



Power that Lasts

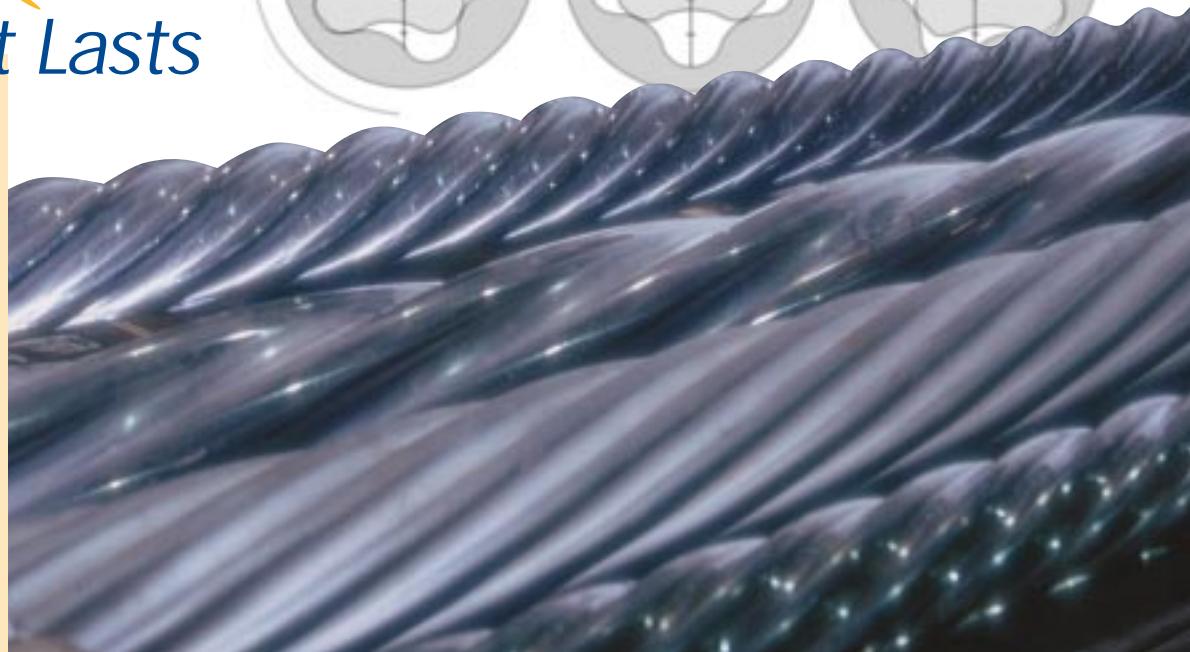
Dyna-Drill power sections, products of choice in the world's oil fields for nearly a half century, have earned industry-wide recognition for long, reliable performance.

In 1999, new leadership focused on this core competence to form Dyna-Drill Technologies, and the company relocated to a new 40,000 square foot facility in Houston, TX.

Here, in an ultra-modern plant, computerized engineering capabilities merge seamlessly with sophisticated machining tools and quality-assurance technologies to produce the next generation of power sections and components.

Among the specialized new products are Matrix-3™ coated bearings. These uniquely engineered coatings give superior resistance to wear, corrosion and mechanical fatigue. The coated bearings will be fabricated in a totally new facility designed solely for their manufacture.

With all human resources centered on advancing power section technology, Dyna-Drill's culture precludes bureaucratic delays and multi-layered decision making. Customers count on a high level of prompt, professional, personalized service support. In short, they can reach the person they want for the answers they need with one phone call or e-mail.



High-Performance Power Sections Deliver Longer Mud Motor Life

Unrivaled staying power.

In manufacturing processes perfected over five decades, Dyna-Drill power sections give superior staying power to sustain long production hours and unrivaled mud motor performance in severe drilling applications. High torque, super-slow ESX power sections recently set a world record in the Rocky Mountains, drilling 10,000 feet before requiring a replacement trip.

Precision-engineered rotors and stators.

