rexroth
A Bosch Company

Hydrostatic swing drives for mobile applications
MOBILEX GFB 8000
Series 40

RE 79058
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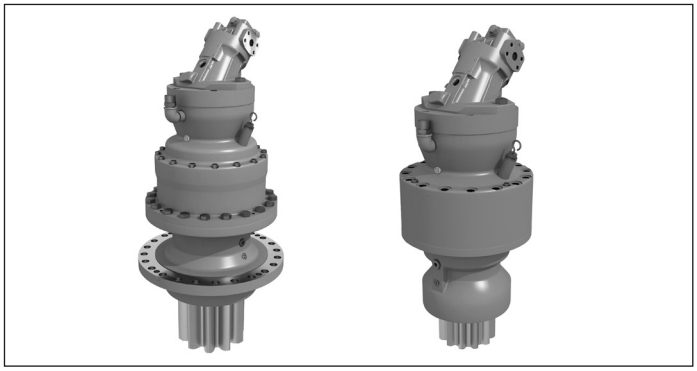


- Sizes 8110 to 8195
- Output torques from 4500 to 54000 Nm

Features

- Compact, space-saving two- or three-stage planetary gearbox
- Robust design
- Integrated static multiple-disk parking brake
- Assembly of variable plug-in and fixed plug-in motors of different series possible
- Assembly of electric motors possible
- Assembly of swash plate slew drive motor with integrated multiple-disk parking brake possible
- Easy assembly
- High efficiency
- Circulating oil lubrication/oil cooling (optional)
- Eccentric (optional)

Contents

Additional information at:
www.boschrexroth.com/gears

Description

The hydrostatic swing drive series 40 consists of a two- or three-stage planetary gearbox, integrated multiple-disk parking brake as well as an ouput shaft, whose gears can be customized to the slewing ring. In combination with a hydraulic axial piston motor, hydraulic swash plate slew drive motor or electric motor the complete unit can be used for excavators and cranes of all types, unloading equipment, forestry equipment and in all applications where accurate positioning is necessary.

Application conditions

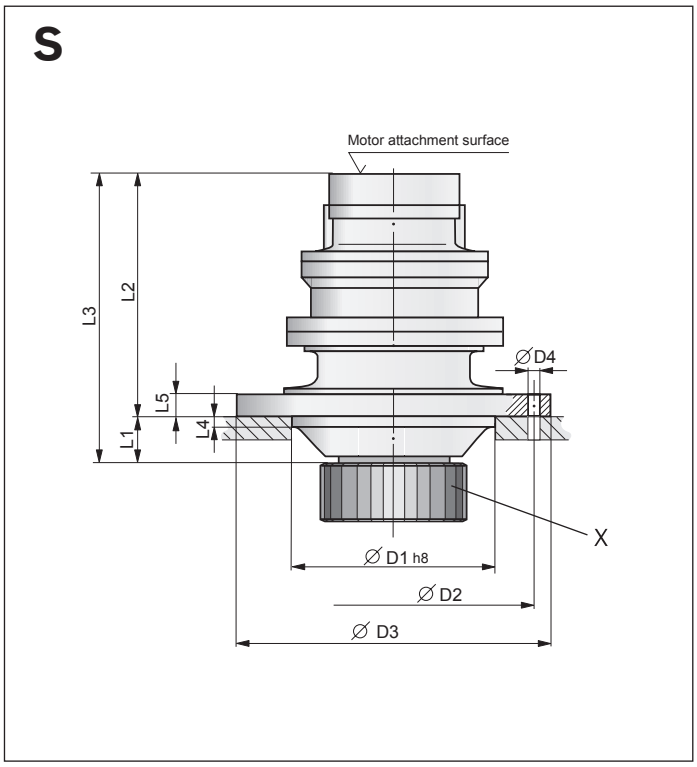
The planetary gearboxes are designed for use in environmental temperatures between -25°C and +40°C. Environmental factors such as salt water, salt air, sand, dust, extreme environmental temperatures, etc. affect the function. Such influences must be pre-announced in order for a secure gearbox design.

