Rexroth
Bosch Group

Compact Hydrostatic Drive HYDROTRAC GFT

for Fixed or Variable Displacement Motors

RE 77110 / 07.04 1/20
Replaces: 08.03

Gear Technology

Output torques from 7000 to 450000 Nm

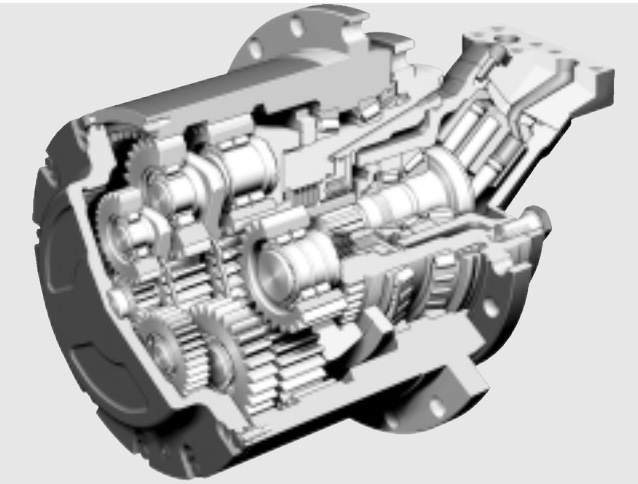
Contents

Special Features

- compact, space-saving planetary design
- full-complement planet gear bearing system
- robust main bearing system
- easy mounting
- comfortable oil changing
- integrated multiplate parking brake
- low-noise running characteristics
- many design variants

Description

Rexroth compact hydrostatic HYDROTRAC GFT drives are the ideal driving components for wheeled or track-laying vehicles and other mobile equipment. They are the perfect choice for every conceivable moving or turning application.
The drives are extremely compact and thus may also be installed in space-critical mounting configurations. The drives' load capacity and availability is extraordinary thanks to the use of case-hardened gearwheels as well as quenched and tempered, surface-hardened annulus gears.
The gearteeth design reflects both standard requirements and in-house operating strength calculations based on our comprehensive know-how and optimally adapted to our modern fabrication processes.



Three-stage compact hydrostatic drive
Rexroth HYDROTRAC GFT
with multiplate parking brake and Rexroth plug-type motor

The drives feature maximum total efficiency ratings which, inter alia, is due to the use of Rexroth plug-type motors.
The drives described in this bulletin are constantly reviewed and advanced. Other design variants with deviating transmission, dimensions and power characteristics are available if so requested for specific applications.

Gearbox Design

Gearbox design is based on long years of experience and reflects not only the customary standard design regulations but also satisfies operational strength requirements as per DIN 3990, ISO 6336, AGMA, GL or DNV. The output torque values indicated are short-term admissible peak torques meant for excavator travel drive applications. For other applications deviating output torques differing from those specified may apply to the respective gearbox. Even in the project stage we are prepared to offer application-specific consultation to customers aimed at finding the optimum drive configuration.

Hydraulic Motors

Rexroth hydraulic motors are preferably integrated in a space-saving manner as flanged-on fixed or variable displacement units plugged into the gearbox.

Multiplate Parking Brake

As a standard supply feature a spring-loaded hydraulically released multiplate parking brake is arranged on the input end of the gearbox. The parking torque of the brake will suit the respective motor torque.

Disconnecting Device

If requested, some of the drive systems may also be provided with a mechanical disconnecting device so that, if time is of essence, the equipment can be towed without damaging the hydraulic system.

Sealing System

An axial mechanical seal is mounted between the stationary and rotating gearbox sections. This prevents moisture and dirt from entering the drive even under extreme operating conditions. Gearbox model GFT 7 is also available with a cartridge seal or shaft seal ring to suit individual application needs.

Oil Changes

Save for regular oil changes the drives do not require maintenance. Oil changes may conveniently be made from the outside. Recommendations as to lube oils are given in the operating manual.

Design Variants

Model designations 1000 - 9000 indicate basic size and design variants that are readily available to our customers. To suit specific application requirements other models can also be furnished upon request. Depending on currently furnished units and transmission ratios many drives are available on preferential terms offering favorable prices and improved delivery times. If you are interested, please let us know.
To suit the required ratio the garboxes are of two- (T2) or three-stage (T3) design. If so requested, gear models 330 and 450 may be provided with an additional preliminary stage and in that case will be of four-stage design (T4).

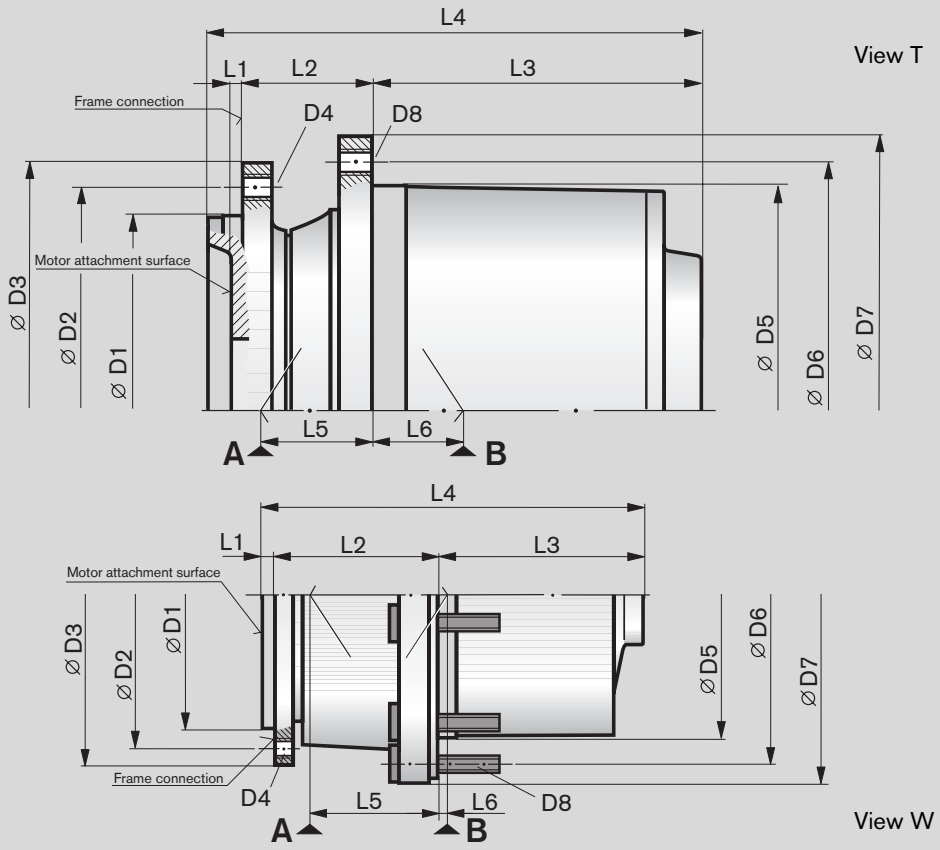
Compact Hydrostatic Drives HYDROTRAC GFT in summary

Type/Design Variant GFT	Output Torque $T_{2\,max}$ Nm	Ratio i
GFT 0007 T2	7000	30.9 - 62.6
GFT 0009 T2	9500	25.1 - 55.3
GFT 0013 T2	13000	16.3 - 37.6
GFT 0017 T2	17000	26.4 - 54.0
GFT 0017 T3	17000	77.9 - 102.6
GFT 0024 T3	24000	90.1 - 137.2
GFT 0026 T2	26000	42.9 - 62.0
GFT 0028 T3	28000	64.3 - 79.3
GFT 0034 T2	34000	42.9 - 50.5
GFT 0036 T3	36000	66.9 - 161.0
GFT 0040 T2	40000	35.9 - 59.1
GFT 0050 T3	50000	73.9 - 146.4
GFT 0060 T2	60000	23.0
GFT 0060 T3	60000	94.8 - 197.0
GFT 0080 T3	80000	76.7 - 185.4
GFT 0110 T3	110000	95.8 - 215.0
GFT 0160 T3	160000	161.8 - 251.0
GFT 0220 T3	220000	188.9 - 365.0
GFT 0330 T3	330000	168.9 - 302.4
GFT 0450 T4	450000	320.3 - 421.7

For information on our currently available compact hydrostatic HYDROTRAC GFT drives please visit www.boschrexroth.com/gears

Should you need a special driving solution deviating from our standard product range please let us know. Differently sized units and additional design variants can be furnished if so requested.