The industry's most sophisticated Weingartner milling machine precisely contours rotors up to eight meters long. Rotors are 17-4 stainless steel and chrome plated for maximum wear and erosion protection. Stators incorporate NBR and HSN elastomers to meet the varying requirements of aggressive drilling conditions. Dyna-Drill verifies every rotor profile using a CMM and proprietary contour measurement software.

Full range of sizes and speeds.

Dyna-Drill power sections can be teamed with mud motors ranging from 27/8" to 111/4" in diameter. ESX models are recommended for use with PDC-type drill bits and can provide speed ranges from 30 to 80 rpm and high torque ranges from 3,500 to more than 11,000 ft. lbs. All power section designs are verified on a 1000 hp dynamometer powered by two triplex mud pumps.

Wear-resistant Matrix-3™ coated bearings.

To boost the performance of mud motors, Dyna-Drill now offers customers uniquely engineered Matrix-3 coated bearings. Tungsten and other carbide phases, bonded in a nickel-chrome matrix, are metalurgically fused to the base metal to form a solid, inseparable unit. Long-life advantages include exceptional resistance to metal-to-metal impact, wear and corrosion.

See back page for power section models.



Power that Lasts™

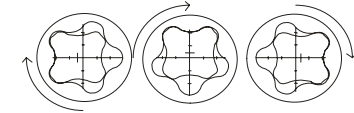
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Power Sections



