

PERFORMANCE DATA FOR PULLMASTER PLANETARY WINCHES

PL SERIES - EQUAL SPEED IN BOTH DIRECTIONS

Model Number	Reduction Ratio	Drum Size				Wire Rope Storage Capacity (Theoretical)															Hydraulic Requirement		Drum Torque	Drum RPM	PERFORMANCE (Based on " wire size)										**
		Drum Dia.	Flange Dia.	Length	R.T.F.															Volume		Pressure			Bare Drum		Mean Drum				Full Drum				
					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"	Line Pull	Line Speed	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	114"						
PL2-12-221-1	40.5:1	122 mm	181 mm	102 mm	105 m	52 m	27 m	18 m	12 m										23 l/min	117 bar	315 Nm	49	4.9 kN	27 m/min	4.3 kN	32 m/min	3.6 kN	37 m/min	3.3 kN	34 m/min					
		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	49	2,204 lb	83 fpm	1,919 lb	97 fpm	1,633 lb	111 fpm	1,163 lb	111 fpm					
PL2A-12-221-1	40.5:1	156 mm	229 mm	133 mm	227 m	97 m	50 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	6.6 kN	34 m/min					
		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	49	2,204 lb	83 fpm	1,919 lb	97 fpm	1,633 lb	111 fpm	1,163 lb	111 fpm					
PL2A-12-221-1	23.6:1	156 mm	229 mm	275 mm	468 m	200 m	108 m	76 m	52 m	34 m	31 m								7.7 gpm	2,200 psi	4,135 lb.in	84	1,285 lb	142 fpm	1,118 lb	165 fpm	952 lb	189 fpm	752 lb	189 fpm					
		6.13"	9.00"	5.25"	745 ft	318 ft	172 ft	122 ft	84 ft	55 ft	50 ft								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	6.6 kN	34 m/min					
PL5-12-210-1	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	66	20.0 kN	41 m/min	17.4 kN	48 m/min	14.8 kN	56 m/min	12.6 kN	56 m/min					
		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	66	4,500 lb	135 fpm	3,914 lb	159 fpm	3,328 lb	193 fpm	2,945 lb	206 fpm					
PL5-12-210-2	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	66	20.0 kN	41 m/min	17.4 kN	48 m/min	14.8 kN	56 m/min	12.6 kN	56 m/min					
		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	66	4,500 lb	135 fpm	3,723 lb	171 fpm	2,945 lb	206 fpm	2,161 lb	206 fpm					
PL5-12-210-6	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	66	20.0 kN	41 m/min	16.6 kN	52 m/min	13.1 kN	63 m/min	10.9 kN	63 m/min					
		7.38"	11.00"	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	66	4,500 lb	135 fpm	3,914 lb	159 fpm	3,328 lb	193 fpm	2,945 lb	206 fpm					
PL5-12-213-1	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	66	20.0 kN	41 m/min	17.4 kN	48 m/min	14.8 kN	56 m/min	12.6 kN	56 m/min					
		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	69	2,000 lb	142 fpm	1,740 lb	166 fpm	1,479 lb	191 fpm	1,261 lb	191 fpm					
PL5-12-213-2	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	69	8.9 kN	43 m/min	7.7 kN	51 m/min	6.6 kN	58 m/min	5.8 kN	58 m/min					
		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	69	2,000 lb	142 fpm	1,655 lb	179 fpm	1,309 lb	216 fpm	1,091 lb	216 fpm					
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	5,000 lb	60 fpm	4,349 lb	71 fpm	3,698 lb	82 fpm	3,172 lb	82 fpm					
		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	29.5	5,000 lb	60 fpm	4,136 lb	76 fpm	3,272 lb	92 fpm	2,827 lb	92 fpm					
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 fpm	12.6 kN	28 fpm					
