295.00)	14 3/4	(374.7)	9	(229)	-	-	1 3/4	(44.5)
114	18.750	(476.25)	17.50	(444.5)	21/32	8	14.375	(365.13)	(470.00)	(445.0)	(18.0)	8	(370.00)	17 1/2	(444.5)	6	(152)	-	-	1 3/4	(44.5)
214	18.750	(476.25)	17.50	(444.5)	21/32	8	14.375	(365.13)	(470.00)	(445.0)	(18.0)	8	(370.00)	17 1/2	(444.5)	8	(203)	9 1/2	(241)	1 3/4	(44.5)
314	18.750	(476.25)	17.50	(444.5)	21/32	8	14.375	(365.13)	(470.00)	(445.0)	(18.0)	8	(370.00)	17 1/2	(444.5)	9 13/16	(249)	-	-	1 3/4	(44.5)
116	21.248	(539.70)	20.00	(508.0)	21/32	12	16.250	(412.75)	(540.00)	(510.0)	(18.0)	12	(410.00)	20	(508.0)	6 5/16	(160)	-	-	1 3/4	(44.5)
216	21.248	(539.70)	20.00	(508.0)	21/32	12	16.250	(412.75)	(540.00)	(510.0)	(18.0)	12	(410.00)	20	(508.0)	8 1/4	(210)	-	-	1 3/4	(44.5)
316	21.248	(539.70)	20.00	(508.0)	21/32	12	16.250	(412.75)	(540.00)	(510.0)	(18.0)	12	(410.00)	20	(508.0)	10 1/8	(257)	11 7/8	(302)	1 3/4	(44.5)
118	23.250	(590.55)	22.00	(558.8)	21/32	12	18.250	(463.55)	(590.00)	(560.0)	(18.0)	12	(470.00)	22	(558.8)	6 3/4	(171)	10 11/16	(271)	1 5/8	(41.3)
218	23.250	(590.55)	22.00	(558.8)	21/32	12	18.250	(463.55)	(590.00)	(560.0)	(18.0)	12	(470.00)	22	(558.8)	8 5/8	(219)	10 1/2	(267)	1 5/8	(41.3)
318	23.250	(590.55)	22.00	(558.8)	21/32	12	18.250	(463.55)	(590.00)	(560.0)	(18.0)	12	(470.00)	22	(558.8)	10 1/2	(267)	12 3/16	(310)	1 5/8	(41.3)
121	27.000	(685.80)	25.50	(647.7)	21/32	12	21.375	(542.93)	(685.00)	(648.0)	(18.0)	12	(540.00)	24 7/8	(631.8)	7 3/8	(187)	-	-	2	(50.8)
221	27.000	(685.80)	25.50	(647.7)	21/32	12	21.375	(542.93)	(685.00)	(648.0)	(18.0)	12	(540.00)	24 7/8	(631.8)	9 1/2	(241)	-	-	2	(50.8)
321	27.000	(685.80)	25.50	(647.7)	21/32	12	21.375	(542.93)	(685.00)	(648.0)	(18.0)	12	(540.00)	24 7/8	(631.8)	11 5/8	(295)	-	-	2	(50.8)
124H	30.000	(762.00)	28.75	(730.3)	21/32	12	24.375	(619.13)	(760.00)	(730.0)	(18.0)	12	(620.00)	29	(736.6)	7 5/8	(194)	-	-	2 1/4	(57.2)
224H	30.000	(762.00)	28.75	(730.3)	21/32	12	24.375	(619.13)	(760.00)	(730.0)	(18.0)	12	(620.00)	29	(736.6)	9 15/16	(252)	12 1/16	(306)	2 1/4	(57.2)
324H	30.000	(762.00)	28.75	(730.3)	21/32	12	24.375	(619.13)	(760.00)	(730.0)	(18.0)	12	(620.00)	29	(736.6)	12 3/16	(310)	14	(356)	2 1/4	(57.2)
227	32.750	(831.85)	31.50	(800.1)	21/32	16	27.375	(695.33)	(830.00)	(800.0)	(18.0)	16	(700.00)	31	(787.4)	10 3/8	(264)	12 1/8	(308)	1 3/4	(44.5)
327	32.750	(831.85)	31.50	(800.1)	21/32	16	27.375	(695.33)	(830.00)	(800.0)	(18.0)	16	(700.00)	31	(787.4)	12 3/4	(324)	12 5/16	(313)	1 3/4	(44.5)
230H	37.000	(939.80)	35.50	(901.7)	25/32	18	30.375	(771.53)	(940.00)	(900.0)	(22.0)	18	(775.00)	34 3/4	(882.7)	11 11/16	(297)	15 5/8	(397)	4 3/8	(111.1)
330H	37.000	(939.80)	35.50	(901.7)	25/32	18	30.375	(771.53)	(940.00)	(900.0)	(22.0)	18	(775.00)	34 3/4	(882.7)	12 7/16	(316)	16 9/16	(420)	4 3/8	(111.1)
236	43.500	(1104.90)	42.00	(1066.8)	25/32	18	36.375	(923.93)	(1105.00)	(1065.0)	(22.0)	18	(925.00)	41	(1041.4)	12 7/16	(316)	15 1/4	(383)	1 7/16	(36.5)
336	43.500	(1104.90)	42.00	(1066.8)	25/32	18	36.375	(923.93)	(1105.00)	(1065.0)	(22.0)	18	(925.00)	41	(1041.4)	17 1/16	(433)	18 9/16	(471)	1 3/4	(44.5)
242*	49.000	(1244.60)	49.25	(1251.0)	1" - 8NC	24	45.000	(1143.00)	(1320.00)	(1250.0)	(33.0)	24	(1134.00)	49	(1244.6)	11 7/8	(302)	13 3/8	(340)	4 1/2	(114.3)
342*	49.000	(1244.60)	49.25	(1251.0)	1" - 8NC	24	45.000	(1143.00)	(1320.00)	(1250.0)	(33.0)	24	(1134.00)	49	(1244.6)	14 3/4	(375)	-	-	4 1/2	(114.3)
248*	56.750	(1441.45)	54.00	(1371.6)	1" - 8NC	24	52.000	(1320.80)	(1600.00)	(1540.0)	M24 x 3	24	(1220.00)	56 3/4	(1441.5)	13 3/4	(349)	-	-	4	(101.6)
348*	56.750	(1441.45)	54.00	(1371.6)	1" - 8NC	24	52.000	(1320.80)	(1600.00)	(1540.0)	M24 x 3	24	(1220.00)	56 3/4	(1441.5)	16 1/4	(413)	-	-	4	(101.6)
260*	70.500	(1790.70)	66.50	(1689.1)	2" - 4.5NC	24	62.750	(1593.85)	(1790.00)	(1689.0)	2" - 4.5 NC	24	(1590.00)	70 1/2	(1790.7)	17 5/8	(448)	-	-	2 3/8	(60.3)
360*	70.500	(1790.70)	66.50	(1689.1)	2" - 4.5NC	24	62.750	(1593.85)	(1790.00)	(1689.0)	2" - 4.5 NC	24	(1590.00)	70 1/2	(1790.7)	22 5/8	(575)	-	-	2 3/8	(60.3)
460*	70.500	(1790.70)	66.50	(1689.1)	2" - 4.5NC	24	62.750	(1593.85)	(1790.00)	(1689.0)	2" - 4.5 NC	24	(1590.00)	70 1/2	(1790.7)	27 1/8	(689)	-	-	2 3/8	(60.3)

Consult WPT Application Engineering for application assistance, service factors, specifications, and detailed drawings/3D models.
*Shipped without backplate.

Low Inertia Brakes

WPT Low Inertia (LI) Brakes are well suited for high cycle and tension control applications, such as steel shears and unwind stands. The LI brakes utilize a ventilated design to optimize the airflow in and out of the brake. This increased airflow allows the brake to run cool in high cycle applications. WPT's Low Inertia Brakes are available in 1, 2, or 3 plate construction with diameters ranging from from 6 through 60 inches.

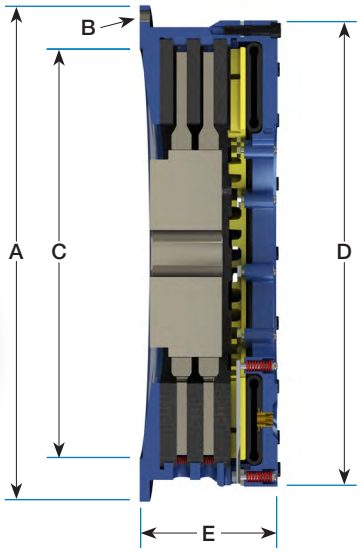
- High cycle life
- Predictable preventative maintenance
- Hydraulic actuation available
- Slotted, solid and ventilated center plates available
- Marine corrosion protection available
- Type approval certification available: DNV, ABS, ATEX
- *See Power Perfomance upgrade on page 12*

