PERFORMANCE DATA FOR PULLMASTER PLANETARY WINCHES

PL SERIES - EQUAL SPEED IN BOTH DIRECTIONS

	Reduction		Drum Size							Wire Rope St	torage Capac	city (Theoretic							Hydraulic	Requirement		Drum		P	ERFORMANCE	(Based on ** wire s	size)		
Model Number	Reduction	Drum Dia	Flange Dia.	Lenath									R.T.F.								Drum Torque	RPM		are Drum		an Drum		ull Drum	
	Trano	Dian Dia.	Tiange Dia.	Lengui	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"	1-1/8"	1-1/4"	Volume	Pressure		TA IM	Line Pull	Line Speed	Line Pull	Line Speed	Line Pull	Line Speed	
PL1-12-4-1	34.1.1	4.81"	7.13"	4.00"	343 ft	170 ft	87 ft	59 ft	38 ft										6.0 gpm	1,700 psi	2,790 lb.in	67	1,102 lb	89 fpm	957 lb	105 fpm	812 lb	121 fpm	1/4*
1 61-12-4-1	34.1.1	122 mm	181 mm	102 mm	105 m	52 m	27 m	18 m	12 m										23 l/min	117 bar	315 Nm	07	4.9 kN	27 m/min	4.3 kN	32 m/min	3.6 kN	37 m/min	104
PL2-12-221-1	40.5:1	6.13"	9.00"	5.25"	745 ft	318 ft	172 ft	122 ft	84 ft	55 ft	50 ft								7.7 gpm	2,200 psi	7,095 lb.in	40	2,204 lb	83 fpm	1,919 lb	97 fpm	1,633 lb	111 fpm	
FLZ-12-221-1	40.5.1	156 mm	229 mm	133 mm	227 m	97 m	52 m	37 m	25 m	17 m	15 m								29 l/min	152 bar	802 Nm	49	9.8 kN	25 m/min	8.5 kN	30 m/min	7.3 kN	34 m/min	4
PL2-12-221-5	40.5:1	6.13"	9.00"	10.81"	1534 ft	655 ft	353 ft	251 ft	172 ft	113 ft	102 ft								7.7 gpm	2,200 psi	7,095 lb.in	40	2,204 lb	83 fpm	1,919 lb	97 fpm	1,633 lb	111 fpm	5/16"
PLZ-12-221-3	40.5.1	156 mm	229 mm	275 mm	468 m	200 m	108 m	76 m	52 m	34 m	31 m								29 l/min	152 bar	802 Nm	49	9.8 kN	25 m/min	8.5 kN	30 m/min	7.3 kN	34 m/min	5/10
PL2A-12-221-1	23.6:1	6.13"	9.00"	5.25"	745 ft	318 ft	172 ft	122 ft	84 ft	55 ft	50 ft								7.7 gpm	2,200 psi	4,135 lb.in	04	1,285 lb	142 fpm	1,118 lb	165 fpm	952 lb	189 fpm	1
PLZA-12-221-1	23.0:1	156 mm	229 mm	133 mm	227 m	97 m	52 m	37 m	25 m	17 m	15 m								29 l/min	152 bar	467 Nm	04	5.7 kN	43 m/min	5.0 kN	50 m/min	4.2 kN	58 m/min	1
PL5-12-210-1	39.0:1	7.38"	11.00"	6.56"	1382 ft	670 ft	348 ft	218 ft	157 ft	110 ft	100 ft	67 ft	62 ft						24.0 gpm	2,100 psi	17,578 lb.in	00	4,500 lb	135 fpm	3,914 lb	159 fpm	3,328 lb	183 fpm	
PL3-12-210-1	39.0.1	187 mm	279 mm	167 mm	421 m	204 m	106 m	67 m	48 m	34 m	31 m	20 m	19 m						91 l/min	145 bar	1,986 Nm	00	20.0 kN	41 m/min	17.4 kN	48 m/min	14.8 kN	56 m/min	1
PL5-12-210-2	39.0:1	7.38"	12.38"	6.56"	2146 ft	975 ft	510 ft	354 ft	234 ft	177 ft	130 ft	121 ft	86 ft						24.0 gpm	2,100 psi	17,578 lb.in	00	4,500 lb	135 fpm	3,723 lb	171 fpm	2,945 lb	206 fpm	1
PL5-12-210-2	39.0:1	187 mm	314 mm	167 mm	654 m	297 m	156 m	108 m	71 m	54 m	40 m	37 m	26 m						91 l/min	145 bar	1,986 Nm	00	20.0 kN	41 m/min	16.6 kN	52 m/min	13.1 kN	63 m/min	1
PL5-12-210-6	39.0:1	7.38"	11.00"	10.00"	2106 ft	1022 ft	531 ft	333 ft	239 ft	168 ft	153 ft	101 ft	94 ft						24.0 gpm	2,100 psi	17,578 lb.in		4,500 lb	135 fpm	3,914 lb	159 fpm	3,328 lb	183 fpm	1
PL5-12-210-0	39.0.1	187 mm	279 mm	254 mm	642 m	311 m	162 m	101 m	73 m	51 m	47 m	31 m	29 m						91 l/min	145 bar	1,986 Nm	00	20.0 kN	41 m/min	17.4 kN	48 m/min	14.8 kN	56 m/min	1 1
DI 5 40 040 4	39.0:1	7.38"	11.00"	6.56"	1382 ft	670 ft	348 ft	218 ft	157 ft	110 ft	100 ft	67 ft	62 ft						11.0 gpm	2,250 psi	7,813 lb.in	<u>co</u>	2,000 lb	142 fpm	1,740 lb	166 fpm	1,479 lb	191 fpm	7/16"
PL5-12-213-1	39.0:1	187 mm	279 mm	167 mm	421 m	204 m	106 m	67 m	48 m	34 m	31 m	20 m	19 m						42 l/min	155 bar	883 Nm	09	8.9 kN	43 m/min	7.7 kN	51 m/min	6.6 kN	58 m/min	1 //10
BL 5 40 040 0	00.04	7.38"	12.38"	6.56"	2146 ft	975 ft	510 ft	354 ft	234 ft	177 ft	130 ft	121 ft	86 ft						11.0 gpm	2.250 psi	7,813 lb.in		2.000 lb	142 fpm	1,655 lb	179 fpm	1,309 lb	216 fpm	1
PL5-12-213-2	39.0:1	187 mm	314 mm	167 mm	654 m	297 m	156 m	108 m	71 m	54 m	40 m	37 m	26 m						42 l/min	155 bar	883 Nm	69	8.9 kN	43 m/min	7.4 kN	55 m/min	5.8 kN	66 m/min	1
		7.38"	11.00"	6.56"	1382 ft	670 ft	348 ft	218 ft	157 ft	110 ft	100 ft	67 ft	62 ft						11.0 apm	2.400 psi	19.530 lb.in		5.000 lb	60 fpm	4.349 lb	71 fpm	3.698 lb	82 fpm	1
PL5A-12-212-1	56.0:1	187 mm	279 mm	167 mm	421 m	204 m	106 m	67 m	48 m	34 m	31 m	20 m	19 m						42 l/min	165 bar	2.207 Nm	29.5	22.2 kN	18 m/min	19.3 kN	22 m/min	16.4 kN	25 m/min	1
BI 54 40 040 0	50.0.4	7.38"	12.38"	6.56"	2146 ft	975 ft	510 ft	354 ft	234 ft	177 ft	130 ft	121 ft	86 ft						11.0 gpm	2.400 psi	19.530 lb.in	00.5	5.000 lb	60 fpm	4,136 lb	76 fpm	3,272 lb	92 fpm	1
PL5A-12-212-2	56.0:1	187 mm	314 mm	167 mm	654 m	297 m	156 m	108 m	71 m	54 m	40 m	37 m	26 m						42 l/min	165 bar	2,207 Nm	29.5	22.2 kN	18 m/min	18.4 kN	23 m/min	14.6 kN	28 m/min	1
		9.63"	14.13"	8.00"	2720 ft	1234 ft	684 ft	462 ft	294 ft	215 ft	196 ft	140 ft	130 ft						37.0 apm	2,150 psi	35.438 lb.in		7.000 lb	122 fpm	6.101 lb	143 fpm	5.202 lb	164 fpm	
PL8-3-30-1	42.5:1	244 mm	359 mm	203 mm	829 m	376 m	209 m	141 m	90 m	66 m	60 m	43 m	40 m						140 l/min	148 bar	4.004 Nm	46	31.1 kN	37 m/min	27.1 kN	44 m/min	23.1 kN	50 m/min	1
		9.63"	14.13"	10.00"	3400 ft	1542 ft	855 ft	577 ft	367 ft	269 ft	245 ft	175 ft	162 ft						37.0 gpm	2,150 psi	35,438 lb.in		7.000 lb	122 fpm	6.101 lb	143 fpm	5.202 lb	164 fpm	1/2"
PL8-3-30-2	42.5:1	244 mm	359 mm	254 mm	1036 m	470 m	261 m	176 m	112 m	82 m	75 m	53 m	49 m						140 l/min	148 bar	4,004 Nm	46	31.1 kN	37 m/min	27.1 kN	44 m/min	23.1 kN	50 m/min	1
L														-															