Power Sections		Configuration				Performance			Maximum Recommended Operating Conditions						Replacement For				
Size	Model Number	Tube OD/ID inch	Stator Length in (mm)	Lobes	Stages	Speed		Max RPM	Standard Rubber (NBR-1A, HSN-38)			Hard Rubber (NBR-HR)			R&M	Mono / PV	Weatherford	Drillix	
						rev / gal	rev / Lit		Pressure Diff psi (kPa)	Torque ft-lb (Nm)	Power hp (kW)	Pressure Diff psi (kPa)	Torque ft-lb (Nm)	Power hp (kW)					
2.875" - 3.75"	DD287562.6		2.87 (2.44)	117.0 (2972)	5:6	2.6	2.300 (0.608)	1.02 (0.200)	210	390 (2690)	400 (540)	16 (12)							
	DD287567.0	OS	2.87 (2.37)	117.0 (2972)	5:6	7.0	5.740 (1.516)	0.48 (0.095)	520	1050 (7240)	510 (690)	50 (38)	1580 (10860)	760 (1030)	75 (57)	X			
	DD338783.0		3.37 (2.75)	124.0 (3150)	7:8	3.0	1.390 (0.367)	1.87 (0.368)	160	450 (3100)	840 (1140)	24 (19)				X			
	DD350784.3	OS	3.50 (2.75)	133.8 (3397)	7:8	4.3	1.846 (0.488)	1.43 (0.281)	210	650 (4450)	920 (1250)	36 (27)				X			
	DD375238.0		3.75 (3.00)	135.0 (3429)	2:3	8.0	5.800 (1.532)	0.48 (0.095)	930	1200 (8270)	580 (790)	102 (78)							
	DD375453.5	OS	3.75 (3.00)	135.0 (3429)	4:5	3.5	1.550 (0.409)	1.82 (0.358)	250	530 (3620)	960 (1300)	45 (34)	790 (5430)	1430 (1940)	68 (52)	X	X		
	DD375564.2		3.75 (3.00)	160.0 (4064)	5:6	4.2	1.563 (0.413)	1.67 (0.328)	250	630 (4340)	1050 (1420)	50 (38)							
	DD3757810.1		3.75 (3.00)	225.0 (5715)	7:8	10.1	1.950 (0.515)	1.34 (0.263)	320	1520 (10450)	2030 (2750)	120 (92)				X			
	DD375782.3		3.75 (3.00)	141.0 (3581)	7:8	2.3	0.806 (0.213)	3.05 (0.600)	130	350 (2380)	1050 (1430)	26 (20)				X	X		
DD375786.7	OS *	3.75 (3.00)	180.0 (4572)	7:8	6.7	1.613 (0.426)	1.63 (0.321)	260	1010 (6930)	1640 (2230)	81 (61)				X				
DD475127.0	OS	4.75 (3.87)	190.0 (4826)	1:2	7.0	3.300 (0.872)	0.93 (0.183)	830	1050 (7240)	980 (1330)	154 (117)				X				
4.75"	DD475238.5 HX2		4.75 (3.75)	260.0 (6604)	2:3	8.5	1.913 (0.505)	1.49 (0.293)	580	1280 (8790)	1900 (2580)	208 (158)							
	DD475453.5		4.75 (3.75)	115.8 (2940)	4:5	3.5	1.020 (0.269)	2.76 (0.543)	260	530 (3620)	1450 (1960)	70 (54)	790 (5430)	2170 (2950)	105 (80)	X	X		
	DD475456.0	OS *	4.75 (3.75)	187.0 (4750)	4:5	6.0	1.020 (0.269)	2.73 (0.537)	260	900 (6210)	2460 (3330)	119 (91)	1350 (9310)	3690 (5000)	179 (136)	X	X		