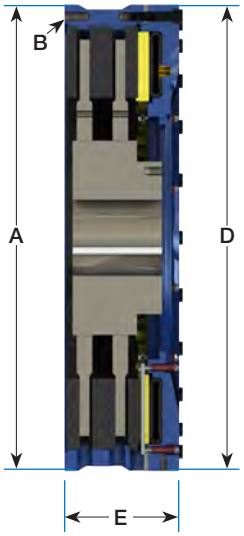
LI Brake Specifications

Model	Torque Rating @ 100 psi (7 bar)		Maximum Speed		Weight and Inertia						Lining Area		Bore Range*			
	Static Torque**		Hub/CPs	Slip	Total Weight		Hub & CP Weight		Hub & CP Inertia				Minimum		Maximum	
	lbf-in	(N-m)	r/min		lb	(kg)	lb	(kg)	lb-ft^2	(kg-m^2)	in^2	(cm^2)	in	(mm)	in	(mm)
106	4520	(510)	5290	3530	23	(10)	6.6	(3.0)	0.17	(0.0072)	39	(250)	0.88	(22.4)	1.90	(48.3)
206	9030	(1020)	5290	3530	36	(16)	12	(5.6)	0.35	(0.015)	78	(500)	0.88	(22.4)	1.90	(48.3)
108	7480	(845)	4300	2870	56	(25)	9.3	(4.2)	0.46	(0.019)	55	(360)	0.94	(23.9)	2.50	(63.5)
208	15000	(1690)	4300	2870	64	(29)	21	(10)	0.90	(0.038)	110	(710)	1.13	(28.7)	2.50	(63.5)
111	16800	(1900)	3130	2090	130	(60)	27	(12)	2.3	(0.10)	110	(730)	1.25	(31.8)	2.80	(71.1)
211	33600	(3790)	3130	2090	170	(77)	51	(23)	4.6	(0.19)	230	(1500)	1.25	(31.8)	2.80	(71.1)
311	50300	(5690)	3130	2090	210	(96)	75	(34)	6.3	(0.27)	340	(2200)	1.25	(31.8)	2.80	(71.1)
114	28300	(3190)	2460	1640	190	(88)	48	(22)	5.8	(0.24)	170	(1100)	1.50	(38.1)	3.30	(83.8)
214	56500	(6390)	2460	1640	240	(110)	74	(34)	12	(0.47)	330	(2100)	1.88	(47.8)	3.90	(99.1)
314	84800	(9580)	2460	1640	290	(130)	120	(56)	17	(0.72)	500	(3200)	1.88	(47.8)	3.90	(99.1)
116	38900	(4390)	2150	1440	290	(130)	67	(31)	11	(0.45)	230	(1500)	2.13	(54.1)	4.20	(106.7)
216	77700	(8780)	2150	1440	340	(160)	110	(49)	19	(0.81)	460	(2900)	2.13	(54.1)	4.20	(106.7)
316	117000	(13200)	2150	1440	460	(210)	160	(71)	29	(1.2)	680	(4400)	2.13	(54.1)	4.20	(106.7)
118	64900	(7330)	1950	1300	350	(160)	76	(34)	13	(0.56)	240	(1600)	2.25	(57.2)	4.90	(124.5)
218	130000	(14700)	1910	1280	410	(190)	150	(70)	38	(1.6)	520	(3300)	2.25	(57.2)	4.90	(124.5)
318	195000	(22000)	1950	1300	530	(240)	220	(100)	52	(2.2)	720	(4600)	2.75	(69.9)	4.90	(124.5)
121	93300	(10500)	1640	1100	470	(210)	190	(88)	34	(1.4)	360	(2300)	2.75	(69.9)	6.30	(160.0)
221	187000	(21100)	1640	1100	680	(310)	270	(120)	39	(1.6)	720	(4600)	2.75	(69.9)	6.30	(160.0)
321	280000	(31600)	1680	1120	760	(340)	270	(120)	71	(3.0)	980	(6300)	2.75	(69.9)	6.30	(160.0)
124H	165000	(18600)	1430	955	640	(290)	200	(89)	57	(2.4)	580	(3700)	2.75	(69.9)	6.30	(160.0)
224H	330000	(37300)	1430	955	820	(370)	270	(120)	118	(5.0)	1200	(7400)	2.75	(69.9)	6.30	(160.0)
324H	495000	(55900)	1430	955	1100	(480)	390	(180)	150	(6.4)	1700	(11000)	2.75	(69.9)	6.30	(160.0)
227	371000	(41900)	1270	850	1100	(480)	390	(180)	206	(8.7)	1500	(9400)	3.25	(82.6)	6.30	(160.0)
327	556000	(62800)	1270	850	1200	(530)	430	(190)	298	(13)	2200	(14000)	3.25	(82.6)	6.30	(160.0)
230H	692000	(78200)	1150	770	1400	(620)	520	(230)	350	(15)	1700	(11000)	3.50	(88.9)	7.00	(177.8)
330H	1040000	(117000)	1150	770	1800	(810)	750	(340)	400	(17)	2500	(16000)	3.50	(88.9)	7.00	(177.8)
236	1060000	(119000)	960	640	2000	(900)	780	(360)	470	(20)	2200	(15000)	5.50	(139.7)	8.40	(213.4)
336	1590000	(179000)	960	640	2800	(1300)	870	(400)	600	(25)	3400	(22000)	5.50	(139.7)	8.40	(213.4)
242	1500000	(170000)	830	555	2800	(1200)	950	(430)	1200	(50)	2700	(18000)	7.50	(190.5)	11.20	(284.5)
342	2250000	(254000)	830	555	3700	(1700)	1000	(470)	2700	(110)	4100	(26000)	7.50	(190.5)	11.20	(284.5)
248	2810000	(317000)	720	480	4700	(2100)	3000	(1300)	3300	(140)	4000	(26000)	10.00	(254.0)	14.50	(368.3)
348	4210000	(475000)	720	480	6200	(2800)	3000	(1300)	5200	(220)	6000	(39000)	10.00	(254.0)	14.50	(368.3)
260	5950000	(672000)	570	480	9500	(4300)	3300	(1500)	8500	(360)	7200	(47000)	10.00	(254.0)	18.90	(480.1)
360	8930000	(1010000)	570	480	12000	(5300)	5000	(2300)	13000	(540)	11000	(70000)	10.00	(254.0)	18.90	(480.1)
460	11900000	(1340000)	570	480	15000	(6600)	7600	(3500)	19000	(800)	15000	(94000)	10.00	(254.0)	18.90	(480.1)

Consult WPT Application Engineering for application assistance, service factors, specifications, and detailed drawings/3D models.
*Contact WPT for larger bore sizes. Listed bore sizes are for square key.
**Dynamic (slipping) Torque is 75% of the Static Torque.