M SERIES - EQUAL SPEED IN BOTH DIRECTIONS

	Reduction		Drum Size						1	Wire Rope S	itorage Capac	ity (Theoretic	:al)						Hydraulic	Requirement		Drum		P		(Based on ** wire s			_
Model Number	Ratio	Drum Dia.	Flange	Length											* R.T.F.				Oil S	Supply	Drum Torque	RPM		are Drum	Me	an Drum		ull Drum	
	Rauo	Dium Dia.	Dia.	Lengui	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"	1-1/8"	1-1/4"	Volume	Pressure		INF W	Line Pull	Line Speed	Line Pull	Line Speed	Line Pull	Line Speed	
M5-3-10-1	76.0:1	7.00"	11.50"	8.00"	2115 ft	959 ft	532 ft	359 ft	227 ft	166 ft	152 ft	108 ft	101 ft						14.5 gpm	2,000 psi	22,500 lb.in	35	6,000 lb	69 fpm	5,045 lb	85 fpm	4,091 lb	101 fpm	
100-0-10-1	10.0.1	178 mm	292 mm	203 mm	645 m	292 m	162 m	109 m	69 m	51 m	46 m	33 m	31 m						55 l/min	138 bar	2,542 Nm		26.7 kN	21 m/min	22.4 kN	26 m/min	18.2 kN	31 m/min	
M5-3-10-2	76.0:1	7.00"	13.50"	8.00"	3538 ft	1651 ft	812 ft	535 ft	375 ft	297 ft	231 ft	178 ft	133 ft						14.5 gpm	2,000 psi	22,500 lb.in	26	6,000 lb	69 fpm	4,731 lb	94 fpm	3,462 lb	119 fpm	
1010-0-10-2	70.0.1	178 mm	343 mm	203 mm	1078 m	503 m	247 m	163 m	114 m	90 m	71 m	54 m	40 m						55 l/min	138 bar	2,542 Nm	30	26.7 kN	21 m/min	21.0 kN	29 m/min	15.4 kN	36 m/min	
M5-3-10-4	76.0:1	7.00"	13.50"	12.00"	5307 ft	2477 ft	1218 ft	802 ft	562 ft	445 ft	347 ft	267 ft	199 ft						14.5 gpm	2,000 psi	22,500 lb.in	25	6,000 lb	69 fpm	4,731 lb	94 fpm	3,462 lb	119 fpm	
1010-0-10-4	10.0.1	178 mm	343 mm	305 mm	1618 m	755 m	371 m	244 m	171 m	136 m	106 m	81 m	61 m						55 l/min	138 bar	2,542 Nm	35	26.7 kN	21 m/min	21.0 kN	29 m/min	15.4 kN	36 m/min	
M6-12-70-2	9.3:1	7.50"	11.38"	9.00"	2210 ft	932 ft	484 ft	363 ft	218 ft	198 ft	139 ft	93 ft	86 ft						15 gpm	2,000 psi	26,448 lb.in	26	6,612 lb	54 fpm	5,738 lb	64 fpm	4,864 lb	74 fpm	
WIG-12-70-2	9.3.1	191 mm	289 mm	229 mm	674 m	284 m	148 m	111 m	67 m	60 m	42 m	28 m	26 m						57 l/min	138 bar	2,988 Nm	20	29.4 kN	17 m/min	25.5 kN	20 m/min	21.6 kN	23 m/min	
M8-3-30-1	33.8:1	7.00"	11.50"	8.00"	2115 ft	959 ft	532 ft	359 ft	227 ft	166 ft	152 ft	108 ft	101 ft						37 gpm	2,000 psi	31,875 lb.in	50	8,500 lb	116 fpm	7,148 lb	143 fpm	5,795 lb	170 fpm	
1010-3-30-1	33.0.1	178 mm	292 mm	203 mm	645 m	292 m	162 m	109 m	69 m	51 m	46 m	33 m	31 m						140 l/min	138 bar	3,601 Nm	- 59	37.8 kN	35 m/min	31.8 kN	44 m/min	25.8 kN	52 m/min	
M8-3-30-2	33.8:1	7.00"	13.50"	8.00"	3538 ft	1651 ft	812 ft	535 ft	375 ft	297 ft	231 ft	178 ft	133 ft						37 gpm	2,000 psi	31,875 lb.in	50	8,500 lb	116 fpm	6,702 lb	158 fpm	4,904 lb	201 fpm	
1010-3-30-2	33.0:1	178 mm	343 mm	203 mm	1078 m	503 m	247 m	163 m	114 m	90 m	71 m	54 m	40 m						140 l/min	138 bar	3,601 Nm	59	37.8 kN	35 m/min	29.8 kN	48 m/min	21.8 kN	61 m/min	
M8-3-30-4	00.04	7.00"	13.50"	12.00"	5307 ft	2477 ft	1218 ft	802 ft	562 ft	445 ft	347 ft	267 ft	199 ft						37 gpm	2,000 psi	31,875 lb.in	50	8,500 lb	116 fpm	6,702 lb	158 fpm	4,904 lb	201 fpm	1/2"
M8-3-30-4	33.8:1	178 mm	343 mm	305 mm	1618 m	755 m	371 m	244 m	171 m	136 m	106 m	81 m	61 m						140 l/min	138 bar	3,601 Nm	59	37.8 kN	35 m/min	29.8 kN	48 m/min	21.8 kN	61 m/min	1/2"
M8A-3-30-1	28.9:1	7.00"	11.50"	8.00"	2115 ft	959 ft	532 ft	359 ft	227 ft	166 ft	152 ft	108 ft	101 ft						37 apm	2,000 psi	26.250 lb.in		7.000 lb	135 fpm	5.886 lb	167 fpm	4,773 lb	199 fpm	
M8A-3-30-1	28.9:1	178 mm	292 mm	203 mm	645 m	292 m	162 m	109 m	69 m	51 m	46 m	33 m	31 m						140 l/min	138 bar	2,966 Nm	69	31.1 kN	41 m/min	26.2 kN	51 m/min	21.2 kN	61 m/min	
		7.00"	13.50"	8.00"	3538 ft	1651 ft	812 ft	535 ft	375 ft	297 ft	231 ft	178 ft	133 ft						37 gpm	2.000 psi	26.250 lb.in		7.000 lb	135 fpm	5.519 lb	185 fpm	4.038 lb	235 fpm	
M8A-3-30-2	28.9:1	178 mm	343 mm	203 mm	1078 m	503 m	247 m	163 m	114 m	90 m	71 m	54 m	40 m						140 l/min	138 bar	2,966 Nm	69	31.1 kN	41 m/min	24.6 kN	56 m/min	18.0 kN	72 m/min	
		7.00"	13.50"	12.00"	5307 ft	2477 ft	1218 ft	802 ft	562 ft	445 ft	347 ft	267 ft	199 ft						37 apm	2,000 psi	26,250 lb.in		7,000 lb	135 fpm	5.519 lb	185 fpm	4.038 lb	235 fpm	1
M8A-3-30-4	28.9:1	178 mm	343 mm	305 mm	1618 m	755 m	371 m	244 m	171 m	136 m	106 m	81 m	61 m						140 l/min	138 bar	2,966 Nm	69	31.1 kN	41 m/min	24.6 kN	56 m/min	18.0 kN	72 m/min	
		7.00"	11.50"	8.00"	2115 ft	959 ft	532 ft	359 ft	227 ft	166 ft	152 ft	108 ft	101 ft						37 gpm	2.000 psi	14.212 lb.in		3,790 lb	249 fpm	3,187 lb	308 fpm	2,584 lb	366 fpm	
M8B-3-30-1	15.7:1	178 mm	292 mm	203 mm	645 m	292 m	162 m	109 m	69 m	51 m	46 m	33 m	31 m						140 l/min	138 bar	1.606 Nm	127	16.9 kN	76 m/min	14.2 kN	94 m/min	11.5 kN	111 m/min	
		7.00"	13.50"	8.00"	3538 ft	1651 ft	812 ft	535 ft	375 ft	297 ft	231 ft	178 ft	133 ft						37 apm	2,000 psi	14.212 lb.in		3,790 lb	249 fpm	2.988 lb	341 fpm	2.186 lb	432 fpm	1
M8B-3-30-2	15.7:1	178 mm	343 mm	203 mm	1078 m	503 m	247 m	163 m	114 m	90 m	71 m	54 m	40 m						140 l/min	138 bar	1.606 Nm	127	16.9 kN	76 m/min	13.3 kN	104 m/min	9.7 kN	132 m/min	
		7.00"	13.50"	12.00"	5307 ft	2477 ft	1218 ft	802 ft	562 ft	445 ft	347 ft	267 ft	199 ft						37 gpm	2.000 psi	14.212 lb.in		3,790 lb	249 fpm	2.988 lb	341 fpm	2.186 lb	432 fpm	
M8B-3-30-4	15.7:1	178 mm	343 mm	305 mm	1618 m	755 m	371 m	244 m	171 m	136 m	106 m	81 m	61 m						140 l/min	138 bar	1,606 Nm	127	16.9 kN	76 m/min	13.3 kN	104 m/min	9.7 kN	132 m/min	
		7.63"	14.63"	10.00"	5103 ft	2333 ft	1280 ft	793 ft	569 ft	458 ft	307 ft	287 ft	222 ft						50 apm	2,200 psi	50.000 lb.in		12.121 lb	104 fpm	9.632 lb	140 fpm	7.143 lb	176 fpm	
M12-3-97-1	41.2:1	194 mm	371 mm	254 mm	1555 m	711 m	390 m	242 m	173 m	140 m	94 m	87 m	68 m						189 l/min	152 bar	5.649 Nm	48	53.9 kN	32 m/min	42.8 kN	43 m/min	31.8 kN	54 m/min	
		9.63"	14.63"	10.00"	4014 ft	1826 ft	957 ft	663 ft	439 ft	332 ft	245 ft	226 ft	162 ft						50 apm	2,200 psi	50.000 lb.in		9,756 lb	129 fpm	8,449 lb	152 fpm	7,143 lb	176 fpm	-
M12-3-97-2	41.2:1	244 mm	371 mm	254 mm	1223 m	557 m	292 m	202 m	134 m	101 m	75 m	69 m	49 m		1				189 l/min	152 bar	5.649 Nm	48	43.4 kN	39 m/min	37.6 kN	46 m/min	31.8 kN	54 m/min	
		9.63"	16.63"	13.00"	7828 ft	3581 ft	1963 ft	1220 ft	875 ft	703 ft	474 ft	440 ft	341 ft						50 apm	2,200 psi	50,000 lb.in		9.756 lb	129 fpm	8.003 lb	165 fpm	6.250 lb	201 fpm	
M12-3-97-3	41.2:1	244 mm	422 mm	330 mm	2386 m	1091 m	598 m	372 m	267 m	214 m	144 m	134 m	104 m						189 l/min	152 bar	5.649 Nm	48	43.4 kN	39 m/min	35.6 kN	50 m/min	27.8 kN	61 m/min	5/8"
		7.63"	16.63"	10.00"	7104 ft	3258 ft	1721 ft	1159 ft	803 ft	596 ft	489 ft	399 ft	323 ft						50 apm	2,200 psi	50.000 lb.in		12.121 lb	104 fpm	9,186 lb	152 fpm	6,250 lb	201 fpm	-
M12-3-97-5	41.2:1	194 mm	422 mm	254 mm	2165 m	993 m	525 m	353 m	245 m	182 m	149 m	122 m	98 m		1				189 l/min	152 bar	5,649 Nm	48	53.9 kN	32 m/min	40.9 kN	46 m/min	27.8 kN	61 m/min	
		9.63"	16.63"	10.00"	6022 ft	2754 ft	1510 ft	939 ft	673 ft	540 ft	365 ft	339 ft	262 ft		-				50 apm	2.200 psi	50,000 lb.in		9.756 lb	129 fpm	8,003 lb	165 fpm	6,250 lb	201 fpm	-
M12-3-97-6	41.2:1	244 mm	422 mm	254 mm	1835 m	840 m	460 m	286 m	205 m	165 m	111 m	103 m	80 m						189 l/min	152 bar	5 649 Nm	48	43.4 kN	39 m/min	35.6 kN	50 m/min	27.8 kN	61 m/min	1
l	1	299 000	922 11111	2.34 [[]]]]	1033111	040111	400 III	200 111	203111	103111	10100	103111	00111						100 //1101	152 081	3,048 NIT		40.4 KIN	39 MMIN	33.0 KIN	ou m/min	27.0 KIN	o i in/min	

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* Refer to Factory prior to using these wire rope sizes.