Dimensions



Technical Data

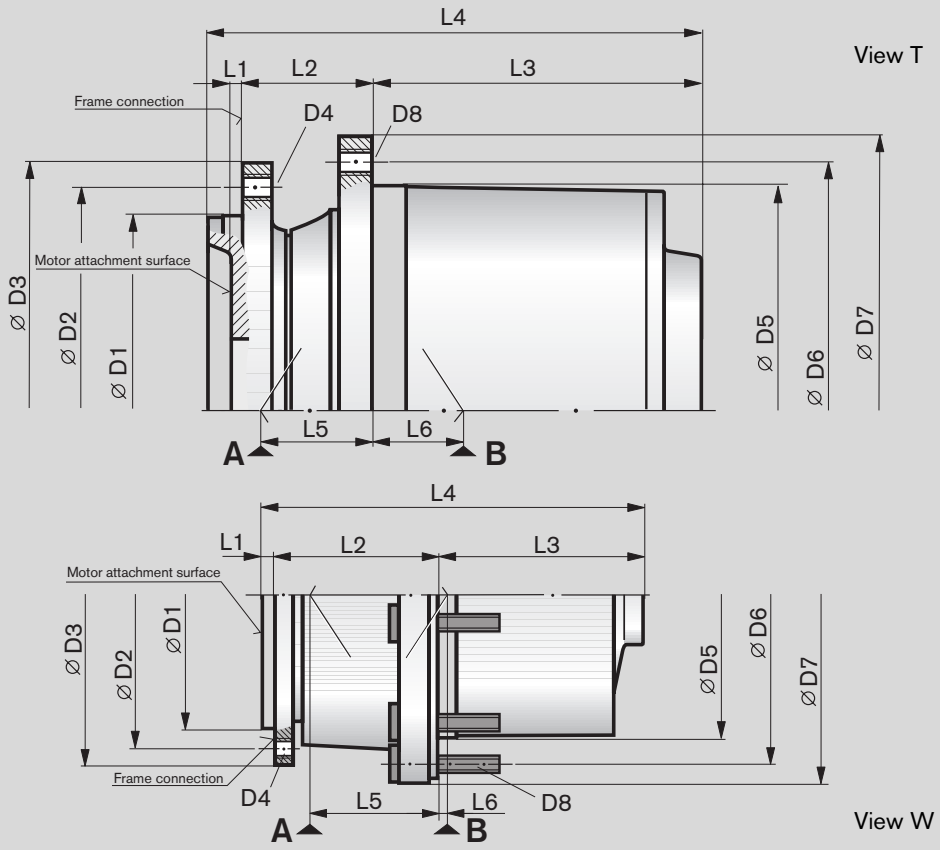
Type/Design Variant GFT	Output Torque $T_{max.}$	Ratio i	Braking Torque $T_{Br\ max.}$	Hydraulic Motor
	Nm		Nm	
GFT 0007 T2 6000	7000	30.9 • 35.8 • 43.0 • 51.0 • 62.6	225	A10VM 28 • 45
GFT 0007 T2 7000/1 • 7000/2	7000	30.9 • 35.8 • 43.0	225	A10VM 28 • 45
GFT 0007 T2 9000	7000	30.9 • 35.8 • 43.0 • 51.0 • 62.6	-	A10VM 28 • 45
GFT 0009 T2 8000	9000	38.3 • 47.6	215	A10VE 45
GFT 0013 T2 4000/1	13000	16.3 • 22.6 • 32.1 • 37.6	400	A6VE 55
GFT 0013 T2 4000/2	13000	16.3 • 22.6 • 32.1 • 37.6	400	A10VE 63
GFT 0013 T2 7000/1	13000	42.7 • 60.2	350	A10VE 45
GFT 0013 T2 7000/2	13000	42.7 • 60.2	350	A6VE 55/A2FE 45 • 56
GFT 0017 T2 2000	17000	26.4 • 32.1 • 37.6 • 45.4	450	A6VE 55/A2FE 45 • 56 • 63
GFT 0017 T2 3000/1	17000	54.0	350	A6VE 55
GFT 0017 T2 3000/2	17000	54.0	350	A10VE 63/A2FE 45 • 56 • 63
GFT 0017 T3 1000/1	17000	77.9 • 88.2 • 102.6	250	A6VE 28/A2FE 28 • 32
GFT 0017 T3 1000/2 • 1000/3	17000	77.9 • 88.2 • 102.6	250	A10VE 45
GFT 0017 T3 2000	17000	77.9 • 88.2 • 102.6	250	A6VE 55/A2FE 45 • 56
GFT 0017 T3 7000	17000	92.5	200	A10VE 45
GFT 0017 T3 9000/2 SL • 9000/3 SL	17000	77.9 • 88.2 • 102.6	-	A6VE 28/A2FE 28 • 32

Dimensions, Bearing Load Ratings and Weights

Type/Design Variant GFT	D1	D2	D3	D4	D5	D6	D7	D8
				mm				
GFT 0007 T2 6000	178	209.5	240	6x 5/8in-11UNC-2B	200.2	241.3	280	9x 5/8in-18UNF-2A
GFT 0007 T2 7000/1	178	209.5	240	6x 5/8in-11UNC-2B	200.2	241.3	280	9x M12
GFT 0007 T2 7000/2	178	209.5	240	6x 5/8in-11UNC-2B	200.2	241.3	280	9x 5/8in-18UNF-2A
GFT 0007 T2 9000	178	209.5	240	6x 5/8in-11UNC-2B	200.2	241.3	280	9x 5/8in-18UNF-2A
GFT 0009 T2 8000	190	230	268	12x M16	230	260	284	8x M16
GFT 0013 T2 4000/1	240	275	300	18x M16	270	305	335	16x M16
GFT 0013 T2 4000/2	240	275	300	18x M16	270	305	335	16x M16
GFT 0013 T2 7000/1	203	241.3	268	8x 5/8in-11UNC-2B	279.7	334.95	370	10x 3/4in-16UNF-2A
GFT 0013 T2 7000/2	240	275	300	16x M16	279.7	334.95	370	10x 3/4in-16UNF-2A
GFT 0017 T2 2000	250	290	320	16x M20	280	305	330	16x M16
GFT 0017 T2 3000/1	250	290	320	16x M20	280	305	330	16x M16
GFT 0017 T2 3000/2	250	290	320	16x M20	280	305	330	16x M16
GFT 0017 T3 1000/1	240	275	300	18x M16	270	305	330	16x M16
GFT 0017 T3 1000/2	240	275	300	18x M16	270	305	330	16x M16
GFT 0017 T3 1000/3	240	275	300	18x M16	270	305	330	16x M16
GFT 0017 T3 2000	250	290	320	16x M20	280	305	330	16x M16
GFT 0017 T3 7000	203.2	241.3	268	8x 5/8in-11UNC-2B	280	334.95	370	10x 3/4in-16UNF-2A
GFT 0017 T3 9000/2 SL	240	275	310	12x M16	260	300	335	10x M22x1.5
GFT 0017 T3 9000/3 SL	250	305	330	18x M16 (S)	260	300	335	10x M22x1.5

