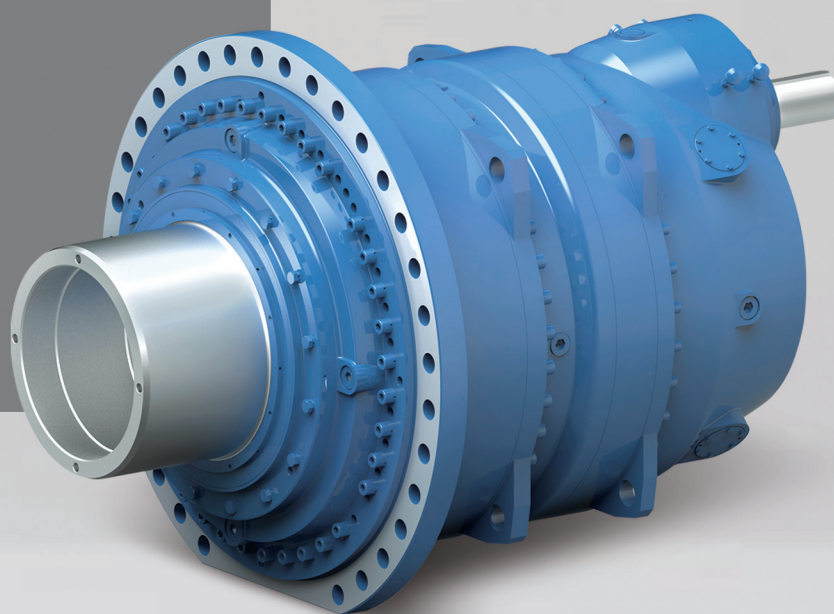


NGC

MPG Series

Planetary Gearboxes for Roller Press



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1.1 Executive standards

- Gear accuracy is based on the cylindrical gear accuracy system from ISO1328
- Gear strength ratings are based on the calculation methods from ISO6336 - calculation of load capacity of spur and helical gears
- Shaft strength ratings are based on the calculation methods from DIN743 - calculation load capacity of shafts and axles
- Bearing life ratings are based on the calculation methods from ISO 281-dynamic load ratings and rating life of rolling bearings
- Quality control of materials and their heat treatments are based on the calculation methods from ISO6336-5 - calculation of load capacity of spur and helical gears - Part 5: Strength and quality of materials

1.2 Overview

As key transmission equipments, gearboxes for roller press are mainly used in the main drive train of roller presses. The gearboxes, which are driven by motors through universal spindles, are arranged symmetrically in pairs. The roller solid shafts of roller presses are connected with the hollow shaft of gearboxes via shrink disks. MPG series planetary gearboxes for roller press are designed and manufactured for high reliability and stable operation. All of the main technical specifications have reached the advanced levels of similar products worldwide.

Performance features:

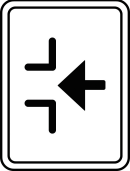
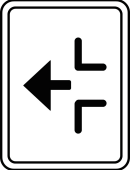
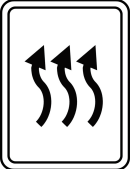
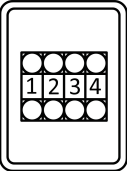
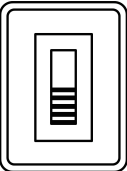
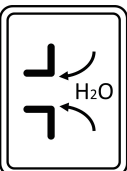
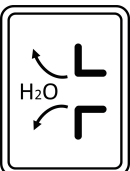
- Based on a standard platform for industrial gearboxes, jointly designed and developed with a European team
- Advanced modular design technology, high universality and interchangeability of main components, less component varieties
- Optimized interior gear design improves transmission efficiency
- Unique exterior design
- Compact structure ensure a higher power density
- Vibration and noise are reduced to improve gearboxes' service life
- High-quality processing technology ensures a longer service life of components and reduces the maintenance cost

1.3 Key reminders

- The illustrations in the catalog are only examples without effect binding
- Standard gearboxes are ready for operation when they are delivered and they need to be half filled with lubricant oil before going into operation
- The viscosity and the type of lubricants must comply with the nameplate of gearboxes
- The data and descriptions about oil volume are for reference only, actual volume is subject to oil leveler or reached the middle of the oil level sight glasses
- Rotating parts should be protected from accidental contacts. Please obey the local existing safety regulation
- Sealing, lubrication, ventilation, surface protection and other features of gearboxes may need be adjusted according to different working conditions
- Please contact NGC when the application environment is ultralow or high temperature, high humidity and corrosive or explosive environment

1.4 Icon description

The descriptions of icons in the illustrations are as follows:

oil filling hole		oil inlet	
oil drain hole		oil outlet	
lifting lug		observation port	
PRTD		heater	
junction box		nameplate	
oil leveler		oil level sight glass	
breather		grease nipple	
water inlet		water outlet	

Two types of gearboxes for roller presses are offered: one helical stage + two planetary gear stages (MPGH2 type) and two planetary gear stages (MPGC2 type).

