

# Final Drives Small

## Standard features

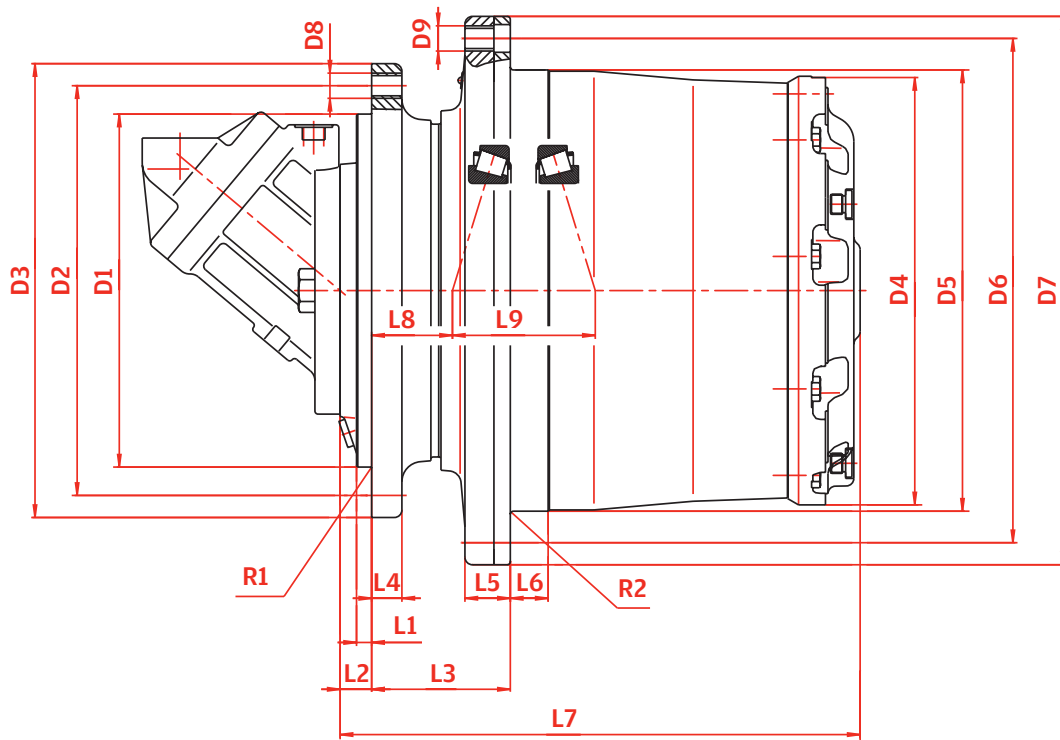
- › Compact structure
- › High performance
- › 3-7 Planetary wheels per stage
- › Notchless ground tooth root
- › Different ratios
- › Integrated disc-brake
- › High availability by highest teeth and production quality

## Proven applications

- › Track drives
- › Chain drives
- › Wheel drives
- › Reel and winchdrives
- › Road cutter drum drives