		9.83"	14.13"	8.00"	2720 ft	1234 ft	684 ft	462 ft	294 ft	215 ft	196 ft	140 ft	130 ft						37.0 gpm	2,150 psi	35,438 lb.in	46	7,000 lb	122 fpm	6,101 lb	143 fpm	4,441 lb	221 fpm	3,811 lb	221 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	80 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	20.1 kN	50 m/min	1/2"				
PL8-3-30-2	42.5:1	9.83"	14.13"	10.00"	3400 ft	1542 ft	855 ft	577 ft	367 ft	245 ft	175 ft	125 ft	100 ft						37.0 gpm	2,150 psi	35,438 lb.in	46	7,000 lb	122 fpm	6,101 lb	143 fpm	4,441 lb	221 fpm	3,811 lb	221 fpm					
		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	20.1 kN	50 m/min					

M SERIES - EQUAL SPEED IN BOTH DIRECTIONS

Model Number	Reduction Ratio	Drum Size				Wire Rope Storage Capacity (Theoretical)															Hydraulic Requirement		Drum Torque	Drum RPM	PERFORMANCE (Based on "n" wire size)						**
		Drum Dia.	Flange Dia.	Length	18"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	R.T.F.		1-1/8"	1-1/4"	Oil Supply		Bare Drum	Mean Drum										
														3/4"	7/8"			Volume	Pressure		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	3,612 lb	101 fpm		
M5-3-10-2	76.0:1	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	35	26.7 kN	21 m/min	22.4 kN	26 m/min	18.2 kN	31 m/min	16.1 kN	31 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					14.5 gpm	2,000 psi	22,500 lb.in	35	6,000 lb	69 fpm	4,731 lb	94 fpm	3,462 lb	119 fpm	3,062 lb	119 fpm		
M5-3-10-4	76.0:1	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	35	26.7 kN	21 m/min	21.0 kN	29 m/min	15.4 kN	36 m/min	13.4 kN	36 m/min		
M6-12-70-2	9.3:1	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	35	6,000 lb	69 fpm	4,731 lb	94 fpm	3,462 lb	119 fpm	3,062 lb	119 fpm		
		178 mm	343 mm	305 mm	1618 m	755 m	371 m	244 m	171 m	136 m	106 m	81 m	61 m					21 m/min	2,000 psi	24,121 lb.in	35	6,000 lb	69 fpm	4,731 lb	94 fpm	3,462 lb	119 fpm	3,062 lb	119 fpm		
M8-3-30-1	33.8:1	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	59	29.4 kN	17 m/min	25.5 kN	20 m/min	21.6 kN	23 m/min	18.7 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	59	8,500 lb	116 fpm	7,148 lb	143 fpm	5,795 lb	170 fpm	4,773 lb	170 fpm		
		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	21.8 kN	52 m/min		
M8-3-30-2	33.8:1	178 mm	343 mm	203 mm	1078 m	503 m	247 m	163 m	114 m	90 m	71 m	54 m	40 m					37 gpm	2,000 psi	31,875 lb.in	59	8,500 lb	116 fpm	7,148 lb	143 fpm	5,795 lb	170 fpm	4,773 lb	170 fpm		
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					37 gpm	2,000 psi	31,875 lb.in	59	8,500 lb	116 fpm	7,148 lb	143 fpm	5,795 lb	170 fpm	4,773 lb	170 fpm		
		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	59	8,500 lb	116 fpm	7,148 lb	143 fpm	5,795 lb	170 fpm	4,773 lb	170 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	2,968 Nm	69	31.1 kN	41 m/min	26.2 kN	51 m/min	21.2 kN	61 m/min	17.6 kN	61 m/min		
M8A-3-30-2	28.9:1	7.00"	13.50"	8.00"	2115 ft	959 ft	532 ft	359 ft	227 ft	166 ft	152 ft	108 ft	101 ft					2,000 psi	2,000 psi	26,250 lb.in	69	7,000 lb	135 fpm	5,886 lb	167 fpm	4,773 lb	170 fpm	4,773 lb	170 fpm		
		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	2,968 Nm	69	31.1 kN	41 m/min	26.2 kN	51 m/min	21.2 kN	61 m/min	17.6 kN	61 m/min		
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					2,000 psi	2,000 psi	26,250 lb.in	69	7,000 lb	135 fpm	5,886 lb	167 fpm	4,773 lb	170 fpm	4,773 lb	170 fpm		
M8B-3-30-1	15.7:1	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	59	8,500 lb	116 fpm	7,148 lb	143 fpm	5,795 lb	170 fpm	4,773 lb	170 fpm		