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	Reduction		Drum Size						١	Nire Rope S	torage Capaci	ity (Theoretic	;al) .						Hydraulic R	equirement		Drum		P	ERFORMANCE (Based on ** wire s	size)	
del Number	Reduction	Drum Dia.	Flange	Length												* R.T.F.			Oil S	upply	Drum Torque	BPM		re Drum		an Drum		ull Drum
	riano		Dia.		1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"	1-1/8"	1-1/4"	Volume	Pressure		i a m	Line Pull	Line Speed	Line Pull	Line Speed	Line Pull	Line Speed
-97-7	41.2:1	7.63"	16.63"	13.00"	9235 ft	4235 ft	2237 ft	1507 ft	1044 ft	775 ft	636 ft	519 ft	419 ft						50 gpm	2,200 psi	50,000 lb.in	48	12,121 lb	104 fpm	9,186 lb	152 fpm	6,250 lb	201 fpm
		194 mm 7.63"	422 mm 25.00"	330 mm 12.50"	2815 m 23339 ft	1291 m 10768 ft	682 m 5834 ft	459 m 3925 ft	318 m 2704 ft	236 m 2000 ft	194 m 1527 ft	158 m 1237 ft	128 m 985 ft						189 l/min 50 gpm	152 bar 2,200 psi	5,649 Nm 50,000 lb.in		53.9 kN 12,121 lb	32 m/min	40.9 kN 8,112 lb	46 m/min	27.8 kN 4 103 lb	61 m/min
-97-11	41.2:1	194 mm	635 mm	318 mm	7114 m	3282 m	1778 m	1196 m	824 m	610 m	465 m	377 m	300 m						189 l/min	152 bar	5 649 Nm	48	53.9 kN	104 fpm	36.1 kN	205 fpm	18.2 kN	306 fpm
		7.63"	14.63"	10.00"	5103 ft	2333 ft	1280 ft	793 ft	569 ft	458 ft	405 m 307 ft	287 ft	222 ft		-	-			50 gpm	2,200 psi	25.244 lb.in		6.120 lb	32 m/min 205 fpm	4.863 lb	62 m/min 277 fpm	3.606 lb	93 m/min 348 fpm
3-97-1	20.7:1	194 mm	371 mm	254 mm	1555 m	711 m	390 m	242 m	173 m	140 m	94 m	207 m	68 m	-					189 l/min	152 bar	2,852 Nm	95	27.2 kN	63 m/min	21.6 kN	84 m/min	16.0 kN	106 m/min
		9.63"	14.63"	10.00"	4014 ft	1826 ft	957 ft	663 ft	439 ft	332 ft	245 ft	226 ft	162 ft		-				50 apm	2,200 psi	25,244 lb.in		4,926 lb	255 fpm	4,266 lb	302 fpm	3,606 lb	348 fpm
3-97-2	20.7:1	244 mm	371 mm	254 mm	1223 m	557 m	292 m	202 m	134 m	101 m	75 m	69 m	49 m						189 l/min	152 bar	2,852 Nm	95	21.9 kN	78 m/min	19.0 kN	92 m/min	16.0 kN	106 m/min
		9.63"	16.63"	13.00"	7828 ft	3581 ft	1963 ft	1220 ft	875 ft	703 ft	474 ft	440 ft	341 ft						50 apm	2,200 psi	25 244 lb in		4 926 lb	255 fpm	4 041 lb	326 fpm	3 156 lb	398 fpm
-97-3	20.7:1	244 mm	422 mm	330 mm	2386 m	1091 m	598 m	372 m	267 m	214 m	144 m	134 m	104 m						189 l/min	152 bar	2.852 Nm	95	21.9 kN	78 m/min	18.0 kN	99 m/min	14.0 kN	121 m/min
		7.63"	16.63"	10.00"	7104 ft	3258 ft	1721 ft	1159 ft	803 ft	596 ft	489 ft	399 ft	323 ft			-			50 gpm	2,200 psi	25,244 lb.in		6,120 lb	205 fpm	4.638 lb	302 fpm	3.156 lb	398 fpm
97-5	20.7:1	194 mm	422 mm	254 mm	2165 m	993 m	525 m	353 m	245 m	182 m	149 m	122 m	98 m						189 l/min	152 bar	2.852 Nm	95	27.2 kN	63 m/min	20.6 kN	92 m/min	14.0 kN	121 m/min
		9.63"	16.63"	10.00"	6022 ft	2754 ft	1510 ft	939 ft	673 ft	540 ft	365 ft	339 ft	262 ft		-				50 gpm	2.200 psi	25,244 lb.in		4.926 lb	255 fpm	4.041 lb	326 fpm	3,156 lb	398 fpm
1-97-6	20.7:1	244 mm	422 mm	254 mm	1835 m	840 m	460 m	286 m	205 m	165 m	111 m	103 m	80 m						189 l/min	152 bar	2.852 Nm	95	21.9 kN	78 m/min	18.0 kN	99 m/min	14.0 kN	121 m/min
		7.63"	16.63"	13.00"	9235 ft	4235 ft	2237 ft	1507 ft	1044 ft	775 ft	636 ft	519 ft	419 ft		-				50 gpm	2,200 psi	25,244 lb.in		6,120 lb	205 fpm	4,638 lb	302 fpm	3,156 lb	398 fpm
-97-7	20.7:1	194 mm	422 mm	330 mm	2815 m	1291 m	682 m	459 m	318 m	236 m	194 m	158 m	128 m						189 l/min	152 bar	2,852 Nm	95	27.2 kN	63 m/min	20.6 kN	92 m/min	14.0 kN	121 m/min
		7.63"	25.00"	12.50"	23339 ft	10768 ft	5834 ft	3925 ft	2704 ft	2000 ft	1527 ft	1237 ft	985 ft		-				50 gpm	2,200 psi	25.244 lb.in		6,120 lb	205 fpm	4,096 lb	406 fpm	2,071 lb	606 fpm
-97-11	20.7:1	194 mm	635 mm	318 mm	7114 m	3282 m	1778 m	1196 m	824 m	610 m	465 m	377 m	300 m						189 l/min	152 bar	2.852 Nm	95	27.2 kN	63 m/min	18.2 kN	124 m/min	9.2 kN	185 m/min
		8.50"	15.50"	10.00"					615 ft	494 ft	332 ft	310 ft	239 ft	170 ft	113 ft				76 gpm	2.300 psi	83.250 lb.in		18.000 lb	122 fpm	14.644 lb	159 fpm	11.288 lb	195 fpm
01-1	39.6:1	216 mm	394 mm	254 mm					187 m	151 m	101 m	94 m	73 m	52 m	34 m				288 l/min	159 bar	9,406 Nm	50.5	80.1 kN	37 m/min	65.1 kN	48 m/min	50.2 kN	59 m/min
		13.00"	20.00"	16.00"					1359 ft	1088 ft	738 ft	681 ft	528 ft	375 ft	251 ft				76 gpm	2,300 psi	83,250 lb.in		12,109 lb	182 fpm	10,379 lb	218 fpm	8,649 lb	255 fpm
01-2	39.6:1	330 mm	508 mm	406 mm					414 m	331 m	225 m	208 m	161 m	114 m	76 m				288 l/min	159 bar	9.406 Nm	50.5	53.9 kN	55 m/min	46.2 kN	66 m/min	38.5 kN	78 m/min
		8.50"	20.00"	16.00"					1982 ft	1557 ft	1197 ft	898 ft	747 ft	500 ft	372 ft				76 gpm	2.300 psi	83.250 lb.in		18.000 lb	122 fpm	13.325 lb	188 fpm	8.649 lb	255 fpm
01-3	39.6:1	216 mm	508 mm	406 mm					604 m	475 m	365 m	274 m	228 m	153 m	113 m				288 l/min	159 bar	9,406 Nm	50.5	80.1 kN	37 m/min	59.3 kN	57 m/min	38.5 kN	78 m/min
		8.50"	28.00"	21.25"					5712 ft	4345 ft	3412 ft	2620 ft	2130 ft	1479 ft	1068 ft				76 gpm	2,300 psi	83,250 lb.in		18,000 lb	122 fpm	12,055 lb	241 fpm	6,110 lb	360 fpm
01-4	39.6:1	216 mm	711 mm	540 mm					1741 m	1324 m	1040 m	799 m	649 m	451 m	325 m				288 l/min	159 bar	9.406 Nm	50.5	80.1 kN	37 m/min	53.6 kN	74 m/min	27.2 kN	110 m/min
		10.00"	17.00"	11.00"						612 ft	413 ft	383 ft	297 ft	210 ft	140 ft	91 ft	84 ft	77 ft	115 gpm	2,500 psi	135.937 lb.in		25,000 lb	140 fpm	20.930 lb	173 fpm	16.860 lb	207 fpm
6-1	40.8:1	254 mm	432 mm	279 mm						186 m	126 m	117 m	90 m	64 m	43 m	28 m	26 m	23 m	435 l/min	172 bar	15.359 Nm	49	111.2 kN	43 m/min	93.1 kN	53 m/min	75.0 kN	63 m/min
		10.00"	24.00"	11.00"						1520 ft	1210 ft	950 ft	728 ft	515 ft	398 ft	264 ft	249 ft	186 ft	115 gpm	2,500 psi	135,937 lb.in		25.000 lb	140 fpm	18,378 lb	218 fpm	11,757 lb	297 fpm
5-2	40.8:1	254 mm	610 mm	279 mm						463 m	369 m	289 m	222 m	157 m	121 m	80 m	76 m	57 m	435 l/min	172 bar	15,359 Nm	49	111.2 kN	43 m/min	81.8 kN	66 m/min	52.3 kN	90 m/min
	40.0.4	10.00"	24.00"	17.00"						2349 ft	1869 ft	1467 ft	1125 ft	796 ft	615 ft	408 ft	384 ft	287 ft	115 gpm	2,500 psi	135,937 lb.in	10	25,000 lb	140 fpm	18,378 lb	218 fpm	11,757 lb	297 fpm
6-3	40.8:1	254 mm	610 mm	432 mm						716 m	570 m	447 m	343 m	243 m	188 m	124 m	117 m	87 m	435 l/min	172 bar	15,359 Nm	49	111.2 kN	43 m/min	81.8 kN	66 m/min	52.3 kN	90 m/min
6-4	40.0.4	10.00"	24.00"	22.00"						3039 ft	2419 ft	1899 ft	1456 ft	1031 ft	796 ft	528 ft	497 ft	371 ft	115 gpm	2,500 psi	135,937 lb.in	40	25,000 lb	140 fpm	18,378 lb	218 fpm	11,757 lb	297 fpm