	DD475456.3	OS *	4.75 (3.75)	207.0 (5258)	4:5	6.3	1.020 (0.269)	2.73 (0.537)	260	950 (6520)	2580 (3500)	125 (95)	1420 (9770)	3870 (5250)	188 (143)	X			
	DD475782.2	OS	4.75 (3.75)	115.8 (2940)	7:8	2.2	0.543 (0.143)	4.98 (0.980)	140	330 (2280)	1640 (2230)	42 (32)	500 (3410)	2470 (3340)	64 (49)	X	X		
	DD475782.6 ESX	OS	4.75 (3.75)	229.3 (5823)	7:8	2.6	0.263 (0.070)	8.97 (1.765)	79	390 (2690)	3500 (4750)	53 (40)	590 (4030)	5250 (7120)	79 (60)				
	DD475783.8	OS *	4.75 (3.75)	187.0 (4750)	7:8	3.8	0.521 (0.138)	5.20 (1.023)	140	570 (3930)	2960 (4020)	74 (56)	860 (5900)	4450 (6030)	110 (84)	X	X		
	DD475784.5 SX	OS	4.75 (3.75)	229.3 (5823)	7:8	4.5	0.463 (0.122)	5.19 (1.020)	140	680 (4650)	3500 (4750)	93 (71)	1010 (6980)	5250 (7120)	139 (106)				
	DD625457.5	OS	6.25 (5.00)	203.5 (5169)	4:5	7.5	0.659 (0.174)	4.24 (0.834)	270	1130 (7760)	4770 (6470)	239 (182)				X			
6.25" -6.5"	DD625782.5	OS	6.25 (5.00)	203.2 (5161)	7:8	2.5	0.171 (0.045)	16.61 (3.265)	86	380 (2590)	6230 (8440)	101 (77)	560 (3880)	9340 (12660)	152 (116)	X			
	DD625782.8		6.25 (5.00)	124.0 (3150)	7:8	2.8	0.332 (0.088)	7.95 (1.562)	140	420 (2900)	3340 (4520)	84 (64)				X			
	DD625782.9 ESX	OS	6.25 (5.00)	228.8 (5810)	7:8	2.9	0.170 (0.045)	14.71 (2.893)	85	440 (3000)	6400 (8680)	104 (79)	650 (4500)	9600 (13020)	155 (118)				
	DD625783.3 ESX2	OS	6.25 (5.00)	260.0 (6604)	7:8	3.3	0.160 (0.042)	15.56 (3.059)	80	500 (3410)	7700 (10440)	117 (89)	740 (5120)	11550 (15660)	176 (134)				
	DD625783.5	OS	6.25 (5.00)	231.3 (5874)	7:8	3.5	0.208 (0.055)	12.50 (2.458)	83	530 (3620)	6560 (8900)	104 (79)	790 (5430)	9840 (13350)	156 (119)	X			
	DD625783.8 ESX3		6.25 (5.00)	299.8 (7614)	7:8	3.8	0.158 (0.042)	15.76 (3.100)	79	570 (3930)	8980 (12180)	135 (103)							
	DD625784.8	OS	6.25 (5.00)	203.2 (5161)	7:8	4.8	0.330 (0.087)	7.98 (1.569)	140	720 (4960)	5740 (7790)	144 (110)	1080 (7450)	8620 (11680)	217 (165)	X	X		
	DD625786.7 SX3		6.25 (5.00)	299.8 (7614)	7:8	6.7	0.278 (0.073)	9.00 (1.769)	140	1010 (6930)	9040 (12260)	239 (182)							
	DD650783.3	OS	6.50 (5.50)	245.0 (6223)	7:8	3.3	0.140 (0.037)	19.00 (3.736)	84	500 (3410)	9410 (12750)	150 (115)	740 (5120)	14110 (19130)	226 (172)	X			