Low Inertia Brakes





Size 242-460

LI Brake Dimension

Model	Imperial Mounting								Metric Mounting					D		E (Ventilated)		E (DSCP)	
	A		B				C		A	B			C						
	+0.000/-0.003	(+0.00/-0.08)	Hole Circle		Dia	Qty	+0.003/-0.000	(+0.08/-0.00)	(+0.00/-0.08)	Hole Circle	Dia	Qty	H7						
	in	(mm)	in	(mm)	in		in	(mm)	(mm)	(mm)	(mm)		(mm)	in	(mm)	in	(mm)	in	(mm)
106	8.753	(222.33)	8.00	(203.2)	11/32	4	7.377	(187.38)	(220.04)	(203.0)	(9.0)	4	(190.00)	8 13/16	(223.8)	3 3/4	(36.5)	-	-
206	8.753	(222.33)	8.00	(203.2)	11/32	4	7.377	(187.38)	(220.04)	(203.0)	(9.0)	4	(190.00)	8 13/16	(223.8)	4 15/16	(36.5)	-	-
108	12.125	(307.98)	11.13	(282.7)	17/32	6	8.375	(212.80)	(310.00)	(280.0)	(14.0)	6	(220.00)	11 1/8	(282.6)	4 9/16	(44.5)	5 7/8	(149)
208	12.125	(307.98)	11.13	(282.7)	17/32	6	8.375	(212.80)	(310.00)	(280.0)	(14.0)	6	(220.00)	11 1/8	(282.6)	5 15/16	(44.5)	7 1/4	(184)
111	16.000	(406.40)	14.75	(374.7)	21/32	6	11.375	(288.93)	(400.00)	(375.0)	(18.0)	6	(295.00)	14 3/4	(374.7)	5 7/16	(44.5)		-
211	16.000	(406.40)	14.75	(374.7)	21/32	6	11.375	(288.93)	(400.00)	(375.0)	(18.0)	6	(295.00)	14 3/4	(374.7)	7 1/4	(44.5)	9 11/16	(209)
311	16.000	(406.40)	14.75	(374.7)	21/32	6	11.375	(288.93)	(400.00)	(375.0)	(18.0)	6	(295.00)	14 3/4	(374.7)	9	(44.5)	8 7/16	-
114	18.750	(476.25)	17.50	(444.5)	21/32	8	14.375	(365.13)	(470.00)	(445.0)	(18.0)	8	(370.00)	17 1/2	(444.5)	6	(44.5)	-	-
214	18.750	(476.25)	17.50	(444.5)	21/32	8	14.375	(365.13)	(470.00)	(445.0)	(18.0)	8	(370.00)	17 1/2	(444.5)	8	(44.5)	9 1/2	(241)
314	18.750	(476.25)	17.50	(444.5)	21/32	8	14.375	(365.13)	(470.00)	(445.0)	(18.0)	8	(370.00)	17 1/2	(444.5)	9 13/16	(44.5)	-	-
116	21.248	(539.70)	20.00	(508.0)	21/32	12	16.250	(412.75)	(540.00)	(510.0)	(18.0)	12	(410.00)	20	(508.0)	6 5/16	(44.5)	-	-
216	21.248	(539.70)	20.00	(508.0)	21/32	12	16.250	(412.75)	(540.00)	(510.0)	(18.0)	12	(410.00)	20	(508.0)	8 1/4	(44.5)	-	-
316	21.248	(539.70)	20.00	(508.0)	21/32	12	16.250	(412.75)	(540.00)	(510.0)	(18.0)	12	(410.00)	20	(508.0)	10 1/8	(44.5)	11 7/8	(302)
118	23.250	(590.55)	22.00	(558.8)	21/32	12	18.250	(463.55)	(590.00)	(560.0)	(18.0)	12	(470.00)	22	(558.8)	6 3/4	(41.3)	10 11/16	(271)
218	23.250	(590.55)	22.00	(558.8)	21/32	12	18.250	(463.55)	(590.00)	(560.0)	(18.0)	12	(470.00)	22	(558.8)	8 5/8	(41.3)	10 1/2	(267)
318	23.250	(590.55)	22.00	(558.8)	21/32	12	18.250	(463.55)	(590.00)	(560.0)	(18.0)	12	(470.00)	22	(558.8)	10 1/2	(41.3)	12 3/16	(310)
121	27.000	(685.80)	25.50	(647.7)	21/32	12	21.375	(542.93)	(685.00)	(648.0)	(18.0)	12	(540.00)	24 7/8	(631.8)	7 3/8	(50.8)	-	-
221	27.000	(685.80)	25.50	(647.7)	21/32	12	21.375	(542.93)	(685.00)	(648.0)	(18.0)	12	(540.00)	24 7/8	(631.8)	9 1/2	(50.8)	-	-
321	27.000	(685.80)	25.50	(647.7)	21/32	12	21.375	(542.93)	(685.00)	(648.0)	(18.0)	12	(540.00)	24 7/8	(631.8)	11 5/8	(50.8)	-	-
124H	30.000	(762.00)	28.75	(730.3)	21/32	12	24.375	(619.13)	(760.00)	(730.0)	(18.0)	12	(620.00)	29	(736.6)	7 5/8	(57.2)	-	-
224H	30.000	(762.00)	28.75	(730.3)	21/32	12	24.375	(619.13)	(760.00)	(730.0)	(18.0)	12	(620.00)	29	(736.6)	9 15/16	(57.2)	12 1/16	(306)
324H	30.000	(762.00)	28.75	(730.3)	21/32	12	24.375	(619.13)	(760.00)	(730.0)	(18.0)	12	(620.00)	29	(736.6)	12 3/16	(57.2)	14	(356)
227	32.750	(831.85)	31.50	(800.1)	21/32	16	27.375	(695.33)	(830.00)	(800.0)	(18.0)	16	(700.00)	31	(787.4)	10 3/8	(44.5)	12 1/8	(308)
327	32.750	(831.85)	31.50	(800.1)	21/32	16	27.375	(695.33)	(830.00)	(800.0)	(18.0)	16	(700.00)	31	(787.4)	12 3/4	(44.5)	12 5/16	(313)
230H	37.000	(939.80)	35.50	(901.7)	25/32	18	30.375	(771.53)	(940.00)	(900.0)	(22.0)	18	(775.00)	34 3/4	(882.7)	11 11/16	(111.1)	15 5/8	(397)
330H	37.000	(939.80)	35.50	(901.7)	25/32	18	30.375	(771.53)	(940.00)	(900.0)	(22.0)	18	(775.00)	34 3/4	(882.7)	12 7/16	(111.1)	16 9/16	(420)
236	43.500	(1104.90)	42.00	(1066.8)	25/32	18	36.375	(924.99)	(1105.00)	(1065.0)	(22.0)	18	(925.00)	41	(1041.4)	12 7/16	(36.5)	15 1/4	(383)
336	43.500	(1104.90)	42.00	(1066.8)	25/32	18	36.375	(924.99)	(1105.00)	(1065.0)	(22.0)	18	(925.00)	41	(1041.4)	17 1/16	(44.5)	18 9/16	(471)
242*	49.000	(1244.60)	49.25	(1251.0)	1" - 8NC	24	45.000	(1133.48)	(1320.00)	(1250.0)	(33.0)	24	(1134.00)	49	(1244.6)	11 7/8	(114.3)	13 3/8	(340)
342*	49.000	(1244.60)	49.25	(1251.0)	1" - 8NC	24	45.000	(1133.48)	(1320.00)	(1250.0)	(33.0)	24	(1134.00)	49	(1244.6)	14 3/4	(114.3)	-	-
248*	56.750	(1441.58)	54.00	(1371.6)	1" - 8NC	24	52.000	(1320.80)	(1600.00)	(1540.0)	M24 x 3	24	(1220.00)	56 3/4	(1441.5)	13 3/4	(101.6)	-	-
348*	56.750	(1441.58)	54.00	(1371.6)	1" - 8NC	24	52.000	(1320.80)	(1600.00)	(1540.0)	M24 x 3	24	(1220.00)	56 3/4	(1441.5)	16 1/4	(101.6)	-	-
260*	70.500	(1790.70)	66.50	(1689.1)	2" - 4.5NC	24	62.750	(1593.85)	(1790.00)	(1689.0)	2" - 4.5 NC	24	(1590.00)	70 1/2	(1790.7)	17 5/8	(60.3)	-	-
360*	70.500	(1790.70)	66.50	(1689.1)	2" - 4.5NC	24	62.750	(1593.85)	(1790.00)	(1689.0)	2" - 4.5 NC	24	(1590.00)	70 1/2	(1790.7)	22 5/8	(60.3)	-	-
460*	70.500	(1790.70)	66.50	(1689.1)	2" - 4.5NC	24	62.750	(1593.85)	(1790.00)	(1689.0)	2" - 4.5 NC	24	(1590.00)	70 1/2	(1790.7)	27 1/8	(60.3)	-	-

Consult WPT Application Engineering for application assistance, service factors, specifications, and detailed drawings/3D models.
*Shipped without backplate.

Low Inertia Spring-Set Brake

WPT Low Inertia (LI) Spring-Set Brakes are a spring-applied / air-release design well suited for fail-safe applications. The LI Spring Set can also be used as a parking brake since no pressure is required to engage the brake. With adjustable spring-release pressures, the LI Spring-Set can provide a range of torques that will suit many applications. WPT's Low Inertia Spring-Set Brakes are available in 1, 2, or 3 plate construction with diameters ranging 6 through 60 inches.

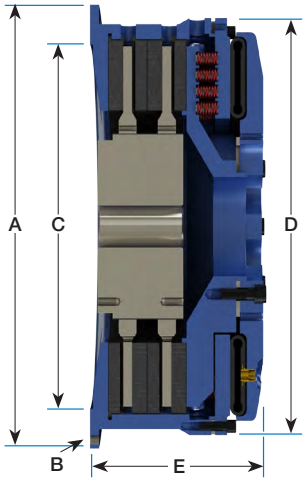
- Hydraulic release available
- High cycle life
- Predictable preventative maintenance
- Slotted, solid and ventilated center plates available
- Marine corrosion protection available
- Type approval certification available: DNV, ABS, ATEX
- *See Power Perfomance upgrade on page 12*

