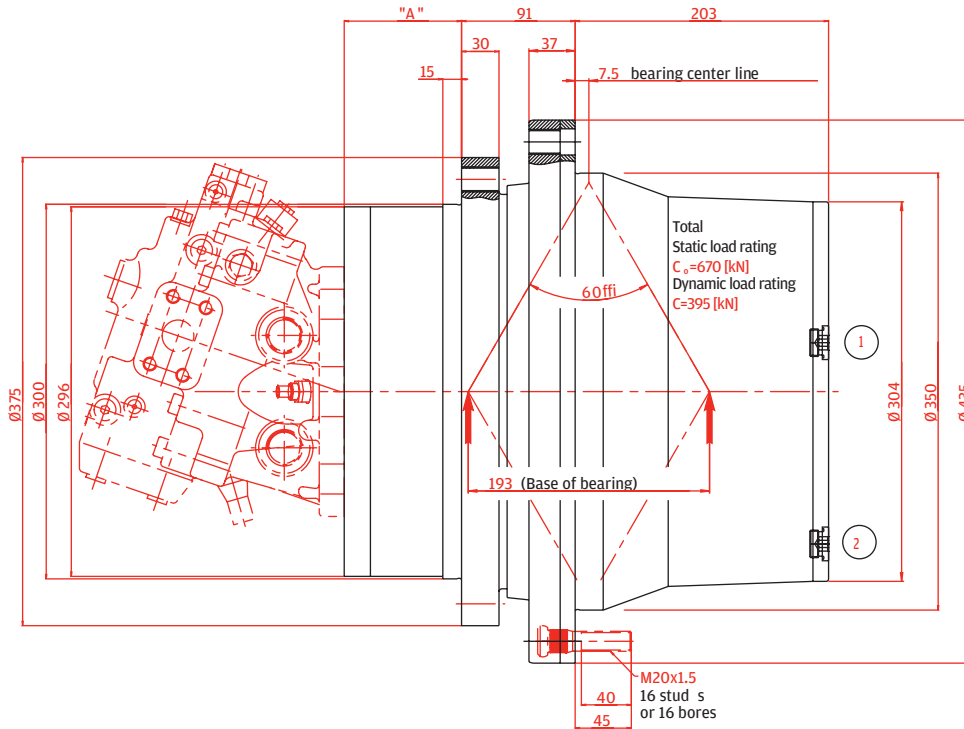


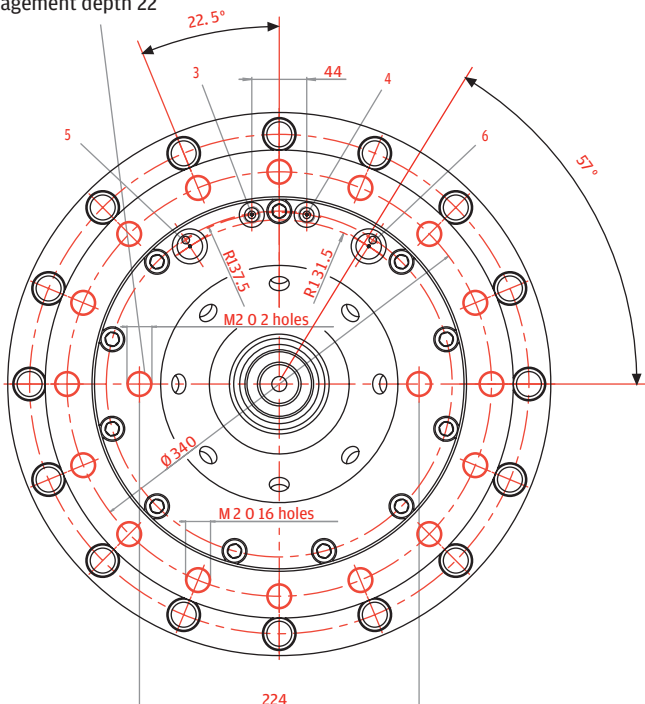
Final Drives 2 – Speed

“A”= 94 for hydraulic motors:
 Sauer 51C080 D3
 Linde HMV75
 Rexroth A6VE80

“A”= 124 for hydraulic motors:
 Sauer 51C110
 Rexroth A6VE107



Hydraulic motor screw engagement depth 22



PORT	PRESSURE	FUNCTION
3	40 bar	Small clutch piston pressurized T/M ratio lowgear
4	40 bar	Large clutch piston pressurized T/M ratio highgear
3 & 4	0 bar	Large & small clutch engaged, T/M in park break position

- 1- Oil filling plug M22x1.5
- 2- Oil draining plug M22x1.5
- 3- Low speed clutch port R1/4"G acc. DIN3852 "X"
- 4- High speed clutch port R1/4"G acc. DIN3852 "X"
- 5- Flushing oil input port M22x1.5 DIN3852 "X"
- 6- Flushing oil output port M22x1.5 DIN3852 "X"

Technical features

- › Two gear shifting transmission
- › Wet disc clutch unit
- › Power shift capability
- › Hydraulic controlled shifting
- › Integrated park & emergency brake
- › Optional cooling flow to input stage and clutch unit
- › Different hydraulic motors
- › Wide variety of ratio combinations

Project related installation drawings can be available on request.

