



TRACK DRIVE



Introduction :

Cypla Transmissions Ltd. the leading manufacturers of Planetary and Cycloidal Drives in India, introduce Track Drives. These units are specifically designed for the transmissions of tracklaying vehicles and heavy duty machines in general.

Construction Features :

These drives consist of a planetary gear unit. The constructive solution of this unit is based on the design of planetary gears with rotating housings. Robustness, compactness, economy and versatility are the most significant features of this product. The compactly shaped, plug-in type hydraulic motor, preferably Rexroth make, will be directly flanged to the unit.

Technical Features:

- 1) The inherent compactness & high efficiency of the planetary gear have paved the way to its ever increasing employment in Track Drives.
- 2) Extra strong tapered roller bearings provide exceptionally high radial and axial load capability.
- 3) High torque capacity.
- 4) Very short overall length.
- 5) Long service life.
- 6) Applications to fit a wide range of Electric and Hydraulic motor.
- 7) Wide range of transmission ratios.
- 8) Maintenance free performance.

Design Features :

1) All the parts are designed and manufactured to high quality standards to perform under intended service. Output housing is made from cast steel that conforms to IS standards.

2) High torque capacity achieved by careful selection of materials, heat treatment and geometrical design of the gears calculated in accordance with ISO Standards.

3) All standard parts such as bearings, seals, hardware are procured directly from reputed manufacturers for genuiness and cost effectiveness.

4) The Planetary gears of these Track Drives units are also used in the Cypla Winches, the Slew Drives, so that the complete drives are of same construction and have common parts.

5) Output torques indicated are peak torques permissible for short-term operation only.

Applications:

- 1) Tracklayers
- 2) Heavy duty tyred machines
- 3) Rollers
- 4) Capstans
- 5) Winches

Essential Technical Data:

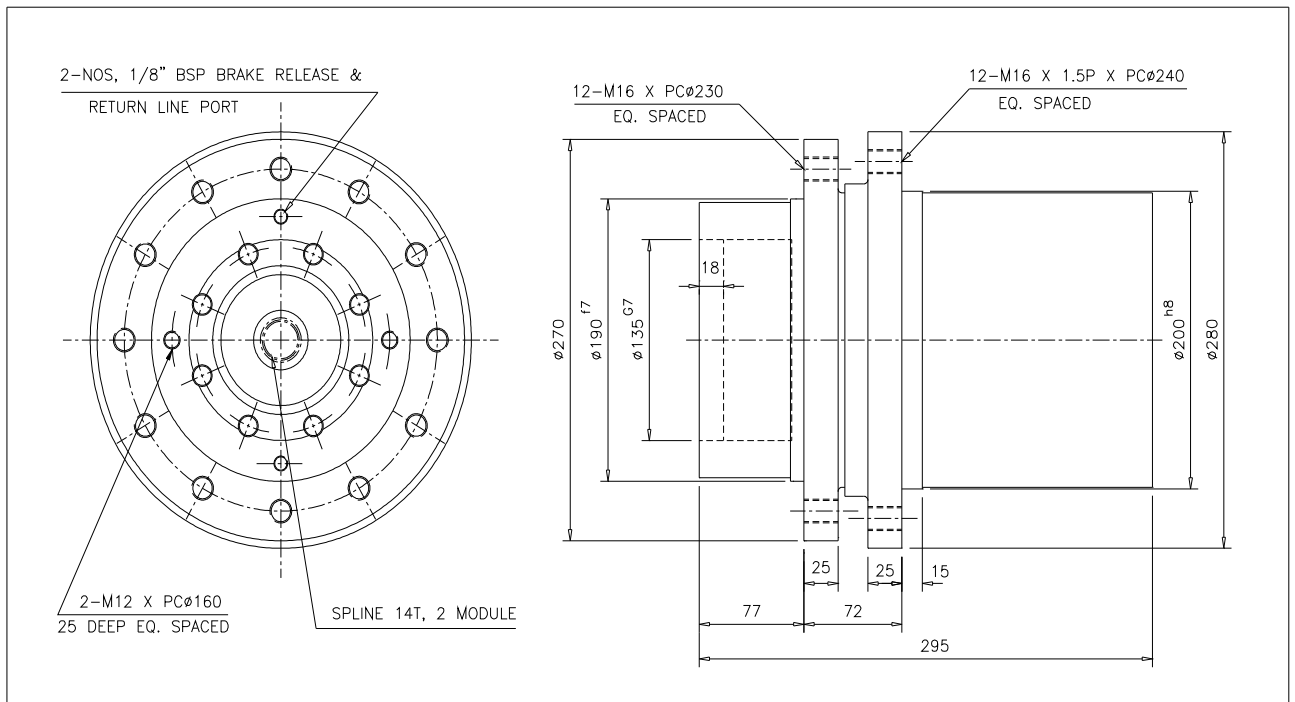
Enquiry Data:

The customer shall provide the following data while ordering the Track Drive.

Drive Motor	:	
Manufacture	:	
Type	:	
Power (P)	:	kW
Available flow (Q)	:	l /min.
Nominal pressure (DP _n)	:	bar
Maximum pressure (DP _m)	:	bar