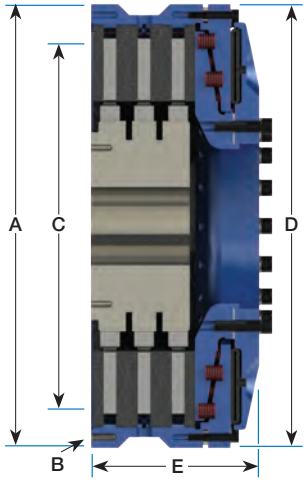
LI SS Brake Specifications

Model	Static Torque Rating at Minimum Release Pressure**						Maximum Slip Speed	Weight and Inertia						Lining Area		Bore Range*			
	60 lbf· in2	(4.1 bar)	75 lbf·in2	(5.2 bar)	90 lbf·in2	(6.2 bar)		Total Weight		Hub & Centerplate Weight		Hub & Centerplate Inertia				Minimum		Maximum	
	lbf-in	(N-m)	lbf-in	(N-m)	lbf-in	(N-m)	r/min	lb	(kg)	lb	(kg)	lb-ft2	(kg-m2)	in2	(cm2)	in	(mm)	in	(mm)
106	2510	(284)	3130	(354)	3760	(425)	2620	41	(18)	6.7	(3.1)	0.19	(0.0080)	39	(250)	0.88	(22.4)	1.90	(48.3)
206	5020	(567)	6270	(708)	7520	(850)	2620	46	(21)	13	(5.7)	0.37	(0.016)	78	(500)	0.88	(22.4)	1.90	(48.3)
108	4130	(467)	5170	(584)	6200	(701)	1890	70	(32)	9.3	(4.2)	0.46	(0.019)	55	(360)	0.94	(23.9)	2.50	(63.5)
208	7590	(858)	9480	(1070)	11400	(1290)	1890	95	(43)	22	(10)	0.95	(0.040)	110	(710)	1.13	(28.7)	2.50	(63.5)
111	9270	(1050)	11600	(1310)	13900	(1570)	1430	160	(70)	27	(12)	2.3	(0.10)	110	(730)	1.25	(31.8)	2.80	(71.1)
211	17100	(1930)	21400	(2420)	25700	(2900)	1430	190	(87)	51	(23)	4.6	(0.19)	230	(1500)	1.25	(31.8)	2.80	(71.1)
311	23600	(2670)	29500	(3330)	35400	(4000)	1220	240	(110)	75	(34)	2.5	(0.11)	340	(2200)	1.25	(31.8)	2.80	(71.1)
114	15400	(1740)	19300	(2180)	23100	(2610)	1220	250	(120)	45	(21)	5.7	(0.24)	170	(1100)	1.88	(47.8)	3.30	(83.8)
214	28300	(3200)	35400	(4000)	42400	(4790)	1220	310	(140)	83	(38)	11	(0.47)	330	(2100)	1.88	(47.8)	3.90	(99.1)
314	38700	(4370)	48400	(5470)	58100	(6560)	1080	350	(160)	120	(56)	17	(0.7)	500	(3200)	1.88	(47.8)	3.90	(99.1)
116	21500	(2430)	26800	(3030)	32200	(3640)	1080	330	(150)	65	(30)	9.9	(0.42)	230	(1500)	2.13	(54.1)	4.20	(106.7)
216	39700	(4490)	49600	(5600)	59600	(6730)	1080	400	(180)	110	(49)	19	(0.80)	460	(2900)	2.13	(54.1)	4.20	(106.7)
316	54900	(6200)	68600	(7750)	82300	(9300)	986	490	(220)	180	(79)	34	(1.4)	680	(4400)	2.13	(54.1)	4.20	(106.7)
118	35400	(4000)	44200	(4990)	53100	(6000)	986	460	(210)	65	(30)	13	(0.55)	240	(1500)	2.25	(57.2)	4.90	(124.5)
218	66700	(7540)	83400	(9420)	100000	(11300)	986	560	(260)	150	(67)	33	(1.4)	520	(3300)	2.25	(57.2)	4.90	(124.5)
318	91200	(10300)	114000	(12900)	137000	(15500)	849	660	(300)	180	(83)	38	(1.6)	720	(4600)	2.25	(57.2)	4.90	(124.5)
121	51800	(5850)	64800	(7320)	77700	(8780)	849	750	(340)	190	(84)	23	(0.97)	360	(2300)	2.75	(69.9)	6.30	(160.0)
221	96700	(10900)	121000	(13700)	145000	(16400)	849	860	(390)	270	(120)	39	(1.6)	720	(4600)	2.75	(69.9)	6.30	(160.0)
321	133000	(15000)	166000	(18800)	199000	(22500)	764	930	(420)	270	(120)	71	(3.0)	980	(6300)	2.75	(69.9)	6.30	(160.0)
124H	85100	(9620)	106000	(12000)	126800	(14300)	764	990	(450)	170	(75)	22	(0.91)	580	(3700)	2.75	(69.9)	6.30	(160.0)
224H	158000	(17900)	198000	(22400)	252300	(28500)	764	1100	(490)	280	(130)	110	(5.0)	1200	(7400)	2.75	(69.9)	6.30	(160.0)
324H	220000	(24900)	275000	(31100)	374300	(42300)	764	1400	(630)	400	(180)	170	(7.0)	1700	(11000)	2.75	(69.9)	6.30	(160.0)
227	178000	(20100)	222000	(25100)	267000	(30200)	764	1100	(490)	390	(180)	190	(8.0)	1500	(9400)	3.25	(82.6)	6.30	(160.0)
327	247000	(27900)	309000	(34900)	370000	(41800)	764	1500	(670)	530	(240)	280	(12)	2200	(14000)	3.25	(82.6)	6.30	(160.0)
230H	356000	(40200)	445000	(50300)	534000	(60300)	700	1900	(880)	610	(280)	440	(19)	1700	(11000)	3.50	(88.9)	7.00	(177.8)
330H	480000	(54200)	600000	(67800)	720000	(81300)	700	2400	(1100)	940	(430)	660	(28)	2500	(16000)	3.50	(88.9)	7.00	(177.8)
236	746000	(84300)	687000	(77600)	825000	(93200)	619	2800	(1300)	780	(360)	650	(27)	2200	(14000)	5.50	(139.7)	8.40	(213.4)
336	1210000	(137000)	1510000	(171000)	1810000	(205000)	619	4000	(1800)	1300	(580)	1000	(44)	3400	(22000)	5.50	(139.7)	8.40	(213.4)
242	796000	(89900)	995000	(112000)	-	-	619	4400	(2000)	950	(430)	1200	(50)	2700	(17000)	7.50	(190.5)	11.20	(284.5)
342	1140000	(129000)	1420000	(160000)	-	-	527	4000	(1800)	1500	(680)	1900	(81)	4100	(26000)	7.50	(190.5)	11.20	(284.5)
248	1680000	(190000)	2100000	(237000)	2530000	(286000)	512	7600	(3400)	1500	(670)	2000	(82)	4000	(26000)	10.00	(254.0)	14.50	(368.3)
348	2510000	(284000)	3140000	(355000)	3770000	(426000)	468	8300	(3700)	2200	(1000)	2800	(120)	6000	(39000)	10.00	(254.0)	14.50	(368.3)
260	3260000	(368000)	-	-	-	-	404	12000	(5500)	2600	(1200)	7100	(300)	7200	(47000)	10.00	(254.0)	18.90	(480.1)
360	4920000	(556000)	-	-	-	-	325	16000	(7400)	5100	(2300)	13000	(540)	11000	(70000)	10.00	(254.0)	18.90	(480.1)
460	5720000	(646000)	-	-	-	-	325	19000	(8800)	6800	(3100)	19000	(790)	15000	(94000)	10.00	(254.0)	18.90	(480.1)

Consult WPT Application Engineering for application assistance, service factors, specifications, and detailed drawings/3D models.
*Contact WPT for larger bore sizes. Listed bore sizes are for square key.
**Dynamic (slipping) Torque is 75% of the Static Torque.

Low Inertia Spring-Set Brake





LI SS Brake Dimension

Size 242-460

Model	Imperial Mounting								Metric Mounting					D		E (Ventilated)		F (DSCP)	
	A		B				C		A	B			C						
	+0.000/-0.003	(+0.00/-0.08)	Hole Circle		Dia	Qty	+0.003/-0.000	(+0.08/-0.00)	(+0.00/-0.08)	Hole Circle	Dia	Qty	H7						
	in	(mm)	in	(mm)	in		in	(mm)	(mm)	(mm)	(mm)		(mm)	in	(mm)	in	(mm)	in	(mm)
106	8.753	(222.33)	8.00	(203.2)	11/32	4	7.380	(187.45)	(220.00)	(203.0)	(9.0)	4	(190.00)	8 3/4	(223.8)	5.47	(138.94)	-	-
206	8.753	(222.33)	8.00	(203.2)	11/32	4	7.380	(187.43)	(220.00)	(203.0)	(9.0)	4	(190.00)	8 3/4	(223.8)	6.59	(167.39)	-	-
108	12.125	(307.98)	11.13	(282.6)	17/32	6	8.378	(212.80)	(310.00)	(280.0)	(14.0)	6	(220.00)	9 3/8	(238.1)	5.94	(150.88)	5.50	(139.70)
208	12.125	(307.98)	11.13	(282.6)	17/32	6	8.378	(212.80)	(310.00)	(280.0)	(14.0)	6	(220.00)	9 3/8	(238.1)	7.25	(184.15)	-	-
111	16.000	(406.40)	14.75	(374.7)	21/32	6	11.378	(289.00)	(400.00)	(280.0)	(18.0)	6	(289.00)	11 15/16	(303.2)	6.88	(174.75)	-	-
211	16.000	(406.40)	14.75	(374.7)	21/32	6	11.378	(289.00)	(400.00)	(375.0)	(18.0)	6	(289.00)	11 15/16	(303.2)	8.69	(220.73)	7.88	(200.15)
311	16.000	(406.40)	14.75	(374.7)	21/32	6	11.378	(289.00)	(400.00)	(375.0)	(18.0)	6	(289.00)	11 15/16	(303.2)	10.44	(265.18)	10.44	(265.18)
114	18.750	(476.25)	17.50	(444.5)	21/32	8	14.378	(365.20)	(470.00)	(445.0)	(18.0)	8	(295.00)	14 3/8	(365.1)	7.94	(201.68)	7.88	(200.15)
214	18.750	(476.25)	17.50	(444.5)	21/32	8	14.378	(365.20)	(470.00)	(445.0)	(18.0)	8	(295.00)	14 3/8	(365.1)	9.81	(249.17)	-	-
314	18.750	(476.25)	17.50	(444.5)	21/32	8	14.378	(365.20)	(470.00)	(445.0)	(18.0)	8	(295.00)	14 3/8	(365.1)	11.94	(303.28)	-	-
116	21.248	(539.70)	20.00	(508.0)	21/32	12	16.253	(412.83)	(540.00)	(510.0)	(18.0)	12	(412.75)	16 1/4	(414.0)	8.19	(208.03)	8.25	(209.55)
216	21.248	(539.70)	20.00	(508.0)	21/32	12	16.253	(412.83)	(540.00)	(510.0)	(18.0)	12	(412.75)	16 1/4	(414.0)	10.13	(257.30)	10.13	(257.30)
316	21.248	(539.70)	20.00	(508.0)	21/32	12	16.253	(412.83)	(540.00)	(510.0)	(18.0)	12	(412.75)	16 1/4	(414.0)	12.00	(304.80)	-	-
118	23.250	(590.55)	22.00	(558.8)	21/32	12	18.253	(463.63)	(590.00)	(560.0)	(18.0)	12	(463.55)	19 3/8	(492.1)	8.81	(223.77)	9.00	(228.60)
218	23.250	(590.55)	22.00	(558.8)	21/32	12	18.253	(463.63)	(590.00)	(560.0)	(18.0)	12	(463.55)	19 3/8	(492.1)	10.75	(273.05)	10.34	(262.64)
318	23.250	(590.55)	22.00	(558.8)	21/32	12	18.253	(463.63)	(590.00)	(560.0)	(18.0)	12	(463.55)	19 3/8	(492.1)	12.56	(319.02)	12.50	(317.50)
121	27.000	(685.80)	25.50	(647.7)	21/32	12	21.378	(543.00)	(685.00)	(648.0)	(18.0)	12	(540.00)	21 5/16	(541.3)	9.81	(249.17)	-	-
221	27.000	(685.80)	25.50	(647.7)	21/32	12	21.378	(543.00)	(685.00)	(648.0)	(18.0)	12	(540.00)	21 5/16	(541.3)	11.94	(303.28)	11.94	(303.28)
321	27.000	(685.80)	25.50	(647.7)	21/32	12	21.378	(543.00)	(685.00)	(648.0)	(18.0)	12	(540.00)	21 5/16	(541.3)	14.19	(360.43)	13.81	(350.77)
124	30.000	(762.00)	28.75	(730.3)	21/32	12	24.378	(619.20)	-	-	-	-	-	24 1/4	(616.0)	9.69	(246.13)	-	-
224	30.000	(762.00)	28.75	(730.3)	21/32	12	24.378	(619.20)	-	-	-	-	-	24 1/4	(616.0)	12.00	(304.80)	-	-
324	30.000	(762.00)	28.75	(730.3)	21/32	12	24.378	(619.20)	-	-	-	-	-	24 1/4	(616.0)	14.25	(361.95)	-	-
124H	30.000	(762.00)	28.75	(730.3)	21/32	12	24.378	(619.20)	(760.00)	(730.0)	(18.0)	12	(620.10)	27	(685.8)	9.69	(246.13)	9.88	(250.95)
224H	30.000	(762.00)	28.75	(730.3)	21/32	12	24.378	(619.20)	(760.00)	(730.0)	(18.0)	12	(620.10)	27	(685.8)	11.94	(303.28)	12.00	(304.80)
324H	30.000	(762.00)	28.75	(730.3)	21/32	12	24.378	(619.20)	(760.00)	(730.0)	(18.0)	12	(620.10)	27	(685.8)	14.25	(361.95)	14.00	(355.60)
227	32.750	(831.85)	31.50	(800.1)	21/32	16	27.378	(695.40)	-	-	-	-	-	27	(685.8)	12.63	(320.80)	12.63	(320.80)
327	32.750	(831.85)	31.50	(800.1)	21/32	16	27.378	(695.40)	-	-	-	-	-	27	(685.8)	15.00	(381.00)	-	-
130	37.000	(939.80)	35.50	(901.7)	25/32	18	30.378	(771.60)	-	-	-	-	-	30 1/4	(768.4)	-	-	-	-
230	37.000	(939.80)	35.50	(901.7)	25/32	18	30.378	(771.60)	-	-	-	-	-	30 1/4	(768.4)	14.38	(365.25)	-	-
230H	37.000	(939.80)	35.50	(901.7)	25/32	18	30.378	(771.60)	(940.00)	(900.0)	(22.0)	18	(775.08)	32	(812.8)	14.50	(368.30)	14.25	(361.95)
330H	37.000	(939.80)	35.50	(901.7)	25/32	18	30.378	(771.60)	(940.00)	(900.0)	(22.0)	18	(775.08)	32	(812.8)	17.88	(454.15)	17.88	(454.15)
236	43.500	(1104.90)	42.00	(1066.8)	25/32	18	36.378	(924.03)	(1105.00)	(900.0)	(22.0)	18	(925.00)	38 1/4	(971.6)	15.30	(388.62)	15.31	(388.87)
336	43.500	(1104.90)	42.00	(1066.8)	25/32	16	36.378	(924.00)	(1105.00)	(900.0)	(22.0)	18	(925.00)	38 1/4	(971.6)	-	-	-	-
242*	49.000	(1244.60)	46.50	(1181.1)	1" - 8 NC	24	45.000	(1143.08)	-	-	-	-	-	44 1/8	(1120.8)	-	-	-	-
342*	49.000	(1244.60)	46.50	(1181.1)	1" - 8 NC	24	45.000	(1143.08)	-	-	-	-	-	44 1/8	(1120.8)	-	-	15.63	(397.00)
248*	56.750	(1441.45)	54.00	(1371.6)	1" - 8 NC	24	52.000	(1220.17)	(1600.00)	(1540.0)	(26.0)	24	(1220.00)	52 1/8	(1324.0)	18.38	(466.85)	17.69	(449.33)
348*	56.750	(1441.45)	54.00	(1371.6)	1" - 8 NC	24	52.000	(1320.93)	(1600.00)	(1540.0)	(26.0)	24	(1220.00)	52 1/8	(1324.0)	20.88	(530.35)	22.03	(559.56)
260*	70.500	(1790.70)	66.50	(1689.1)	2" - 4.5NC	24	62.760	(1594.10	-	-	-	-	-	61 1/2	(1562.1)	-	-	-	-
360*	70.500	(1790.70)	66.50	(1689.1)	2" - 4.5NC	24	62.760	(1594.10)	-	-	-	-	-	61 1/2	(1562.1)	-	-	27.00	(685.80)
460*	70.500	(1790.70)	66.50	(1689.1)	2" - 4.5NC	24	62.760	(1594.10)	-	-	-	-	-	61 1/2	(1562.1)	-	-	31.50	(800.10)