		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	2,968 Nm	127	3,790 lb	249 fpm	3,187 lb	308 fpm	2,584 lb	362 fpm	2,584 lb	362 fpm		
M8B-3-30-2	15.7:1	7.00"	13.50"	12.00"	5307 ft	2477 ft	1218 ft	802 ft	562 ft	445 ft	347 ft	267 ft	199 ft					2,000 psi	2,000 psi	26,250 lb.in	127	3,790 lb	249 fpm	3,187 lb	308 fpm	2,584 lb	362 fpm	2,584 lb	362 fpm		
		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	2,968 Nm	127	3,790 lb	249 fpm	3,187 lb	308 fpm	2,584 lb	362 fpm	2,584 lb	362 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					2,000 psi	2,000 psi	26,250 lb.in	127	3,790 lb	249 fpm	3,187 lb	308 fpm	2,584 lb	362 fpm	2,584 lb	362 fpm		
M12-2-97-1	41.2:1	7.63"	14.63"	10.00"	5103 ft	2333 ft	1280 ft	793 ft	569 ft	458 ft	307 ft	267 ft	222 ft					50 gpm	2,200 psi	50,000 lb.in	48	12,121 lb	104 fpm	9,632 lb	140 fpm	7,143 lb	176 fpm	5,449 lb	176 fpm		
M12-2-97-2	41.2:1	194 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	5,649 Nm	48	43.4 kN	39 m/min	37.6 kN	46 m/min	31.8 kN	54 m/min	27.8 kN	54 m/min		
		7.63"	14.63"	10.00"	4014 ft	1826 ft	957 ft	663 ft	439 ft	332 ft	245 ft	226 ft	162 ft					50 gpm	2,200 psi	50,000 lb.in	48	12,121 lb	104 fpm	9,632 lb	140 fpm	7,143 lb	176 fpm	5,449 lb	176 fpm		
M12-2-97-3	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					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	27.8 kN	54 m/min		
M12-2-97-4	41.2:1	7.63"	16.63"	13.00"	7828 ft	3581 ft	1963 ft	1242 ft	875 ft	703 ft	474 ft	404 ft	341 ft					50 gpm	2,200 psi	50,000 lb.in	48	12,121 lb	104 fpm	9,632 lb	140 fpm	7,143 lb	176 fpm	5,449 lb	176 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					189 l/min	152 bar	5,649 Nm	48	43.4 kN	39 m/min	35.6 kN	50 m/min	36.8 kN	62 m/min	27.8 kN	62 m/min		
M12-2-97-5	41.2:1	7.63"	16.63"	13.00"	7828 ft	3581 ft	1963 ft	1242 ft	875 ft	703 ft	474 ft	404 ft	341 ft					50 gpm	2,200 psi	50,000 lb.in	48	12,121 lb	104 fpm	9,632 lb	140 fpm	7,143 lb	176 fpm	5,449 lb	176 fpm		
M12-2-97-6	41.2:1	194 mm	422 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	5,649 Nm	48	43.4 kN	39 m/min	37.6 kN	46 m/min	31.8 kN	54 m/min	27.8 kN	54 m/min		
		7.63"	16.63"	13.00"	6022 ft	2754 ft	1510 ft	939 ft	673 ft	540 ft	365 ft	339 ft	282 ft					50 gpm	2,200 psi	50,000 lb.in	48	12,121 lb	104 fpm	9,632 lb	140 fpm	7,143 lb	176 fpm	5,449 lb	176 fpm		
M12-2-97-6	41.2:1	244 mm	422 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	5,649 Nm	48	43.4 kN	39 m/min	37.6 kN	46 m/min	31.8 kN	54 m/min	27.8 kN	54 m/min		

M SERIES - EQUAL SPEED IN BOTH DIRECTIONS

(Continued)

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Model Number	Reduction Ratio	Drum Size				Wire Rope Storage Capacity (Theoretical)												Hydraulic Requirement		Drum Torque	Drum RPM	PERFORMANCE (Based on " wire size)								"		
		Dia	Flange Dia	Length	1/8" 3/16" 1/4" 5/16" 3/8" 7/16" 1/2" 9/16" 5/8" 3/4" 7/8" 1" R.T.F. 1-1/8" 1-1/4"												Oil Supply		Bare Drum			Line Speed		Mean Drum		Full Drum						
					Volume	Pressure	Line Pull	Line Speed	Line Pull	Line Speed	Line Pull	Line Speed	Line Pull	Line Speed	Line Pull	Line Speed	Line Pull	Line Speed				Line Pull	Line Speed									
M12-3-97-7	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					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	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	5,649 Nm		53.9 kN	32 m/min	40.9 kN	46 m/min	27.8 kN	61 m/min					