TRACK DRIVE DETAILS

CT-002-1

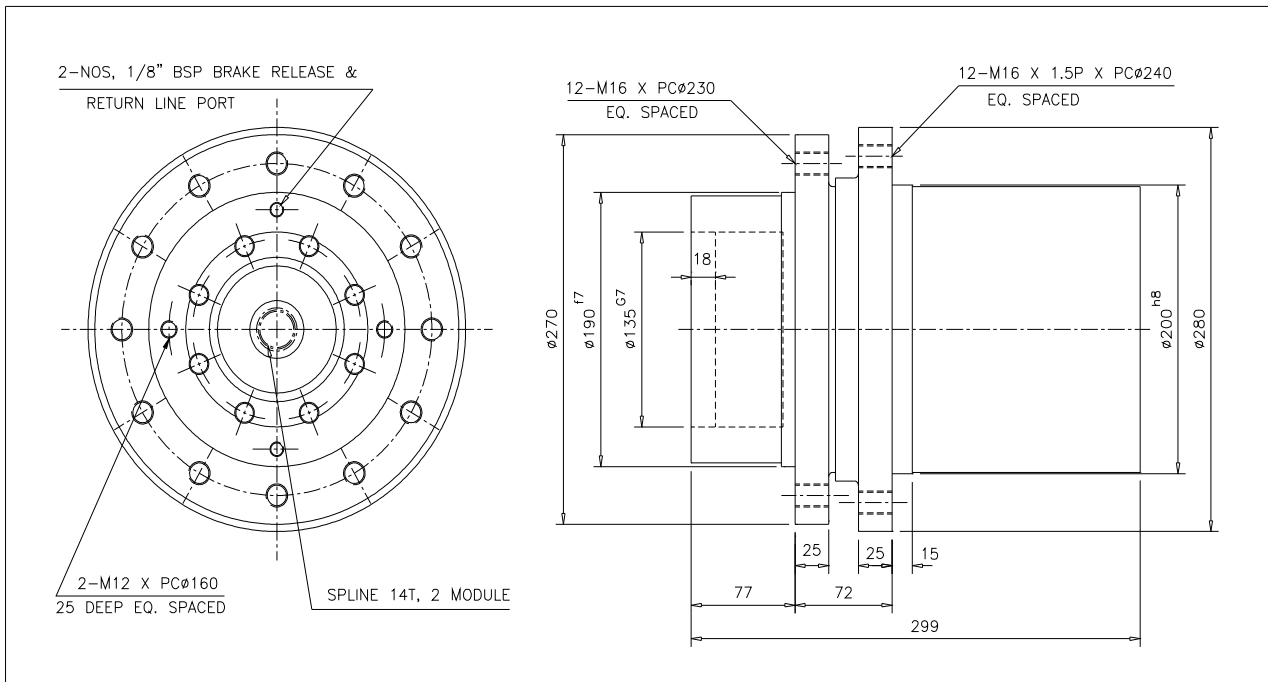


Hydraulic Motor make-Danfoss OMS 160

Transmission ratio	i		2.4	3	4
Motor displacement	V_g	cm ³	159.7	159.7	159.7
Max. torque of parking brake	T_{Br}	Nm	200	200	200
Total displacement	$V_{g\ total}$	cm ³ /rev	383	479	639
Motor speed	n_1	rpm	564	564	564
Output speed	n_2	rpm	235	188	141
Inlet flow rate at n_{max}	$q_{v\ max}$	l/min	90	90	90
Differential pressure	p	bar	225	225	197
Motor torque	$T_{1\ max}$	Nm	572	572	501
Output torque	$T_{2\ max}$	Nm	1373	1716	2000

TRACK DRIVE DETAILS

CT-004-1

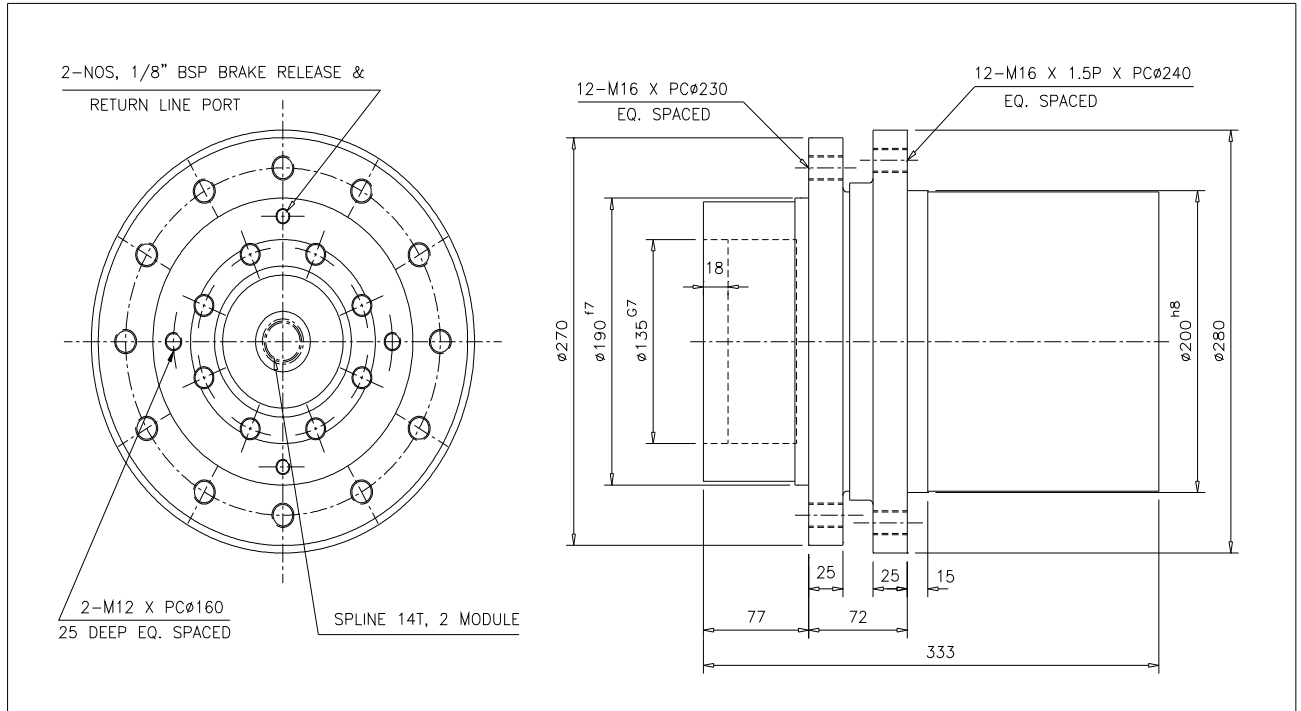


Hydraulic Motor make-Rexroth A2FE 32

Transmission ratio	i		3.07	3.48	3.82	4.44
Motor displacement	V_g	cm ³	32	32	32	32
Max. torque of parking brake	T_{Br}	Nm	200	200	200	200
Total displacement	$V_{g\ total}$	cm ³ /rev	98	111	122	142
Motor speed	n_1	rpm	4750	4750	4750	4750
Output speed	n_2	rpm	1547	1365	1243	1070
Inlet flow rate at n_{max}	$q_{v\ max}$	l/min	152	152	152	152
Differential pressure	p	bar	450	450	450	450
Motor torque	$T_{1\ max}$	Nm	229	229	229	229
Output torque	$T_{2\ max}$	Nm	704	798	875	101