## Special executions on request

- › Mechanical disconnect device



		<b>F 5</b>	<b>F10A</b>	<b>F13A</b>	<b>FD 20</b>	<b>F 30</b>	<b>F 30K</b>
Output torque <sup>2</sup>	kNm	5	10	13	20	30	30
Ratio <sup>3</sup>	i	30	35	93 (41) <sup>1</sup>	81	61 (19) <sup>1</sup>	61 (19) <sup>1</sup>
		35	51	108	90	66 (32) <sup>1</sup>	66 (32) <sup>1</sup>
		53	65	122	101	81	81
				140	137	90	90
				178	171	101	101
				229	228	114	114
						121	121
						137	137
						171	171
				228	228		
				305	305		
<b>CAPACITY OF BEARING</b>							
C-dynamic	kN	194	132	132	194/194	132/194	132/194
Co-static	kN	315	255	255	325/315	255/325	255/325
Weigh <sup>5</sup>	kg	43	45	50	72	94	94
<b>MULTI-DISK BRAKE</b>							
Locking torque	Nm		200	200	300	300 (255; 400) <sup>4</sup>	300 (255; 400) <sup>4</sup>
Release pressure min.	bar		17	17	16	16 (16; 22) <sup>4</sup>	16 (16; 22) <sup>4</sup>
Hydraulic motor plug in fixed	ccm		28	28	28	40	28
			30	30	30	45	30
			32	32	32	56	32
					60		
					63		
plug in variable	ccm		28	28	28	55	28
			45	45	45	60	45
<b>DIMENSIONS</b>							
L 1	mm	8	10	10	10	13	13
L 2	mm	8	30	30	41	25	22
L 3	mm	70	72	72	75	75	75
L 4	mm	19	13.5	13.5	15	15	15
L 5	mm	18.5	15	15	28	29	29
L 6	mm	20	16	16	25	25	25
L 7	mm	220	230	255	300	323 (278) <sup>1</sup>	320 (275) <sup>1</sup>
L 8	mm	38.4	28	28	15.3	28.5	28.5
L 9	mm	80.2	79	79	86.3	89	89
R 1	mm	0.6	0.6	0.6	2.5	2.5	2.5
R 2	mm	0.6	0.6	0.6	2.5	2.5	2.5
D 1	mm	165	190	190	240	240	240
D 2	mm	192	230	230	275	275	275
D 3	mm	215	256	256	304	304	304
D 4	mm	190	216	216	250	269	269
D 5	mm	204	220	220	270	270	270
D 6	mm	232	260	260	305	305	305
D 7	mm	255	290	290	335	335	335
D 8 / D 9	M	12/12	16/16	16/16	16/16	16/16	16/16
Qty. D 8 / D 9		9/9	12/8	12/8	18/18	18/18	18/18

1) 2-stage

2) Stated torques are peak values for short duration

3) Other ratios on demand

4) Optional brake torques

5) Without Hydraulic motor

# Final Drives Medium

## Standard features

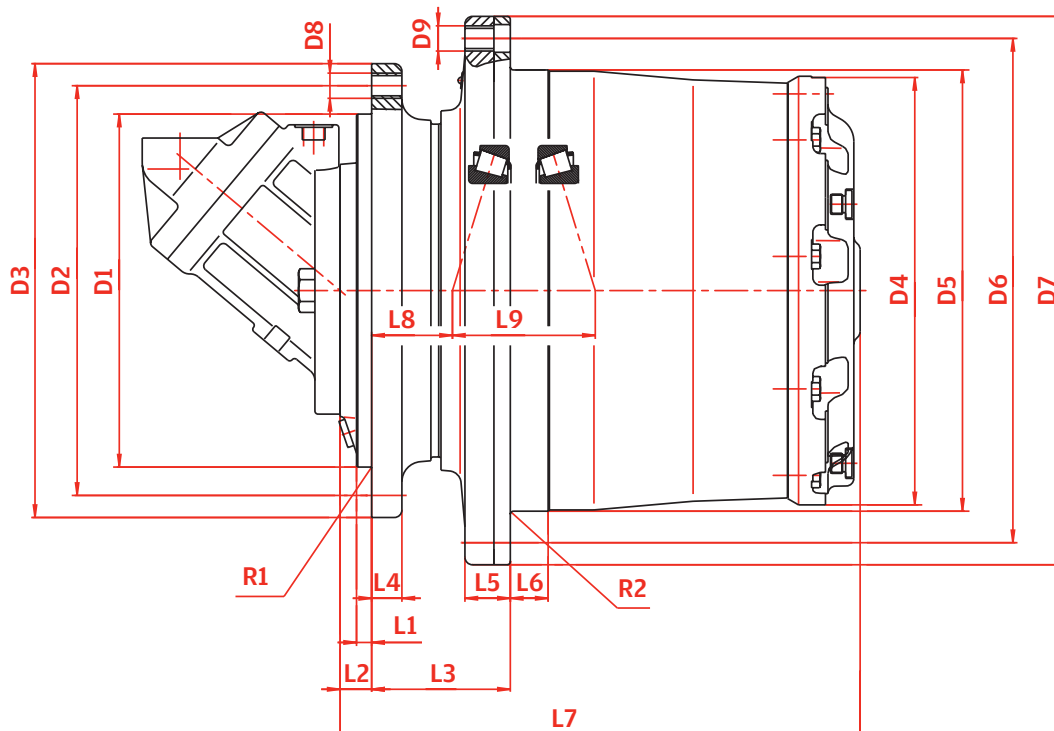
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## Proven applications