2.1 Feature descriptions

Gearboxes:

- Products: the nominal torque range of MPG gearboxes is from 100kNm to 5800kNm
- Lubrication type: oil bath lubrication is the standard lubrication type. In this case, the gearbox housings are used as lubricant tanks
- Mounting positions: MPGH2 gearbox has four mounting positions, which can be interchanged easily acc. to the arrangement of roller presses
- Condition monitoring: to ensure reliable operation of gearboxes, bearings and oil temperatures are monitored by RTD

Housings:

- Housings, which are made of high-quality spheroidal graphite cast iron, have smooth surface, high reliability and strong vibration-absorbing ability
- FEM helps to improve and optimize the housing structure stiffness and static strength as well as fatigue lifetime.The design is based on the analysis results and experience
- Housing manufacturing process is rigorous and reliable. CNC machines with high accuracy ensure high quality of the housings

Gears:

- Gears are all made of high-quality alloy steel. Both tooth flanks of gears are grinded
- Static and fatigue strength of gears, transmission efficiency, rate of wear, noise and vibration level are analyzed in gear design
- A whole flexible model of gearbox with consideration of all component stiffness is adopted to calculate and determine the parameters for tooth modification

Bearings:

- Gears and shafts are exclusively supported by roller bearings, which are all produced by top-level brands
- The basic service life of bearings is rated acc. to the standard ISO281/16281. Load distribution and contact stress of race are also considered
- NGC has established long-term strategic partnerships with top bearing manufacturers to ensure the high quality and sufficient supply of bearings

Planetary carriers:

- Planetary carriers are made of high-quality and high-strength spheroidal graphite cast iron. They can be assembled and disassembled easily with solid shafts of roller presses
- FEM, is used to analyze stiffness and strength of planetary carriers and helps to determine the final design
- CNC machines with high accuracy and 3-D measuring machines are used to ensure the high quality of planetary carriers

Shafts:

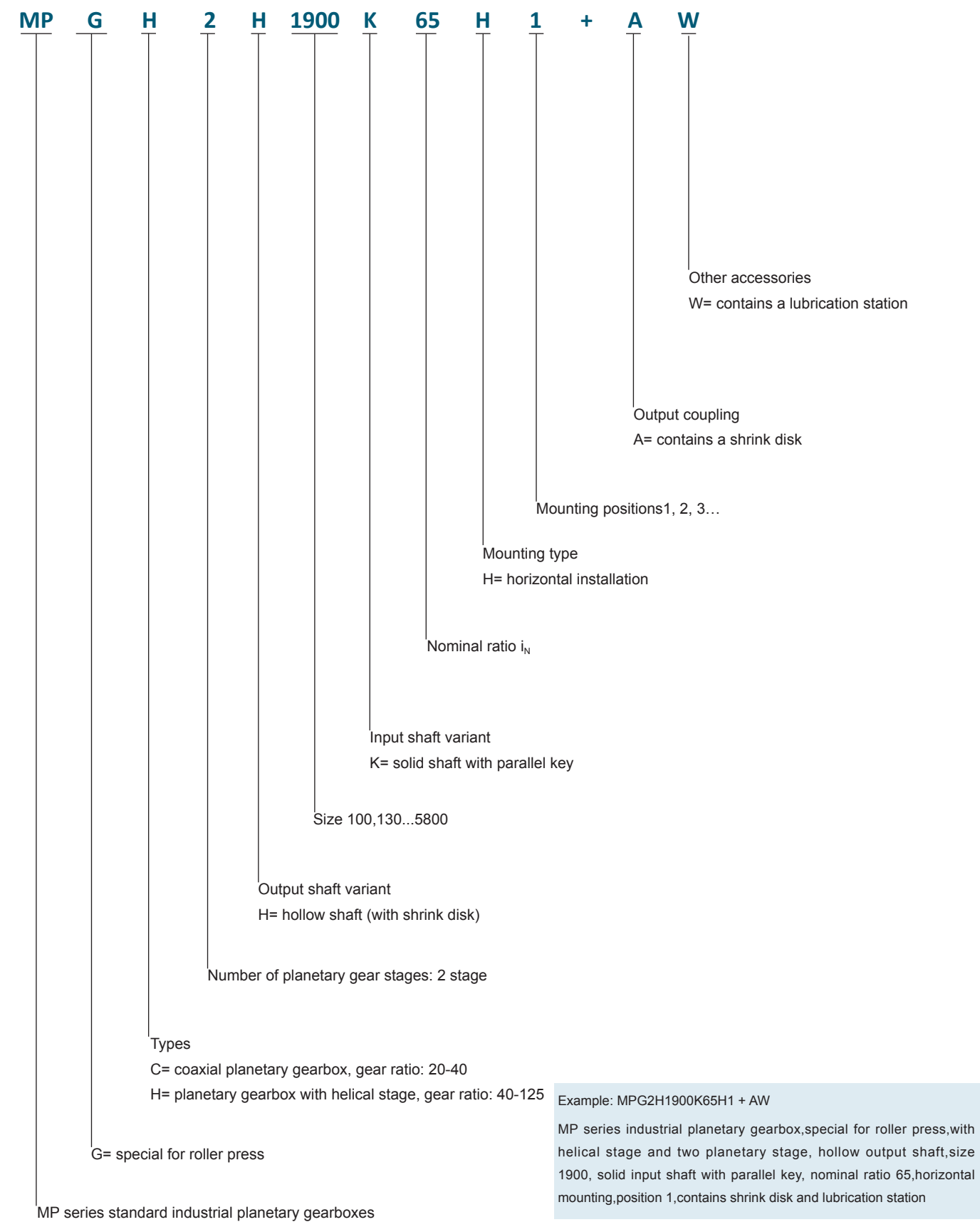
- Shafts are all made of high-quality alloy steel
- Shafts are designed acc. to international standards
- Modal of components and excitation of gear meshing are checked in order to decrease internal dynamic loads in gearboxes and optimize gearbox design

System dynamic characteristics analysis:

- Simulation model of roller shafts and gearboxes system is built by coupling dynamic characteristic parameter of prime movers and roller shafts
- Excited frequency diverges from the natural frequency of gearboxes in order to avoid resonance by simulating analysis
- Combine with the operating parameters, the dynamic response characteristics of gearbox are checked by using internal exciter

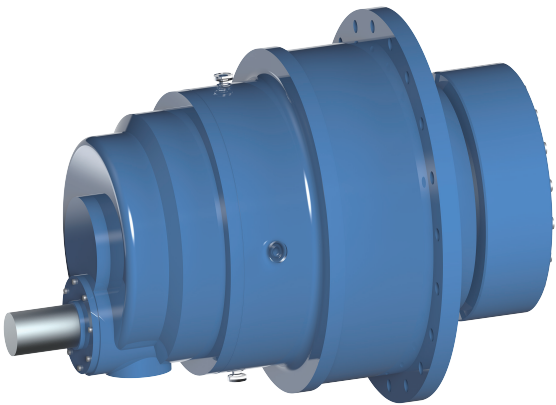
We can help you to verify the actual working conditions, confirm whether your choice is right and calculate accurate service life and service factor.

2.2 Naming of gearboxes

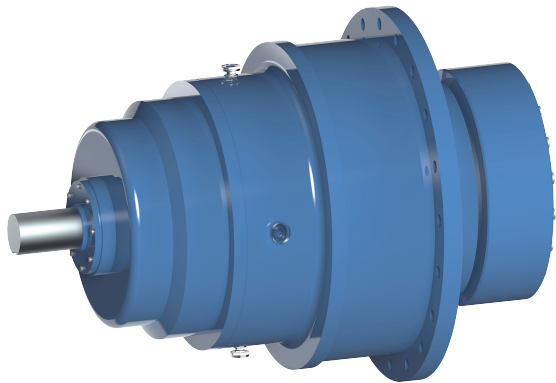


2.3 Sizes and torque ratings

Size	Rated output torque T_{2N}
100	100 kNm
130	130 kNm
190	190 kNm
250	250 kNm
310	310 kNm
370	370 kNm
430	430 kNm
500	500 kNm
600	600 kNm
730	730 kNm
900	900 kNm
1100	1100 kNm
1350	1350 kNm
1600	1600 kNm
1900	1900 kNm
2450	2450 kNm
3200	3200 kNm
4200	4200 kNm
5200	5200 kNm
5800	5800 kNm