Dimensions and technical data are subject to change due to continuous product development

Applications

- › Road paving machines
- › Construction machines
- › Cranes
- › Drilling machines
- › Winches
- › Agricultural machines
- › Forestry machines

Technical data

Output torque max.	Nm	40000
Input speed max.	RPM	3500

Applicable hydraulic motors

Bosch-rexroth	A6VE55 ~ 107 range
Linde	HMV 55 ~ 75 range
Sauer danfoss	51C 060 ~ 080 range

Ratio combinations

SHIFTING STAGE VERSIONS	SHIFTING STAGE RATIO ISS
1	5.77
2	5.42
3	4.87 *
4	4.44
5	4.26
6	3.81

MAIN STAGE VERSIONS	SHIFTING STAGE RATIO IMS
A	19.25
B	26 *
C	32.14

All ratios iSS combinable with all ratios iMS
 Final ratio if = iSS*iMS
 * Preferred ratios

Brake torque at input shaft	Nm	600
Brake torque at output min.	Nm	40000
Clutch operating pressure	bar	40 ~ 60
Oil quantity	l	3.3
Weight	kg	186

Final Drives with Service Brakes

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

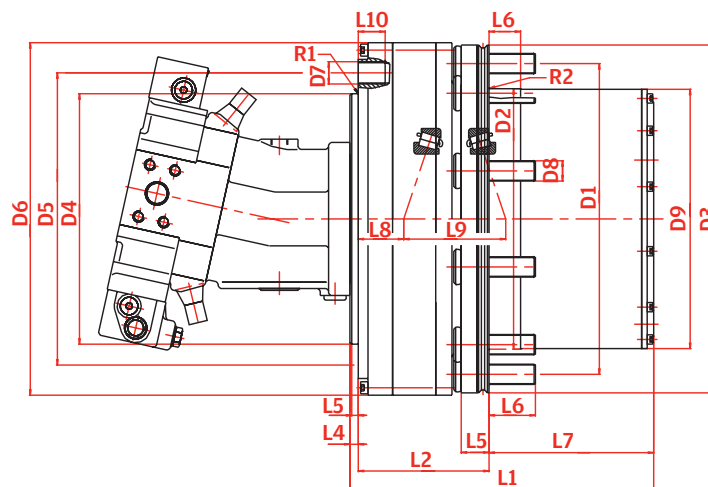
Proven applications

- › Towbarless aircraft tractor
- › Straddle carriers
- › Agricultural machines
- › Forklifts

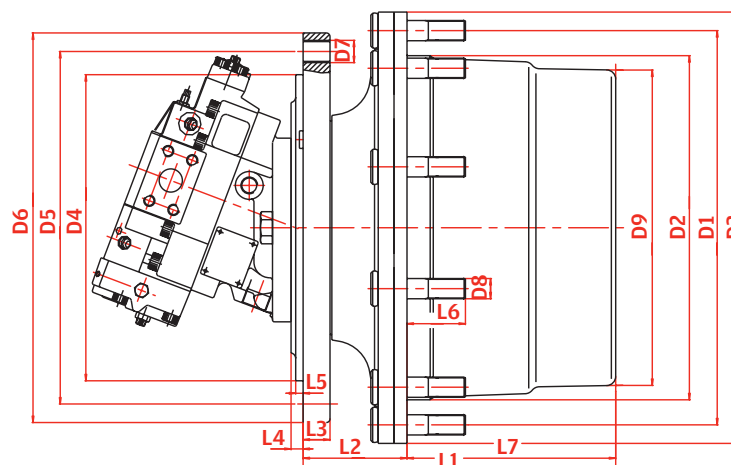
Special executions on request

- › Mechanical disconnect device

Version A



Version B



		FR 20	FR 40	FR 60
Output torque (Max) ¹	kNm	20	40	60
Output torque (Nominal)	kNm	16	23	30
Ratio ²	i	28	30	29
		34	32	34
VERSION		A	B	A
CAPACITY OF BEARING				
C-dynamic	kN	194	300	352
Co-static	kN	325	560	735
INPUT TORQUE MAX.		560	715	1066
Weight ⁴	kg	129	173	500
HYDRAULIC MOTOR³		80	107	160
variable		105		
operating pressure max. p	bar	420	420	420
SERVICE BRAKE		Multi-disk brake	Multi-disk brake	Multi-disk brake
Pressure max.	bar	100	110	90
Locking torque dyn.	Nm	9500	13000	28000
PARK BRAKE		Multi-disk brake	Multi-disk brake	Multi-disk brake
Release pressure max.	bar	80	80	60
Release pressure max.	bar	40	40	25
Locking torque max. stat.	Nm	24480	23000	30000
DIMENSIONS				
L1	mm	318	441	520
L2	mm	141	135.7	270
L3	mm	/	52.7	/
L4	mm	9	80	10
L5	mm	7	43	7
L6	mm	50	63	60
L7	mm	177.5	225	240
L8	mm	58	80	156
L9	mm	110	105	173
L10	mm	29	32	37
R1	mm	/	5	/
R2	mm	/	1	1.6
D1	mm	335	425	425
D2	mm	280.8 f7	371 - 0.2	375f8
D3	mm	375	465	559
D4	mm	270f8	290f8	290f8
D5	mm	315	367	330
D6	mm	380	405	554
D7	mm	10xM 24x2	M24(6x) M20(4x)	10xM24x2
D8	mm	10xM 22x1.5	18xM22x1.5	24 M22x1.5
D9	mm	279.5	340	356

1) Stated torques are peak values for short duration

2) Other ratios on demand

3) Other hydraulic motors on request

4) Without hydraulic motor