Type/Design Variant GFT	L1	L2	L3	L4	L5	L6	A + B C	A + B Co	Weight	View
				mm			kN		kg	
GFT 0007 T2 6000	10	106	109	225	84	2	194	325	45	W
GFT 0007 T2 7000/1	10	106	109	225	84	2	194	325	45	T
GFT 0007 T2 7000/2	10	106	109	225	84	2	194	325	45	W
GFT 0007 T2 9000	10	106	109	225	84	2	194	325	45	W
GFT 0009 T2 8000	12	60	156	228	18	64	132	255	67	T
GFT 0013 T2 4000/1	8	75	149	232	49	54	140	290	85	T
GFT 0013 T2 4000/2	30	75	149	254	49	54	140	290	85	T
GFT 0013 T2 7000/1	36	104	153	292.5	64	39	140	290	92	W
GFT 0013 T2 7000/2	44	90	153	286.5	64	39	140	290	92	W
GFT 0017 T2 2000	30	82	152	264	78	69	108	142	90	T
GFT 0017 T2 3000/1	8	82	152	242	78	69	108	142	90	T
GFT 0017 T2 3000/2	30	82	152	264	78	69	108	142	90	T
GFT 0017 T3 1000/1	27	75	181	283	71	76	108	142	97.5	T
GFT 0017 T3 1000/2	8	75	181	272	71	76	108	142	95	T
GFT 0017 T3 1000/3	43	75	181	299	71	76	108	142	95	T
GFT 0017 T3 2000	30	82	174	286	78	69	108	142	100	T
GFT 0017 T3 7000	36	104	184.5	324.5	64	39	140	290	105	W
GFT 0017 T3 9000/2 SL	5	75	184	267	49	54	140	290	95	W
GFT 0017 T3 9000/3 SL	8	75	184	267	49	54	140	290	95	T

Dimensions



Technical Data

Type/Design Variant GFT	Output Torque $T_{max.}$	Ratio i	Braking Torque $T_{Br\ max.}$	Hydraulic Motor
	Nm		Nm	
GFT 0024 T3 1000	24000	90.1 • 102.6 • 120.5 • 137.2	300	A6VE 55/A2FE 45 • 56 • 63
GFT 0024 T3 9000/4	24000	90.1 • 102.6 • 120.5 • 137.2	300	A6VE 55/A2FE 45 • 56 • 63
GFT 0026 T2 1000/1	26000	42.9 • 50.5 • 62.0	715	A6VE 55/A2FE 45 • 56 • 63
GFT 0026 T2 1000/2 • 9000	26000	42.9 • 50.5 • 62.0	715	A6VE 80/A2FE 80 • 90
GFT 0028 T3 9000/3 • 9000/4	28000	64.3 • 72.7 • 79.3	440	A6VE 80
GFT 0034 T2 4000	34000	42.9 • 50.5	-	A6VE 107/A2FE 107 • 125
GFT 0036 T3 3000/1	36000	66.9 • 79.3 • 99.1 • 115.0 • 138.8	715	A6VE 55/A2FE 45 • 56 • 63
GFT 0036 T3 3000/2	36000	66.9 • 79.3 • 99.1 • 115.0 • 138.8	715	A6VE 80/A2FE 80 • 90
GFT 0040 T2 1000 • 1000 SL	40000	35.9 • 41.0 • 48.3 • 59.1	800	A6VE 80 • 107/A2FE 80 • 90
GFT 0040 T2 2000 SL	40000	35.9 • 41.0 • 48.3 • 59.1	800	A6VE 107/A2FE 107 • 125
GFT 0040 T2 9000/1 • 9000/2	40000	35.9 • 41.0 • 48.3 • 59.1	800	A6VE 107 • 160/A2FE 107 • 125

Dimensions, Bearing Load Ratings and Weights

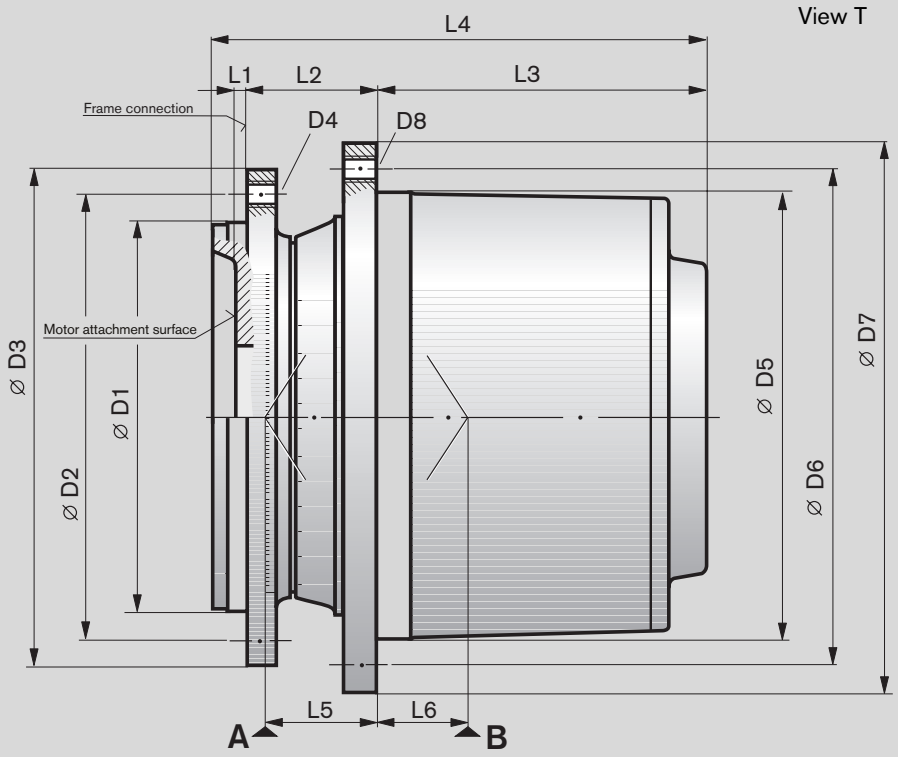
Type/Design Variant GFT	D1	D2	D3	D4	D5	D6	D7	D8
					mm			
GFT 0024 T3 1000	240	285	320	20x M20	280	305	330	20x M16
GFT 0024 T3 9000/4	270	310	340	16x M20	320	350	375	20x M16
GFT 0026 T2 1000/1	270	310	350	16x M20	320	350	380	20x M16
GFT 0026 T2 1000/2	270	310	350	16x M20	320	350	380	20x M16
GFT 0026 T2 9000	290	325	352	16x M18	355	370	405	24x M18
GFT 0028 T3 9000/3	330	370	400	16x M20	365	405	435	22x M16
GFT 0028 T3 9000/4	330	370	400	16x M20	286	330	355	20x M16
GFT 0034 T2 4000	410	380	420	20x ø18	325	381	420	12x M22x1.5
GFT 0036 T3 3000/1	270	310	350	16x M20	320	350	380	20x M16x1.5
GFT 0036 T3 3000/2	270	310	350	16x M20	320	350	380	20x M16x1.5
GFT 0040 T2 1000	270	310	350	16x M20	350	400	440	16x M20
GFT 0040 T2 1000 SL	270	310	350	16x M20	350	400	440	16x M20
GFT 0040 T2 2000 SL	330	370	410	20x M20	360	400	440	16x A20 **
GFT 0040 T2 9000/1	330	370	410	20x M20	360	400	440	16x M20
GFT 0040 T2 9000/2	380	425	460	20x M20	420	470	510	24x M20