TRACK DRIVE DETAILS

CT-004-2

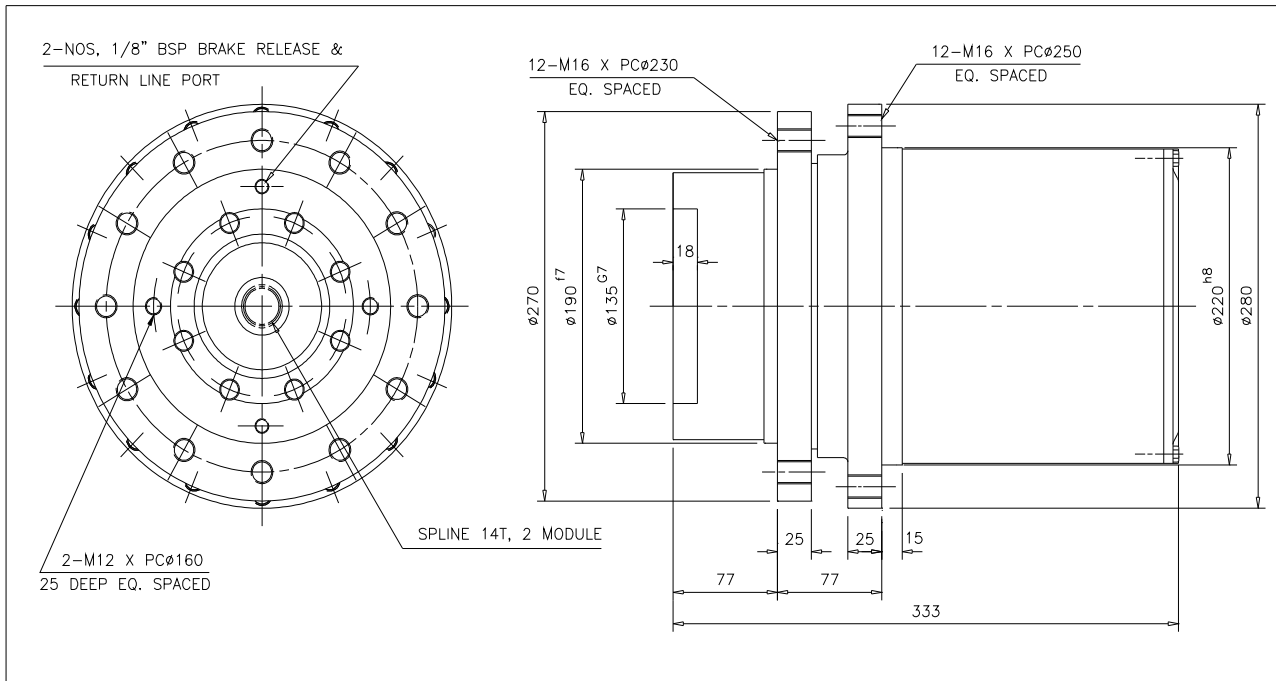


Hydraulic Motor make-Rexroth A2FE 32

Transmission ratio	i		14.45	17.93	20.65	24.64	31
Motor displacement	V_g	cm ³	32	32	32	32	32
Max. torque of parking brake	T_{Br}	Nm	200	200	200	200	200
Total displacement	$V_{g\ total}$	cm ³ /rev	462	574	661	788	992
Motor speed	n_1	rpm	4750	4750	4750	4750	4751
Output speed	n_2	rpm	329	265	230	193	153
Inlet flow rate at n_{max}	$q_{v\ max}$	l/min	152	152	152	152	152
Differential pressure	p	bar	450	438	381	319	254
Motor torque	$T_{1\ max}$	Nm	229	223	194	162	129
Output torque	$T_{2\ max}$	Nm	3312	4000	4000	4000	4000

TRACK DRIVE DETAILS

CT-006-2

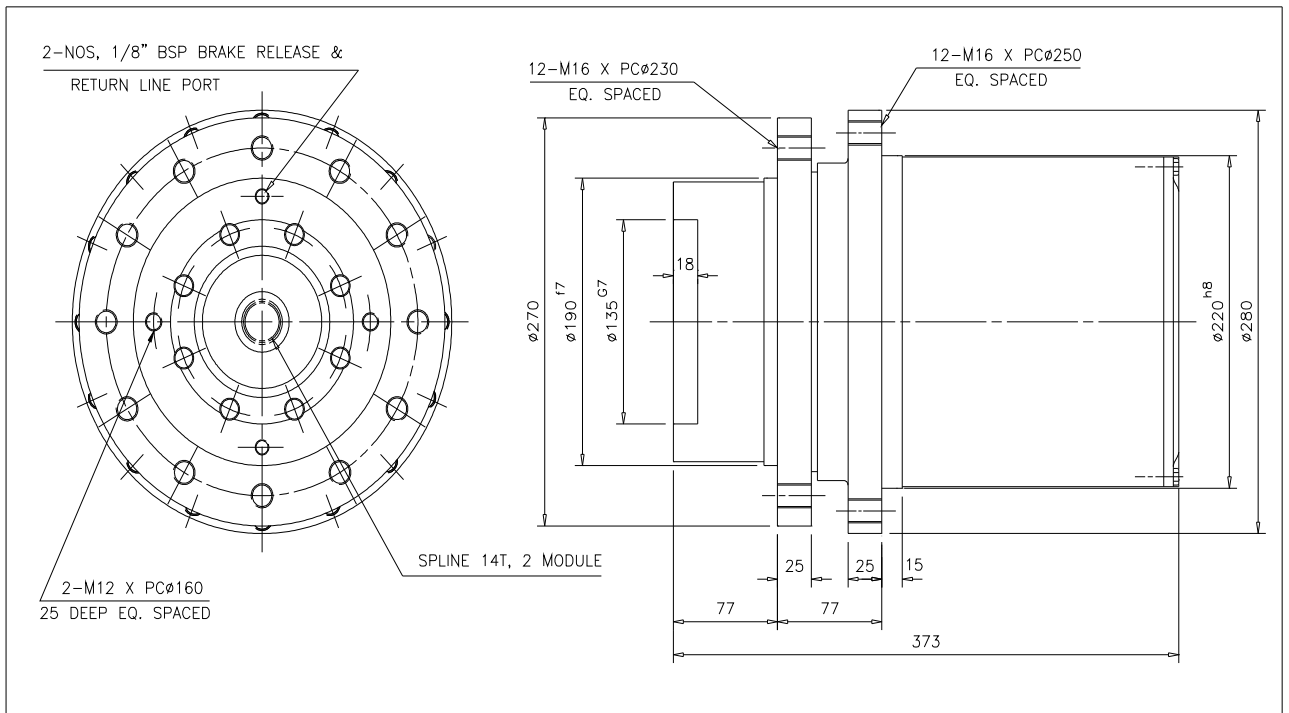


Hydraulic Motor make-Rexroth A2FE 32

Transmission ratio	i		12.3	13.6	15.3	17.6
Motor displacement	V_g	cm ³	32	32	32	32
Max. torque of parking brake	T_{Br}	Nm	200	200	200	200
Total displacement	$V_{g\ total}$	cm ³ /rev	394	435	490	563
Motor speed	n_1	rpm	4750	4750	4750	4750
Output speed	n_2	rpm	386	349	310	270
Inlet flow rate at n_{max}	$q_{v\ max}$	l/min	152	152	152	152
Differential pressure	p	bar	450	450	450	447
Motor torque	$T_{1\ max}$	Nm	229	229	229	228
Output torque	$T_{2\ max}$	Nm	2819	3117	3507	4007