M12-3-97-11	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					50 gpm	2,200 psi	50,000 lb.in	48	12,121 lb	104 fpm	8,112 lb	205 fpm	4,103 lb	306 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					189 l/min	152 bar	5,649 Nm		53.9 kN	32 m/min	36.1 kN	62 m/min	18.2 kN	93 m/min					
M12B-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					50 gpm	2,200 psi	25,244 lb.in	95	6,120 lb	205 fpm	4,638 lb	277 fpm	3,606 lb	348 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					189 l/min	152 bar	2,852 Nm		27.2 kN	63 m/min	21.6 kN	84 m/min	16.0 kN	106 m/min					
M12B-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					50 gpm	2,200 psi	25,244 lb.in	95	4,926 lb	255 fpm	4,266 lb	302 fpm	3,606 lb	348 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					189 l/min	152 bar	2,852 Nm		21.9 kN	78 m/min	19.0 kN	92 m/min	16.0 kN	106 m/min					
M12B-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					50 gpm	2,200 psi	25,244 lb.in	95	4,926 lb	255 fpm	4,041 lb	326 fpm	3,156 lb	398 fpm					
		244 mm	422 mm	330 mm	2386 m	1091 m	598 m	372 m	287 m	214 m	144 m	134 m	104 m					189 l/min	152 bar	2,852 Nm		21.9 kN	78 m/min	18.0 kN	99 m/min	14.0 kN	121 m/min					
M12B-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					50 gpm	2,200 psi	25,244 lb.in	95	6,120 lb	205 fpm	4,638 lb	302 fpm	3,156 lb	398 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					189 l/min	152 bar	2,852 Nm		27.2 kN	63 m/min	20.6 kN	92 m/min	14.0 kN	121 m/min					
M12B-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					50 gpm	2,200 psi	25,244 lb.in	95	4,926 lb	255 fpm	4,041 lb	326 fpm	3,156 lb	398 fpm					
		244 mm	422 mm	254 mm	1635 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		21.9 kN	78 m/min	18.0 kN	99 m/min	14.0 kN	121 m/min					
M12B-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					50 gpm	2,200 psi	25,244 lb.in	95	6,120 lb	205 fpm	4,638 lb	302 fpm	3,156 lb	398 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	20.6 kN	92 m/min	14.0 kN	121 m/min					
M12B-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	2,200 psi	25,244 lb.in	95	6,120 lb	205 fpm	4,096 lb	406 fpm	2,071 lb	606 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					189 l/min	152 bar	2,852 Nm		27.2 kN	63 m/min	18.2 kN	124 m/min	9.2 kN	185 m/min					
M18-3-101-1	39.6:1	8.50"	15.50"	10.00"	615 ft	494 ft	332 ft	210 ft	130 ft	170 ft	113 ft							76 gpm	2,300 psi	83,250 lb.in	50.5	18,000 lb	122 fpm	14,644 lb	159 fpm	11,288 lb	195 fpm					
		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		80.1 kN	37 m/min	65.1 kN	48 m/min	59.2 kN	56 m/min					
M18-3-101-2	39.6:1	13.00"	20.00"	16.00"	1359 ft	1088 ft	738 ft	681 ft	528 ft	375 ft	251 ft							76 gpm	2,300 psi	83,250 lb.in	50.5	12,109 lb	182 fpm	10,379 lb	218 fpm	8,649 lb	255 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		53.9 kN	55 m/min	46.2 kN	66 m/min	38.5 kN	78 m/min					
M18-3-101-3	39.6:1	8.50"	20.00"	16.00"	1982 ft	1557 ft	1197 ft	898 ft	747 ft	500 ft	372 ft							76 gpm	2,300 psi	83,250 lb.in	50.5	18,000 lb	122 fpm	13,325 lb	188 fpm	8,649 lb	255 fpm					
		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		80.1 kN	37 m/min	69.3 kN	57 m/min	38.5 kN	78 m/min					