Consult WPT Application Engineering for application assistance, service factors, specifications, and detailed drawings/3D models.
*Shipped without backplate.

Low Inertia High Torque

WPT Low Inertia (LI) High Torque Clutches provide the highest torque-to-size ratio of any WPT Low Inertia product. WPT's LI High Torque features a "pancake" airtube which provides maximum actuator contact area, increasing the clutch torque capacity. A large air connection is mounted directly to the airtube, allowing for rapid clutch response time. WPT's Low Inertia High Torque Clutches are available in 1, 2, or 3 plate construction with diameters ranging from 11 through 36 inches.

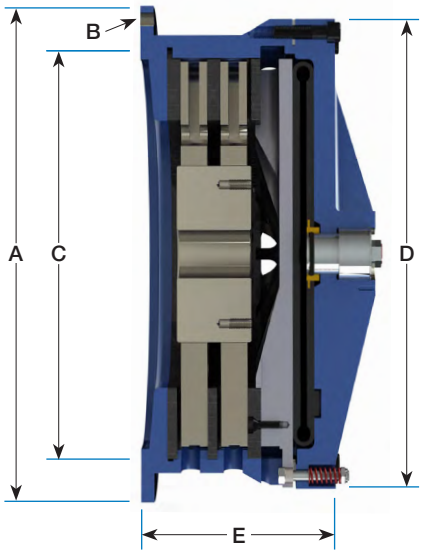
- Hydraulic actuation available
- High cycle life
- Predictable preventative maintenance
- Single-point actuator connection
- End-of-shaft mounting
- Slotted, solid and ventilated center plates available
- Marine corrosion protection available
- Type approval certification available: DNV, ABS, ATEX

LI HT Clutch Specifications

Model	Torque Rating @ 100 psi (7 bar)		Maximum Speed			Weight and Inertia								Lining Area		Bore Range*			
	Static Torque**		Complete Clutch	Hub/CPs only	Slip	Total Weight		Total Inertia		Hub & CP Weight		Hub & CP Inertia				Minimum		Maximum	
	lbf-in	(N·m)	r/min		r/min	lb	(kg)	lb·ft^2	(kg·m^2)	lb	(kg)	lb·ft^2	(kg·m^2)	in^2	(cm^2)	in	(mm)	in	(mm)
111	25000	(2820)	2,150	3,130	2,090	130	(58)	24	(1.0)	18	(8.0)	1.2	(0.051)	110	(730)	1.25	(31.8)	2.80	(71.1)
211	50000	(5650)	2,150	3,130	2,090	200	(91)	37	(1.5)	51	(23)	4.5	(0.19)	230	(1500)	1.25	(31.8)	2.80	(71.1)
311	75000	(8470)	2,150	3,130	2,090	330	(150)	36	(1.5)	75	(34)	6.7	(0.28)	340	(2200)	1.25	(31.8)	2.80	(71.1)
114	49800	(5630)	1,830	2,460	1,640	180	(82)	58	(2.4)	41	(19)	5.5	(0.23)	170	(1100)	1.50	(38.1)	3.30	(83.8)
214	99600	(11300)	1,830	2,460	1,640	280	(130)	80	(3.4)	82	(37)	11	(0.50)	330	(2100)	1.88	(47.8)	3.90	(99.0)
314	149000	(16900)	1,830	2,460	1,640	360	(160)	97	(4.1)	120	(52)	16	(0.70)	500	(3200)	1.88	(47.8)	3.90	(99.0)
116	74400	(8400)	1,620	2,150	1,430	240	(110)	90	(3.8)	58	(26)	10	(0.40)	230	(1500)	2.13	(54.1)	4.20	(106.7)
216	149000	(16800)	1,620	2,150	1,430	320	(140)	110	(4.0)	110	(49)	19	(0.80)	460	(2900)	2.13	(54.1)	4.20	(106.7)
316	223000	(25200)	1,620	2,150	1,430	450	(210)	150	(6.0)	140	(65)	24	(1.0)	680	(4400)	2.13	(54.1)	4.20	(106.7)
118	108000	(12200)	1,480	1,950	1,300	410	(190)	200	(8.0)	70	(32)	13	(0.60)	240	(1600)	2.25	(57.2)	4.90	(124.5)
218	216000	(24400)	1,480	1,910	1,270	520	(230)	230	(10)	150	(69)	35	(1.5)	520	(3300)	2.25	(57.2)	4.90	(124.5)
318	324000	(36600)	1,480	1,950	1,300	580	(260)	240	(10)	220	(99)	50	(2.1)	720	(4600)	2.75	(69.9)	4.90	(124.5)
121	174000	(19700)	1,270	1,640	1,090	540	(250)	320	(13)	200	(90)	170	(7.2)	360	(2300)	2.75	(69.9)	6.30	(160.0)
221	348000	(39400)	1,270	1,640	1,090	680	(310)	390	(16)	190	(86)	84	(3.5)	720	(4600)	2.75	(69.9)	6.30	(160.0)
321	523000	(59000)	1,270	1,680	1,120	960	(440)	420	(17)	400	(180)	170	(7.0)	980	(6300)	2.75	(69.9)	6.30	(160.0)
124	241000	(27300)	1,150	1,430	953	700	(320)	560	(23)	240	(110)	240	(10)	580	(3700)	2.75	(69.9)	6.30	(160.0)
224	483000	(54500)	1,150	1,430	953	1100	(520)	900	(38)	240	(110)	100	(4.0)	1,200	(7400)	2.75	(69.9)	6.30	(160.0)
324	724000	(81800)	1,150	1,430	953	1100	(510)	820	(34)	400	(180)	170	(7.0)	1,700	(11000)	2.75	(69.9)	6.30	(160.0)
227	724000	(81800)	1,050	1,270	847	1100	(500)	940	(39)	370	(170)	190	(8.0)	1,500	(9400)	3.25	(82.6)	6.30	(160.0)
327	1090000	(123000)	1,050	1,270	847	1500	(660)	1200	(51)	510	(230)	310	(13)	2,200	(14000)	3.25	(82.6)	6.30	(160.0)
230	996000	(113000)	929	1,150	767	2000	(890)	2100	(90)	530	(240)	280	(12)	1,700	(11000)	3.50	(88.9)	7.00	(177.9)
330	1490000	(169000)	929	1,150	767	2200	(990)	2200	(94)	690	(320)	390	(17)	2,500	(16000)	3.50	(88.9)	7.00	(177.9)
236	1920000	(216000)	790	960	640	3100	(1400)	3900	(170)	870	(390)	660	(28)	2,200	(15000)	5.50	(139.7)	8.40	(213.4)
336	2870000	(325000)	790	960	640	3600	(1600)	5600	(240)	920	(420)	2100	(88)	3,400	(22000)	5.50	(139.7)	8.40	(213.4)

Consult WPT Application Engineering for application assistance, service factors, specifications, and detailed drawings/3D models.
*Contact WPT for larger bore sizes. Listed bore sizes are for square key.
**Dynamic (slipping) Torque is 75% of the Static Torque.