TRACK DRIVE DETAILS

CT-006-3

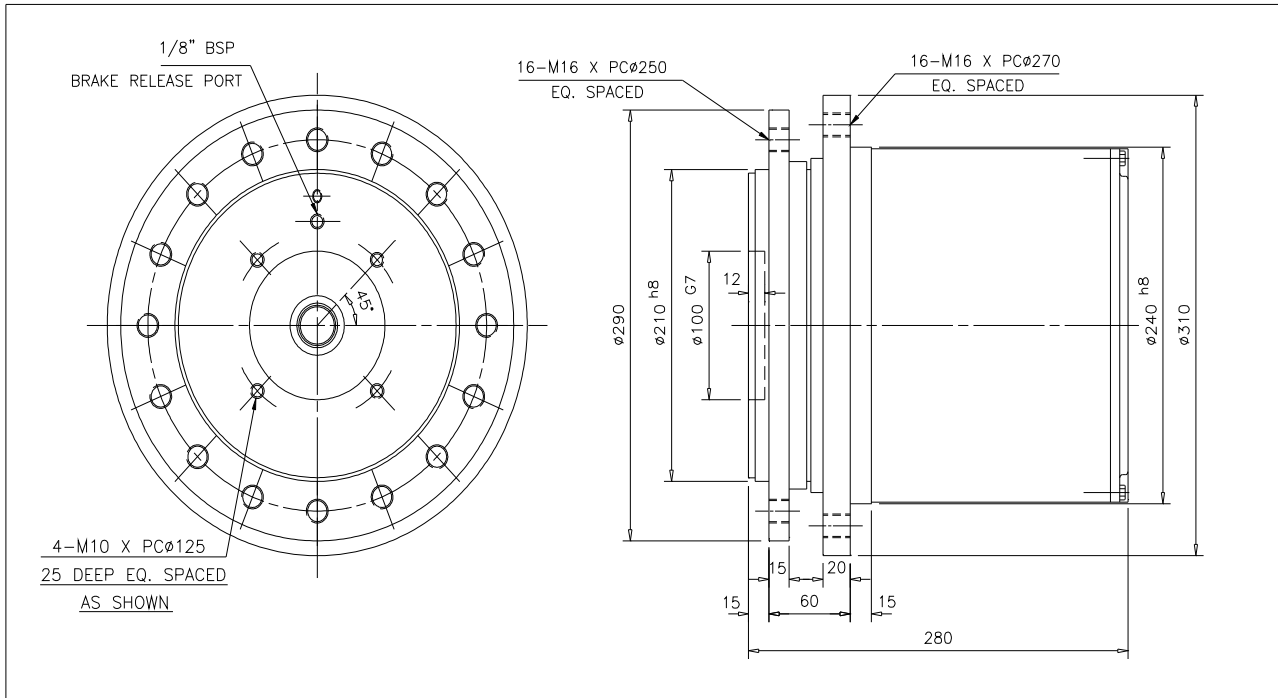


Hydraulic Motor make-Rexroth A2FE 32

Transmission ratio	i		35.79	45.26	55.63	63.87	70.21
Motor displacement	V_g	cm ³	32	32	32	32	32
Max. torque of parking brake	T_{Br}	Nm	200	200	200	200	200
Total displacement	$V_{g\ total}$	cm ³ /rev	1145	1448	1780	2044	2247
Motor speed	n_1	rpm	4750	4750	4750	4750	4750
Output speed	n_2	rpm	133	105	85	74	68
Inlet flow rate at n_{max}	$q_{v\ max}$	l/min	152	152	152	152	152
Differential pressure	p	bar	330	261	212	185	168
Motor torque	$T_{1\ max}$	Nm	168	133	108	94	86
Output torque	$T_{2\ max}$	Nm	6000	6000	6000	6000	6000

TRACK DRIVE DETAILS

CT-010-2

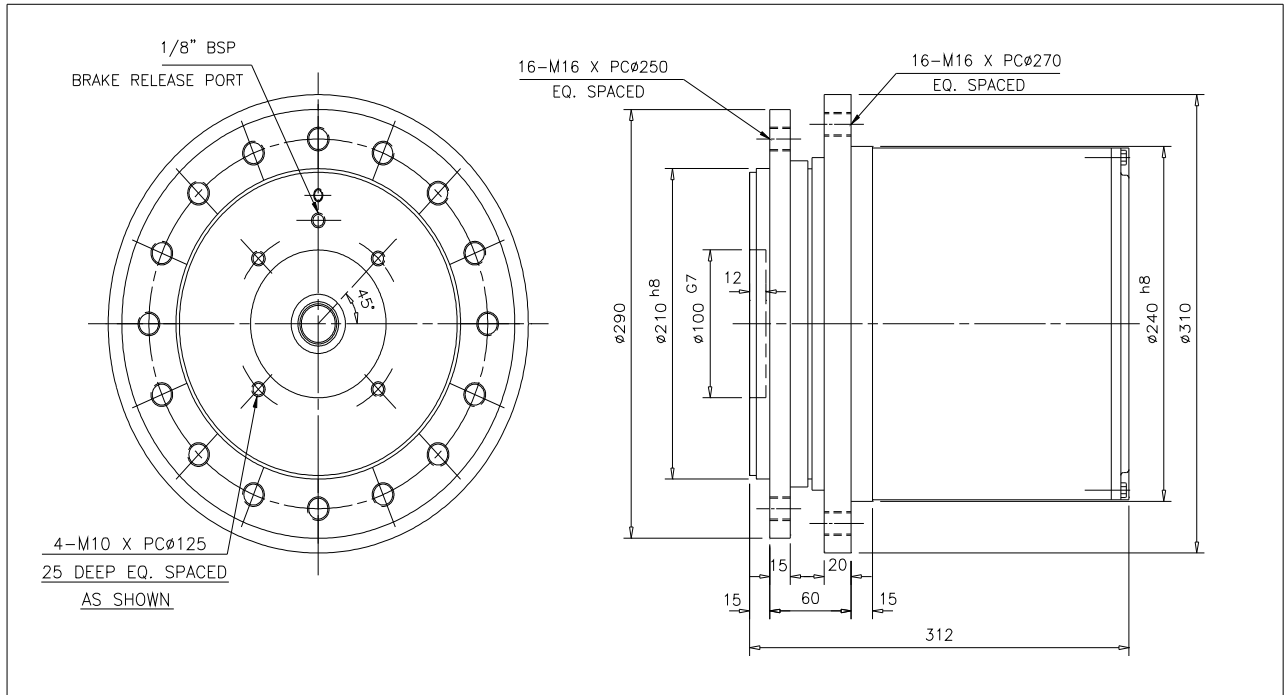


Hydraulic Motor make-Rexroth A2FM 32

Transmission ratio	i		16.31	20.7	26.07	36.8	47.53
Motor displacement	V_g	cm ³	32	32	32	32	32
Max. torque of parking brake	T_{Br}	Nm	200	200	200	200	200
Total displacement	$V_{g\ total}$	cm ³ /rev	522	662	834	1178	1521
Motor speed	n_1	rpm	4750	4750	4751	4750	4750
Output speed	n_2	rpm	291	229	182	129	100
Inlet flow rate at n_{max}	$q_{v\ max}$	l/min	152	152	152	152	152
Differential pressure	p	bar	400	400	400	400	400
Motor torque	$T_{1\ max}$	Nm	204	204	204	204	204
Output torque	$T_{2\ max}$	Nm	3323	4217	5311	7497	9683