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- › Road cutter drum drives

## Special executions on request

- › Mechanical disconnect device



		<b>F40</b>	<b>F40A</b>	<b>F 55</b>	<b>F 55A</b>	<b>F 55B</b>
Output torque <sup>2</sup>	<b>kNm</b>	40	40	55	55	55
Ratio <sup>3</sup>	<b>i</b>	61 (19) <sup>1</sup>	61 (19) <sup>1</sup>	63 (16) <sup>1</sup>	63 (16) <sup>1</sup>	63 (16) <sup>1</sup>
		66 (22) <sup>1</sup>	66 (22) <sup>1</sup>	68 (19) <sup>1</sup>	68 (19) <sup>1</sup>	68 (19) <sup>1</sup>
		81 (26) <sup>1</sup>	81 (26) <sup>1</sup>	87 (22) <sup>1</sup>	87 (22) <sup>1</sup>	87 (22) <sup>1</sup>
		85 (32) <sup>1</sup>	85 (32) <sup>1</sup>	94 (32) <sup>1</sup>	94 (32) <sup>1</sup>	94 (32) <sup>1</sup>
		101	101	117	117	117
		110	110	124	124	124
		117	117	137	137	137
		124	124	148	148	148
		142	142	185	185	185
		181	181			
<b>CAPACITY OF BEARING</b>						
C-dynamic	<b>kN</b>	224	224	224	224	224
Co-static	<b>kN</b>	405	405	405	405	405
Weight <sup>5</sup>	<b>kg</b>	115	123	165	177	181
<b>PARK BRAKE</b>						
Locking torque	<b>Nm</b>	420	420	420 (390; 500) <sup>4</sup>	420 (390; 500) <sup>4</sup>	420 (390; 500) <sup>4</sup>
Release pressure min.	<b>bar</b>	18	18	15 (15; 21) <sup>4</sup>	15 (15; 21) <sup>4</sup>	15 (15; 21) <sup>4</sup>
<b>HYDRAULIC MOTOR</b>						
plug in fixed	<b>ccm</b>	40	80	80	40	/
		45	90	90	45	
		56			56	
		60			60	
		63			63	
plug in variable	<b>ccm</b>	55	80	80	55	107
		60			60	110
<b>DIMENSIONS</b>						
L 1	<b>mm</b>	16	13	12	20	12
L 2	<b>mm</b>	16	35	25	30	37
L 3	<b>mm</b>	91	91	110	91	110
L 4	<b>mm</b>	21	21	24	24	24
L 5	<b>mm</b>	34	34	36	36	36
L 6	<b>mm</b>	26	26	30	30	30
L 7	<b>mm</b>	338 (308) <sup>1</sup>	357 (327) <sup>1</sup>	413 (374) <sup>1</sup>	399 (360) <sup>1</sup>	425 (386) <sup>1</sup>
L 8	<b>mm</b>	38	38	64	45	64
L 9	<b>mm</b>	100	100	113	113	113
R 1	<b>mm</b>	2.5	2.5	1	4	1
R 2	<b>mm</b>	2.5	2.5	2.5	2.5	2.5
D 1	<b>mm</b>	240	270	280	240	290
D 2	<b>mm</b>	285	310	325	285	335
D 3	<b>mm</b>	320	345	360	320	370
D 4	<b>mm</b>	294	294	340	340	340
D 5	<b>mm</b>	295	295	350	350	350
D 6	<b>mm</b>	335	335	400	400	400
D 7	<b>mm</b>	370	370	435	435	435
D 8 / D 9	<b>M</b>	20x1.5 16x1.5	20x1.5 16x1.5	20x1.5	20x1.5	20x1.5
Qty. D 8 / D 9		20/20	16/20	24/20	20/20	20/20