6-4	40.8:1	254 mm	610 mm	559 mm						926 m	737 m	579 m	444 m	314 m	243 m	161 m	152 m	113 m	435 l/min	172 bar	15,359 Nm	49	111.2 kN	43 m/min	81.8 kN	66 m/min	52.3 kN	90 m/min
6-5	40.8:1	10.00"	34.00"	29.00"						8882 ft	6863 ft	5504 ft	4642 ft	3189 ft	2204 ft	1689 ft	1433 ft	1017 ft	115 gpm	2,500 psi	135,937 lb.in	49	25,000 lb	140 fpm	16,604 lb	282 fpm	8.208 lb	425 fpm
0-0	40.6.1	254 mm	864 mm	737 mm						2707 m	2092 m	1677 m	1415 m	972 m	672 m	515 m	437 m	310 m	435 l/min	172 bar	15,359 Nm	49	111.2 kN	43 m/min	73.9 kN	86 m/min	36.5 kN	130 m/min
6-14	40.8:1	14.50"	24.00"	17.00"						1780 ft	1307 ft	1065 ft	861 ft	647 ft	468 ft	344 ft	244 ft	221 ft	115 gpm	2,500 psi	135,937 lb.in	40	17,683 lb	197 fpm	14,720 lb	247 fpm	11,757 lb	297 fpm
0-14	40.6:1	368 mm	610 mm	432 mm						543 m	398 m	325 m	263 m	197 m	143 m	105 m	74 m	67 m	435 l/min	172 bar	15,359 Nm	49	78.7 kN	60 m/min	65.5 kN	75 m/min	52.3 kN	90 m/min
6-31	40.8:1	13.00"	24.00"	17.00"						1992 ft	1511 ft	1262 ft	1049 ft	705 ft	523 ft	397 ft	294 ft	203 ft	115 gpm	2,500 psi	135,937 lb.in	49	19,595 lb	178 fpm	15,676 lb	237 fpm	11,757 lb	297 fpm
0-51	40.0.1	330 mm	610 mm	432 mm						607 m	461 m	385 m	320 m	215 m	159 m	121 m	90 m	62 m	435 l/min	172 bar	15,359 Nm	49	87.2 kN	54 m/min	69.7 kN	72 m/min	52.3 kN	90 m/min
86-1	20.7:1	10.00"	17.00"	11.00"						612 ft	413 ft	383 ft	297 ft	210 ft	140 ft	91 ft	84 ft	77 ft	115 gpm	2,500 psi	69,047 lb.in	96	12,698 lb	273 fpm	10,631 lb	339 fpm	8,564 lb	405 fpm
00-1	20.7.1	254 mm	432 mm	279 mm						186 m	126 m	117 m	90 m	64 m	43 m	28 m	26 m	23 m	435 l/min	172 bar	7,801 Nm		56.5 kN	83 m/min	47.3 kN	103 m/min	38.1 kN	124 m/min
36-2	20.7:1	10.00"	24.00"	11.00"						1520 ft	1210 ft	950 ft	728 ft	515 ft	398 ft	264 ft	249 ft	186 ft	115 gpm	2,500 psi	69,047 lb.in	96	12,698 lb	273 fpm	9,335 lb	427 fpm	5,972 lb	581 fpm
00*2	20.7.1	254 mm	610 mm	279 mm						463 m	369 m	289 m	222 m	157 m	121 m		76 m	57 m	435 l/min	172 bar	7,801 Nm	50	56.5 kN	83 m/min	41.5 kN	130 m/min	26.6 kN	177 m/min
86-3	20.7:1	10.00"	24.00"	17.00"						2349 ft	1869 ft	1467 ft	1125 ft	796 ft	615 ft	408 ft	384 ft	287 ft	115 gpm	2,500 psi	69,047 lb.in	96	12,698 lb	273 fpm	9,335 lb	427 fpm	5,972 lb	581 fpm
50-5	20.7.1	254 mm	610 mm	432 mm						716 m	570 m	447 m	343 m	243 m	188 m	124 m	117 m	87 m	435 l/min	172 bar	7,801 Nm	30	56.5 kN	83 m/min	41.5 kN	130 m/min	26.6 kN	177 m/min
86-4	20.7:1	10.00"	24.00"	22.00"						3039 ft	2419 ft	1899 ft	1456 ft	1031 ft	796 ft	528 ft	497 ft	371 ft	115 gpm	2,500 psi	69,047 lb.in	96	12,698 lb	273 fpm	9,335 lb	427 fpm	5,972 lb	581 fpm
	201111	254 mm	610 mm	559 mm						926 m	737 m	579 m	444 m	314 m	243 m	161 m	152 m	113 m	435 l/min	172 bar	7,801 Nm	~~	56.5 kN	83 m/min	41.5 kN	130 m/min	26.6 kN	177 m/min
86-5	20.7:1	10.00"	34.00"	29.00"						8882 ft	6863 ft	5504 ft	4642 ft	3189 ft	2204 ft	1689 ft	1433 ft	1017 ft	115 gpm	2,500 psi	69,047 lb.in	96	12,698 lb	273 fpm	8,434 lb	553 fpm	4,169 lb	833 fpm
		254 mm	864 mm	737 mm						2707 m	2092 m	1677 m	1415 m	972 m	672 m	515 m	437 m	310 m	435 l/min	172 bar	7,801 Nm		56.5 kN	83 m/min	37.5 kN	169 m/min	18.5 kN	254 m/min
86-14	20.7:1	14.50"	24.00"	17.00"						1780 ft	1307 ft	1065 ft	861 ft	647 ft	468 ft	344 ft	244 ft	221 ft	115 gpm	2,500 psi	69,047 lb.in	96	8,982 lb	386 fpm	7,477 lb	484 fpm	5,972 lb	581 fpm
		368 mm	610 mm	432 mm						543 m	398 m	325 m	263 m	197 m	143 m	105 m	74 m	67 m	435 l/min	172 bar	7,801 Nm		40.0 kN	118 m/min	33.3 kN	147 m/min	26.6 kN	177 m/min
86-31	20.7:1	13.00"	24.00"	17.00"						1992 ft	1511 ft	1262 ft	1049 ft	705 ft	523 ft	397 ft	294 ft	203 ft	115 gpm	2,500 psi	69,047 lb.in	96	9,953 lb	349 fpm	7,962 lb	465 fpm	5,972 lb	581 fpm
		330 mm	610 mm	432 mm						607 m	461 m	385 m	320 m	215 m	159 m	121 m	90 m		435 l/min	172 bar	7,801 Nm		44.3 kN	106 m/min	35.4 kN	142 m/min	26.6 kN	177 m/min
8-1	115.9:1	14.00"	23.75"	14.00"								854 ft	691 ft	519 ft	375 ft	276 ft	195 ft	177 ft	115 gpm	2,500 psi	381,250 lb.in	17.4	50,000 lb	69 fpm	41,944 lb	86 fpm	33,889 lb	102 fpm
5.	110.0.1	356 mm	603 mm	356 mm								260 m	211 m	158 m	114 m	84 m	60 m	54 m	435 l/min	172 bar	43,075 Nm		222.4 kN	21 m/min	186.6 kN	26 m/min	150.7 kN	31 m/min
3-2	115.9:1	18.00"	30.00"	22.00"								2309 ft	1725 ft	1341 ft	860 ft	654 ft	605 ft	440 ft	115 gpm	2,500 psi	381,250 lb.in	17.4	39,610 lb	88 fpm	33,066 lb	109 fpm	26,522 lb	131 fpm
-		457 mm	762 mm	559 mm								704 m	526 m	409 m	262 m	199 m	184 m	134 m	435 l/min	172 bar	43,075 Nm		176.2 kN	27 m/min	147.1 kN	33 m/min	118.0 kN	40 m/min
5-13	115.9:1	14.00"	36.00"	36.00"								7137 ft	5938 ft	3960 ft	2941 ft	2221 ft	1858 ft	1503 ft	115 gpm	2,500 psi	381,250 lb.in	17.4	50,000 lb	69 fpm	35,971 lb	114 fpm	21,942 lb	158 fpm
	110.0.1	356 mm	914 mm	914 mm								2175 m	1810 m	1207 m	896 m	677 m	566 m	458 m	435 l/min	172 bar	43,075 Nm		222.4 kN	21 m/min	160.0 kN	35 m/min	97.6 kN	48 m/min
86-1	84.1:1	14.00"	23.75"	14.00"								854 ft	691 ft	519 ft	375 ft	276 ft	195 ft	177 ft	115 gpm	2,500 psi	276,669 lb.in	24	36,284 lb	96 fpm	30,439 lb	119 fpm	24,593 lb	141 fpm
	•	356 mm	603 mm	356 mm								260 m	211 m	158 m	114 m	84 m	60 m	54 m	435 l/min	172 bar	31,259 Nm		161.4 kN	29 m/min	135.4 kN	36 m/min	109.4 kN	43 m/min
86-2	84.1:1	18.00"	30.00"	22.00"								2309 ft	1725 ft	1341 ft	860 ft	654 ft	605 ft	440 ft	115 gpm	2,500 psi	276,669 lb.in	24	28,745 lb	121 fpm	23,996 lb	151 fpm	19,247 lb	181 fpm
		457 mm	762 mm	559 mm								704 m	526 m	409 m	262 m	199 m	184 m	134 m	435 l/min	172 bar	31,259 Nm	2.1	127.9 kN	37 m/min	106.7 kN	46 m/min	85.6 kN	55 m/min
86-13	84.1:1	14.00"	36.00"	36.00"								7137 ft	5938 ft	3960 ft	2941 ft	2221 ft		1503 ft	115 gpm	2,500 psi	276,669 lb.in	24	36,284 lb	96 fpm	26,104 lb	157 fpm	15,923 lb	218 fpm
		356 mm	914 mm	914 mm								2175 m	1810 m	1207 m	896 m		566 m	458 m	435 l/min	172 bar	31,259 Nm		161.4 kN	29 m/min	116.1 kN	48 m/min	70.8 kN	67 m/min
91-1	157:1	16.00"	32.00"	20.00"												907 ft	727 ft	559 ft	142 gpm	3,000 psi	642,183 lb.in	16	75,000 lb	72 fpm	58,374 lb	101 fpm	41,748 lb	129 fpm
			040	F00					-									170	500.11		TO 550 M	10	000 141		000 0111		405.01.01	39 m/min
51-1		406 mm	813 mm	508 mm												276 m	221 m	170 m	538 l/min	207 bar	72,556 Nm		330 kN	22 m/min	259.7 kN	31 m/min	185.8 kN	28 m/mm