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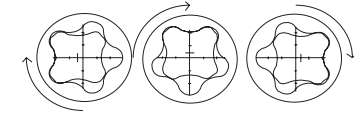
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Power Sections



Power Sections		Configuration					Performance			Maximum Recommended Operating Conditions						Replacement For			
Size	Model Number	Tube OD/ID inch	Stator Length in (mm)	Lobes	Stages	Speed		Max RPM	Standard Rubber (NBR-1A, HSN-38)			Hard Rubber (NBR-HR)			R&M	Mono / PV	Weatherford	Drillix	
						rev / gal	rev / Lit		Pressure Diff psi (kPa)	Torque ft-lb (Nm)	Power hp (kW)	Pressure Diff psi (kPa)	Torque ft-lb (Nm)	Power hp (kW)					
6.75"	DD675237.8	6.75 (5.50)	203.5 (5169)	2:3	7.8	1.000 (0.264)	2.81 (0.553)	600	1170 (8070)	3290 (4460)	376 (286)								
	DD675456.0 MX	6.75 (5.31)	230.0 (5842)	4:5	6.0	0.491 (0.130)	6.31 (1.241)	250	900 (6210)	5680 (7700)	266 (202)								
	DD675456.5 MX2	6.75 (5.50)	260.0 (6604)	4:5	6.5	0.350 (0.092)	7.51 (1.477)	210	980 (6720)	7320 (9930)	293 (223)								
	DD675457.0	OS *	6.75 (5.50)	210.0 (5334)	4:5	7.0	0.497 (0.131)	5.77 (1.135)	300	1050 (7240)	6060 (8210)	344 (262)				X	X		
	DD675564.0		6.75 (5.50)	169.5 (4305)	5:6	4.0	0.378 (0.100)	7.00 (1.377)	190	600 (4140)	4200 (5690)	151 (115)							
	DD675675.0	OS	6.75 (5.50)	200.0 (5080)	6:7	5.0	0.292 (0.077)	8.31 (1.635)	180	750 (5170)	6230 (8450)	208 (158)					X		
	DD675782.1 ESX		6.75 (5.31)	230.0 (5842)	7:8	2.1	0.133 (0.035)	19.50 (3.835)	67	320 (2170)	6140 (8330)	78 (59)	470 (3260)	9210 (12490)	117 (89)				
	DD675783.0	OS *	6.75 (5.50)	125.0 (3175)	7:8	3.0	0.283 (0.075)	9.30 (1.829)	170	450 (3100)	4190 (5670)	135 (103)	680 (4650)	6280 (8510)	203 (155)	X	X		
	DD675783.5 ESX2	OS	6.75 (5.50)	260.0 (6604)	7:8	3.5	0.150 (0.040)	17.14 (3.371)	90	530 (3620)	9000 (12200)	154 (118)	790 (5430)	13500 (18300)	231 (176)				
	DD675784.1 ESX3		6.75 (5.50)	299.8 (7614)	7:8	4.1	0.150 (0.040)	17.07 (3.357)	90	620 (4240)	10500 (14240)	180 (137)							
	DD675785.0	OS *	6.75 (5.50)	194.5 (4940)	7:8	5.0	0.288 (0.076)	9.30 (1.829)	180	750 (5170)	6980 (9460)	229 (175)	1130 (7760)	10460 (14190)	344 (262)	X	X		
	DD675785.7 SX2	OS	6.75 (5.50)	260.0 (6604)	7:8	5.7	0.242 (0.064)	10.70 (2.104)	150	860 (5900)	9150 (12400)	253 (192)	1280 (8840)	13720 (18600)	379 (289)				
	DD675786.0	OS	6.75 (5.50)	232.0 (5893)	7:8	6.0	0.288 (0.076)	9.30 (1.829)	180	900 (6210)	8370 (11350)	275 (210)	1350 (9310)	12560 (17020)	413 (315)	X	X		
	DD675786.7 SX3		6.75 (5.50)	299.8 (7614)	7:8	6.7	0.242 (0.064)	10.70 (2.104)	150	1010 (6930)	10750 (14580)	297 (226)							
DD6759102.0		6.75 (5.59)	90.8 (2305)	9:10	2.0	0.278 (0.073)	8.48 (1.668)	170	300 (2070)	2540 (3450)	81 (62)							X	
DD6759104.0		6.75 (5.59)	157.8 (4007)	9:10	4.0	0.270 (0.071)	8.45 (1.662)	170	600 (4140)	5070 (6870)	156 (119)							X	
8.00"	DD800455.3	OS	8.00 (6.25)	228.0 (5791)	4:5	5.3	0.253 (0.067)	11.16 (2.195)	230	800 (5480)	8880 (12030)	385 (293)				X			
	DD800456.0 MX2		8.00 (6.25)	260.0 (6604)	4:5	6.0	0.246 (0.065)	11.33 (2.229)	230	900 (6210)	10200 (13830)	429 (327)							
	DD800783.0	OS	8.00 (6.25)	160.0 (4064)	7:8	3.0	0.166 (0.044)	16.59 (3.262)	150	450 (3100)	7470 (10120)	212 (162)				X	X		
	DD800783.4 ESX3		8.00 (6.25)	300.0 (7620)	7:8	3.4	0.089 (0.023)	28.04 (5.514)	81	510 (3520)	14300 (19390)	218 (166)							
	DD800784.0	OS	8.00 (6.25)	203.2 (5161)	7:8	4.0	0.166 (0.044)	16.59 (3.262)	150	600 (4140)	9950 (13490)	283 (216)				X			
	DD8009103.0 ESX		8.00 (6.50)	234.0 (5944)	9:10	3.0	0.112 (0.030)	24.56 (4.829)	110	450 (3100)	11050 (14980)	212 (162)							
9.625" - 11.25"	DD962346.0		9.62 (7.87)	Rot Only	3:4	6.0	0.221 (0.058)	13.02 (2.560)	270	900 (6210)	11720 (15890)	592 (451)				X			
	DD962563.0		9.62 (7.87)	178.0 (4521)	5:6	3.0	0.113 (0.030)	24.32 (4.782)	140	450 (3100)	10940 (14840)	283 (215)				X			
	DD962564.0		9.62 (7.87)	230.0 (5842)	5:6	4.0	0.107 (0.028)	26.42 (5.194)	130	600 (4140)	15850 (21490)	386 (294)				X			
	DD962565.0 MX	OS	9.62 (7.87)	232.0 (5893)	5:6	5.0	0.138 (0.036)	21.49 (4.225)	180	750 (5170)	16120 (21850)	548 (418)							
	DD962783.9 ESX3		9.62 (7.87)	300.0 (7620)	7:8	3.9	0.068 (0.018)	38.46 (7.563)	82	590 (4030)	22500 (30510)	350 (266)							
	DD962786.5 SX3		9.62 (7.87)	300.0 (7620)	7:8	6.5	0.113 (0.030)	23.08 (4.538)	140	980 (6720)	22500 (30510)	581 (443)							
	DD1125343.6		11.25 (9.25)	Rot Only	3:4	3.6	0.116 (0.031)	24.80 (4.877)	180	540 (3720)	13390 (18160)	444 (338)				X			
	DD1125564.6		11.25 (9.25)	230.0 (5842)	5:6	4.6	0.089 (0.024)	31.59 (6.213)	170	690 (4760)	21800 (29560)	665 (507)							