1) 2-stage

2) Stated torques are peak values for short duration

3) Other ratios on demand

4) Optional brake torques

5) Without Hydraulic motor

# Final Drives Medium

## Standard features

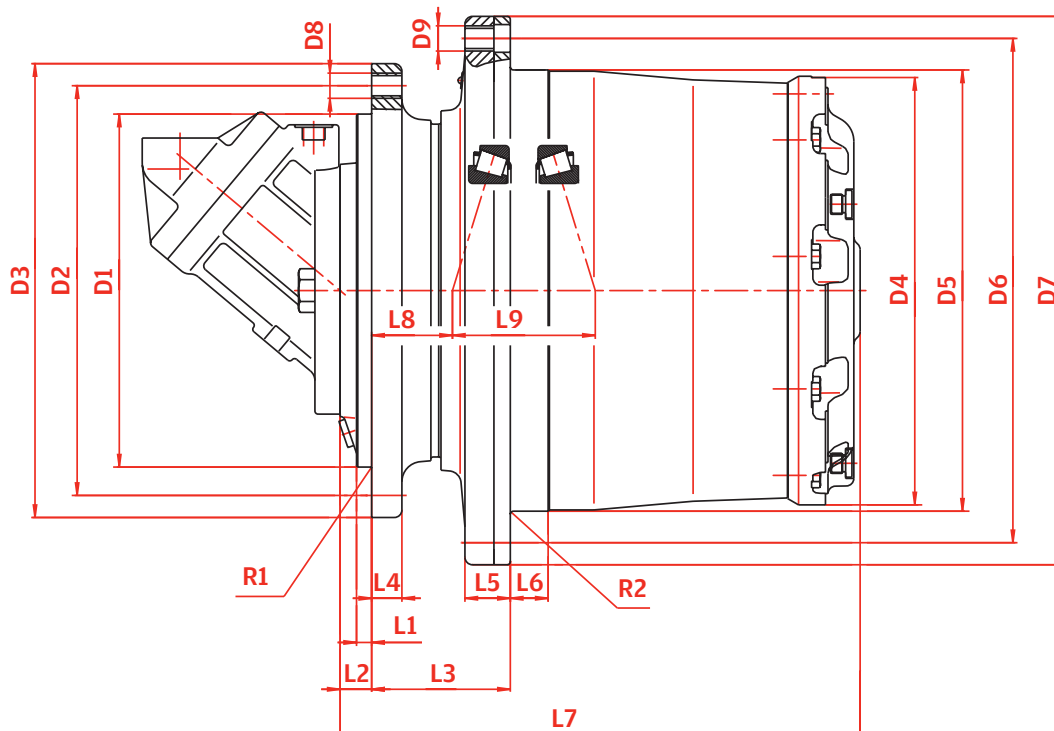
- › Compact structure
- › High performance
- › 3-7 Planetary wheels per stage
- › Notchless ground tooth root
- › Different ratios
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## Proven applications