Low Inertia High Torque



LI HT Clutch Dimension

Model	Imperial Mounting								Metric Mounting					D		E (Ventilated)		F (DSCP)	
	A		B				C		A	B			C						
	+0.000/-0.003	(+0.00/-0.08)	Hole Circle		Dia	Qty	+0.003/-0.000	(+0.08/-0.00)	(+0.00/-0.08)	Hole Circle	Dia	Qty	H7						
	in	(mm)	in	(mm)	in		in	(mm)	(mm)	(mm)	(mm)		(mm)	in	(mm)	in	(mm)	in	(mm)
111	16.000	(406.40)	14.75	(374.7)	21/32	6	11.375	(289.00)	(406.40)	(374.7)	(18.0)	6	(295.00)	14 3/4	(374.7)	7 15/16	(208)	7 15/16	(201.4)
211	16.000	(406.40)	14.75	(374.7)	21/32	6	11.375	(289.00)	(406.40)	(374.7)	(18.0)	6	(295.00)	14 3/4	(374.7)	9 11/16	(252)	9 11/16	(245.8)
311	16.000	(406.40)	14.75	(374.7)	21/32	6	11.375	(289.00)	(406.40)	(374.7)	(18.0)	6	(295.00)	14 3/4	(374.7)	11 7/16	(297)	11 7/16	(290.3)
114	18.750	(476.25)	17.50	(444.5)	21/32	8	14.375	(365.20)	(470.00)	(445.0)	(18.0)	8	(370.00)	17 1/2	(444.5)	8 3/8	(220)	7 7/8	(200.1)
214	18.750	(476.25)	17.50	(444.5)	21/32	8	14.375	(365.20)	(470.00)	(445.0)	(18.0)	8	(370.00)	17 1/2	(444.5)	10 1/4	(267)	9 1/4	(235.0)
314	18.750	(476.25)	17.50	(444.5)	21/32	8	14.375	(365.20)	(470.00)	(445.0)	(18.0)	8	(370.00)	17 1/2	(444.5)	12 1/8	(314)	10 5/8	(270.0)
116	21.248	(539.70)	20.00	(508.0)	21/32	12	16.250	(412.75)	(540.00)	(510.0)	(18.0)	12	(410.00)	20	(508.0)	8 7/8	(231)	8 15/16	(226.3)
216	21.248	(539.70)	20.00	(508.0)	21/32	12	16.250	(412.75)	(540.00)	(510.0)	(18.0)	12	(410.00)	20	(508.0)	10 3/4	(278)	10 3/4	(273.8)
316	21.248	(539.70)	20.00	(508.0)	21/32	12	16.250	(412.75)	(540.00)	(510.0)	(18.0)	12	(410.00)	20	(508.0)	12 5/8	(327)	12 5/8	(319.8)
118	23.250	(590.55)	22.00	(558.8)	21/32	12	18.250	(463.63)	(590.00)	(560.0)	(18.0)	12	(470.00)	22	(558.8)	9 1/16	(238)	9 1/4	(234.2)
218	23.250	(590.55)	22.00	(558.8)	21/32	12	18.250	(463.63)	(590.00)	(560.0)	(18.0)	12	(470.00)	22	(558.8)	10 15/16	(284)	10 15/16	(277.1)
318	23.250	(590.55)	22.00	(558.8)	21/32	12	18.250	(463.63)	(590.00)	(560.0)	(18.0)	12	(470.00)	22	(558.8)	12 7/8	(335)	12 9/16	(319.8)
121	27.000	(685.80)	25.50	(647.7)	21/32	12	21.375	(543.00)	(685.00)	(648.0)	(18.0)	12	(540.00)	24 7/8	(631.8)	9 1/2	(248)	9 3/4	(247.7)
221	27.000	(685.80)	25.50	(647.7)	21/32	12	21.375	(543.00)	(685.00)	(648.0)	(18.0)	12	(540.00)	24 7/8	(631.8)	11 5/8	(302)	11 5/8	(295.4)
321	27.000	(685.80)	25.50	(647.7)	21/32	12	21.375	(543.00)	(685.00)	(648.0)	(18.0)	12	(540.00)	24 7/8	(631.8)	14	(356)	13 1/2	(342.9)
124	30.000	(762.00)	28.75	(730.3)	21/32	12	24.375	(619.20)	(760.00)	(730.0)	(18.0)	12	(620.00)	29	(736.6)	9 7/8	(259)	10 1/16	(255.3)
224	30.000	(762.00)	28.75	(730.3)	21/32	12	24.375	(619.20)	(760.00)	(730.0)	(18.0)	12	(620.00)	29	(736.6)	12	(314)	12 1/8	(308.1)
324	30.000	(762.00)	28.75	(730.3)	21/32	12	24.375	(619.20)	(760.00)	(730.0)	(18.0)	12	(620.00)	29	(736.6)	14 1/4	(363)	14	(354.8)
127	32.750	(831.85)	31.50	(800.1)	21/32	16	27.375	(695.40)	(830.00)	(800.0)	(18.0)	16	(700.00)	31 1/4	(793.8)	10	(262)	10 7/16	(264.4)
227	32.750	(831.85)	31.50	(800.1)	21/32	16	27.375	(695.40)	(830.00)	(800.0)	(18.0)	16	(700.00)	31 1/4	(793.8)	12 1/2	(325)	12 1/2	(318.3)
327	32.750	(831.85)	31.50	(800.1)	21/32	16	27.375	(695.40)	(830.00)	(800.0)	(18.0)	16	(700.00)	31 1/4	(793.8)	14 15/16	(378)	14 5/8	(372.4)
230	37.000	(939.80)	35.50	(901.7)	25/32	18	30.375	(771.53)	(940.00)	(900.0)	(22.0)	18	(775.00)	36 1/8	(917.6)	13 5/8	(352)	13	(330.2)
330	37.000	(939.80)	35.50	(901.7)	25/32	18	30.375	(771.53)	(940.00)	(900.0)	(22.0)	18	(775.00)	36 1/8	(917.6)	17	(367)	14 1/8	(358.9)
236	43.500	(1104.90)	42.00	(1066.8)	1 1/32	18	36.375	(924.00)	(1104.90)	(1065.0)	(22.0)	18	(925.00)	41 1/2	(1054.1)	15 1/16	(394)	15	(381.0)
336	43.500	(1104.90)	42.00	(1066.8)	1 1/32	18	36.375	(924.00)	(1104.90)	(1065.0)	(22.0)	18	(925.00)	41 1/2	(1054.1)	18 7/16	(497)	15	(381.0)

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

Steel Water Cooled Brake

WPT Steel Water Cooled Brakes (Steel WCBs) are designed for high-heat applications, such as coil processors and high-cycle press / shear lines. The unique design of the steel water jackets allows for the rapid transfer of heat to an external cooler or recirculation system. This increased heat transfer capabilities allow the Steel WCB to operate in continuous slip applications. WPT's Steel WCBs are available in 1, 2, or 3 plate construction with diameters ranging from 6 through 36 inches.

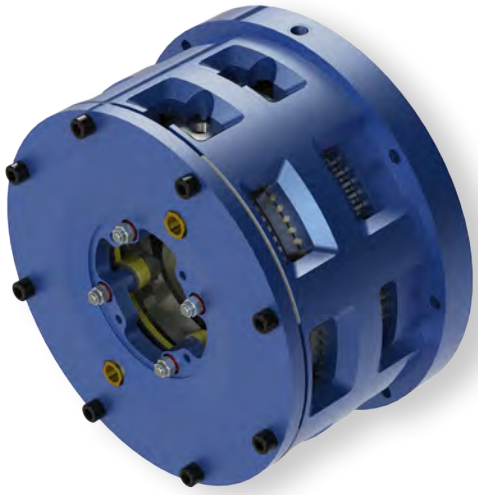
- High duty cycle
- High energy density
- Predictable preventative maintenance
- Single-point actuator connection
- End-of-shaft mounting
- Slotted, solid and ventilated center plates available
- Marine corrosion protection available
- Type approval certification available: DNV, ABS, ATEX