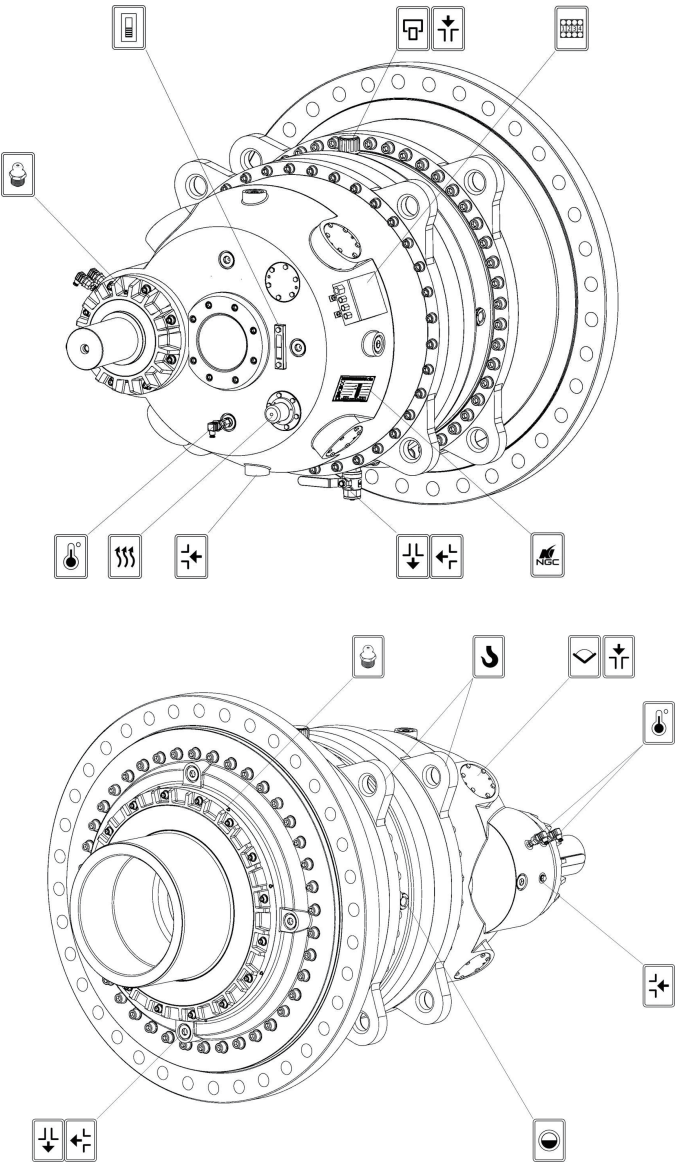


MPGH2H ... K ... Ratio: 40-125



MPGC2H ... K ... Ratio: 20-40

2.4 MPGH2 gearbox



The above illustrations are for reference only, please refer to technical agreements for detailed technical parameters and configurations.

- The gearbox input and output direction of rotation are opposite
- Gearbox lubrication: oil bath lubrication
- Lubricant: ISO VG320 industrial enclosed gearing oil