M18-3-101-4	39.6:1	10.00"	20.00"	16.00"	2112 ft	1712 ft	1252 ft	950 ft	800 ft	512 ft	384 ft							76 gpm	2,300 psi	83,250 lb.in	50.5	18,000 lb	122 fpm	12,055 lb	241 fpm	6,110 lb	360 fpm					
		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		80.1 kN	37 m/min	53.6 kN	74 m/min	27.2 kN	110 m/min					
M25-7-86-1	40.8:1	10.00"	17.00"	11.00"	612 ft	413 ft	383 ft	297 ft	210 ft	140 ft	91 ft							115 gpm	2,500 psi	135,937 lb.in	49	25,000 lb	140 fpm	20,930 lb	173 fpm	16,860 lb	207 fpm					
		254 mm	432 mm	279 mm	186 m	126 m	117 m	90 m	64 m	43 m	28 m							435 l/min	172 bar	15,359 Nm		111.2 kN	43 m/min	93.1 kN	53 m/min	75.0 kN	63 m/min					
M25-7-86-2	40.8:1	10.00"	24.00"	11.00"	1520 ft	1210 ft	950 ft	728 ft	515 ft	398 ft	264 ft							115 gpm	2,500 psi	135,937 lb.in	49	25,000 lb	140 fpm	21,930 lb	218 fpm	17,577 lb	247 fpm					
		254 mm	610 mm	279 mm	463 m	369 m	289 m	222 m	157 m	121 m	80 m							435 l/min	172 bar	15,359 Nm		111.2 kN	43 m/min	81.8 kN	66 m/min	52.3 kN	90 m/min					
M25-7-86-3	40.8:1	10.00"	24.00"	17.00"	2349 ft	1869 ft	1467 ft	1125 ft	796 ft	615 ft	408 ft							115 gpm	2,500 psi	135,937 lb.in	49	25,000 lb	140 fpm	18,378 lb	218 fpm	11,757 lb	297 fpm					
		254 mm	610 mm	432 mm	716 m	570 m	447 m	343 m	243 m	188 m	124 m							435 l/min	172 bar	15,359 Nm		111.2 kN	43 m/min	81.8 kN	66 m/min	52.3 kN	90 m/min					
M25-7-86-4	40.8:1	10.00"	24.00"	22.00"	3039 ft	2419 ft	1899 ft	1456 ft	1031 ft	796 ft	528 ft							115 gpm	2,500 psi	135,937 lb.in	49	25,000 lb	140 fpm	18,378 lb	218 fpm	11,757 lb	297 fpm					
		254 mm	610 mm	559 mm	926 m	737 m	578 m	444 m	314 m	243 m	161 m							435 l/min	172 bar	15,359 Nm		111.2 kN	43 m/min	81.8 kN	66 m/min	52.3 kN	90 m/min					
M25-7-86-5	40.8:1	10.00"	34.00"	29.00"	8882 ft	6863 ft	5504 ft	4642 ft	3189 ft	2204 ft	1689 ft							115 gpm	2,500 psi	135,937 lb.in	49	25,000 lb	140 fpm	16,694 lb	282 fpm	8,208 lb	425 fpm					
		254 mm	864 mm	737 mm	2707 m	2092 m	1677 m	1415 m	972 m	672 m	515 m							435 l/min	172 bar	15,359 Nm		111.2 kN	43 m/min	73.9 kN	86 m/min	36.5 kN	130 m/min					
M25-7-86-14	40.8:1	14.50"	24.00"	17.00"	1780 ft	1307 ft	1065 ft	861 ft	647 ft	468 ft	344 ft							115 gpm	2,500 psi	135,937 lb.in	49	17,683 lb	197 fpm	14,720 lb	247 fpm	11,757 lb	297 fpm					
		368 mm	610 mm	432 mm	543 m	398 m	325 m	263 m	197 m	143 m	105 m							435 l/min	172 bar	15,359 Nm		78.7 kN	60 m/min	65.5 kN	75 m/min	52.3 kN	90 m/min					
M25-7-86-31	40.8:1	13.00"	24.00"	17.00"	1992 ft	1511 ft	1262 ft	1049 ft	705 ft	523 ft	397 ft							115 gpm	2,500 psi	135,937 lb.in	49	19,595 lb	217 fpm	15,676 lb	237 fpm	11,757 lb	297 fpm					
		330 mm	610 mm	432 mm	607 m	461 m	385 m	320 m	215 m	159 m	121 m							435 l/min	172 bar	15,359 Nm		87.2 kN	54 m/min	69.7 kN	72 m/min	52.3 kN	90 m/min					
M25B-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							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					
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PERFORMANCE DATA FOR PULLMASTER PLANETARY WINCHES

H SERIES - RAPID REVERSE

Model Number	Reduction Ratio	Drum Size			Wire Rope Storage Capacity (Theoretical)																Hydraulic Requirement		Drum Torque	Drum RPM	PERFORMANCE (Based on ** wire size)												**
		Drum Dia.	Flange Dia.	Length																	Volume	Pressure			Bare Drum			Mean Drum			Full Drum						
																									Line Pull	Line Speed		Line Pull	Line Speed		Line Pull	Line Speed					