Type/Design Variant GFT	L1	L2	L3	L4	L5	L6	A + B C	A + B Co	Weight	View
			mm				kN		kg	
GFT 0024 T3 1000	30	82	189.5	301.5	56	47	140	290	105	T
GFT 0024 T3 9000/4	30	90	181.5	301.5	64	39	140	290	110	T
GFT 0026 T2 1000/1	20	90	220	330	58	50	186	400	145	T
GFT 0026 T2 1000/2	30	90	220	340	58	50	186	400	150	T
GFT 0026 T2 9000	33	80	227	340	51	57	186	400	155	T
GFT 0028 T3 9000/3	18	100.5	208	326.5	39.5	62	140	290	140	T
GFT 0028 T3 9000/4	18	120	188.5	326.5	59	42	140	290	140	T
GFT 0034 T2 4000	12	151	226	389	60	62	399	806	170	W
GFT 0036 T3 3000/1	43	90	210 *	333	56.5	57	170	405	165	T
GFT 0036 T3 3000/2	10	90	210 *	300	56.5	57	170	405	170	T
GFT 0040 T2 1000	39.5	82	243	364.5	57	54	212	425	205	T
GFT 0040 T2 1000 SL	15	82	279.5	376.5	45.5	80	A 393	A 881	205	T
GFT 0040 T2 2000 SL	25	114	237.5	376.5	87	38	B 473	B 895	210	W
GFT 0040 T2 9000/1	25	90	261.5	376.5	38	73	212	425	210	T
GFT 0040 T2 9000/2	18	111	253	381.5	47	64	212	425	215	T

*L3 = 200 at i = 99.1/115/138.8

** Wheel nut A20 DIN 74361-8

Dimensions



Technical Data

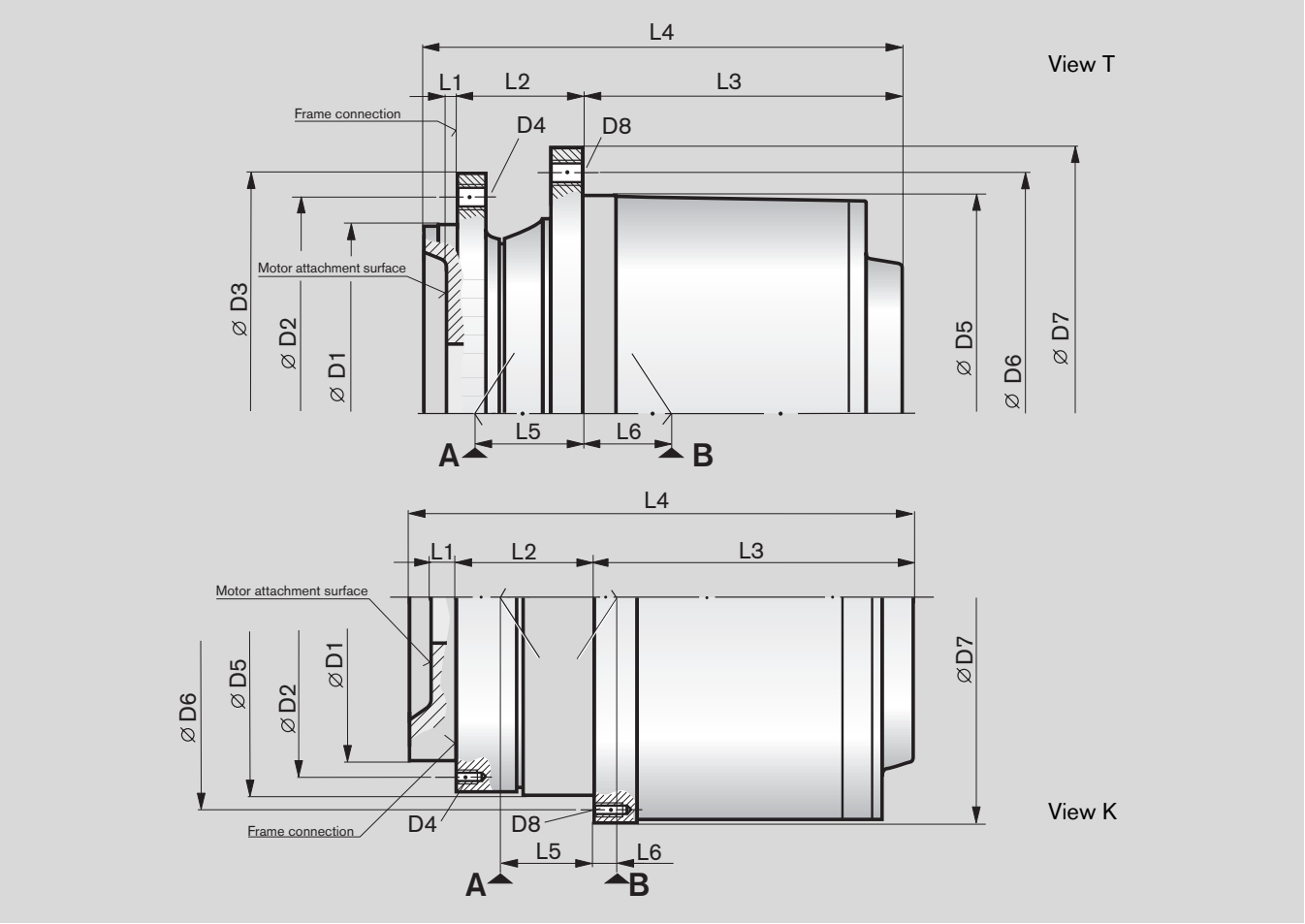
Type/Design Variant GFT	Output Torque $T_{max.}$	Ratio i	Braking Torque $T_{Br\ max.}$	Hydraulic Motor
	Nm		Nm	
GFT 0050 T3 1000/1	50000		800	A6VE 80 • 107/A2FE 80 • 90
GFT 0050 T3 1000/2	50000		800	A6VE 55/A2FE 45 • 56 • 63
GFT 0050 T3 1000/3	50000		800	A6VE 80 • 107/A2FE 80 • 90
GFT 0050 T3 3000	50000	66.3 • 73.9 • 84.2 • 91.1 • 99.8 • 125.7 • 146.4	800	A6VE 80 • 107/ A2FE 80 • 90 • 107 • 125
GFT 0050 T3 9000 SL • 9000/1	50000		800	A6VE 80 • 107/A2FE 80 • 90
GFT 0050 T3 9000/2	50000		800	A6VE 107/A2FE 107 • 125
GFT 0050 T3 9000/3	50000		800	A6VE 80 • 107/A2FE 80 • 90
GFT 0060 T2 7000	60000	23,0	1475	A6VM 200
GFT 0060 T3 3000/1	60000	94.8 • 105.5 • 119.8 • 139.9 • 169.9	725	A6VE 80 • 107/ A2FE 80 • 90
GFT 0060 T3 5000 • 7000/1	60000	94.8 • 105.5 • 119.8 • 139.9 • 169.9	725	A6VE 80 • 107/A2FE 80 • 90
GFT 0060 T3 7000/2	60000	94.8 • 105.5 • 119.8 • 139.9 • 169.9	725	A6VE 107/A2FE 107 • 125
GFT 0060 T3 9000	60000	94.8 • 105.5 • 119.8 • 139.9 • 169.9	725	A6VE 80 • 107/A2FE 80 • 90
GFT 0080 T3 1000 • 2000 • 9000	80000	76.7 • 99.0 • 110.9 • 126.9 • 149.9 • 185.4	1025	A6VE 107 • 160/ A2FE 107 • 125 • 160 • 180
GFT 0110 T3 1000 • 9000/1	110000	95.8 • 114.8 • 128.6 • 147.2 • 173.9 • 215.0	1025	A6VE 107 • 160/ A2FE 107 • 125 • 160 • 180
GFT 0110 T3 9000/3 SL	110000	95.8 • 114.8 • 128.6 • 147.2 • 173.9 • 215.0	1100	A6VE 107 • 160/ A2FE 107 • 125 • 160 • 180