Pullmaster Winch Corporation 8247 - 130 Street, Surrey, B.C., Canada V3W 7X4 Phone: (604) 594-4444 Fax: (604) 591-7332 Email: sales@pullmaster.com Website: http://www.pullmaster.com

* Refer to Factory prior to using these wire rope sizes.

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PERFORMANCE DATA FOR PULLMASTER PLANETARY WINCHES H SERIES - RAPID REVERSE

II OLIVILO	- KAFID	REVE	RSE																												
			Drum Size						v	Vire Rone St	orage Capaci	ty (Theoretic	al)						Hydraulic Red	quirement						PERFORM/	ANCE (Based on	** wire size)			
Model Number	Reduction		Flange							me nope on	nuge oupuer	iy (meoreae	ui)							· .	Drum Torque	Drum		Bare Drum			Mean Drum			Full Drum	
model Number	Ratio	Drum Dia.	Dia.	Length											* R.T.F.	-			Oil Sup	ply	Julii Torque	RPM	Line Pull	Line S	ipeed	Line Pull	Line S		Line Pull	Line S	
			0.01		1/8"	3/16*	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"	1-1/8*	1-1/4"	Volume	Pressure			Entorion	Forward	Reverse	Enter di	Forward	Reverse	cine r di	Forward	Reverse
H8-3-30-1	33.8:1	7.00"	11.50*	8.00"	2115 ft	959 ft	532 ft	359 ft	227 ft	166 ft	152 ft	108 ft	101 ft							2,000 psi	31,875 lb.in	59	8,500 lb	116 fpm	502 fpm	7,148 lb	143 fpm	619 fpm	5,795 lb	170 fpm	736 fpm
100000	001011	178 mm	292 mm	203 mm	645 m	292 m	162 m	109 m	69 m	51 m	46 m	33 m	31 m						140 l/min	138 bar	3,601 Nm		37.8 kN	35 m/min	153 m/min	31.8 kN	44 m/min	189 m/min	25.8 kN	52 m/min	224 m/min
H8-3-30-2	33.8:1	7.00"	13.50*	8.00"	3538 ft	1651 ft	812 ft	535 ft	375 ft	297 ft	231 ft	178 ft	133 ft						37 gpm 3	2,000 psi	31,875 lb.in	59	8,500 lb	116 fpm	502 fpm	6,702 lb	158 fpm	686 fpm	4,904 lb	201 fpm	870 fpm
110-3-30-2	33.0.1	178 mm	343 mm	203 mm	1078 m	503 m	247 m	163 m	114 m	90 m	71 m	54 m	40 m						140 l/min	138 bar	3,601 Nm		37.8 kN	35 m/min	153 m/min	29.8 kN	48 m/min	209 m/min	21.8 kN	61 m/min	265 m/min
H8-3-30-4	33.8:1	7.00"	13.50*	12.00"	5307 ft	2477 ft	1218 ft	802 ft	562 ft	445 ft	347 ft	267 ft	199 ft						37 gpm 3	2,000 psi	31,875 lb.in	59	8,500 lb	116 fpm	502 fpm	6,702 lb	158 fpm	686 fpm	4,904 lb	201 fpm	870 fpm
110-0-00-4	33.0.1	178 mm	343 mm	305 mm	1618 m	755 m	371 m	244 m	171 m	136 m	106 m	81 m	61 m						140 l/min	138 bar	3,601 Nm		37.8 kN	35 m/min	153 m/min	29.8 kN	48 m/min	209 m/min	21.8 kN	61 m/min	265 m/min
H8A-3-30-1	28.9:1	7.00"	11.50*	8.00"	2115 ft	959 ft	532 ft	359 ft	227 ft	166 ft	152 ft	108 ft	101 ft						37 gpm 3	2,000 psi	26,250 lb.in	69	7,000 lb	135 fpm	587 fpm	5,886 lb	167 fpm	724 fpm	4,773 lb	199 fpm	861 fpm
H0A-3-30-1	20.9.1	178 mm	292 mm	203 mm	645 m	292 m	162 m	109 m	69 m	51 m	46 m	33 m	31 m						140 l/min	138 bar	2.966 Nm	69	31.1 kN	41 m/min	179 m/min	26.2 kN	51 m/min	221 m/min	21.2 kN	61 m/min	262 m/min
	00.04	7.00"	13.50"	8.00"	3538 ft	1651 ft	812 ft	535 ft	375 ft	297 ft	231 ft	178 ft	133 ft							2,000 psi	26,250 lb.in		7,000 lb	135 fpm	587 fpm	5,519 lb	185 fpm	802 fpm	4,038 lb	235 fpm	1,018 fpm
H8A-3-30-2	28.9:1	178 mm	343 mm	203 mm	1078 m	503 m	247 m	163 m	114 m	90 m	71 m	54 m	40 m							138 bar	2,966 Nm	69	31.1 kN	41 m/min	179 m/min	24.6 kN	56 m/min	245 m/min	18.0 kN	72 m/min	310 m/min
		7.00"	13.50*	12.00"	5307 ft	2477 ft	1218 ft	802 ft	562 ft	445 ft	347 ft	267 ft	199 ft							2,000 psi	26,250 lb.in		7.000 lb	135 fpm	587 fpm	5.519 lb	185 fpm	802 fpm	4.038 lb	235 fpm	1,018 fpm
H8A-3-30-4	33.8:1	178 mm	343 mm	305 mm	1618 m	755 m	371 m	244 m	171 m	136 m	106 m	81 m	61 m							138 bar	2,966 Nm	69	31.1 kN	41 m/min	179 m/min	24.6 kN	56 m/min	245 m/min	18.0 kN	72 m/min	310 m/min
		7.00"	11.50"	8.00"	2115 ft	959 ft	532 ft	359 ft	227 ft	166 ft	152 ft	108 ft	101 #							2,000 psi	14 212 lb in		3,790 lb	249 fpm	1080 fpm	3.187 lb	308 fpm	1333 fpm	2,584 lb	366 fpm	1,585 fpm
H8B-3-30-1	15.7:1	178 mm	292 mm	203 mm	645 m	292 m	162 m	109 m	69 m	51 m	46 m	33 m	31 m							138 bar	1.606 Nm	127	16.9 kN	76 m/min	329 m/min	14.2 kN	94 m/min	406 m/min	11.5 kN	111 m/min	483 m/min
		7.00"	13.50"	8.00"	3538 ft	1651 ft	812 ft	535 ft	375 ft	297 ft	231 ft	178 ft	133 ft							2,000 psi	14,212 lb.in		3,790 lb	249 fpm	1,080 fpm	2,988 lb	341 fpm	1,477 fpm	2,186 lb	432 fpm	1,873 fpm
H8B-3-30-2	15.7:1	178 mm	343 mm	203 mm	1078 m	503 m	247 m	163 m	114 m	90 m	71 m	54 m	40 m							138 bar	1,606 Nm	127	16.9 kN	76 m/min	329 m/min	13.3 kN	104 m/min	450 m/min	9.7 kN	132 m/min	571 m/min
		7.00"	13.50"	12.00"	5307 ft	2477 ft	1218 ft	802 ft	562 ft	445 ft	347 ft	267 ft	199 ft		-					2,000 psi	14,212 lb.in		3,790 lb	249 fpm	1,080 fpm	2,988 lb	341 fpm	1,477 fpm	2,186 lb	432 fpm	1,873 fpm
H8B-3-30-4	15.7:1	178 mm	343 mm	305 mm	1618 m	755 m	371 m	244 m	171 m	136 m	106 m	207 m	61 m							138 bar	1,606 Nm	127	16.9 kN	76 m/min	329 m/min	13.3 kN	104 m/min	450 m/min	9.7 kN	432 ipin 132 m/min	571 m/min
	+	7.63"	14.63"	10.00"	5103 ft	2333 ft	1280 ft	244 m 793 ft	569 ft	458 ft	307 ft	287 ft	222 ft							2,200 psi	50,000 lb.in		12.121 lb	104 fpm	329 mmin 449 fpm	9,632 lb	140 fpm	450 mmm 606 fpm	9.7 KN 7,143 lb	176 fpm	762 fpm
H12-3-97-1	41.2:1	194 mm	371 mm	254 mm	1555 m	711 m	390 m	242 m	173 m	140 m	94 m	207 m 87 m	68 m							152 bar	5,649 Nm	48	53.9 kN	32 m/min	137 m/min	42.8 kN	43 m/min	185 m/min	31.8 kN	54 m/min	232 m/min
	+	9.63"	3/1 mm 14.63"	254 mm 10.00"	4014 ft	/11 m 1826 ft	390 m 957 ft	242 m 663 ft	439 ft	140 m 332 ft	94 m 245 ft	87 m 226 ft	68 m 162 ft							2,200 psi	50,000 lb.in		9,756 lb	32 m/min 129 fpm	137 m/min 558 fpm	42.8 KN 8,449 lb	43 m/min 152 fpm	185 m/min 660 fpm	31.8 KN 7,143 lb	54 m/min 176 fpm	232 m/min 762 fpm
H12-3-97-2	41.2:1																					48									
	+	244 mm 9.63"	371 mm 16.63"	254 mm 13.00"	1223 m 7828 ft	557 m 3581 ft	292 m 1963 ft	202 m 1220 ft	134 m 875 ft	101 m 703 ft	75 m 474 ft	69 m 440 ft	49 m 341 ft							152 bar	5,649 Nm 50,000 lb.in		43.4 kN 9,756 lb	39 m/min	170 m/min	37.6 kN	46 m/min	201 m/min	31.8 kN	54 m/min	232 m/min
H12-3-97-3	41.2:1	9.63 244 mm	422 mm	330 mm	2386 m	3081 π 1091 m	1963 ft 598 m	372 m	8/5 π 267 m	214 m	4/4 π 144 m	440 π 134 m	341 π 104 m							2,200 psi 152 bar	5.649 Nm	48	9,756 ID 43.4 kN	129 fpm	558 fpm	8,003 lb	165 fpm	715 fpm	6,250 lb	201 fpm	871 fpm
																							1011101	39 m/min	170 m/min	35.6 kN	50 m/min	218 m/min	27.8 kN	61 m/min	266 m/min
H12-3-97-5	41.2:1	7.63"	16.63*	10.00"	7104 ft	3258 ft	1721 ft	1159 ft	803 ft	596 ft	489 ft	399 ft	323 ft							2,200 psi	50,000 lb.in	48	12,121 lb	104 fpm	449 fpm	9,186 lb	152 fpm	660 fpm	6,250 lb	201 fpm	871 fpm
		194 mm	422 mm	254 mm	2165 m	993 m	525 m	353 m	245 m	182 m	149 m	122 m	98 m							152 bar	5,649 Nm		53.9 kN	32 m/min	137 m/min	40.9 kN	46 m/min	201 m/min	27.8 kN	61 m/min	266 m/min
H12-3-97-6	41.2:1	9.63"	16.63*	10.00"	6022 ft	2754 ft	1510 ft	939 ft	673 ft	540 ft	365 ft	339 ft	262 ft							2,200 psi	50,000 lb.in	48	9,756 lb	129 fpm	558 fpm	8,003 lb	165 fpm	715 fpm	6,250 lb	201 fpm	871 fpm
		244 mm	422 mm	254 mm	1835 m	840 m	460 m	286 m	205 m	165 m	111 m	103 m	80 m							152 bar	5,649 Nm		43.4 kN	39 m/min	170 m/min	35.6 kN	50 m/min	218 m/min	27.8 kN	61 m/min	266 m/min
H12-3-97-7	41.2:1	7.63"	16.63*	13.00"	9235 ft	4235 ft	2237 ft	1507 ft	1044 ft	775 ft	636 ft	519 ft	419 ft							2,200 psi	50,000 lb.in	48	12,121 lb	104 fpm	449 fpm	9,186 lb	152 fpm	660 fpm	6,250 lb	201 fpm	871 fpm
		194 mm	422 mm	330 mm	2815 m	1291 m	682 m	459 m	318 m	236 m	194 m	158 m	128 m							152 bar	5,649 Nm		53.9 kN	32 m/min	137 m/min	40.9 kN	46 m/min	201 m/min	27.8 kN	61 m/min	266 m/min
H12-3-97-11	41.2:1	7.63"	25.00*	12.50"	23339 ft	10768 ft	5834 ft	3925 ft	2704 ft	2000 ft	1527 ft	1237 ft	985 ft							2,200 psi	50,000 lb.in	48	12,121 lb	104 fpm	449 fpm	8,112 lb	205 fpm	888 fpm	4,103 lb	306 fpm	1,327 fpm