					1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	* R.T.F.	7/8"	1"	1-1/8"	1-1/4"	Forward	Reverse	Forward	Reverse			Forward	Reverse										
H8-30-3-1	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	59	8,500 lb	116 fpm	502 fpm	7,148 lb	143 fpm	619 fpm	5,795 lb	170 fpm	736 fpm					
		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					
H8-30-3-2	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	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					
		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					
H8-30-3-4	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	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					
		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	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					
		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		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					
H8A-3-30-2	28.9:1	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	26,250 lb.in	69	7,000 lb	135 fpm	587 fpm	5,519 lb	185 fpm	802 fpm	4,038 lb	235 fpm	1,018 fpm					
		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		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					
H8A-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	2,000 psi	26,250 lb.in	69	7,000 lb	135 fpm	587 fpm	5,519 lb	185 fpm	802 fpm	4,038 lb	235 fpm	1,018 fpm					
		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		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					
H8B-3-30-1	15.7:1	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	14,212 lb.in	127	3,790 lb	249 fpm	1,080 fpm	3,187 lb	308 fpm	1,333 fpm	2,584 lb	366 fpm	1,585 fpm					
		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		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					
H8B-3-30-2	15.7:1	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	2,000 psi	14,212 lb.in	127	3,790 lb	249 fpm	1,080 fpm	2,988 lb	341 fpm	1,477 fpm	2,186 lb	432 fpm	1,873 fpm					
		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		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					
H8B-3-30-4	15.7:1	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	2,000 psi	14,212 lb.in	127	3,790 lb	249 fpm	1,080 fpm	2,988 lb	341 fpm	1,477 fpm	2,186 lb	432 fpm	1,873 fpm					
		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		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					
H12-3-97-1	41.2:1	7.63"	14.63"	10.00"	5103 ft	2333 ft	1280 ft	793 ft	569 ft	458 ft	307 ft	287 ft	222 ft							50 gpm	2,200 psi	50,000 lb.in	48	12,121 lb	104 fpm	449 fpm	9,632 lb	140 fpm	606 fpm	7,143 lb	176 fpm	762 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							189 l/min	152 bar	5,649 Nm		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					
H12-3-97-2	41.2:1	9.63"	14.63"	10.00"	4014 ft	1826 ft	957 ft	663 ft	439 ft	332 ft	245 ft	226 ft	162 ft							50 gpm	2,200 psi	50,000 lb.in	48	9,756 lb	129 fpm	558 fpm	8,449 lb	152 fpm	660 fpm	7,143 lb	176 fpm	762 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							189 l/min	152 bar	5,649 Nm		43.4 kN	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"	16.63"	13.00"	7828 ft	3581 ft	1963 ft	1220 ft	875 ft	703 ft	474 ft	440 ft	341 ft							50 gpm	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	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		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					