Technical Data, Bearing Load Ratings and Weights

Type/Design Variant GFT	D1	D2	D3	D4	D5	D6	D7	D8
					mm			
GFT 0050 T3 1000/1	270	310	350	20x M20x1.5	350	400	430	16x M20x1.5
GFT 0050 T3 1000/2	270	310	350	16x M20	350	400	430	16x M20x1.5
GFT 0050 T3 1000/3	270	310	350	16x M20	350	400	430	16x M20x1.5
GFT 0050 T3 3000	330	370	410	20x M20	360	400	440	16x M20
GFT 0050 T3 9000 SL	270	310	350	16x M20	350	400	440	16x M20
GFT 0050 T3 9000/1	330	370	408	16x M20	365	405	435	22x M16
GFT 0050 T3 9000/2	330	370	410	20x M20	360	400	440	16x M20
GFT 0050 T3 9000/3	270	310	350	16x M20	350	400	430	16x M20x1.5
GFT 0060 T2 7000	330	370	410	20x M20x1.5	400	450	490	20x M20x1.5
GFT 0060 T3 3000/1	330	370	410	20x M20x1.5	370	410	450	20x M20
GFT 0060 T3 5000	350	400	445	24x M24x2	375	425	466	24x M24x2
GFT 0060 T3 7000/1	330	370	410	20x M20x1.5	400	450	490	20x M20x1.5
GFT 0060 T3 7000/2	330	370	410	20x M20x1.5	400	450	490	20x M20x1.5
GFT 0060 T3 9000	340	380	417	20x M20	450	490	529	18x M20
GFT 0080 T3 1000	420	460	500	24x M20	460	510	550	24x M20
GFT 0080 T3 2000	380	430	480	20x M24	430	480	520	20x M24
GFT 0080 T3 9000	380	430	480	20x M24	515	566	614	16x M24
GFT 0110 T3 1000	420	460	500	24x M24	460	500	540	36x M18x1.5
GFT 0110 T3 9000/1	380	430	480	20x M24	515	566	614	16x M24
GFT 0110 T3 9000/3 SL	460	520	570	24x M30	460	500	540	36x M18x1.5

Type/Design Variant GFT	L1	L2	L3	L4	L5	L6	A + B C	A + B Co	Weight	View
			mm				kN		kg	
GFT 0050 T3 1000/1	40	82	282	403	56.5	54	212	425	220	T
GFT 0050 T3 1000/2	20	82	281.5	383.5	56.5	54	212	425	220	T
GFT 0050 T3 1000/3	40	82	282	403	56.5	54	212	425	220	T
GFT 0050 T3 3000	25	114	276	415	62	48	212	425	220	T
GFT 0050 T3 9000 SL	15	82	318	415	45.5	80	393	895	220	T
GFT 0050 T3 9000/1	25	100.5	277.5	403	60.5	50	212	425	220	T
GFT 0050 T3 9000/2	25	90	300	415	38	73	212	425	220	T
GFT 0050 T3 9000/3	20	82	282	383.5	56.5	54	212	425	220	T
GFT 0060 T2 7000	20	90	276	386	55	62	250	520	205	T
GFT 0060 T3 3000/1	-11	114	284	423	79	38	250	520	230	T
GFT 0060 T3 5000	3	130	254	409	109	8	250	520	240	T
GFT 0060 T3 7000/1	-11	90	308	423	55	62	250	520	240	T
GFT 0060 T3 7000/2	-9	90	308	418	55	62	250	520	240	T
GFT 0060 T3 9000	-12	102	297	419	66	51	250	520	260	T
GFT 0080 T3 1000	0	165	300	486.5	108	25	A 509 B 480	A 1080 B 950	370	T
GFT 0080 T3 2000	22	148	295	465	112	18			350	T
GFT 0080 T3 9000	22	120	323	465	85	48			405	T
GFT 0110 T3 1000	0	165	305	491.5	107	25	A 509 B 480	A 1080 B 950	395	T
GFT 0110 T3 9000/1	22	120	328	470	85	48			410	T
GFT 0110 T3 9000/3 SL	45	170	314.5	529.5	155	35	710	1560	505	T

Dimensions



Technical Data

Type/Design Variant GFT	Output Torque $T_{max.}$ Nm	Ratio i	Braking Torque $T_{Br\ max.}$ Nm	Hydraulic Motor
GFT 0160 T3 1000 • 9000	160000	161.8 • 210.8 • 251.0	1020	A6VE 107 • 160/ A2FE 107 • 125 • 160 • 180
GFT 0220 T3 2000 • 9000 SL • 9000/1	220000	188.9 • 246.1 • 293.0 • 365.0	1100	A6VE 107 • 160/ A2FE 107 • 125 • 160 • 180
GFT 0220 T3 9000/2	220000	97.7 • 145.4	0	A6VM 355
GFT 0220 T3 9000/3	220000	97.7 • 145.4	1400	A6VM 200
GFT 0220 T3 9000/4	220000	188.9 • 246.1 • 293.0 • 365.0	1100	A6VE 107 • 160/ A2FE 107 • 125 • 160 • 180
GFT 0330 T3 2000 • 3000/1	330000	168.9 • 209.9 • 252.0 • 302.4	2500	A2FE 355
GFT 0330 T3 3000/2	330000	168.9 • 209.9 • 252.0 • 302.4	2500	A6VE 250/A2FE 250
GFT 0330 T3 9000/1	330000	168.9 • 209.9 • 252.0 • 302.4	2500	A2FE 355
GFT 0330 T3 9000/2	330000	168.9 • 209.9 • 252.0 • 302.4	2500	A6VE 250 • A2FE 250
GFT 0330 T4 3000	330000	451.7 • 839.4 • 1008.0 • 1209.7	625	A6VE 107 • 160/ A2FE 107 • 160 • 180
GFT 0450 T4 1000	450000	320.3 • 347.1 • 421.7	1450	A6VE 250/A2FE 250