		194 mm	635 mm	318 mm	7114 m		1778 m	1196 m	824 m	610 m	465 m	377 m	300 m							152 bar	5,649 Nm		53.9 kN	32 m/min	137 m/min	36.1 kN	62 m/min	271 m/min	18.2 kN	93 m/min	405 m/min
H12B-3-97-1	20.7:1	7.63"	14.63"	10.00"	5103 ft	2333 ft	1280 ft	793 ft	569 ft	458 ft	307 ft	287 ft	222 ft							2,200 psi	25,244 lb.in	95	6,120 lb	205 fpm	889 fpm	4,863 lb	277 fpm	1,199 fpm	3,606 lb	348 fpm	1,509 fpm
		194 mm	371 mm	254 mm	1555 m	711 m	390 m	242 m	173 m	140 m	94 m	87 m	68 m							152 bar	2,852 Nm		27.2 kN	63 m/min	271 m/min	21.6 kN	84 m/min	365 m/min	16.0 kN	106 m/min	460 m/min
H12B-3-97-2	20.7:1	9.63"	14.63"	10.00"	4014 ft	1826 ft	957 ft	663 ft	439 ft	332 ft	245 ft	226 ft	162 ft							2,200 psi	25,244 lb.in	95	4,926 lb	255 fpm	1,105 fpm	4,266 lb	302 fpm	1,307 fpm	3,606 lb	348 fpm	1,509 fpm
		244 mm	371 mm	254 mm	1223 m	557 m	292 m	202 m	134 m	101 m	75 m	69 m	49 m							152 bar	2,852 Nm		21.9 kN	78 m/min	337 m/min	19.0 kN	92 m/min	398 m/min	16.0 kN	106 m/min	460 m/min
H12B-3-97-3	20.7:1	9.63"	16.63*	13.00"	7828 ft	3581 ft	1963 ft	1220 ft	875 ft	703 ft	474 ft	440 ft	341 ft							2,200 psi	25,244 lb.in	95	4,926 lb	255 fpm	1,105 fpm	4,041 lb	326 fpm	1,414 fpm	3,156 lb	398 fpm	1,724 fpm
		244 mm	422 mm	330 mm	2386 m	1091 m	598 m	372 m	267 m	214 m	144 m	134 m	104 m							152 bar	2,852 Nm		21.9 kN	78 m/min	337 m/min	18.0 kN	99 m/min	431 m/min	14.0 kN	121 m/min	526 m/min
H12B-3-97-5	20.7:1	7.63"	16.63*	10.00"	7104 ft	3258 ft	1721 ft	1159 ft	803 ft	596 ft	489 ft	399 ft	323 ft							2,200 psi	25,244 lb.in	95	6,120 lb	205 fpm	889 fpm	4,638 lb	302 fpm	1,307 fpm	3,156 lb	398 fpm	1,724 fpm
		194 mm	422 mm	254 mm	2165 m	993 m	525 m	353 m	245 m	182 m	149 m	122 m	98 m							152 bar	2,852 Nm		27.2 kN	63 m/min	271 m/min	20.6 kN	92 m/min	398 m/min	14.0 kN	121 m/min	526 m/min
H12B-3-97-6	20.7:1	9.63"	16.63"	10.00"	6022 ft	2754 ft	1510 ft	939 ft	673 ft	540 ft	365 ft	339 ft	262 ft							2,200 psi	25,244 lb.in	95	4,926 lb	255 fpm	1,105 fpm	4,041 lb	326 fpm	1,414 fpm	3,156 lb	398 fpm	1,724 fpm
		244 mm	422 mm	254 mm	1835 m	840 m	460 m	286 m	205 m	165 m	111 m	103 m	80 m							152 bar	2,852 Nm		21.9 kN	78 m/min	337 m/min	18.0 kN	99 m/min	431 m/min	14.0 kN	121 m/min	526 m/min
H12B-3-97-7	20.7:1	7.63"	16.63*	13.00"	9235 ft	4235 ft	2237 ft	1507 ft	1044 ft	775 ft	636 ft	519 ft	419 ft							2,200 psi	25,244 lb.in	95	6,120 lb	205 fpm	889 fpm	4,638 lb	302 fpm	1,307 fpm	3,156 lb	398 fpm	1,724 fpm
		194 mm	422 mm	330 mm	2815 m	1291 m	682 m	459 m	318 m	236 m	194 m	158 m	128 m						189 l/min	152 bar	2,852 Nm		27.2 kN	63 m/min	271 m/min	20.6 kN	92 m/min	398 m/min	14.0 kN	121 m/min	526 m/min
H12B-3-97-11	20.7:1	7.63"	25.00*	12.50"	23339 ft	10768 ft	5834 ft	3925 ft	2704 ft	2000 ft	1527 ft	1237 ft	985 ft						50 gpm 3	2,200 psi	25,244 lb.in	95	6,120 lb	205 fpm	889 fpm	4,096 lb	406 fpm	1,758 fpm	2,071 lb	606 fpm	2,627 fpm
		194 mm	635 mm	318 mm	7114 m	3282 m	1778 m	1196 m	824 m	610 m	465 m	377 m	300 m							152 bar	2,852 Nm		27.2 kN	63 m/min	271 m/min	18.2 kN	124 m/min	536 m/min	9.2 kN	185 m/min	801 m/min
H18-3-101-1	39.6:1	8.50"	15.50*	10.00"					615 ft	494 ft	332 ft	310 ft	239 ft	170 ft	113 ft					2,300 psi	83,250 lb.in	50.5	18,000 lb	122 fpm	563 fpm	14,644 lb	159 fpm	730 fpm	11,288 lb	195 fpm	897 fpm
		216 mm	394 mm	254 mm					187 m	151 m	101 m	94 m	73 m	52 m	34 m					159 bar	9,406 Nm	- 210	80.1 kN	37 m/min	171 m/min	65.1 kN	48 m/min	222 m/min	50.2 kN	59 m/min	273 m/min
H18-3-101-2	39.6:1	13.00"	20.00*	16.00"					1359 ft	1088 ft	738 ft	681 ft	528 ft	375 ft	251 ft					2,300 psi	83,250 lb.in	50.5	12,109 lb	182 fpm	836 fpm	10,379 lb	218 fpm	1,003 fpm	8,649 lb	255 fpm	1,171 fpm
		330 mm	508 mm	406 mm					414 m	331 m	225 m	208 m	161 m	114 m	76 m				288 l/min	159 bar	9,406 Nm	0010	53.9 kN	55 m/min	255 m/min	46.2 kN	66 m/min	306 m/min	38.5 kN	78 m/min	357 m/min
H18-3-101-3	39.6:1	8.50"	20.00*	16.00"					1982 ft	1557 ft	1197 ft	898 ft	747 ft	500 ft	372 ft					2,300 psi	83,250 lb.in	50.5	18,000 lb	122 fpm	563 fpm	13,325 lb	188 fpm	867 fpm	8,649 lb	255 fpm	1,171 fpm
11001010	00.0.1	216 mm	508 mm	406 mm					604 m	475 m	365 m	274 m	228 m	153 m	113 m				288 I/min	159 bar	9,406 Nm	00.0	80.1 kN	37 m/min	171 m/min	59.3 kN	57 m/min	264 m/min	38.5 kN	78 m/min	357 m/min
H18-3-101-4	39.6:1	8.50"	28.00*	21.25"					5712 ft	4345 ft	3412 ft	2620 ft	2130 ft	1479 ft	1068 ft				76 gpm 3	2,300 psi	83,250 lb.in	50.5	18,000 lb	122 fpm	563 fpm	12,055 lb	241 fpm	1,110 fpm	6,110 lb	360 fpm	1,657 fpm
1110-0-101-4	38.0.1	216 mm	711 mm	540 mm					1741 m	1324 m	1040 m	799 m	649 m	451 m	325 m				288 I/min	159 bar	9,406 Nm	50.5	80.1 kN	37 m/min	171 m/min	53.6 kN	74 m/min	338 m/min	27.2 kN	110 m/min	505 m/min
H25-7-86-1	40.8:1	10.00"	17.00"	11.00"						612 ft	413 ft	383 ft	297 ft	210 ft	140 ft	91 ft	84 ft	77 ft		2,500 psi	135,937 lb.in	49	25,000 lb	140 fpm	651 fpm	20,930 lb	173 fpm	808 fpm	16,860 lb	207 fpm	965 fpm
112017-0011	40.0.1	254 mm	432 mm	279 mm						186 m	126 m	117 m	90 m	64 m	43 m	28 m	26 m	23 m		172 bar	15,359 Nm	40	111.2 kN	43 m/min	198 m/min	93.1 kN	53 m/min	246 m/min	75.0 kN	63 m/min	294 m/min
H25-7-86-2	40.8:1	10.00"	24.00*	11.00"						1520 ft	1210 ft	950 ft	728 ft	515 ft	398 ft	264 ft	249 ft	186 ft	115 gpm 3	2,500 psi	135,937 lb.in	49	25,000 lb	140 fpm	651 fpm	18,378 lb	218 fpm	1,018 fpm	11,757 lb	297 fpm	1,384 fpm
1123-7-00-2	40.0.1	254 mm	610 mm	279 mm						463 m	369 m	289 m	222 m	157 m	121 m	80 m	76 m	57 m		172 bar	15,359 Nm	49	111.2 kN	43 m/min	198 m/min	81.8 kN	66 m/min	310 m/min	52.3 kN	90 m/min	422 m/min
H25-7-86-3	40.8.1	10.00"	24.00*	17.00"						2349 ft	1869 ft	1467 ft	1125 ft	796 ft	615 ft	408 ft	384 ft	287 ft		2,500 psi	135,937 lb.in	49	25,000 lb	140 fpm	651 fpm	18,378 lb	218 fpm	1,018 fpm	11,757 lb	297 fpm	1,384 fpm
nzu-/-80-3	40.8:1	254 mm	610 mm	432 mm						716 m	570 m	447 m	343 m	243 m	188 m	124 m	117 m	87 m		172 bar	15,359 Nm	49	111.2 kN	43 m/min	198 m/min	81.8 kN	66 m/min	310 m/min	52.3 kN	90 m/min	422 m/min
105 7 00 -	10.0.1	10.00"	24.00"	22.00"						3039 ft	2419 ft	1899 ft	1456 ft	1031 ft	796 ft	528 ft	497 ft	371 ft		2,500 psi	135,937 lb.in	17	25,000 lb	140 fpm	651 fpm	18,378 lb	218 fpm	1,018 fpm	11,757 lb	297 fpm	1,384 fpm
H25-7-86-4	40.8:1	254 mm	610 mm	559 mm						926 m	737 m	579 m	444 m	314 m		161 m	152 m	113 m		172 bar	15.359 Nm	49	111.2 kN	43 m/min	198 m/min	81.8 kN	66 m/min	310 m/min	52.3 kN	90 m/min	422 m/min
		10.00"	34.00"	29.00"						8882 ft	6863 ft	5504 ft	4642 ft	3189 ft	2204 ft	1689 ft	1433 ft	1017 ft		2,500 psi	135.937 lb.in		25,000 lb	140 fpm	651 fpm	16,604 lb	282 fpm	1.317 fpm	8.208 lb	425 fpm	1,983 fpm
H25-7-86-5	40.8:1	254 mm	864 mm	737 mm						2707 m	2092 m	1677 m	1415 m	972 m		515 m	437 m	310 m		172 bar	15,359 Nm	49	111.2 kN	43 m/min	198 m/min	73.9 kN	86 m/min	401 m/min	36.5 kN	130 m/min	604 m/min
	1	14.50"	24.00*	17.00"						1780 ft	1307 ft	1065 ft	861 ft	647 ft	468 ft	344 ft	244 ft	221 ft		2,500 psi	135,937 lb.in		17.683 lb	43 fbm	920 fpm	14,720 lb	247 fpm	1,152 fpm	11.757 lb	297 fpm	1,384 fpm
H25-7-86-14	40.8:1	368 mm	610 mm	432 mm						543 m	398 m	325 m	263 m	197 m	143 m	105 m	244 ft 74 m	67 m		172 bar	15,359 Nm	49	78.7 kN	60 m/min	281 m/min	65.5 kN	75 m/min	351 m/min	52.3 kN	297 Ipili 90 m/min	422 m/min
	1	13.00"	24.00"	432 1111						1992 ft	1511 ft	325 m 1262 ft	1049 ft	705 ft	523 ft	397 ft	294 ft	203 ft		2,500 psi	135,937 lb.in		19.595 lb		831 fpm	15.676 lb		1.108 fpm	11.757 lb	297 fpm	1,384 fpm
H25-7-86-31	40.8:1	330 mm	24.00 610 mm								461 m	1262 π 385 m	320 m		159 m		20 ⁴⁴ IL	203 ft		2,500 psi 172 bar		49		178 fpm			237 fpm				
	1	330 mm	610 mm	432 mm						607 m	461 m	385 m	320 m	215 m	159 m	121 m	90 m	62 m	435 l/min	1/2 bar	15,359 Nm	[87.2 kN	54 m/min	253 m/min	69.7 kN	72 m/min	338 m/min	52.3 kN	90 m/min	422 m/min