H12-3-97-5	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							50 gpm	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	333 m	245 m	182 m	149 m	122 m	98 m							189 l/min	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							50 gpm	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							189 l/min	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							50 gpm	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							189 l/min	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 m	2000 ft	1527 ft	1237 ft	985 ft							50 gpm	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	3282 m	1778 m	1196 m	824 m	610 m	465 m	377 m	300 m							189 l/min	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							50 gpm	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							189 l/min	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							50 gpm	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							189 l/min	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							50 gpm	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					

H SERIES - RAPID REVERSE (Continued)

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Model Number	Reduction Ratio	Drum Size			Wire Rope Storage Capacity (Theoretical)															Hydraulic Requirement		Drum Torque	Drum RPM	PERFORMANCE (Based on " wire size)										**	
		Drum Dia	Flange Dia	Length	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"	" R T.F. 1-1/4"		Oil Supply		Line Pull			Line Speed			Line Pull	Line Speed			Line Pull	Line Speed			
																	Volume	Pressure	Forward	Reverse				Forward	Reverse	Forward		Reverse							
																													Volume	Pressure		Forward	Reverse		Forward
H25B-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				
		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	389 m/min	47.3 kN	103 m/min	483 m/min	38.1 kN	124 m/min	576 m/min				
H25B-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				
		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				
H25B-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				
		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				
H25B-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				
		254 mm	610 mm	599 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				
H25B-7-86-5	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	1,275 fpm	8,434 lb	553 fpm	2,580 fpm	4,169 lb	833 fpm	3,885 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	389 m/min	37.5 kN	169 m/min	786 m/min	18.5 kN	254 m/min	1184 m/min				
H25B-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	8,962 lb	386 fpm	1,803 fpm	7,477 lb	484 fpm	2,258 fpm	5,972 lb	581 fpm	2,712 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	550 m/min	33.3 kN	147 m/min	688 m/min	26.6 kN	177 m/min	827 m/min				
H25B-7-86-31	20.7:1	13.90"	24.00"	17.00"						1992 ft	1511 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					
		330 mm	610 mm	432 mm						607 m	461 m	385 m	320 m	215 m	159 m	121 m	90 m	82 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				
H50-7-86-1	115.9:1	14.00"	23.75"	14.00"						365 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	114 m	84 m	60 m	54 m	435 l/min	172 bar	43,075 Nm		22,424 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						