Dimensions, Bearing Load Ratings and Weights

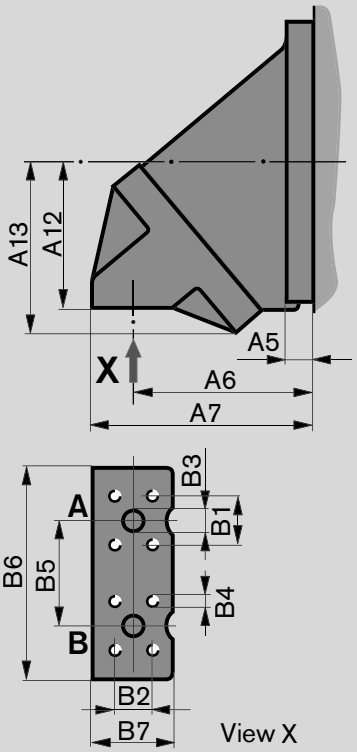
Type/Design Variant GFT	D1	D2	D3	D4	D5	D6	D7	D8
					mm			
GFT 0160 T3 1000	450	510	560	30x M24x2	535	600	650	30x M24x2
GFT 0160 T3 9000	450	510	560	20x M30	535	600	650	30x M24x2
GFT 0220 T3 2000	460	600	650	30x M30	610	680	735	24x M30
GFT 0220 T3 9000 SL	580	640/760	810	30x M30	615	680/800	850	30x M30
GFT 0220 T3 9000/1	460	520	570	24x M30	610	656	712	34x M24
GFT 0220 T3 9000/2	460	520	570	24x M30	610	680	735	24x ø33
GFT 0220 T3 9000/3	460	600	650	30x M30	610	680	735	24x M30
GFT 0220 T3 9000/4	425	485	545	30x M30x2	550	595	640	40x M27x2
GFT 0330 T3 2000	580	680	735	30x M30	660	730	785	30x M30
GFT 0330 T3 3000/1	580	680	735	30x M30	660	730	785	30x M30
GFT 0330 T3 3000/2	580	680	735	30x M30	660	730	785	30x M30
GFT 0330 T3 9000/1	450	515	568	32x M30x2	570	620	670	44x M24x2
GFT 0330 T3 9000/2	450	515	568	32x M30x2	570	620	670	44x M24x2
GFT 0330 T4 3000	580	680	735	30x M30	660	730	785	30x M30
GFT 0450 T4 1000	450	515	568	29x M36x3	570	620	670	42x M30x2

Type/Design Variant GFT	L1	L2	L3	L4	L5	L6	A + B C	A + B Co	Weight	View
			mm				kN		kg	
GFT 0160 T3 1000	30	168	340	538	138	26	688	1520	680	T
GFT 0160 T3 9000	30	168	340	538	138	26	688	1520	660	T
GFT 0220 T3 2000	45	170	350 [1)]	565	155	35	710	1560	830	T
GFT 0220 T3 9000 SL	40	240	405	685	160	53	1460	3150	1370	T
GFT 0220 T3 9000/1	45	170	350 [1)]	565	155	35	710	1560	830	T
GFT 0220 T3 9000/2	115	170	350	635	155	35	710	1560	830	T
GFT 0220 T3 9000/3	45	170	350	565	155	35	710	1560	830	T
GFT 0220 T3 9000/4	12	218	231 [2)]	598	150	20	710	1560	830	K
GFT 0330 T3 2000	150	125	400 [3)]	675	190	25	1040	2450	1250	T
GFT 0330 T3 3000/1	87	188	400 [3)]	675	190	25	1040	2450	1230	T
GFT 0330 T3 3000/2	47	188	400 [3)]	675	190	25	1040	2450	1230	T
GFT 0330 T3 9000/1	45	255	410 [4)]	710	180	35	1040	2450	1210	K
GFT 0330 T3 9000/2	-30	255	410 [4)]	710	180	35	1040	2450	1210	K
GFT 0330 T4 3000	87	188	400 [5)]	675	190	25	1040	2450	1320	T
GFT 0450 T4 1000	13	255	512	810	175	19	1040	2450	1240	K

[1)] L3 = 357 at i = 365:1
[2)] L3 = 238 at i = 365:1
[3)] L3 = 430 at i = 365:1
[4)] L3 = 440 at i = 252 - 302.4
[5)] L3 = 430 at i = 1008.0 - 1209.7

Hydraulic Motors: Dimensions and Weights

Fixed-displacement motor A2FE



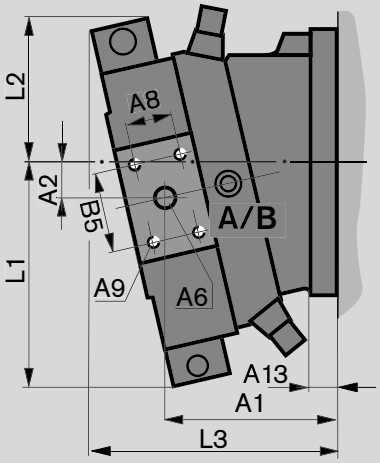
Nominal size	A5	A6	A7	A12	A13	B1	B2	B3	Weight
	mm								kg
28	16	94	114	91	106	40.5	18.2	13	10.5
32	16	94	114	91	106	40.5	18.2	13	10.5
45	18	109	133	102	119	50.8	23.8	19	15.0
56	18	122	146	107	130	50.8	23.8	19	18.0
63	18	122	146	107	130	50.8	23.8	19	19.0
80	20	127	157	121	145	57.2	27.8	25	23.0
90	20	127	157	121	145	57.2	27.8	25	25.0
107	20	143	178	136	157	66.7	31.8	32	34.0
125	20	143	178	136	157	66.7	31.8	32	36.0
160	20	169	211	149	188	66.7	31.8	32	47.0
180	20	169	211	149	188	66.7	31.8	32	48.0
250	25	*	230	*	172	*	*	*	*
355	30	183	231	148	199	66.7	31.8	32	110.0

Nominal size	B4	B5	B6	B7	A / B
		mm			
28 32	M8x15	59	115	40	SAE 1/2in
45	M10x17	75	147	49	SAE 3/4in
56 63	M10x17	75	147	49	SAE 3/4in
80 90	M12x17	84	166	60	SAE 1in
107 125	M14x19	99	194	70	SAE 1 1/4in
160 180	M14x19	99	194	70	SAE 1 1/4in
250	*	*	*	*	*
355	M14x22	120	*	*	SAE 1 1/4in

For further technical data see bulletin RE 91008

* dimensions to be indicated on request

Variable-displacement motor A6VE



Nominal size	A1	A2	A13	L1	L2	L3	Weight
	mm						kg
28	91	20	14	162	163	153	16
55	123	24	16	151	111	179	26
80	130	28	18	167	116	190	34
107	137	30	18	175	122	208	45
160	171	34	20	200	154	245	64
250	204	44	25	248	188	302	90

Nominal size	A6	A7	A8	A9	A / B
			mm		
28	19	50.8	23.8	M10x17	SAE 3/4in
55	19	50.8	23.8	M10x17	SAE 3/4in
80	25	57.2	27.8	M12x17	SAE 1in
107	25	57.2	27.8	M12x17	SAE 1in
160	32	66.7	31.8	M14x19	SAE 1 1/4in
250	32	66.7	31.8	M14x19	SAE 1 1/4in

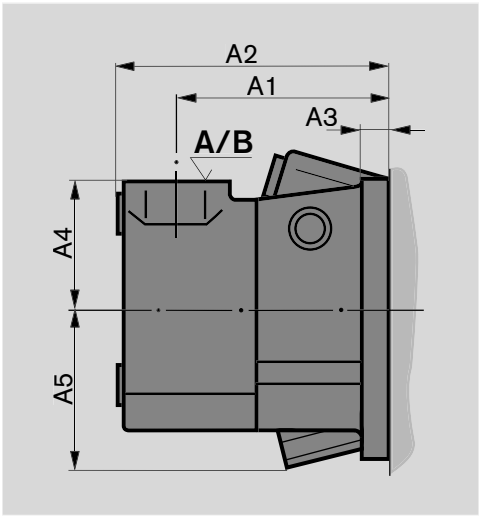
For further technical data see bulletin RE 91606