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* Refer to Factory prior to using these wire rope sizes.

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			Drum Size							Une Dana Ci	orage Capac	it. (The seat	- all							Requirement						PERFORM	ANCE (Based on	** wire size)			
Model Number	Reduction								'	The Rope Si	orage capac	aty (Theoreti	sar)						Hydraulic	Requirement		Drum		Bare Drum			Mean Drum			Full Drum	
Noder Number	Ratio	Drum Dia.	Flange Dia.	Length													* B	.T.F.	Oil	Supply	Drum Torque	RPM	Line Pull	Line	Speed	Line Pull	Line	Speed	Line Pull	Line	Speed
			Dia.		1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"	1-1/8"	1-1/4"	Volume	Pressure			Line Fail	Forward	Reverse	Linerdi	Forward	Reverse	Line Full	Forward	Reverse
B-7-86-1	20.7:1	10.00"	17.00"	11.00"						612 ft	413 ft	383 ft	297 ft	210 ft	140 ft	91 ft	84 ft	77 ft	115 gpm	2,500 psi	69,047 lb.in	96	12,698 lb	273 fpm	1,275 fpm	10,631 lb	339 fpm	1,583 fpm	8,564 lb	405 fpm	1,891 fpm
0-7-00-1	20.1.1	254 mm	432 mm	279 mm						186 m	126 m	117 m	90 m	64 m	43 m	28 m	26 m	23 m	435 l/min	172 bar	7,801 Nm	50	56.5 kN	83 m/min	389 m/min	47.3 kN	103 m/min	483 m/min	38.1 kN	124 m/min	576 m/min
B-7-86-2	20.7:1	10.00"	24.00"	11.00"						1520 ft	1210 ft	950 ft	728 ft	515 ft	398 ft	264 ft	249 ft	186 ft	115 gpm	2,500 psi	69,047 lb.in	96	12,698 lb	273 fpm	1,275 fpm	9,335 lb	427 fpm	1,994 fpm	5,972 lb	581 fpm	2,712 fpm
.5 7 00 2	20.7.1	254 mm	610 mm	279 mm						463 m	369 m	289 m	222 m	157 m	121 m	80 m	76 m	57 m	435 l/min	172 bar	7,801 Nm		56.5 kN	83 m/min	389 m/min	41.5 kN	130 m/min	608 m/min	26.6 kN	177 m/min	827 m/min
5B-7-86-3	20.7:1	10.00"	24.00"	17.00"						2349 ft	1869 ft	1467 ft	1125 ft	796 ft	615 ft	408 ft	384 ft	287 ft	115 gpm	2,500 psi	69,047 lb.in	96	12,698 lb	273 fpm	1,275 fpm	9,335 lb	427 fpm	1,994 fpm	5,972 lb	581 fpm	2,712 fpm
	20.7.1	254 mm	610 mm	432 mm						716 m	570 m	447 m	343 m	243 m	188 m	124 m	117 m	87 m	435 l/min	172 bar	7,801 Nm		56.5 kN	83 m/min	389 m/min	41.5 kN	130 m/min	608 m/min	26.6 kN	177 m/min	827 m/min
5B-7-86-4	20.7:1	10.00"	24.00"	22.00*						3039 ft	2419 ft	1899 ft	1456 ft	1031 ft	796 ft	528 ft	497 ft	371 ft	115 gpm	2,500 psi	69,047 lb.in	96	12,698 lb	273 fpm	1,275 fpm	9,335 lb	427 fpm	1,994 fpm	5,972 lb	581 fpm	2,712 fpm
001001	20.7.1	254 mm	610 mm	559 mm						926 m	737 m	579 m	444 m	314 m	243 m	161 m	152 m	113 m	435 l/min	172 bar	7,801 Nm		56.5 kN	83 m/min	389 m/min	41.5 kN	130 m/min	608 m/min	26.6 kN	177 m/min	827 m/min
25B-7-86-5	20.7:1	10.00"	34.00"	29.00*						8882 ft	6863 ft	5504 ft	4642 ft	3189 ft	2204 f	1689 ft	1433 ft	1017 ft	115 gpm	2,500 psi	69,047 lb.in	96	12,698 lb	273 fpm	1,275 fpm	8,434 lb	553 fpm	2,580 fpm	4,169 lb	833 fpm	3,885 fpm
	20.7.1	254 mm	864 mm	737 mm						2707 m	2092 m	1677 m	1415 m	972 m	672 m	515 m	437 m	310 m	435 l/min	172 bar	7,801 Nm		56.5 kN	83 m/min	389 m/min	37.5 kN	169 m/min	786 m/min	18.5 kN	254 m/min	1184 m/min
25B-7-86-14	20.7:1	14.50"	24.00"	17.00*						1780 ft	1307 ft	1065 ft	861 ft	647 ft	468 ft	344 ft	244 ft	221 ft	115 gpm	2,500 psi	69,047 lb.in	96	8,982 lb	386 fpm	1,803 fpm	7,477 lb	484 fpm	2,258 fpm	5,972 lb	581 fpm	2,712 fpm
0010011	20.1.1	368 mm	610 mm	432 mm						543 m	398 m	325 m	263 m	197 m	143 m	105 m	74 m	67 m	435 l/min	172 bar	7,801 Nm		40.0 kN	118 m/min	550 m/min	33.3 kN	147 m/min	688 m/min	26.6 kN	177 m/min	827 m/min
5B-7-86-31	20.7:1	13.00"	24.00"	17.00*						1992 ft	1511 ft	1262 ft	1049 ft	705 ft	523 ft	397 ft	294 ft	203 ft	115 gpm	2,500 psi	69,047 lb.in	96	9,953 lb	349 fpm	1,627 fpm	7,962 lb	465 fpm	2,170 fpm	5,972 lb	581 fpm	2,712 fpm
	20.111	330 mm	610 mm	432 mm						607 m	461 m	385 m	320 m	215 m	159 m	121 m	90 m	62 m	435 l/min	172 bar	7,801 Nm		44.3 kN	106 m/min	496 m/min	35.4 kN	142 m/min	661 m/min	26.6 kN	177 m/min	827 m/min
50-7-86-1	115.9:1	14.00"	23.75"	14.00"								854 ft	691 ft	519 ft	375 ft	276 ft	195 ft	177 ft	115 gpm	2,500 psi	381,250 lb.in	17.4	50,000 lb	69 fpm	324 fpm	41,944 lb	86 fpm	401 fpm	33,889 lb	102 fpm	478 fpm
		356 mm	603 mm	356 mm								260 m	211 m	158 m			60 m	54 m	435 l/min	172 bar	43,075 Nm		222.4 kN	21 m/min	99 m/min	186.6 kN	26 m/min	122 m/min	150.7 kN	31 m/min	146 m/min
0-7-86-2	115.9:1	18.00"	30.00"	22.00*								2309 ft	1725 ft	1341 ft	860 ft	654 ft	605 ft	440 ft	115 gpm	2,500 psi	381,250 lb.in	17.4	39,610 lb	88 fpm	409 fpm	33,066 lb	109 fpm	510 fpm	26,522 lb	131 fpm	611 fpm
		457 mm	762 mm	559 mm								704 m	526 m	409 m	262 m	199 m	184 m	134 m	435 l/min	172 bar	43,075 Nm		176.2 kN	27 m/min	125 m/min	147.1 kN	33 m/min	156 m/min	118.0 kN	40 m/min	186 m/min
50-7-86-13	115.9:1	14.00"	36.00"	36.00*								7137 ft	5938 ft	3960 ft	2941 f	2221 ft	1858 ft	1503 ft	115 gpm	2,500 psi	381,250 lb.in	17.4	50,000 lb	69 fpm	324 fpm	35,971 lb	114 fpm	531 fpm	21,942 lb	158 fpm	739 fpm
		356 mm	914 mm	914 mm								2175 m	1810 m	1207 m		677 m	566 m	458 m	435 l/min	172 bar	43,075 Nm		222.4 kN	21 m/min	99 m/min	160.0 kN	35 m/min	162 m/min	97.6 kN	48 m/min	225 m/min
50C-7-86-1	84.1:1	14.00"	23.75"	14.00"								854 ft	691 ft	519 ft	375 ft	276 ft	195 ft	177 ft	115 gpm	2,500 psi	276,669 lb.in	24	36,284 lb	96 fpm	447 fpm	30,439 lb	119 fpm	553 fpm	24,593 lb	141 fpm	660 fpm
		356 mm	603 mm	356 mm								260 m	211 m	158 m	114 m	84 m	60 m	54 m	435 l/min	172 bar	31,259 Nm		161.4 kN	29 m/min	136 m/min	135.4 kN	36 m/min	169 m/min	109.4 kN	43 m/min	201 m/min
50C-7-86-2	84.1:1	18.00"	30.00"	22.00"								2309 ft	1725 ft	1341 ft	860 ft	654 ft	605 ft	440 ft	115 gpm	2,500 psi	276,669 lb.in	24	28,745 lb	121 fpm	564 fpm	23,996 lb	151 fpm	704 fpm	19,247 lb	181 fpm	843 fpm
		457 mm	762 mm	559 mm								704 m	526 m	409 m	262 m	199 m	184 m	134 m	435 l/min	172 bar	31,259 Nm		127.9 kN	37 m/min	172 m/min	106.7 kN	46 m/min	214 m/min	85.6 kN	55 m/min	257 m/min
50C-7-86-13	84.1:1	14.00"	36.00"	36.00"								7137 ft	5938 ft	3960 ft	2941 f	2221 ft	1858 ft	1503 ft	115 gpm	2,500 psi	276,669 lb.in	24	36,284 lb	96 fpm	447 fpm	26,104 lb	157 fpm	733 fpm	15,923 lb	218 fpm	1,019 fpm
		356 mm	914 mm	914 mm								2175 m	1810 m	1207 m	896 m	677 m	566 m	458 m	435 l/min	172 bar	31,259 Nm		161.4 kN	29 m/min	136 m/min	116.1 kN	48 m/min	223 m/min	70.8 kN	67 m/min	311 m/min
75-7-191-1	157:1	16.00"	32.00"	20.00"												907 ft	727 ft	559 ft	142 gpm		642,183 lb.in	16	75,000 lb	72 fpm	304 fpm	58,374 lb	101 fpm	469 fpm	41,748 lb	129 fpm	536 fpm
		406 mm	813 mm	508 mm												276 m	221 m	170 m	538 l/min	207 bar	72,556 Nm		330 kN	22 m/min	93 m/min	259.7 kN	31 m/min	143 m/min	185.8 kN	39 m/min	164 m/min
5-7-191-4	157:1	14.00"	38.00"	36.00"												2489 ft	2104 ft	1503 ft	142 gpm	3,000 psi	642,183 lb.in	16	85,000 lb	64 fpm	266 fpm	60,083 lb	109 fpm	508 fpm	35,166 lb	154 fpm	637 fpm
		356 mm	965 mm	914 mm												759 m	641 m	458 m	538 l/min	207 bar	72,556 Nm		374 kN	20 m/min	81 m/min	267.3 kN	33 m/min	155 m/min	154.7 kN	47 m/min	194 m/min
L SERIES	- RAPI	D REV	ERSE 8	2-SPE	ED FO	RWARI	D																								