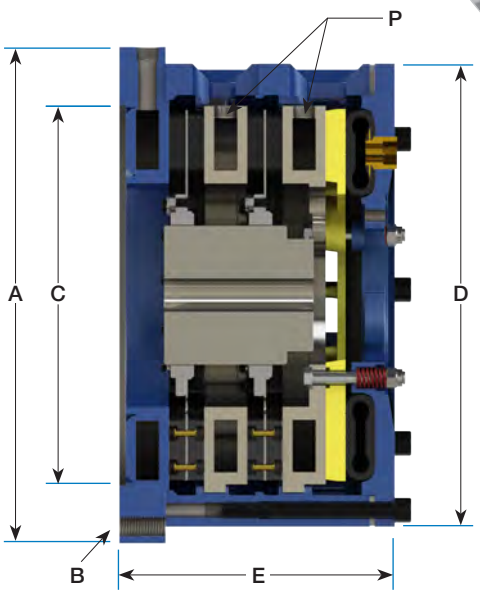
Steel WCB Specifications

Model	Torque Rating @ 100 psi (7 bar)		Maximum Speed		Heat Dissipation Capacity		Water flow (minimum)		Weight and Inertia						Lining Area		Bore Range*			
	Static Torque**		Hub/CPs only	Slip					Total Weight		Hub & CP Weight		Hub & CP Inertia				Minimum		Maximum	
	lbf-in	(N-m)		r/min	hp	kW	gal/min	litre/min	lb	(kg)	lb	(kg)	lb-ft^2	(kg-m^2)	in^2	(cm^2)	in	(mm)	in	(mm)
106	3380	(382)	5290	3530	6	4.5	1	3.5	50	(22)	8.7	(3.9)	0.27	(0.011)	40	(260)	0.88	(22.4)	1.90	(48.3)
108	5840	(660)	4300	2870	9	6.7	2	5.5	100	(45)	11	(4.9)	0.40	(0.017)	22	(140)	0.94	(23.9)	2.50	(63.5)
208	11700	(1320)	4300	2870	18	13.4	3	11	140	(64)	22	(9.8)	0.85	(0.036)	43	(280)	1.13	(28.7)	2.50	(63.5)
111	13100	(1480)	3130	2090	19	14.2	3	11	200	(91)	29	(13)	1.8	(0.078)	22	(140)	1.25	(31.8)	2.80	(71.1)
211	26200	(2960)	3130	2090	38	28.3	6	22	250	(110)	45	(20)	12	(0.48)	91	(580)	1.25	(31.8)	2.80	(71.1)
311	39300	(4440)	3130	2090	57	42.6	9	33	300	(130)	61	(27)	16	(0.68)	160	(1000)	1.25	(31.8)	2.80	(71.1)
114	22000	(2490)	2460	1640	28	20.9	4	16	310	(140)	54	(24)	7.0	(0.29)	74	(480)	1.50	(38.1)	3.30	(83.8)
214	44100	(5000)	2460	1640	56	41.8	9	32	350	(160)	50	(23)	4.3	(0.18)	140	(890)	2.00	(50.8)	3.50	(88.9)
314	66100	(7470)	2460	1640	84	62.7	13	48	390	(170)	65	(29)	7.8	(0.33)	210	(1400)	2.00	(50.8)	3.50	(88.9)
116	30300	(3420)	2150	1440	38	28.3	6	22	410	(190)	73	(33)	12	(0.52)	100	(670)	2.13	(54.1)	4.20	(106.7)
216	60600	(6850)	2150	1440	76	56.7	12	44	590	(270)	140	(65)	25	(1.1)	210	(1300)	2.13	(54.1)	4.20	(106.7)
118	50600	(5720)	1950	1300	44	32.8	7	25	450	(200)	90	(42)	19	(0.80)	120	(760)	2.25	(57.2)	4.90	(124.5)
218	101000	(11400)	1910	1280	88	65.6	13	50	590	(270)	120	(56)	22	(0.94)	230	(1500)	2.13	(54.1)	4.10	(104.1)
318	152000	(17200)	1950	1300	130	98.4	20	75	880	(400)	180	(84)	34	(1.4)	340	(2200)	2.13	(54.1)	4.10	(104.1)
121	72800	(8230)	1640	1100	60	44.7	9	34	630	(290)	140	(65)	41	(1.7)	170	(1100)	2.75	(69.9)	6.30	(160.0)
221	146000	(16500)	1640	1100	120	89.5	18	68	810	(370)	160	(73)	38	(1.6)	330	(2100)	2.13	(54.1)	4.10	(104.1)
124	79600	(9000)	1430	955	96	71.6	15	54	970	(430)	230	(100)	71	(3.0)	260	(1700)	2.13	(54.1)	6.30	(160.0)
224	159000	(18000)	1430	955	190	143.2	29	108	1200	(520)	260	(120)	76	(3.2)	510	(3300)	2.75	(69.9)	5.50	(139.7)
124H	129000	(14600)	1430	955	96	71.6	15	54	860	(390)	230	(100)	71	(3.0)	260	(1700)	2.75	(69.9)	6.30	(160.0)
224H	258000	(29200)	1430	955	190	143.2	29	108	1100	(500)	260	(120)	76	(3.2)	520	(3300)	2.75	(69.9)	5.50	(139.7)
127	145000	(16400)	1270	850	110	80.5	16	61	990	(450)	240	(110)	120	(5.2)	350	(2300)	3.25	(82.6)	6.30	(160.0)
130	211000	(23800)	1270	850	140	102.2	21	78	130	(600)	330	(150)	210	(8.9)	390	(2500)	3.50	(88.9)	7.00	(177.8)
230	422000	(47700)	1270	850	270	204.3	41	156	2000	(910)	680	(310)	420	(18)	780	(5000)	3.50	(88.9)	7.00	(177.8)
230H	541000	(61100)	1150	770	140	204.3	41	156	2000	(910)	680	(310)	420	(18)	780	(5000)	3.50	(88.9)	7.00	(177.8)
330H	811000	(91600)	1150	770	210	306.5	62	234	2700	(1200)	1000	(470)	630	(26)	1200	(7500)	3.50	(88.9)	7.00	(177.8)

Consult WPT Application Engineering for application assistance, service factors, specifications, and detailed drawings/3D models.
*Contact WPT for larger bore sizes. Listed bore sizes are for square key.
**Dynamic (slipping) Torque is 75% of the Static Torque.

Steel Water Cooled Brake





Steel WCB Dimensions

Model	Imperial Mounting									Metric Mounting						D		E	
	A		B				C		P	A	B			C	P				
	+0.000/-0.003	(+0.00/-0.08)	Hole Circle		Dia	Qty	+0.003/-0.000	(+0.08/-0.00)	Coolant Ports	(+0.08/-0.00)	Hole Circle	Dia	Qty	(+0.08/-0.00)	Coolant Ports				
	in	(mm)	in	(mm)	in		in	(mm)	NPT	(mm)	(mm)	(mm)		(mm)	BSPT	in	(mm)	in	(mm)
106	8.749	(222.22)	8.00	(203.2)	11/32	4	7.377	(187.38)	1/4	(220.00)	(203.0)	(9.0)	4	(190.00)	1/4	8 13/16	(223.8)	5 13/16	(147.6)
108	12.125	(307.98)	11.13	(282.7)	17/32	4	8.375	(212.73)	3/8	(310.00)	(280.0)	(14.0)	4	(220.00)	1/2	11 1/8	(282.6)	6 11/16	(169.9)
208	12.125	(307.98)	11.13	(282.7)	17/32	4	8.375	(212.73)	3/8	(310.00)	(280.0)	(14.0)	4	(220.00)	1/2	11 1/8	(282.6)	8 7/8	(225.4)
111	16.000	(406.40)	14.75	(374.7)	21/32	4	11.375	(288.93)	1/2	(400.00)	(375.0)	(18.0)	4	(295.00)	1/2	14 3/4	(374.7)	7 7/16	(188.9)
211	16.000	(406.40)	14.75	(374.7)	21/32	4	11.375	(288.93)	1/2	(400.00)	(375.0)	(18.0)	4	(295.00)	1/2	14 3/4	(374.7)	9 9/16	(242.9)
311	16.000	(406.40)	14.75	(374.7)	21/32	4	11.375	(288.93)	1/2	(400.00)	(375.0)	(18.0)	4	(295.00)	1/2	14 3/4	(374.7)	11 11/16	(296.9)
114	18.750	(476.25)	17.50	(444.5)	21/32	6	14.375	(365.13)	1/2	(470.00)	(445.0)	(18.0)	6	(370.00)	1/2	17 1/2	(444.5)	8 9/16	(217.5)
214	18.750	(476.25)	17.50	(444.5)	21/32	6	14.375	(365.13)	1/2	(470.00)	(445.0)	(18.0)	6	(370.00)	1/2	17 1/2	(444.5)	10 7/16	(265.1)
314	18.750	(476.25)	17.50	(444.5)	21/32	6	14.375	(365.13)	1/2	(470.00)	(445.0)	(18.0)	6	(370.00)	1/2	17 1/2	(444.5)	13 1/2	(342.9)
116	21.248	(539.70)	20.00	(508.0)	21/32	10	16.250	(412.75)	1/2	(540.08)	(510.0)	(18.0)	10	(410.00)	1/2	20	(508.0)	8 11/16	(220.7)
216	21.248	(539.70)	20.00	(508.0)	21/32	10	16.250	(412.75)	1/2	(540.08)	(510.0)	(18.0)	10	(410.00)	1/2	20	(508.0)	10 7/8	(276.2)
118	23.250	(590.55)	22.00	(558.8)	21/32	10	18.250	(463.55)	1/2	(590.00)	(560.0)	(18.0)	10	(470.00)	1/2	22	(558.8)	9	(228.6)
218	23.250	(590.55)	22.00	(558.8)	21/32	10	18.250	(463.55)	1/2	(590.00)	(560.0)	(18.0)	10	(470.00)	1/2	22	(558.8)	11 3/4	(298.5)
318	23.250	(590.55)	22.00	(558.8)	21/32	10	18.250	(463.55)	1/2	(590.00)	(560.0)	(18.0)	10	(470.00)	1/2	22	(558.8)	14 5/16	(363.5)
121	27.000	(685.80)	25.50	(647.7)	21/32	10	21.375	(542.93)	1/2	(685.00)	(648.0)	(18.0)	10	(540.00)	1/2	24 7/8	(631.8)	9 1/2	(241.3)
221	27.000	(685.80)	25.50	(647.7)	21/32	10	21.375	(542.93)	1/2	(685.00)	(648.0)	(18.0)	10	(540.00)	1/2	24 7/8	(631.8)	11 13/16	(300.0)
124	30.000	(762.00)	28.75	(730.3)	21/32	10	24.375	(619.13)	1/2	(760.00)	(730.0)	(18.0)	10	(620.00)	1/2	29	(736.6)	9 3/4	(247.7)
224	30.000	(762.00)	28.75	(730.3)	21/32	10	24.375	(619.13)	1/2	(760.00)	(730.0)	(18.0)	10	(620.00)	1/2	29	(736.6)	12 1/4	(311.2)
124H	30.000	(762.00)	28.75	(730.3)	21/32	10	24.375	(619.13)	1/2	(760.00)	(730.0)	(18.0)	10	(620.00)	1/2	29	(736.6)	9 3/4	(247.7)
224H	30.000	(762.00)	28.75	(730.3)	21/32	10	24.375	(619.13)	1/2	(760.00)	(730.0)	(18.0)	10	(620.00)	1/2	29	(736.6)	12 1/4	(311.2)
127	32.750	(831.85)	31.50	(800.1)	21/32	14	27.375	(695.33)	1/2	-	-	-	-	-	-	31	(787.4)	10	(254.0)
130	37.000	(939.80)	35.50	(901.7)	25/32	16	30.375	(771.53)	3/4	-	-	-	-	-	-	34 3/4	(882.7)	11	(279.4)
230	37.000	(939.80)	35.50	(901.7)	25/32	16	30.375	(771.53)	3/4	-	-	-	-	-	-	34 3/4	(882.7)	16 11/16	(423.9)
230H	37.000	(939.80)	35.50	(901.7)	25/32	16	30.375	(771.53)	3/4	-	-	-	-	-	-	34 3/4	(882.7)	16 11/16	(423.9)
330H	37.000	(939.80)	35.50	(901.7)	25/32	16	30.375	(771.53)	3/4	-	-	-	-	-	-	34 3/4	(882.7)	22	(558.8)