TRACK DRIVE DETAILS

CT-010-3

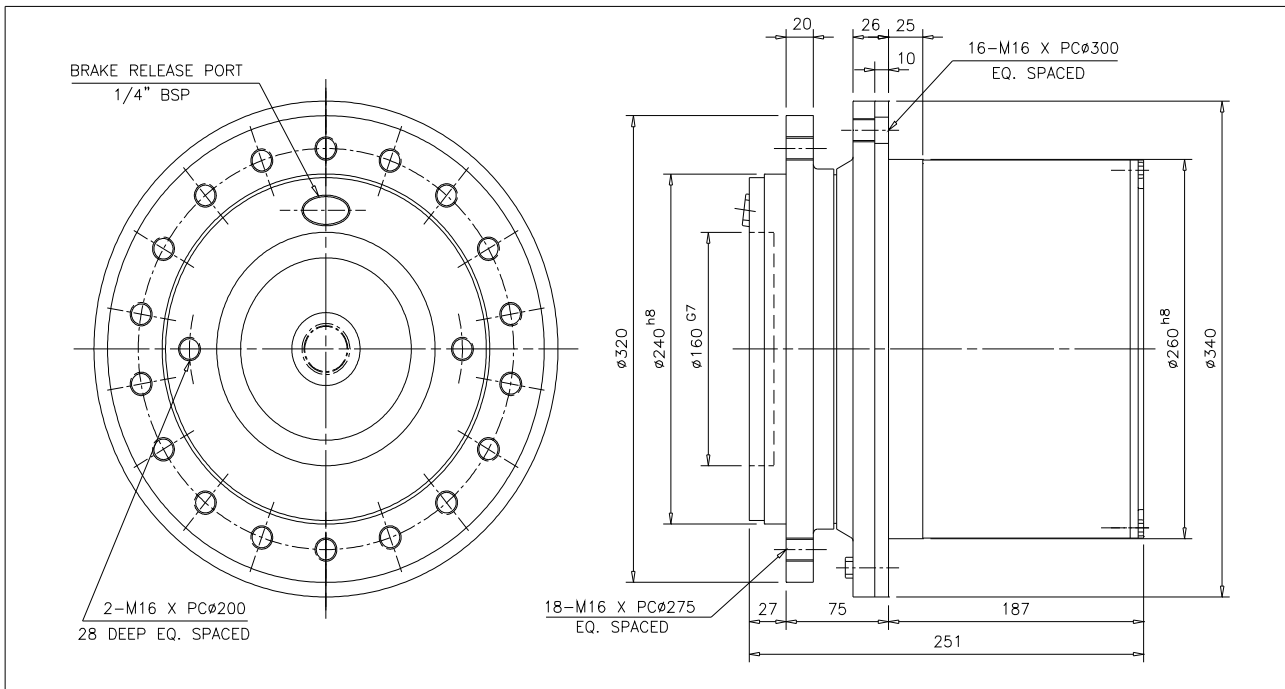


Hydraulic Motor make-Rexroth A2FM 32

Transmission ratio	i		82.6	95.9	110.5	133.4	150.6
Motor displacement	V_g	cm ³	32	32	32	32	32
Max. torque of parking brake	T_{Br}	Nm	200	200	200	200	200
Total displacement	$V_{g\ total}$	cm ³ /rev	2643	3069	3536	4269	4819
Motor speed	n_1	rpm	4750	4750	4751	4750	4750
Output speed	n_2	rpm	58	50	43	36	32
Inlet flow rate at n_{max}	$q_{v\ max}$	l/min	152	152	152	152	152
Differential pressure	p	bar	238	205	178	148	131
Motor torque	$T_{1\ max}$	Nm	121	104	91	75	67
Output torque	$T_{2\ max}$	Nm	10000	10000	10000	10000	10000

TRACK DRIVE DETAILS

CT-017-2

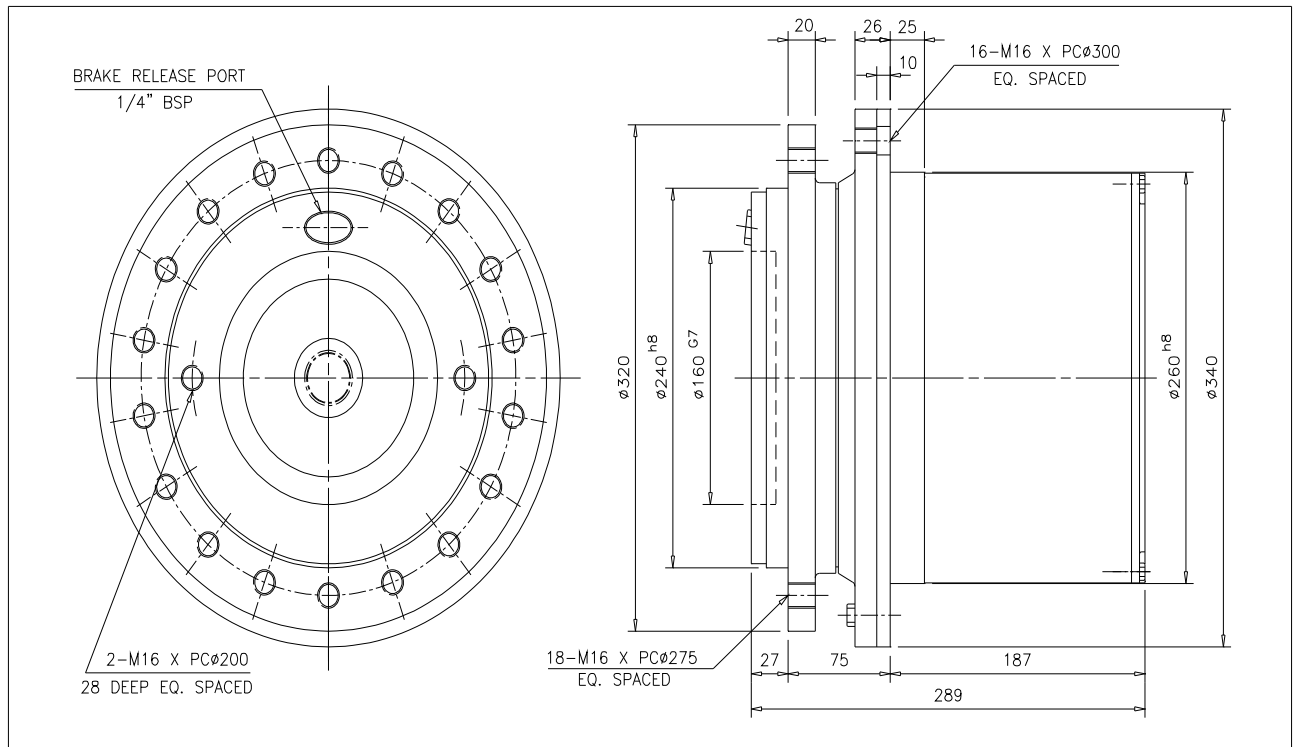


Hydraulic Motor make-Rexroth A2FE 56

Transmission ratio	i		26.4	32.1	41.7
Motor displacement	V_g	cm ³	56.1	56.1	56.1
Max. torque of parking brake	T_{Br}	Nm	200	200	200
Total displacement	$V_{g\ total}$	cm ³ /rev	1481	1801	2339
Motor speed	n_1	rpm	3743	3743	3743
Output speed	n_2	rpm	141.8	116.6	89.8
Inlet flow rate at n_{max}	$q_{v\ max}$	l/min	210	210	210
Differential pressure	p	bar	450	450	450
Motor torque	$T_{1\ max}$	Nm	402	402	402
Output torque	$T_{2\ max}$	Nm	10607	12897	16755