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- › Road cutter drum drives

## Special executions on request

- › Mechanical disconnect device



		<b>F 80</b>	<b>F80A</b>	<b>F80B</b>	<b>F 100</b>	<b>F 100B</b>
Output torque <sup>2</sup>	<b>kNm</b>	80	80	80	100	100
Ratio <sup>3</sup>	<b>i</b>	61 (19) <sup>1</sup>	61 (19) <sup>1</sup>	61 (19) <sup>1</sup>	77 (21) <sup>1</sup>	77 (21) <sup>1</sup>
		81	81	81	84 (22) <sup>1</sup>	84 (22) <sup>1</sup>
		101	101	101	95 (32) <sup>1</sup>	95 (32) <sup>1</sup>
		114	114	114	121	121
		121	121	121	142	142
		137	137	137	175	175
		147	147	147	192	192
		171	171	171	226	226
		187	187	187		
		206	206	206		
<b>CAPACITY OF BEARING</b>						
C-dynamic	<b>kN</b>	300	300	300	498	498
Co-static	<b>kN</b>	570	570	570	1010	1010
Weight <sup>5</sup>	<b>kg</b>	230	227	228	325	338
<b>PARK BRAKE</b>						
Locking torque	<b>Nm</b>	600 (375; 550; 1000) <sup>4</sup>	600 (375; 550; 1000) <sup>4</sup>	600 (375; 550; 1000) <sup>4</sup>	600 (900) <sup>4</sup>	600 (900) <sup>4</sup>
Release pressure min.	<b>bar</b>	18 (18; 19; 28) <sup>4</sup>	18 (18; 19; 28) <sup>4</sup>	18 (18; 19; 28) <sup>4</sup>	13 (13) <sup>4</sup>	13 (13) <sup>4</sup>
<b>HYDRAULIC MOTOR</b>						
plug in fixed	<b>ccm</b>	107	80	160	107	160
		110	90	180	125	180
		125				
plug in variable	<b>ccm</b>	80	107	160	107	160
			110		110	
<b>DIMENSIONS</b>						
L 1	<b>mm</b>	20	20	20	35	37
L 2	<b>mm</b>	35	35	35	35	37
L 3	<b>mm</b>	90	90	90	165	165
L 4	<b>mm</b>	22	22	22	28	28
L 5	<b>mm</b>	37	37	37	53	53
L 6	<b>mm</b>	24	24	24	43	43
L 7	<b>mm</b>	415	415	415	461	463
L 8	<b>mm</b>	34	34	34	32	32
L 9	<b>mm</b>	123	123	123	139	139
R 1	<b>mm</b>	4	4	4	10/60	12/60
R 2	<b>mm</b>	2.5	2.5	2.5	5	5
D 1	<b>mm</b>	330	330	330	390	390
D 2	<b>mm</b>	370	370	370	460	460
D 3	<b>mm</b>	410	410	410	500	500
D 4	<b>mm</b>	374	374	374	407	407
D 5	<b>mm</b>	400	400	400	408	408
D 6	<b>mm</b>	450	450	450	460	460
D 7	<b>mm</b>	490	490	490	500	500
D 8 / D 9	<b>M</b>	24x2	24x2	24x2	24x2	24x2
Qty. D 8 / D 9		20/20	20/20	20/20	30/24	30/24

1) 2-stage

2) Stated torques are peak values for short duration

3) Other ratios on demand

4) Optional brake torques

5) Without Hydraulic motor

# Final Drives Large

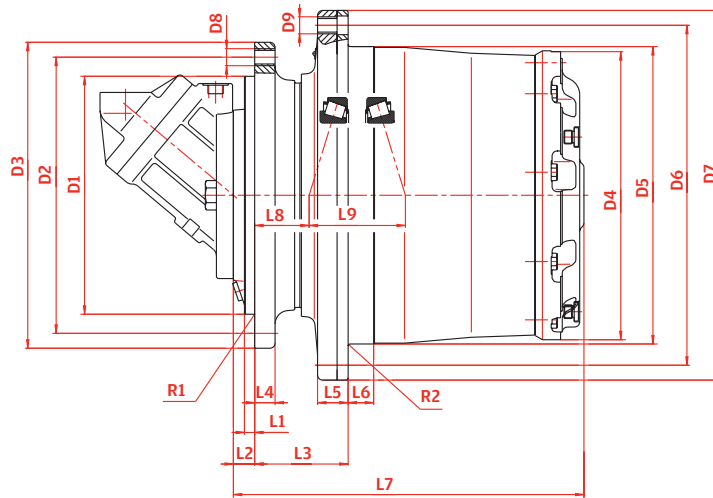
## Standard features

- › Compact structure
- › High performance
- › 3-7 Planetary wheels per stage
- › Notchless ground tooth root
- › Different ratios
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- › Different hydraulic motors
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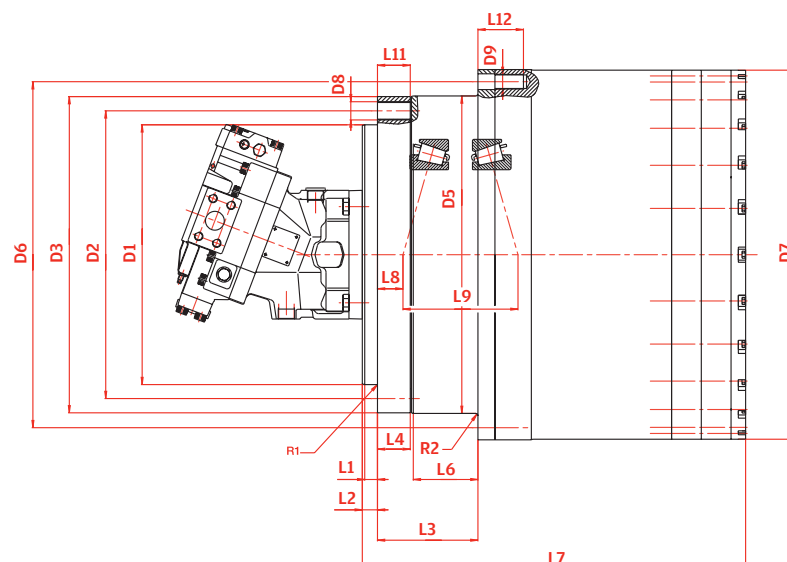
## Special executions on request