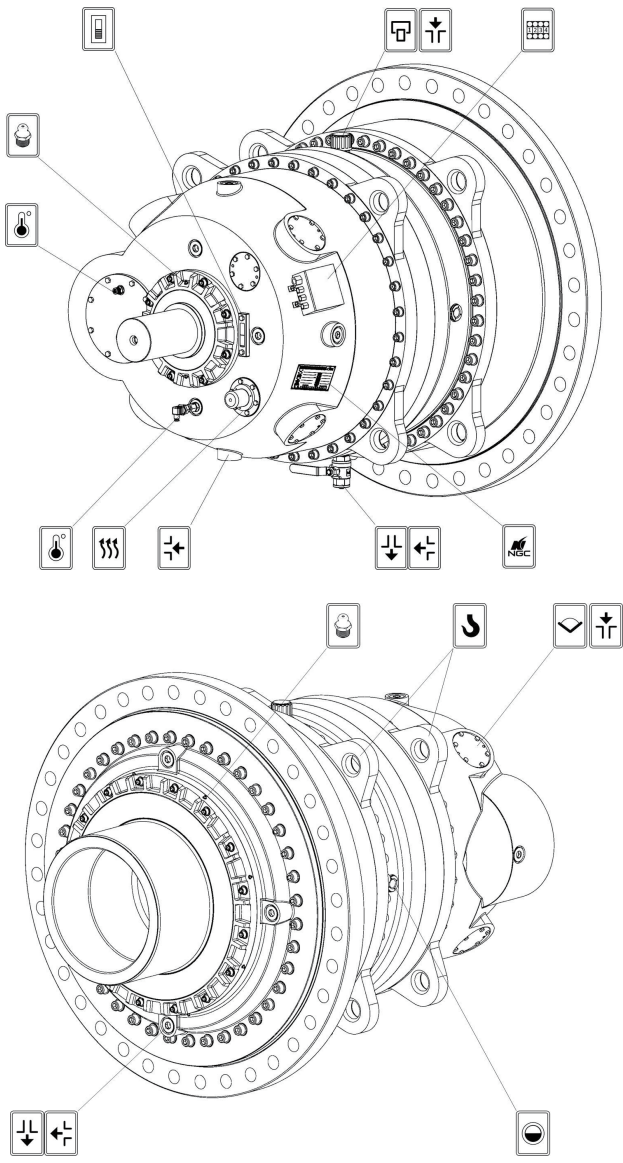


Suggestions!

Before running, the lubricant oil level needs to be located at half of oil level sight glasses.

Please be sure that the lubricant is of high-quality and clearness and be sure to replace it regularly.

2.5 MPGC2 gearbox



The above illustrations are for reference only, please refer to technical agreements for detailed technical parameters and configurations.

- The gearbox input and output direction of rotation are the same
- Gearbox lubrication: oil bath lubrication
- Lubricant: ISO VG320 industrial enclosed gearing oil

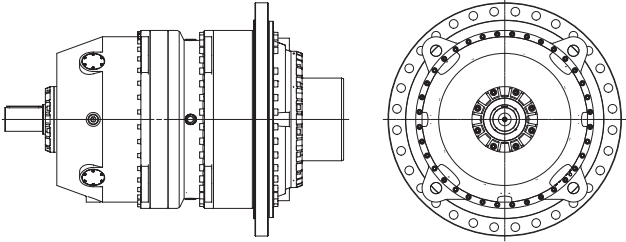
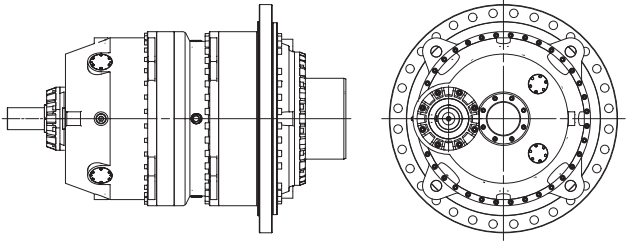
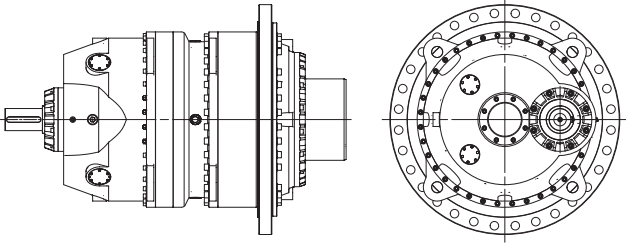
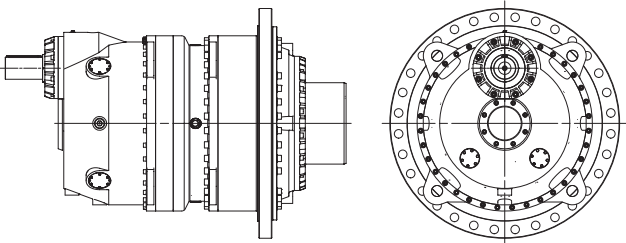
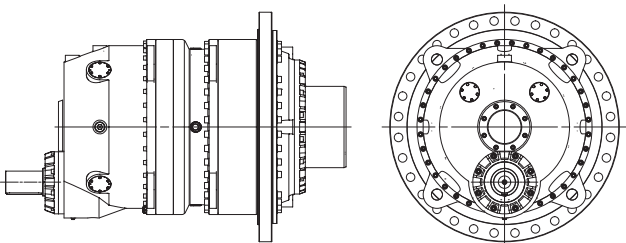


Suggestions!

Before running, the lubricant oil level needs to be located at half of oil level sight glasses.

Please be sure that the lubricant is of high-quality and clearness and be sure to replace it regularly.