TRACK DRIVE DETAILS

CT-017-3

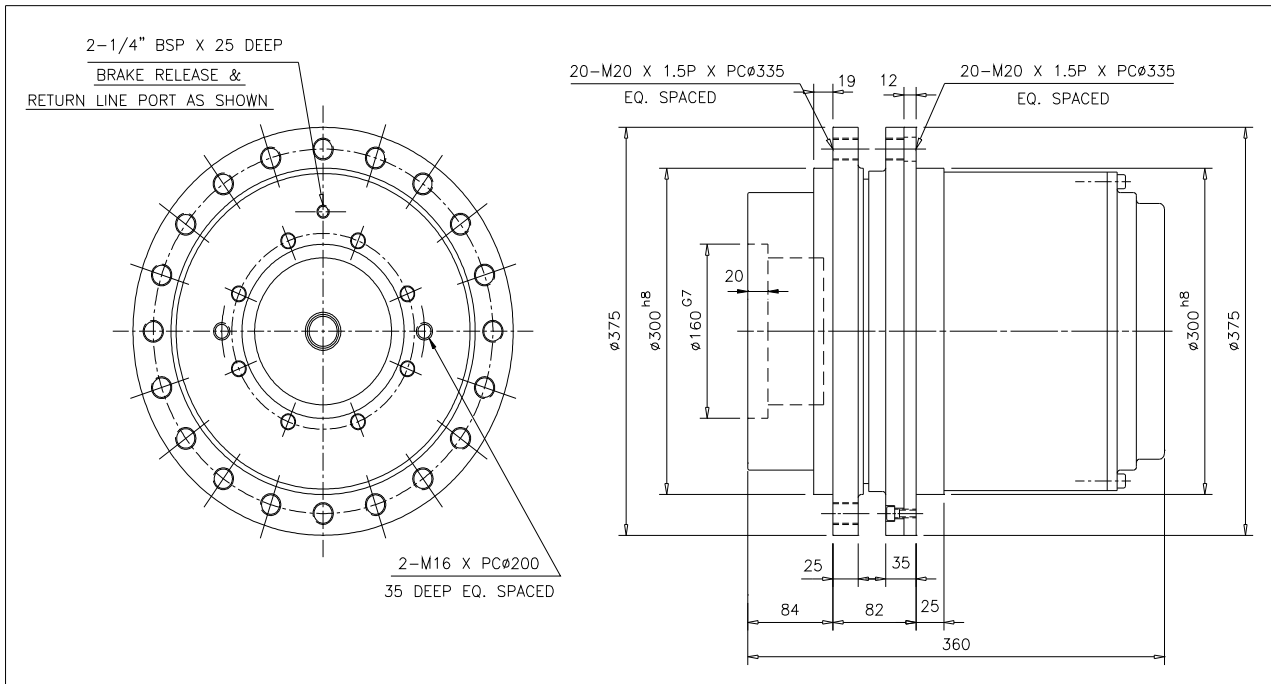


Hydraulic Motor make-Rexroth A2FE 56

Transmission ratio	i		88.31	102.65	121.15	140.76	150.42
Motor displacement	V_g	cm ³	56.1	56.1	56.1	56.1	56.1
Max. torque of parking brake	T_{Br}	Nm	200	200	200	200	200
Total displacement	$V_{g\ total}$	cm ³ /rev	4954	5759	6797	7897	8439
Motor speed	n_1	rpm	3743	3743	3743	3743	3743
Output speed	n_2	rpm	42.4	36.5	30.9	26.6	24.9
Inlet flow rate at n_{max}	$q_{v\ max}$	l/min	210	210	210	210	210
Differential pressure	p	bar	216	186	158	136	127
Motor torque	$T_{1\ max}$	Nm	193	166	141	121	113
Output torque	$T_{2\ max}$	Nm	17000	17000	17000	17000	17000