- › Mechanical disconnect device

Standard input version - ST



Crawler Crane version - CC



		<b>F 130</b>	<b>F 180</b>	<b>F 220</b>	<b>F260</b>	<b>F 360</b>	<b>F 440</b>	<b>F560</b>			
Output torque <sup>2</sup>	<b>kNm</b>	130	180	220	260	360	440	560			
Ratio <sup>1,3</sup>	<b>i</b>	81	206	97	69	94	352	739			
		85	281	119	97	128					
		115	(412) <sup>7</sup>	190	245	223					
		159	(824) <sup>7</sup>	248	345	257					
		167		290	(670) <sup>7</sup>	490					
		180		345	(1115) <sup>7</sup>	(385) <sup>7</sup>					
		206		(744) <sup>7</sup>	(1784) <sup>7</sup>	(446) <sup>7</sup>					
			(805) <sup>7</sup>			(1115) <sup>7</sup>					
						(1784) <sup>7</sup>					
<b>VERSION<sup>5</sup></b>		ST	ST CC	ST CC	ST CC	ST CC	ST CC	CC		CC	
<b>CAPACITY OF BEARING</b>											
C-dynamic	<b>kN</b>	523	787	787	765	750	750	750	1 040	1040	1040
Co-static	<b>kN</b>	980	1650	1650	1660	1560	1560	1560	2450	2450	2450
Weight <sup>6</sup>	<b>kg</b>	452	636	636	740	895	865	895	1080	1300	2000
<b>PARK BRAKE</b>											
Locking torque	<b>Nm</b>	750	1375 (800) <sup>4</sup>	1375 (800) <sup>4</sup>	1200	1000	1000	1000	1700	1700 (1000)*	900
Release pressure min.	<b>bar</b>	17	35 (35) <sup>4</sup>	35 (35) <sup>4</sup>	15	15	15	15	12	15 (7.8)*	13
<b>HYDRAULIC MOTOR</b>											
plug in fixed	<b>ccm</b>	107	160	180	107	107			355		
		125	180		180	180					
		160									
		180									
plug in variable	<b>ccm</b>	107	160		160	160	355	160	355	250	160
		160			200	250	250			160	
<b>DIMENSIONS</b>											
L 1	<b>mm</b>	45	30	25	18	21	21	21	100	40	40
L 2	<b>mm</b>	45	30	30	52	25	45	25	100	43	43
L 3	<b>mm</b>	190	168	171	166.5	165.5	170	165.5	130	255	255
L 4	<b>mm</b>	35	40	80	40	54	40	54	40	40	45
L 5	<b>mm</b>	58	56	/	61	/	48	/	60	25	45
L 6	<b>mm</b>	45	21.5	86	35	106.5	60	106.5	80	25	120
L 7	<b>mm</b>	530	534.5	564.5	580.5	631.5	579	631.5	658	820	831.5
L 8	<b>mm</b>	50.5	50.3	80.3	16	42	18.5	42	-25	80	80
L 9	<b>mm</b>	147	141.4	141.4	187.5	189.5	189.5	189.5	215	213	213
L10	<b>mm</b>	/	/	/	/	/	/	/	/	/	/
L11	<b>mm</b>	/	/	35	/	54	/	54	/	40	45
L12	<b>mm</b>	/	/	81.5	/	75	/	75	/	70	70
R 1	<b>mm</b>	25	4	4	35°/16/16	/	2	/	18°/100/16	/	4
R 2	<b>mm</b>	4	3	5	4	4	/	4	10	/	4
D 1	<b>mm</b>	390	450	340	460	428	460	428	580	450	450
D 2	<b>mm</b>	500	510	400	600	474	520	474	680	515	515
D 3	<b>mm</b>	550	560	444	650	521	570	521	735	569	569
D 4	<b>mm</b>	449	528	/	540	/	608	/	649	669	763
D 5	<b>mm</b>	450	535	445	542	523	610	523	650	670	570
D 6	<b>mm</b>	500	600	495	600	570	680	570	720	620	620
D 7	<b>mm</b>	550	650	528	650	608	735	608	775	670	670
D 8 / D 9	<b>M</b>	24x2	24x2 27x2	33x1.5 27x2	24x2	30x2 24x1.5	30x2/ Ø33	30x2 24x1.5	30	36x3 30x2	36x1.5 30x1.5
Qty. D 8 / D 9		32/32	30/30	24/30	38/38	30/36	24/24	30/36	30/30	30/30	29/42

