

CREEPDRIVE SYSTEM PERFORMANCE

The following tables represent an extract of the possibilities of system combinations, motors and pumps portfolio. Please refer to your local Poclain Hydraulics Application Engineer to learn more about the offer.

VEHICLE SPECIFICATIONS		12 Tons	16 Tons	19 Tons	44 Tons
GVW	daN	12 000	16 000	19 000	44 000
Engine speed	rpm	1 100	1 100	1 800	1 800
PTO ratio		1,148	1,148	0,93	1,53
PTO torque limitation	N.m [lb.ft]	450 [332]	450 [332]	450 [332]	450 [332]
Pneumatic		R19,5	R19,5	R22,5	R22,5
Axle ratio		4,56	5,63	5,63	3,91

SYSTEM PERFORMANCE		CreepDrive 1	CreepDrive 2	CreepDrive 1	CreepDrive 2	CreepDrive 1	CreepDrive 2	CreepDrive 2
Max hydrostatic speed range in creep mode	kph [mph]	0,5 - 7 [0.3 to 4.3]	0,5 - 11,5 [0.3 to 7.1]	0,5 - 5,5 [0.3 to 3.4]	0,5 - 9,5 [0.3 to 5.9]	0,5 - 7 [0.3 to 4.3]	0,5 - 11 [0.3 to 6.8]	0,5 - 10 [0.3 to 6.2]
Road speed limitation	kph [mph]	-	-	90 [56]	-	-	-	-
Max tractive effort	kN	49	134	60	166	49	135	94
Max slope	%	>18	>18	>18	>18	>18	>18	18

SUGGESTED SYSTEM DEFINITION		12 Tons	16 Tons	19 Tons	44 Tons			
		CreepDrive 1	CreepDrive 2	CreepDrive 1	CreepDrive 2			
Suggested motor		CDM222-050-0	CDM20-888	CDM222-050-0	CDM20-888			
Suggested pump		P90 100	P90 130	P90 100	P90 130			
Max hydrostatic speed @ idle speed	kph [mph]	5,5 [3.4]	**7 [4.3]	4,5 [2.8]*	**5,5 [3.4]	5,5 [3.4]	**9 [5.6]	9 [5.6]
Max slope	%	>18	>18	>18	>18	18	>18	18

* indicative values, to be checked according to the truck

** higher speed can be reached at higher engine rpm with CreepDrive 2

	CreepDrive 1 motor			CreepDrive 2 motor - 2 speeds				
	CDM222-050-8	CDM222-050-0	CDM222-050-2	CDM20-888	CDM20-999	CDM20-000	CDM20-111	CDM20-222
Displacement 1C	667 cm ³ /rev [40.7 in ³ /rev]	833 cm ³ /rev [50.8 in ³ /rev]	1 000 cm ³ /rev [61.0 in ³ /rev]	1 630 cm ³ /rev [99.5 in ³ /rev]	1 824 cm ³ /rev [111.1 in ³ /rev]	2 032 cm ³ /rev [123.8 in ³ /rev]	2 232 cm ³ /rev [135.9 in ³ /rev]	2 424 cm ³ /rev [148.1 in ³ /rev]
Displacement 2C	-	-	-	815 cm ³ /rev [49.7 in ³ /rev]	912 cm ³ /rev [55.7 in ³ /rev]	1 016 cm ³ /rev [62.0 in ³ /rev]	1 116 cm ³ /rev [68.1 in ³ /rev]	1 212 cm ³ /rev [74.0 in ³ /rev]
Max rotation speed	200 rpm	170 rpm	142 rpm	315 rpm	282 rpm	253 rpm	230 rpm	212 rpm
Max freewheel speed	3 200 rpm			4 000 rpm				
Max pressure	400 bar [5 800 PSI]			500 bar [7 252 PSI]				
Max torque output	4 190 N.m [3,090 lb.ft]	5 232 N.m [3,859 lb.ft]	6 278 N.m [4,630 lb.ft]	10 460 N.m [7,715 lb.ft]	11 690 N.m [8,622 lb.ft]	13 020 N.m [9,603 lb.ft]	14 300 N.m [10,547 lb.ft]	15 580 N.m [11 491 lb.ft]

P90 heavy duty closed loop pump				
	P90 055	P90 075	P90 100	P90 130
Displacement	55 cm ³ /rev [3.35 in ³ /rev]	75 cm ³ /rev [4.58 in ³ /rev]	100 cm ³ /rev [6.10 in ³ /rev]	130 cm ³ /rev [7.91 in ³ /rev]
Controls	Electronic control with feedback sensor			
Tandem mounting possibility	Yes			
Bracket mounting	SAE-A / SAE-BB / SAE-B / SAE-CD	SAE-A / SAE-BB / SAE-B / SAE-CD	SAE-A / SAE-BB / SAE-B / SAE-CD	SAE-A / SAE-BB / SAE-B / SAE-CD / SAE-DE / SAE-DG

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬

C D M 2 0 - - - - - P 1 - S 1 - Y - - 0 0 0

Cam ring type			①
1 displacement	2 displacement		
cm³/rev. [cu.in / rev.]			
1 416 [86.3]	708 [43.2]		7
1 630 [99.4]	815 [49.7]		8
1 824 [111.2]	912 [55.6]		9
2 032 [123.9]	1 016 [62.0]		0
2 232 [136.1]	1 116 [68.0]		1
2 428 [148.0]	1 214 [74.0]		2

Input / Output shaft type			⑤	⑥
Companion flange	SAE	Serie 1650/1710		
		Serie 1810	2	2
	XS	Serie 150	B	B
		Serie 180	C	C
		Serie 200	D	D

Valving type			②
Symmetrical	Ratio = 2	A	
	Ratio < 2	B	
	Ratio > 2	C	

Pneumatic cylinder style 1		⑦	⑧
P	1		

Valving cover		③
Lug Fixing	2	
Lug Fixing + Exchange	5	

NPN sensors		⑨	⑩
S	1		

Port options		④
HP: ISO 6162 (SAE Flanges): DN 19 LP: ISO 9974-1 («metric + spot face» ports): M22	1	
HP: ISO 6162 (SAE Flanges): DN 19 LP: ISO 1179-1 («BSPP + spot face» ports): G21	2	
HP: ISO 9974-1 («metric + spot face» ports): M27 LP: ISO 9974-1 («metric + spot face» ports): M22	4	
HP: ISO 6162 (SAE Flanges): DN 19 LP: ISO 11926-1 (SAE J514 with O-ring seal): 7/8 – 14 UNF	7	
HP: ISO 6162 (SAE Flanges): DN 19 LP: ISO 9974-1 («metric + spot face» ports): M22	9	
HP: ISO 11926-1 (SAE J514 with O-ring seal): 1" 1/16 – 12 UNF LP: ISO 11926-1 (SAE J514 with O-ring seal): 7/8 – 14 UNF	A	

Standard		⑪
Extra Drain	Y	
Tight Piston Rings		
Butterfly Valving		
Speed Sensor Type T4		
PEEK Bushings		

Options		⑫	⑬
Without option	0		
Special paint or no paint (Grey as standard)	D		
Name plate specific to the customer	P		