Reduction Role Particip																																				
Noise Length Length </td <td>Market Market</td> <td>Reduction</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>mile Nope 5</td> <td>iorage Gapac</td> <td>aty (Theorem</td> <td>uai)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Hydraulic</td> <td>rkequirement</td> <td>D</td> <td>Drum</td> <td></td> <td></td> <td>Low Spee</td> <td>ed Hoisting</td> <td></td> <td></td> <td></td> <td>Hiç</td> <td>h Speed Hoir</td> <td>sting & Lower</td> <td>ing</td> <td></td> <td></td>	Market Market	Reduction									mile Nope 5	iorage Gapac	aty (Theorem	uai)						Hydraulic	rkequirement	D	Drum			Low Spee	ed Hoisting				Hiç	h Speed Hoir	sting & Lower	ing		
H257-86-1 00.00* 17.00* 11.00* 200 m 612 ft 413 ft 383 ft 297 ft 410 ft 91 ft 84 ft 77 ft 115 gan 2500 pi 1035 pi light 91 ft 100 m 110 m 91 ft 84 ft 77 ft 115 gan 2500 pi 1035 pi light 91 ft 84 ft 77 ft 115 gan 2500 pi 1035 pi light 100 m 537 ft <	Model Number	Ratio	Drum Dia.	Flange	Length													* R	ξ.Τ.F.	Oil S	Supply	Drum Torque	RPM	Line Pul	l at Maximum	Pressure	Line Spe	ed at Maximur	n Volume	Maximu	um Allowable L	ine Pull	Line Sper	ed at Maximur	n Volume	
HLCS-7-68-0 AU.0 254 mm 432 mm 279 mm 433 mm 28m mm 28m mm 23m mm 28m mm 28m mm 23m mm 28m mm 23m mm 28m				Dia.		1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4*	7/8"	1"	1-1/8"	1-1/4"	Volume	Pressure			Bare Drum	Mean Drum	Full Drum	Bare Drum	Mean Drum	Full Drum	Bare Drum	Mean Drum	Full Drum	Bare Drum	Mean Drum	Full Drum	
254 rms 452 rms 279 rms 284 rms 432 rms 284 rms 437 rms 288 rms 284 rms 437 rms 284 rms 437 rms 281 rms 177 rms 90 rms 64 rms 437 rms 284 rms 437 rms 177 rms 90 rms 64 rms 437 rms 288 rms 177 rms 177 rms 90 rms 64 rms 1350 rms 135	10.05.7.06.4	40.9-1	10.00"	17.00"	11.00"						612 ft	413 ft	383 ft	297 ft	210 ft	140 ft	91 ft	84 ft	77 ft	115 gpm	2,500 psi	135,937 lb.in	40	25,000 lb	20,930 lb	16,860 lb	140 fpm	173 fpm	207 fpm	5,357 lb						
HL25-7x8-2 40.8 254 mm 610 mm 279 mm 40.8 389 m 289 m 222 m 157 m 121 m 80 m 75 m 435 limin 172 bar 1539 limin 172 bar 1539 limin 610 mm 291 mm 300 mm/min 23.8 km 172 km 81.8 km 52.3 km 43 m/min 66 m/min 90 m/min 23.8 km 172 km 81.8 km 52.3 km 43 m/min 66 m/min 90 m/min 23.8 km 172 km 112 km 81.8 km 52.3 km 43 m/min 66 m/min 90 m/min 23.8 km 172 km 81.8 km 52.3 km 43 m/min 66 m/min 90 m/min 23.8 km 172 km 18.8 km 52.3 km 43 m/min 66 m/min 90 m/min 23.8 km 172 km 18.8 km 52.3 km 43 m/min 66 m/min 90 m/min 23.8 km 172 km 18.8 km 52.3 km 43 m/min 66 m/min 90 m/min 23.8 km 17.8 km 19.8 km 42.8 km 17.8 km 19.8 km 52.3 km 43 m/min 66 m/min 90 m/min	HL20-7-00-1	40.0.1	254 mm	432 mm	279 mm						186 m	126 m	117 m	90 m	64 m	43 m	28 m	26 m	23 m	435 l/min	172 bar	15,359 Nm	49	111.2 kN	93.1 kN	75.0 kN	43 m/min	53 m/min	63 m/min	23.8 kN	19.9 kN	16.1 kN	198 m/min	246 m/min	294 m/min	
Zz4 mm Bit Illiam Z/4 mm Z/4 mm <thz 4="" mm<="" th=""> <thz 4="" mm<="" th=""> <thz 4="" mm<="" td=""><td>UI 25 7 86 2</td><td>40 R·1</td><td>10.00"</td><td>24.00"</td><td>11.00"</td><td></td><td></td><td></td><td></td><td></td><td>1520 ft</td><td>1210 ft</td><td>950 ft</td><td>728 ft</td><td>515 ft</td><td>398 ft</td><td>264 ft</td><td>249 ft</td><td>186 ft</td><td>115 gpm</td><td>2,500 psi</td><td>135,937 lb.in</td><td>40</td><td>25,000 lb</td><td>18,378 lb</td><td>11,757 lb</td><td>140 fpm</td><td>218 fpm</td><td>297 fpm</td><td>5,357 lb</td><td></td><td></td><td></td><td></td><td></td><td></td></thz></thz></thz>	UI 25 7 86 2	40 R·1	10.00"	24.00"	11.00"						1520 ft	1210 ft	950 ft	728 ft	515 ft	398 ft	264 ft	249 ft	186 ft	115 gpm	2,500 psi	135,937 lb.in	40	25,000 lb	18,378 lb	11,757 lb	140 fpm	218 fpm	297 fpm	5,357 lb						
HLL-57-06-5 40.0 254 mm 610 mm 432 mm 610 mm <td>HL23-7-00-2</td> <td>40.0.1</td> <td>254 mm</td> <td>610 mm</td> <td>279 mm</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>463 m</td> <td>369 m</td> <td>289 m</td> <td>222 m</td> <td>157 m</td> <td>121 m</td> <td>80 m</td> <td>76 m</td> <td>57 m</td> <td>435 l/min</td> <td>172 bar</td> <td>15,359 Nm</td> <td>40</td> <td>111.2 kN</td> <td>81.8 kN</td> <td>52.3 kN</td> <td>43 m/min</td> <td>66 m/min</td> <td>90 m/min</td> <td>23.8 kN</td> <td>17.5 kN</td> <td>11.2 kN</td> <td>198 m/min</td> <td>310 m/min</td> <td>422 m/min</td> <td>7/0" 8</td>	HL23-7-00-2	40.0.1	254 mm	610 mm	279 mm						463 m	369 m	289 m	222 m	157 m	121 m	80 m	76 m	57 m	435 l/min	172 bar	15,359 Nm	40	111.2 kN	81.8 kN	52.3 kN	43 m/min	66 m/min	90 m/min	23.8 kN	17.5 kN	11.2 kN	198 m/min	310 m/min	422 m/min	7/0" 8
254 mm 610 nm 432 mm - 716 m 570 m 447 333 m 243 m 188 m 124 m 117 m 87 m 435 link 172 tar 15,559 km 112 tar 15,559 km 112 tar 15,559 km 113 km 124 m 13,537 link 17,5 km 15 km 15,53 km 15,51 k	LI 25 7 96 2	40.8.1	10.00"	24.00"	17.00"						2349 ft	1869 ft	1467 ft	1125 ft	796 ft	615 ft	408 ft	384 ft	287 ft	115 gpm	2,500 psi	135,937 lb.in	49	25,000 lb	18,378 lb	11,757 lb	140 fpm	218 fpm	297 fpm	5,357 lb				1,018 fpm		ino Leo
	11223-7-00-3	40.0.1	254 mm	610 mm	432 mm						716 m	570 m	447 m	343 m	243 m	188 m	124 m	117 m	87 m	435 l/min	172 bar	15,359 Nm	40	111.2 kN	81.8 kN	52.3 kN	43 m/min	66 m/min	90 m/min	23.8 kN	17.5 kN	11.2 kN	198 m/min	310 m/min	422 m/min	. <u>.</u>
Inclusion Year	ULDE 7 06 4	40.8-1	10.00"	24.00"	22.00"						3039 ft	2419 ft	1899 ft	1456 ft	1031 ft	796 ft	528 ft	497 ft	371 ft	115 gpm	2,500 psi	135,937 lb.in	40	25,000 lb	18,378 lb	11,757 lb	140 fpm	218 fpm	297 fpm	5,357 lb	3,938 lb	2,519 lb	651 fpm	1,018 fpm	1,384 fpm	Pe
	HL23-7-00-4	40.0.1	254 mm	610 mm	559 mm						926 m	737 m	579 m	444 m	314 m	243 m	161 m	152 m	113 m	435 l/min	172 bar	15,359 Nm	40	111.2 kN	81.8 kN	52.3 kN	43 m/min	66 m/min	90 m/min	23.8 kN	17.5 kN	11.2 kN	198 m/min	310 m/min	422 m/min	-ii
8																																				
																																				8

R SERIES - PLANETARY RECOVERY WINCHES

			Dr	rum Size							Vire Rone S	Storage Capad	ity (Theoretic	(lee						Hudroulio	Requirement					PERFORMANCE (8	Based on ** wire size)			te
Model Number	Reductio	n		_							The Nope o	norage capar	aty (Theorem	2011)	_					Hyuraulic		Davis Taxa	Drum	Bare	e Drum	Mear	n Drum	Full I	Drum	+ B
Model Number	Ratio	Drum	Dia.	Flange	Length												* R.T.F.			Oils	Supply	Drum Torque	RPM	Line Pull	Line Speed	Line Pull	Line Speed	Line Pull	Line Speed	7 12
				Dia.		1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4*	7/8"	1*	1-1/8"	1-1/4"	Volume	Pressure			Line Full	Line Speed	Line Full	Line Speed	Line Full	Line Speed	visi
R5-12-70-1M	9.3:1	5.0	0"	11.38"	9.00"	3058 ft	1394 ft	732 ft	481 ft	337 ft	268 ft	209 ft	160 ft	119 ft						15 gpm	2,350 psi	30,305 lb.in	26	11,020 lb	37 fpm	8,297 lb	56 fpm	5,573 lb	74 fpm	1/2" &
R5-12-70-1F	9.5.1	127 1	mm 2	289 mm	229 mm	932 m	425 m	223 m	147 m	103 m	82 m	64 m	49 m	36 m						57 l/min	162 bar	3,424 Nm	20	49.0 kN	11 m/min	36.9 kN	17 m/min	24.8 kN	23 m/min	1/2 2
R7-15-135-1M	128.6:1	6.3	8"	12.63"	8.00"						278 ft	217 ft	167 ft	124 ft						18 gpm	2,100 psi	54,000 lb.in	15.5	15,429 lb	28 fpm	12,214 lb	39 fpm	9,000 lb	49 fpm	E/0" U
R7-15-135-1F	120.0.1	162	mm 3	321 mm	203 mm						85 m	66 m	51 m	38 m						68 l/min	145 bar	6,101 Nm	10.0	68.6 kN	9 m/min	54.3 kN	12 m/min	40.0 kN	15 m/min	5/8" ¥

Pullmaster Winch Corporation 8247 - 130 Street, Surrey, B.C., Canada V3W 7X4 Phone: 604-594-4444 Fax: 604-591-7332 Email: sales@pullmaster.com Website: http://www.pullmaster.com

* Refer to Factory prior to using these wire rope sizes.

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