\* Park brake integrated in hydraulic motor

1) 2-stage on demand

2) Stated torques are peak values for short duration

3) Other ratios on demand

4) Optional brake torques

5) ST= Standard CC= Crawler Crane

5) Without hydraulic motor

7) In combination with input bevel drive r

# Final Drives XLarge

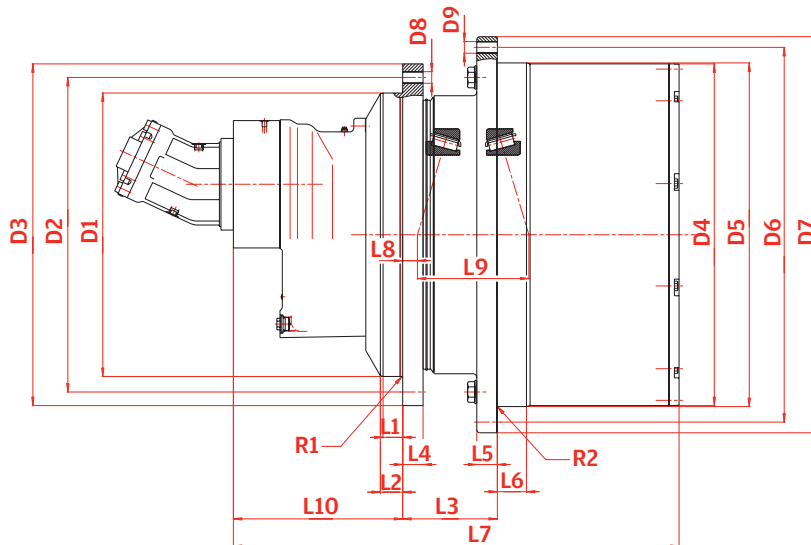
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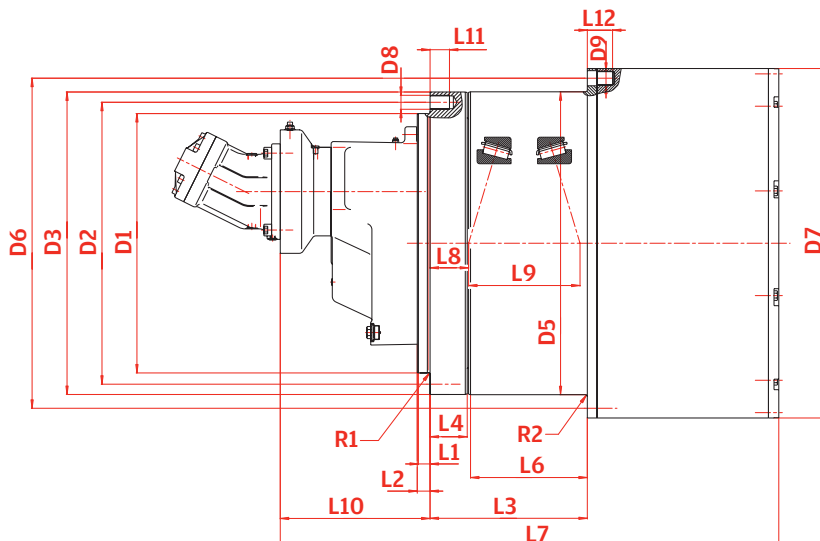
## Special executions on request