Hydraulic Motors: Dimensions and Weights

Variable-displacement motor A10VE

Nominal size	A1	A2	A3 mm	A4	A5	A / B	Weight kg
45	94	125	14	78	87	SAE 3/4in	18
63	111	154	18	101	93	SAE 3/4in	26

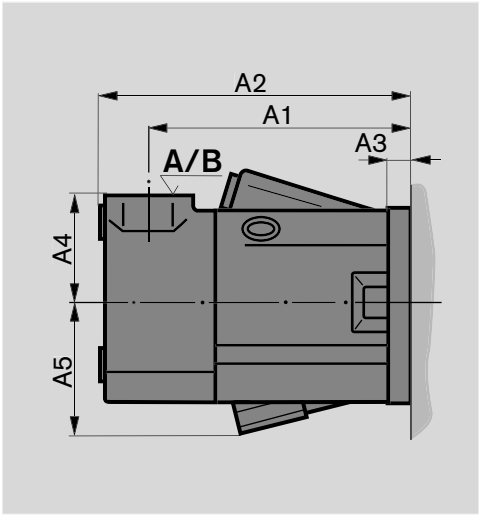
For further technical data see bulletin RE 91703



Variable-displacement motor A10VM

Nominal size	A1	A2	A3 mm	A4	A5	A / B	Weight kg
28	161	189	12	67.5	82.8	SAE 3/4in	14
45	175	200	12	78	87	SAE 3/4in	18

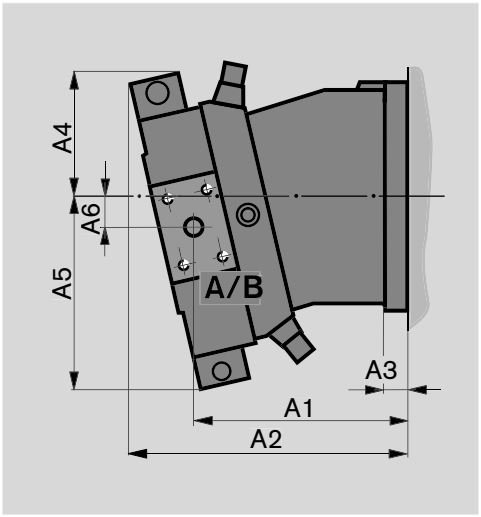
For further technical data see bulletin RE 91703



Variable-displacement motor A6VM

Nominal size	A1	A2	A3	A4	A5	A6	A / B	Weight kg
			mm					
200	267	345	32	143	209	36	SAE 1 1/4in	80
355	322	432	28	203	279	49	SAE 1 1/2in	170

For further technical data see bulletin RE 91604

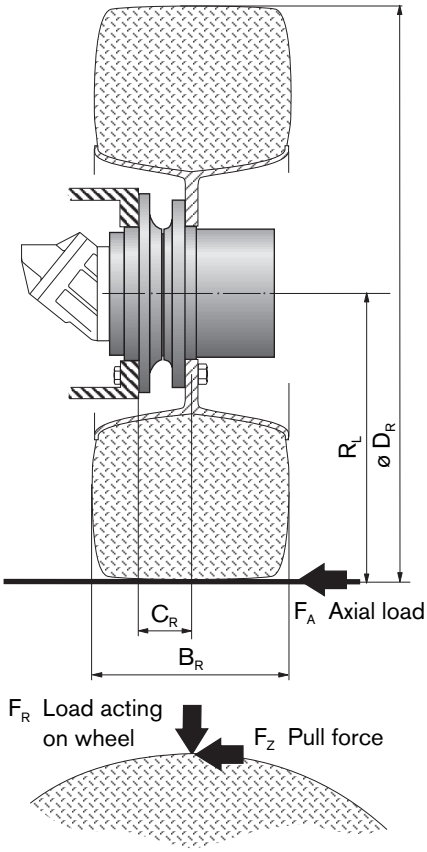


You wish to receive an offer for HYDROTRAC GFT as a wheel drive?

To be able to quote, we require the following data from you:
Fax No. +49 2302 877-148.

Please attach relevant drawings, sketches, notes etc.

Contact: _____
Company: _____
Location: _____
Fax: _____
Phone: _____



Wheel side view

Technical Data

Type of equipment			
Equipment weight	empty	_____ t	loaded _____ t
Number of driven wheels			
Total number of wheels		_____	
Rim size		_____	mm
Radial load	F_R	_____	N
Pull force	F_Z	_____	N
Axial load	F_A	_____	N
Wheel diameter	D_R	_____	mm
Wheel radius, loaded	R_L	_____	mm
Width of wheel	B_R	_____	mm
Mounting length	C_R	_____	mm
Max. output torque	T_2	_____	Nm
Max. travel speed	v_{max}	_____	km/h
Output speed	n_2	_____	rpm
Max. system pressure	p_S	_____	bar
Working pressure	Δp	_____	bar
Ratio	i	_____	
Gradient	s	_____	%
Multiplate parking brake	☐ yes	☐ no	
Fixed-displacement motor	☐ type	_____	
Variable-displacement motor	☐ type	_____	
Type of displacement		_____	
Brake valve	☐ yes	☐ no	

Planned annual demand _____
Expected implementation time _____
Special application conditions _____
Other client requirements _____
Must legal provisions and/or specifications be observed?
☐ yes ☐ no if affirmative, please specify _____

Remarks _____

Typical operating states:

State	Output torque (Nm)	Radial load (N)	Output speed (rpm)	Cycle duration (%)
1				
2				
3				
4				

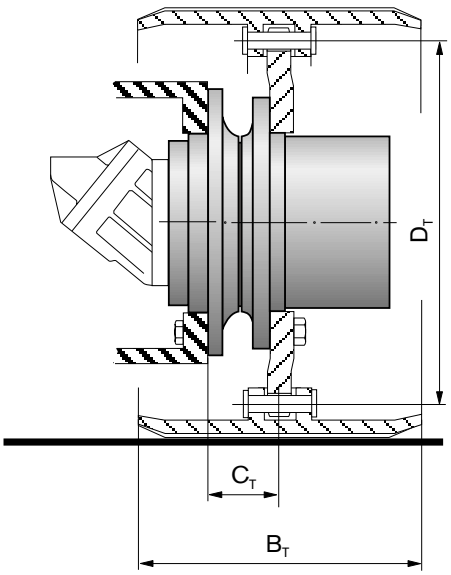
Date: _____ N _____ ame: _____ Dept.: _____

You wish to receive an offer for
HYDROTRAC GFT in a track-laying drive system?

To be able to quote, we require
the following data from you:
Fax No. +49 2302 877-148.

Please attach relevant drawings, sketches, notes etc.