Technical data

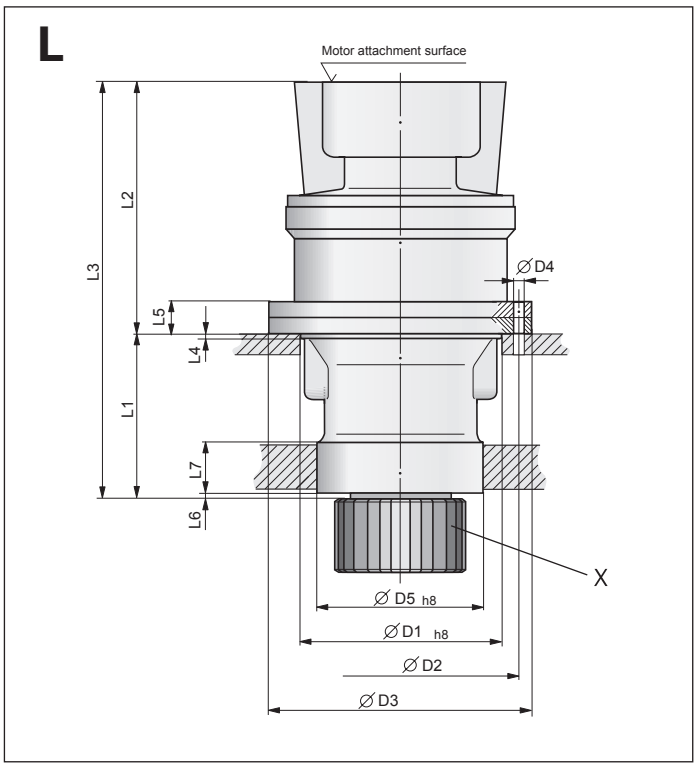
Size GFB	**Output torque** Crane [1]	Excavator [2]	**Ratio** [3]	**Appr. weight without motor variant Short S**	**Appr. weight without motor variant Long L**	**Static holding torque brake**	**Compatible hydraulic motors** [3]
	$T_{2\ max}$ Nm	$T_{2\ max}$ Nm	i	kg	kg	$T_{Br\ max}$ Nm	
8110 E	7200	4500	**26.2** • 33.3	-	92	280	A2FE 28 • **45**
8130 E	12700	8500	**19.3** • **27.0** • **33.3** • 48.1	200 [4] 150	160 [5] 133	982 747 505 340	A2FE 28 • 32 • 45 • 56 • 63 • 80 • 90 • **107** • **125** A6VE 55 • 60 • 80 • 85 A2FM **28** A6VM **55** • **60** • **80** • **85** • **107** **115**
8144 E	18000	12000	**32.3**	-	202	410	[6]
8146 F	28500	17500	**69.0** • **81.6** • 102.6 • 119.3 • 134.8 • **156.0**	243	208	421 625	A2FE 28 • 32 • 45 • 56 • 63 • 80 • 90 • **107** • **125** A6VE 55 • 60 • 80 • 85 A2FM 56 • **63**
8150 E	30000	19000	27.0 • 36.4 • 42.4 • **51.6**	[6]	235	1220	A2FE 80 • 90 • 107 • **125** 160 • 180 A31FD 150 • 170
8195 E		54000	**49.7**	915	-	1580	A2FM 180 • 200

1) Design according to FEM L2, T5, M5 (FEM 1.001/3rd edition) at output speed 25 rpm
2) and applications with high duty cycle and dynamic
3) **Bold printed** = preferred program
4) Weight is valid for i=19,3 und i=27,0
5) Weight is valid for i=27,0
6) On request

Design



S = Variant Short, output flange with one centering seat



L = Variant Long, output flange with two centering seats

Dimensions

Size GFB	Variant	D1	D2	D3	D4	D5 mm	L1	L2	L3	L4	L5	L6	L7
8110 E	L	179	250	280	12x ø18	175	126	313	439	10	144	3	33.5
8130 E	L	256	290	320	16x ø17.5	225/200	200	303.5	503.5	14	147.5	6	65/60
8130 E	S	250	305	340	16x ø17.5 24x ø17.5	-	57	436.5 446.5 485 [1]	493.5 503.5 542 [1]	51	20	-	-
8144 E	L	296	350	380	12x ø18	230	220	[2]	[2]	14	171	7	62.5
8146 F	L	280	350	380	20x ø17.5	250	245	367	612	12	34.5	5	90
8146 F	S	280	395	430	24x ø22	-	80	532 581	612 661	75	30	-	-
8150 E	L	300	375	410	20x ø17.5	250	245	340	645	20	47.5	-	92
8150 E	S	280	375	410	20x ø17.5		54	576	630	44	33	-	-
8150 E [3]	S	380	484	528	14x ø25	-	70	338 575 [4]	408 645 [4]	23	28	-	-
8195 E	S	460	520	562	24x ø26	-	85	857	942	40	536	-	-

X = The gears of the output shaft (modul, number of gear teeth, width of gear tooth, etc.) is governed by the customer´s ring gear.