TRACK DRIVE DETAILS

CT-025-2

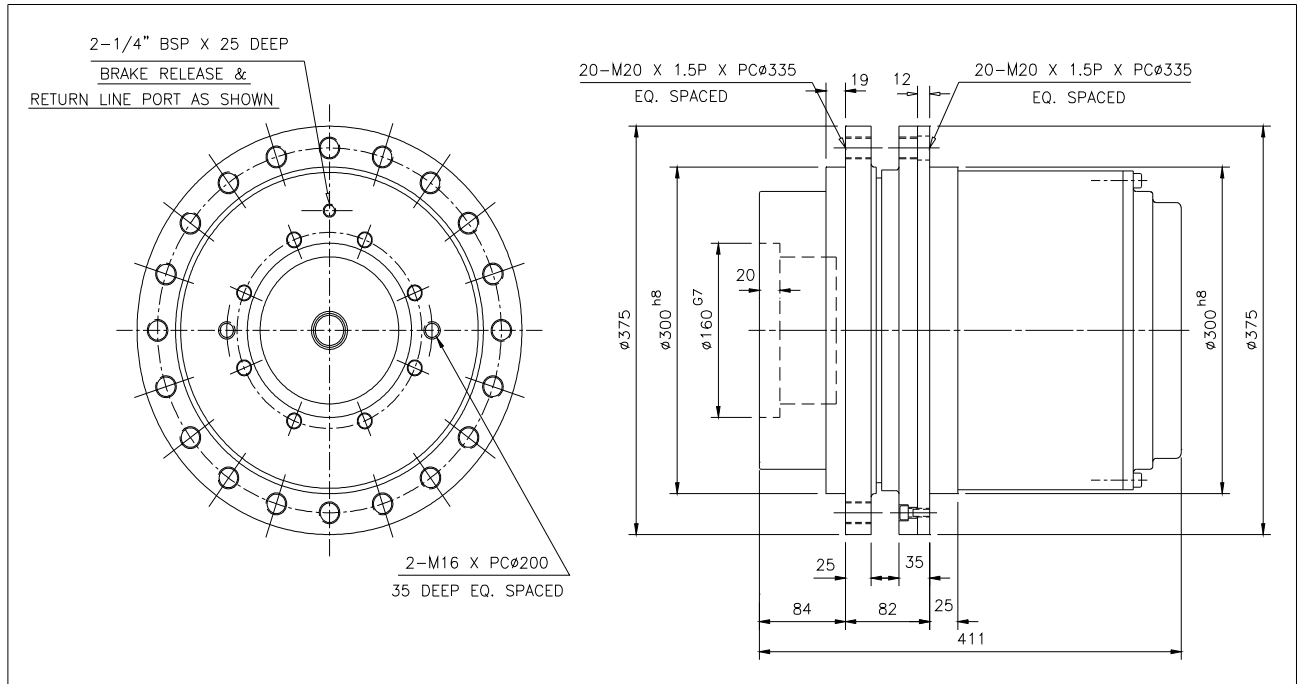


Hydraulic Motor make-Rexroth A2FE 63

Transmission ratio	i		26.3	32.3	40.3
Motor displacement	V_g	cm ³	63	63	63
Max. torque of parking brake	T_{Br}	Nm	200	200	200
Total displacement	$V_{g\ total}$	cm ³ /rev	3750	3750	3750
Motor speed	n_1	rpm	3746	3746	3746
Output speed	n_2	rpm	142.4	116.0	93.0
Inlet flow rate at n_{max}	$q_{v\ max}$	l/min	236	236	236
Differential pressure	p	bar	450	450	450
Motor torque	$T_{1\ max}$	Nm	451	451	451
Output torque	$T_{2\ max}$	Nm	11867	14574	18184

TRACK DRIVE DETAILS

CT-025-3

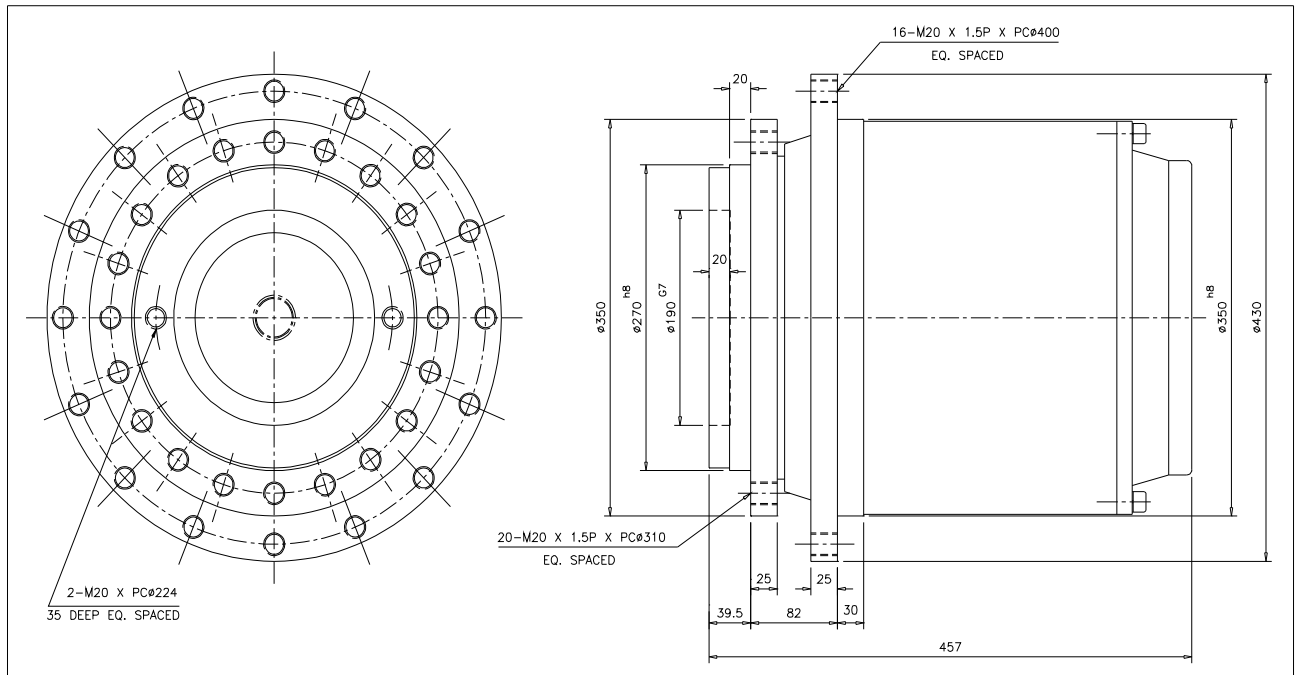


Hydraulic Motor make-Rexroth A2FE 63

Transmission ratio	i		56.94	69.93	88.7	100.19	118.64
Motor displacement	V_g	cm ³	63	63	63	63	63
Max. torque of parking brake	T_{Br}	Nm	200	200	200	200	200
Total displacement	$V_{g\ total}$	cm ³ /rev	3750	3750	3750	3750	3750
Motor speed	n_1	rpm	3746	3746	3746	3746	3746
Output speed	n_2	rpm	65.8	53.6	42.2	37.4	31.6
Inlet flow rate at n_{max}	$q_{v\ max}$	l/min	236	236	236	236	236
Differential pressure	p	bar	438	357	282	249	211
Motor torque	$T_{1\ max}$	Nm	439	358	283	250	212
Output torque	$T_{2\ max}$	Nm	25000	25000	25000	25000	25000