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

Power Performance Upgrade

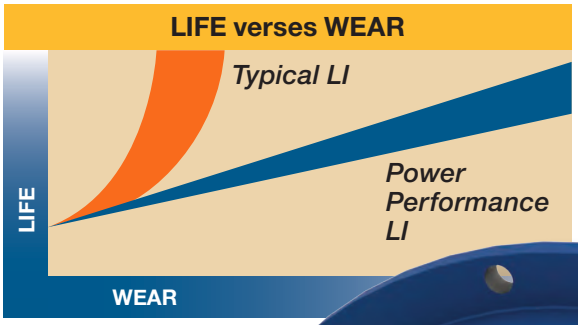
WPT's Power Performance Low Inertia (PPLI) upgrade for clutch and brake products is specifically designed to exceed the demands of high-cycle, high-energy, and high-speed applications. The PPLI upgrade replaces the standard molded friction material with a high-grade semi-metallic friction material that has excellent thermal conductivity and increased temperature threshold. The standard center plates are replaced with a high flow, reduced inertia design. The WPT PPLI upgrade is well suited for operations running presses, shears, and applications where high-energy dynamic stopping produces extreme heat. The WPT PPLI upgrade is available as an upgrade kit or in complete units in 1, 2, or 3 plate construction with diameters ranging from 18 to 36 inches.

PPLI Clutch/Brake Specifications

Model	Weight and Inertia				Lining Area	
	Hub & CP Weight		Hub & CP Inertia			
	lb	(kg)	lb-ft2	(kg-m2)	in2	(cm2)
118	52	(24)	8.4	(0.36)	168	(1090)
218	100	(47)	17	(0.71)	336	(2170)
318	160	(71)	25	(1.1)	505	(3260)
124H	110	(50)	28	(1.2)	235	(1520)
224H	190	(86)	55	(2.3)	471	(3040)
324H	270	(120)	82	(3.5)	706	(4560)
230H	400	(180)	190	(7.9)	1120	(7230)
330H	600	(270)	280	(12)	1680	(10900)
236	730	(330)	520	(22)	1390	(8970)
336	900	(410)	560	(24)	2090	(13500)

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

LIFE verses WEAR



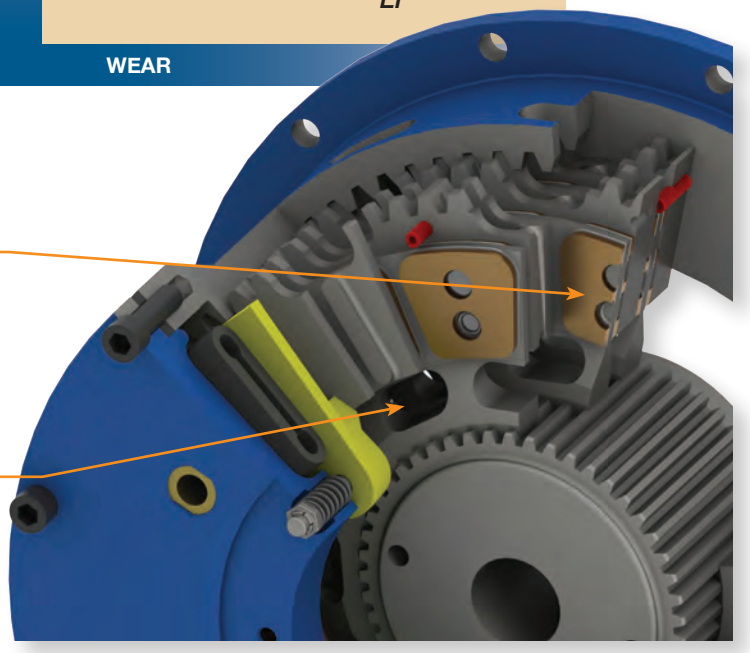
Power Performance Low Inertia (PPLI)

Sintered Bronze Friction Material

- ✓ *Grooves for increased airflow*
- ✓ *Very high temperature threshold*
- ✓ *Excellent heat rejection*
- ✓ *Wear rate is consistent & predictable*

Center Plates

- ✓ *Outstanding ventilation*
- ✓ *Wear surface receives most cooling*
- ✓ *Reduced mass and inertia*

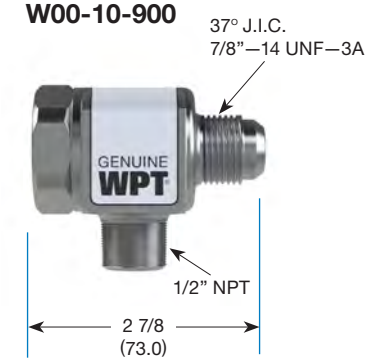


Low Inertia Accessories

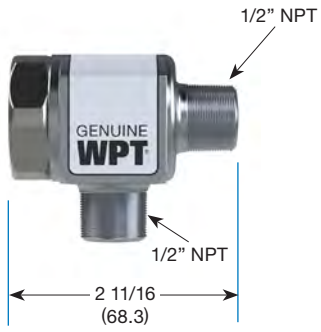
Quick Release Valves

WPT quick release valves are utilized to provide fast exhaust of air pressure from the clutch. Mounted directly to the airtube spuds, these QRVs provide a large exhaust port directly at clutch or brake. Mufflers are optional for quieter operation.

W00-10-900



W00-10-901

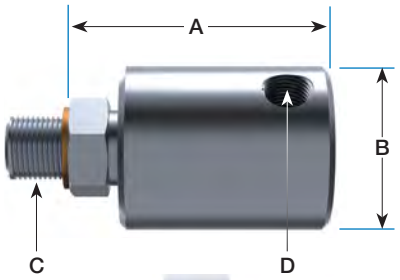


W00-10-900 with W00-10-906

Shown with optional muffler

Rotating Unions

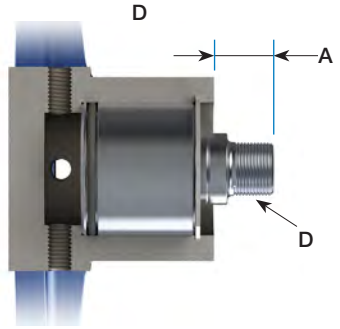
The WPT rotating union is engineered to allow air or fluid passage under pressure to the end of a rotating shaft. This is a maintenance-free design that protects against leakage.



Rotating Air Union Dimensions for Low Inertia Clutches

Clutch Size	Air Union Part Number	A		B		C Rotor Thread	D Inlet Thread
		in	(mm)	in	(mm)		
104 - 206	W00-21-006	2 9/16	(66.5)	1 5/8	(41.3)	5/8-18	1/4 NPT
108 - 321	W00-21-002	3 11/16	(95.2)	2 3/16	(56.7)	1-14	1/2-14 NPT
124 - 327	W00-21-008	4 1/4	(109.5)	2 13/16	(72.9)	1-15	3/4 NPT
230 - 348	W00-21-010	1 15/32	(37.31)	3 3/16	(82.4)	-	1-11.5 NPT
124 - 348	W00-21-011	5 1/16	(128.7)	3 1/4	(82.6)	1-12	1 NPT
230 - 348	W00-21-033	6 15/16	(176.2)	4 1/4	(108.0)	2-12	1-1/2 NPT
260 - 460	W00-21-020	10	(254.0)	7	(178.2)	2 1/2 NPT	2-1/2 NPT

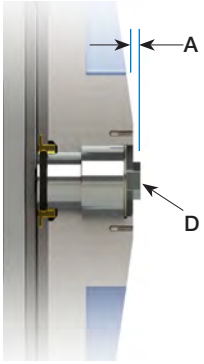
Consult WPT Application Engineering for application assistance, service factors, specifications, and detailed drawings/3D models.

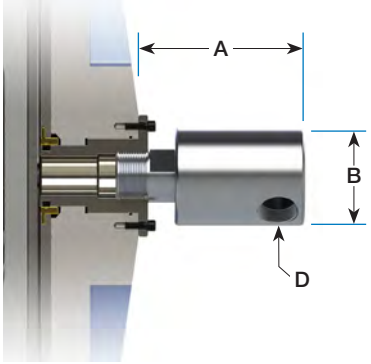


Rotating Air Union Dimensions for High Torque Clutches

Clutch Size	Air Union Part Number	Adapter Part Number	A		B		C Rotor Thread	D Inlet Thread
			in	(mm)	in	(mm)		
111 - 336	W00-21-000	-	19/64	(7.54)	-	-	-	1/2 NPT
116 - 330	W00-21-011	W00-21-018	5 7/16	(138.1)	3 1/4	(82.6)	1 1/2-12 UNF RH	1 NPT
236 - 336	W00-21-049	W00-21-058	8 7/8	(225.4)	4 1/4	(108.0)	1 3/4-12 UNF RH	1 1/2 NPT

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





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