H50-7-86-2	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						
H50-7-86-13	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	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	896 m	677 m	566 m	458 m	435 l/min	172 bar	43,075 Nm		22,424 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						
H50C-7-86-1	84.1:1	14.00"	23.75"	14.00"						815 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	39 fpm	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						
H50C-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						
H50C-7-86-13	84.1:1	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	276,669 lb.in	24	36,284 lb	96 fpm	447 fpm	39 fpm	119 fpm	553 fpm	24,593 lb	141 fpm	660 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						
H75-7-191-1	157:1	16.00"	32.00"	20.00"															142 gpm	3,000 psi	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			
H75-7-191-4	157:1	14.00"	38.00"	36.00"						2489 ft	2104 ft	1503 ft	142 gpm	3,000 psi	642,183 lb.in									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			

HL SERIES - RAPID REVERSE & 2-SPEED FORWARD

Model Number	Reduction Ratio	Drum Size			Wire Rope Storage Capacity (Theoretical)															Hydraulic Requirement		Drum Torque	Drum RPM	PERFORMANCE (Based on "w" wire size)																		**
		Drum Dia.	Flange Dia.	Length	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"	"R T F"		Oil Supply		Low Speed Hoisting						High Speed Hoisting & Lowering															
																	Volume	Pressure	Line Pull at Maximum Pressure		Line Speed at Maximum Volume			Maximum Allowable Line Pull		Line Speed at Maximum Volume		Line Pull at Maximum Pressure		Line Speed at Maximum Volume		Maximum Allowable Line Pull		Line Speed at Maximum Volume								
																			Bare Drum	Mean Drum	Bare Drum			Mean Drum	Bare Drum	Mean Drum	Bare Drum	Mean Drum	Bare Drum	Mean Drum	Bare Drum	Mean Drum	Bare Drum	Mean Drum	Bare Drum	Mean Drum	Bare Drum	Mean Drum	Bare Drum	Mean Drum	Bare Drum	
HL25-7-86-1	40.8:1	10.00"	17.00"	11.00"						612	413	383	297	210	140	91	84	77	115	2,500	135,937	49	25,000	20,930	16,860	140	173	207	5,357	4,485	3,813	651	809	965								
	40.8:1	254 mm	432 mm	279 mm						186	126	117	90	64	43	28	26	23	435	172	15,359		111.2	93.1	75.0	43	53	63	2,381	1,938	1,611	198	246	294								
HL25-7-86-2	40.8:1	10.00"	24.00"	11.00"						1520	1210	950	728	515	398	264	246	218	115	2,500	135,937	49	25,000	21,876	17,571	140	218	297	5,357	4,381	3,938	651	809	1,018								
	40.8:1	254 mm	610 mm	279 mm						463	369	289	222	157	121	80	76	71	435	172	15,359		111.2	81.8	52.3	43	66	90	2,381	1,751	1,521	198	246	310								
HL25-7-86-3	40.8:1	10.00"	24.00"	17.00"						2343	1869	1467	1125	796	615	408	384	287	115	2,500	135,937	49	25,000	21,876	17,571	140	218	297	5,357	4,381	3,938	651	809	1,018								
	40.8:1	254 mm	610 mm	432 mm						2447	1919	1487	1125	796	615	408	384	287	115	2,500	135,937		111.2	81.8	52.3	43	66	90	2,381	1,751	1,521	198	246	310								
HL25-7-86-4	40.8:1	10.00"	24.00"	22.00"						3039	2419	1899	1456	1034	796	615	528	497	115	2,500	135,937	49	25,000	21,876	17,571	140	218	297	5,357	4,381	3,938	651	809	1,018								
	40.8:1	254 mm	610 mm	550 mm						928	737	569	444	314	243	161	152	131	435	172	15,359		111.2	81.8	52.3	43	66	90	2,381	1,751	1,521	198	246	310								