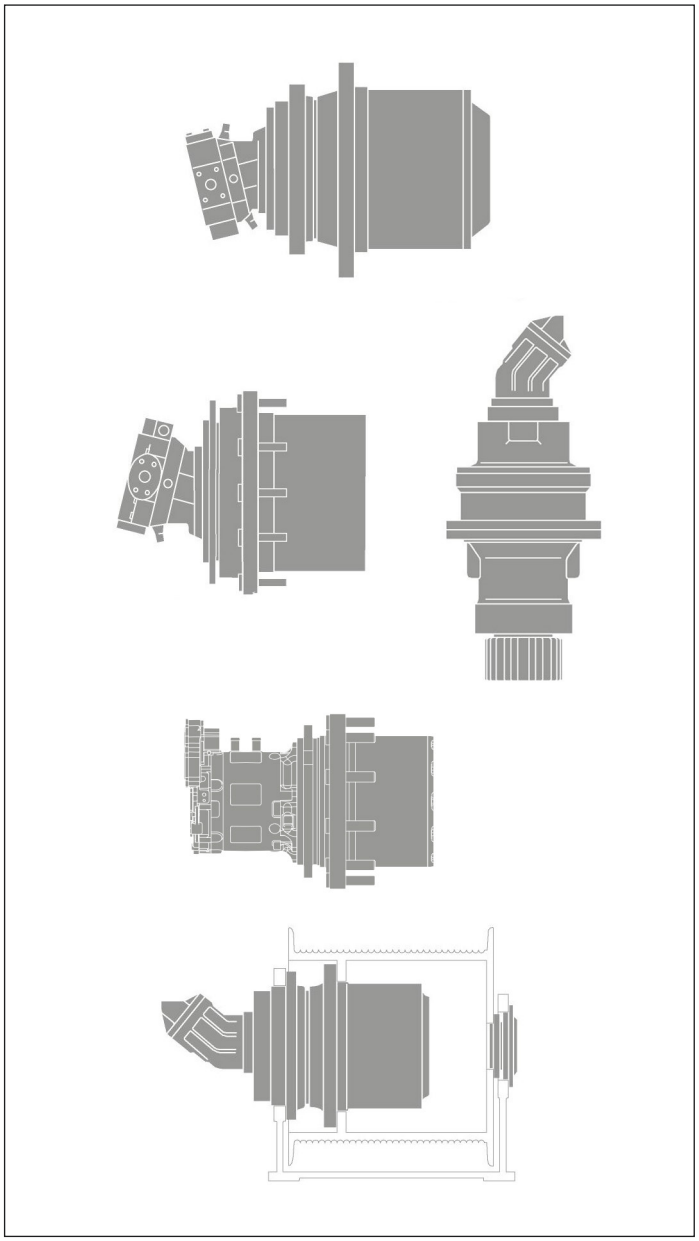
1) Length is valid for i=19,3

2) Sizes depending on motor nominal size

3) Dimensions variant S in combination with A31FD150/170

4) In combination with A2FE 107/125

Overview data sheets Gearbox Technology



Hydrostatic travel drives

- HYDROTRAC GFT, series 20, RE 77110
  Output torques from 160 to 620 kNm
- HYDROTRAC GFT 2160, series 20, RE 77125
  Output torque max. 42,5 kNm
- HYDROTRAC GFT 8000, series 20, RE 79099
  Output torques from 7 to 15 kNm
- HYDROTRAC GFT 8000, series 30, RE 77128
  Output torques from 20 to 30 kNm
- HYDROTRAC GFT 8000, series 40, RE 77117
  Output torques from 7 to 130 kNm
- HYDROTRAC GFT 8150 with TIS, RE 79093
  Output torque max. 42 kNm
- HYDROTRAC GFT 45 T2/T3, RE 77115
  Output torque max. 45 kNm
- HYDROTRAC GFT 34, series 20, RE 79062
  Output torque max. 34 kNm

Electromechanical travel drives

- ROTATRAC eGFT 8000, series 40, RE 79082
  Output torques from 15 to 42 kNm

Hydrostatic swing drives

- MOBILEX GFB, RE 77201
  Output torques from 4 to 68,3 kNm
- MOBILEX GFB 2160, series 20, RE 77208
  Output torque max. 14,5 kNm
- MOBILEX GFB 8000, series 40, RE 79058
  Output torques from 4,5 to 54 kNm

Hydrostatic winch gears

- MOBILEX GFT-W, RE 77502
  Output torques from 140 to 325 kNm
- MOBILEX GFW 5000, series 40, RE 77506
  Output torques from 7,5 to 105 kNm

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