TRACK DRIVE DETAILS

CT-050-3

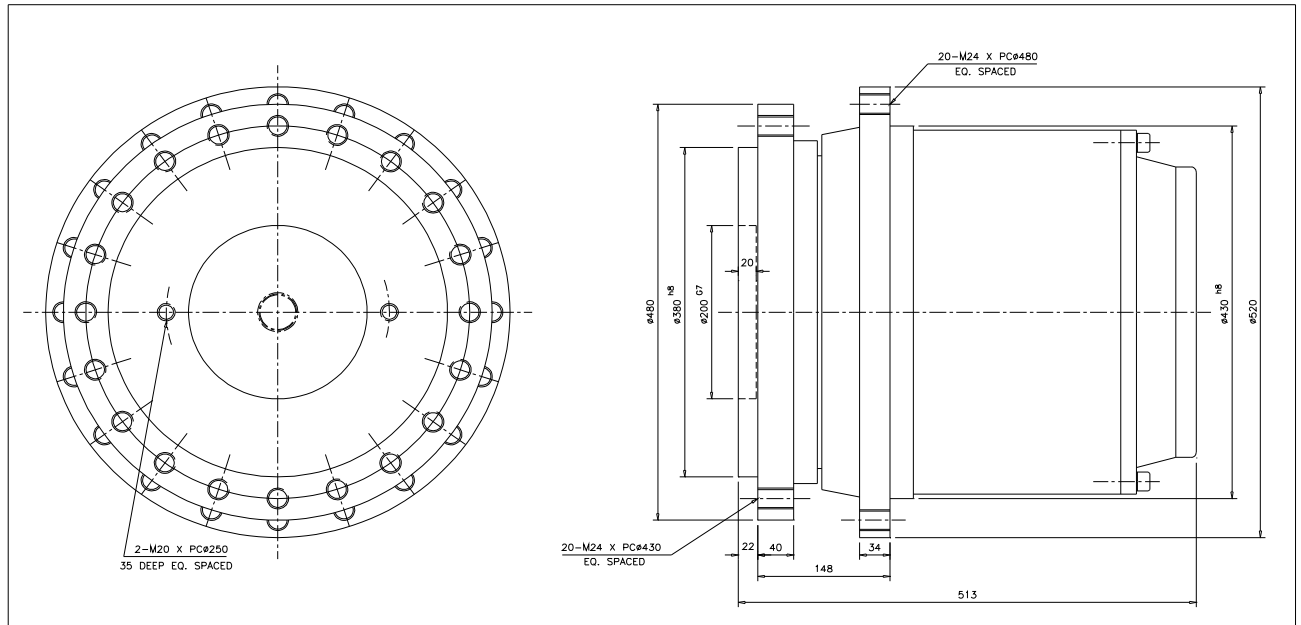


Hydraulic Motor make-Rexroth A2FE 90

Transmission ratio	i		83.9	93.5	106.1	123.9	150.5
Motor displacement	V_g	cm ³	90	90	90	90	90
Max. torque of parking brake	T_{Br}	Nm	200	200	200	200	200
Total displacement	$V_{g\ total}$	cm ³ /rev	7551	8415	9549	11151	13545
Motor speed	n_1	rpm	3344	3344	3344	3344	3344
Output speed	n_2	rpm	39.9	35.8	31.5	27.0	22.2
Inlet flow rate at n_{max}	$q_{v\ max}$	l/min	301	301	301	301	301
Differential pressure	p	bar	417	374	329	282	232
Motor torque	$T_{1\ max}$	Nm	597	536	471	404	332
Output torque	$T_{2\ max}$	Nm	50000	50000	50000	50000	50000

TRACK DRIVE DETAILS

CT-080-3

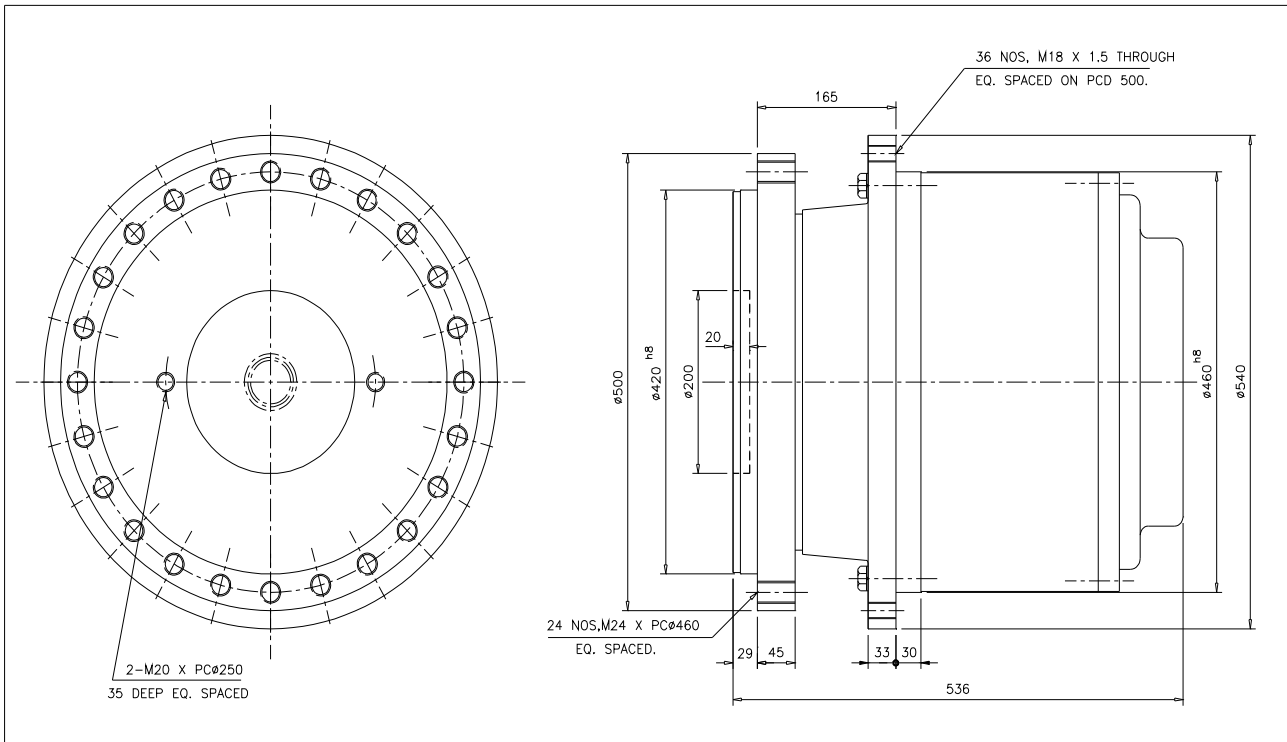


Hydraulic Motor make-Rexroth A6VE 107

Transmission ratio	i		76.8	104.3	116.1	131.8	153.8	186.8
Motor displacement	V_{gmax}	cm ³	107	107	107	107	107	107
	V_{gmin}	cm ³	0	0	0	0	0	0
Max. torque of parking brake	T_{Br}	Nm	200	200	200	200	200	200
Total displacement	V_{gtotal}	cm ³ /rev	8218	11160	12423	14103	16457	19988
Motor speed at V_{gmax} at $V_{gmax} < V_{g1}$	n_1	rpm	3299	3299	3299	3299	3299	3299
	n_1	rpm	3299	4000	4500	4500	4500	4500
	V_{g1}	cm ³ /rev	71	71	71	71	71	71
Output speed	n_2	rpm	43.0	31.6	28.4	25.0	21.5	17.7
Output speed	n_2	rpm	43.0	38.4	38.8	34.1	29.3	24.1
Inlet flow rate at n_{max}	q_{vmax}	l/min	353	353	353	353	353	353
Differential pressure	p	bar	450	450	405	357	306	252
Motor torque	T_{1max}	Nm	766	766	690	608	521	429
Output torque	T_{2max}	Nm	58854	79928	80000	80000	80000	80000

TRACK DRIVE DETAILS

CT-0110-3



Hydraulic Motor make-Rexroth A2FE 125

Transmission ratio	i		96.7	115.1	134.1	147.2	186.5	217.9
Motor displacement	V_g	cm ³	125	125	125	125	125	125
Max. torque of parking brake	T_{Br}	Nm	200	200	200	200	200	200
Total displacement	$V_{g\ total}$	cm ³ /rev	12088	14388	16763	18400	23313	27238
Motor speed	n_1	rpm	3000	3000	3000	3000	3000	3000
Output speed	n_2	rpm	31.0	26.1	22.4	20.4	16.1	13.8
Inlet flow rate at n_{max}	$q_{v\ max}$	l/min	375	375	375	375	375	375
Differential pressure	p	bar	450	450	413	376	297	254
Motor torque	$T_{1\ max}$	Nm	895	895	822	748	591	505
Output torque	$T_{2\ max}$	Nm	86570	103043	110000	110000	110000	110000

For technical clarifications and details please contact us at



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