Contact: _____
Company: _____
Location: _____
Fax: _____
Phone: _____



Technical Data

Type of equipment		
Equipment weight	empty _____ t	loaded _____ t
Required total pull force	_____	N
Track type	☐ Rubber track	☐ Steel track
Sprocket diameter	D_T _____	mm
Track width	B_T _____	mm
Radial load, lever arm	C_T _____	mm
Max. output torque	T_2 _____	Nm
Max. travel speed	v_{max} _____	km/h
Output speed	n_2 _____	rpm
Working pressure	Δp _____	bar
Max. system pressure, limited	p_S _____	bar
Ratio	i _____	
Multiplate parking brake	☐ yes	☐ no
Fixed-displacement motor	☐ type _____	
Variable-displacement motor	☐ type _____	
Type of displacement	_____	
Brake valve	☐ yes	☐ no

Planned annual demand _____
Expected implementation time _____
Special application conditions _____
Other client requirements _____
Must legal provisions and/or specifications be observed?
☐ yes ☐ no if affirmative, please specify _____

Remarks _____

Typical operating states:

State	Output torque (Nm)	Output speed (rpm)	Cycle duration (%)
1			
2			
3			
4			

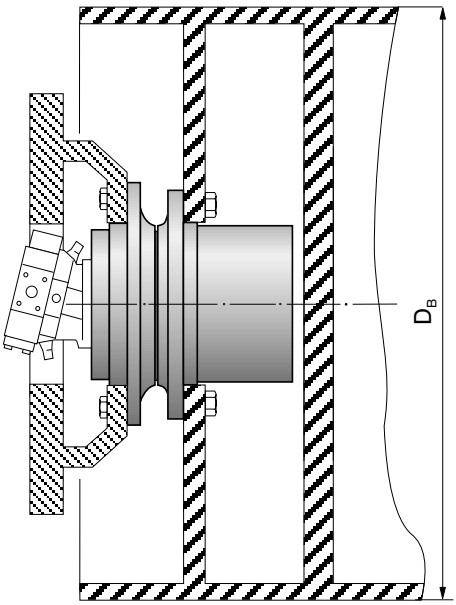
Date: _____ Name: _____ Dept.: _____

You wish to receive an offer for
HYDROTRAC GFT in a roller drive system?

To be able to quote, we require
the following data from you:
Fax No. +49 2302 877-148.

Please attach relevant drawings, sketches, notes etc.

Contact: _____
Company: _____
Location: _____
Fax: _____
Phone: _____



Technical Data

Type of equipment	☐ Tandem roller ☐ Road roller	
Equipment weight	_____	t
Total pull force required	_____	N
Drive for	☐ Tire ☐ Rear wheels	
Tire Tamping plate:	☐ with ☐ without	
Tire diameter	D_B _____	mm
Rear wheel diameter	D_R _____	mm
Weight distribution	front _____ t rear _____	t
Output torque, max., front	T_2 _____	Nm
Output torque, max., rear	T_2 _____	Nm
Travel speed, max.	v_{max} _____	km/h
Output speed	n_2 _____	rpm
Working pressure	Δp _____	bar
System pressure, max., limited	p_S _____	bar
Transmission ratio, tire drive	i _____	
Transmission ratio, rear wheels	i _____	
Gradeability	s _____	%
Multiplate parking brake	☐ yes ☐ no	

Fixed-displacement motor, front	☐ Type _____	Fixed-displacement motor, rear	☐ Type _____
Variable-displacem. motor, front	☐ Type _____	Variable-displacem. motor, rear	☐ Type _____
Type of displacement, front	_____	Type of displacement, rear	_____
Scavenger valve, front	☐ yes ☐ no	Scavenger valve, rear	☐ yes ☐ no

Planned annual demand _____
Expected implementation time _____
Special application conditions _____
Other client requirements _____
Must legal provisions and/or specifications be observed?
☐ yes ☐ no if affirmative, please specify _____

Remarks _____

Typical operating states:

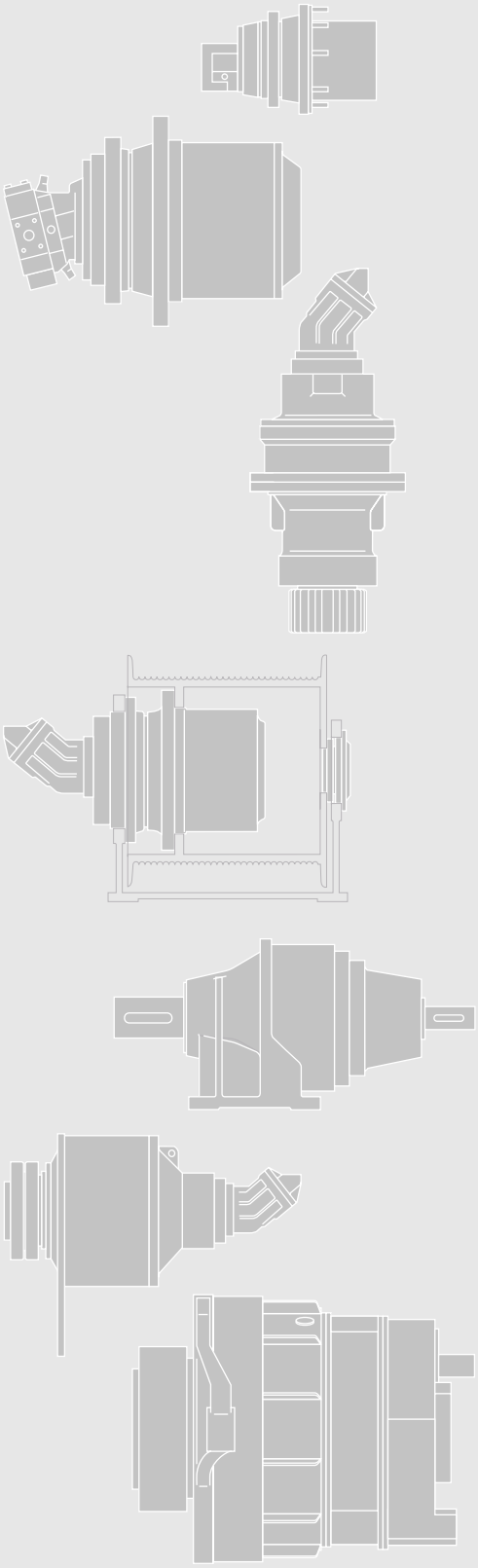
State	Output torque (Nm)	Output speed (rpm)	Cycle duration (%)
1			
2			
3			
4			

Date: _____ Name: _____ Dept.: _____

Notes

Notes

Range of Products
Product Unit Gear Technology



Planetary Gear Units for Mobile Equipment

Hydrostatic Travel Drives

- HYDROTRAC GFT
  for fixed- or variable-displacement motor
  output torques between 7 and 1100 kNm
  Technical Documentation RE 77110
- HYDROTRAC GFT
  with integrated hydraulic two-speed motor A10VT
  output torques between 7 and 40 kNm
  Technical Documentation RE 77111
- HYDROTRAC GFT
  for use on large tracklaying vehicles
  output torques up to 3250 kNm
  Upon request

Hydrostatic Swing Drives

- MOBILEX GFB
  for fixed- or variable-displacement motors
  output torques between 4 and 150 kNm
  Technical Documentation RE 77201
- MOBILEX GFB
  with swash-plate motor A10FD
  output torques between 5 and 10 kNm
  Technical Documentation RE 77204

Hydrostatic Winch Drives

- MOBILEX GFT – W
  for fixed- or variable-displacement motors
  output torques between 9.5 and 275 kNm
  Technical Documentation RE 77502

Planetary Gear Units for Stationary Equipment

- REDULUS GME
  compact planetary gearbox with user-oriented connection options for the input and output sides
  output torques up to 2000 kNm
  Upon request
- REDULUS GMH
  compact planetary gearbox with attached hydraulic motor
  output torques between 26.5 and 328 kNm
  Technical Documentation RE 76108

Gear Units for Wind Turbines

For more information see RE 76110

- Generator gear unit
  for wind turbines from 660 to 5000 kW
  Upon request
- Pitch and yaw gear units
  for rotor plate and yaw adjustment
  output torques T_{stat} between 3 and 110 kNm
  Technical Documentation RE 76111

Notes

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