- › Mechanical disconnect device

Standard input version - ST



Crawler Crane version - CC



		<b>F 620</b>	<b>F 700</b>	<b>F 700A</b>	<b>F 800</b>	<b>F 1100</b>	<b>F 1300</b>	<b>F 1800</b>	<b>F 2200</b>	<b>F 3000</b>	
Output torque <sup>1</sup>	<b>kNm</b>	620	700	700	800	1100	1300	1800	2200	2916	
Ratio <sup>2</sup>	<b>i</b>	328 293 249	377	648	283	406	461	656 744	552	699	
<b>VERSION<sup>3</sup></b>		ST	CC	CC	CC	ST	ST	ST	CC	ST	ST
<b>CAPACITY OF BEARING</b>											
C-dynamic	<b>kN</b>	1320	1320	1320	1320	2485	3900	3900	3900	5100	6110
Co-static	<b>kN</b>	3150	3150	3150	3150	5941	7650	7650	7650	11600	11900
Weight <sup>4</sup>	<b>kg</b>	2897	2897	3350	3350	3764	7220	7400	9000	10736	11500
<b>PARK BRAKE</b>											
Locking torque	<b>Nm</b>	1200	1200	1200	1200	*1000	1750	1750	1200	2300	1700
Release pressure min.	<b>bar</b>	28	28	28	28	*7,8	20	20	28	22	12
<b>HYDRAULIC MOTOR</b>											
fixed	<b>ccm</b>	(2x) 250 (1x) 500	(2x) 200 (2x) 160	(2x) 250		(2x) 250	(2x) 250	(2x) 250	(2x) 250	(2x) 355	
variable	<b>ccm</b>	(2x) 250 (1x) 500	(2x) 160	(2x) 250	(2x) 160	(2x) 250	(2x) 250		(2x) 250	(2x) 355	(3x) 250
<b>DIMENSIONS</b>											
L 1	<b>mm</b>	50	30	30	30	20	57	57	55	60	60
L 2	<b>mm</b>	57.5	33	33	33	25	60	60	60	70	70
L 3	<b>mm</b>	245	405	405	405	229	503	503	478	343	343
L 4	<b>mm</b>	52.5	96	96	96	60	74	74	158	80	80
L 5	<b>mm</b>	53	/	/	/	58	/	/	/	100	100
L 6	<b>mm</b>	75	306	306	306	170	/	/	239	80	80
L 7	<b>mm</b>	1232	1159	1283.5	1372.5	1315	1483	1623	1785.5	1846	2000
L 8	<b>mm</b>	38	99	99	99	161/163	176	176	171	217	217
L 9	<b>mm</b>	287	287	287	287	257/253	368	368	375	376	376
L10	<b>mm</b>	341	352.8	352.8	474.8	713	713	395.5	602.5	591	606
L11	<b>mm</b>	/	50	50	50	/	/	/	50	/	/
L12	<b>mm</b>	/	65	65	65	/	/	/	90	/	/
R 1	<b>mm</b>	4	4	4	4	6	10	10	4	10	10
R 2	<b>mm</b>	/	5	5	5	8	6	6	6	10	10
D 1	<b>mm</b>	730	668	668	668	830	1110	1110	785	1288	1288
D 2	<b>mm</b>	810	726	726	726	980	1230	1230	851	1400	1400
D 3	<b>mm</b>	880	779	779	779	1050	1310	1310	923	1500	1500
D 4	<b>mm</b>	880	/	/	/	916	1116	1116	/	1224	1224
D 5	<b>mm</b>	885	782	780	780	920	-	1100	935	1230	1230
D 6	<b>mm</b>	965	830	850	850	976	1170	1170	1016	1320	1320
D 7	<b>mm</b>	1020	880	900	900	1055	1226	1226	1224	1400	1400
D 8 / D 9	<b>M</b>	30x2	36x1.5 30x1.5	36x1.5	36x1.5	30 x 2	36/30	36/30	42x2	42x3	42x3
Qty. D 8 / D 9		41/48	30/45	30/45	30/45	48/48	48/52	48/52	40/40	50/48	50/48

1) Stated torques are peak values for short duration

2) Other ratios on demand

3) ST= Standard CC= Crawler Crane

4) Without hydraulic motor