2.6 Mounting positions

Gearbox types	Designated code	Mounting positions
MPGC2 Coaxial planetary gearbox	1	
MPGH2 Planetary gearbox with helical stage	1	
MPGH2 Planetary gearbox with helical stage	2	
MPGH2 Planetary gearbox with helical stage	3	
MPGH2 Planetary gearbox with helical stage	4	

3.1 Symbol description

Symbols	Descriptions
f_1	Factor for driven machine
f_2	Factor for driving machine
f_3	Peak load factor
i_N	Nominal ratio
i_s	Required ratio
n_1	Input speed (rpm)
n_2	Output speed (rpm)
P_1	Power of driving machine (kW)
P_N	Nominal power of gearbox (kW)
$P_{\text{erf.}}$	Required power of gearbox (kW)
P_2	Power of driven machine (kW)
T_2	Nominal output torque (kNm)

3.2 Selection of gearbox

1. Calculation of transmission ratio

$$i_s = \frac{n_1}{n_2}$$

Select the gearbox type according to required transmission ratio:

The ratio range of MPGC2 gearbox is 20-40

The ratio range of MPGH2 gearbox is 40-125

We can meet customized requirements according to the required nominal ratio.

2. Determination of gearbox nominal power rating

$$P_N \geq P_{\text{erf.}} = P_2 \times f_1 \times f_2 \times f_3$$

Select f_1 , f_2 and f_3 according to Table 1, Table 2 and Table 3 respectively.

3. Determination of gearbox nominal torque

$$T_2 = 9.55 \times \frac{P_N}{n_2}$$

4. Selection of gearbox size

Select the gearbox size by comparing nominal torque T_2 with the torque T_{2N} in size and torque rating table (part 2.3).

5. Checking gearbox outline dimensions:

Checking the gearbox outline dimensions according to the gearbox size (part 4).

The dimensions shown in the table is recommended by us. If you want other dimensions, please contact us for our customized service.

6. Selection of gearbox accessories

Select of lubrication station and shrink disk acc.to the accessories table (part 5).

3.3 Selection factors

Table 1: Factor for driven machine f_1

Driven machine	Factor for driven machine		
	daily operating period under load in hours		
	≤0.5	> 0.5-10	≥10
Concrete mixer	-	1.5	1.5
Crusher	-	1.2	1.4
Rotary kiln	-	-	2.0
Tube mill	-	-	2.0
Separator	-	1.6	1.6
Roller press	-	-	2.0

Table 2: Factor for driving machine f_2

Electric motor, hydraulic motor, turbine	1.0
Multi-cylinder piston engine	1.25
Single-cylinder piston engine	1.5

Table 3: Peak load factor f_3

Load peaks per hour	1-5	6-30	31-100	> 100
Peak load factor f_3	0.7	0.95	1.1	1.25

3.4 Example of gearbox selection

Known criteria:

Driving machine:Electric Motor

Motor power: $P_1 = 850$ kW

Motor speed: $n_1 = 990$ rpm

Driven machine:Roller press

Power: $P_2 = 800$ kW

Speed: $n_2 = 19.8$ rpm

Operating period: 24 h/day

Requirements:

Selection of gearbox type, Size and accessories

Selection process:

1. Calculation of transmission ratio

$$i_s = \frac{n_1}{n_2} = \frac{990}{19.8} = 50 \quad i_N = 50$$

Select MPGH2 gearbox type according to required transmission ratio

2. Determination of gearbox nominal power rating

$$P_N \geq P_{\text{eff}} = P_2 \times f_1 \times f_2 \times f_3 = 800 \times 2 \times 1 \times 1.25 = 2,000 \text{ kW}$$

3. Determination of gearbox nominal torque

$$T_2 = 9.55 \times \frac{P_N}{n_2} = 9.55 \times \frac{2000}{19.8} = 965 \text{ kNm}$$

4. Selection of gearbox size

Select gearbox size 1100 according to the gearbox size and torque rating table in part 2.3

The gearbox size is MPGH2H1100K50H

5. Checking gearbox outline dimensions

Checking the recommended gearbox outline dimensions according to the gearbox size (part 4)

6. Selection of gearbox accessories

Use the oil bath lubrication as the lubrication method for gearboxes . Select the 125L/min lubrication station and the 560X940

Shrink disk according to the accessories table (part 5)

3.5 Power ratings

MPGH2H...K		100	130	190	250	310	370	430	500	600	730	900	1100	1350	1600	1900	2450	3200	4200	5200	5800
i _N	n ₁ rpm	n ₂ rpm	Rated power P _N [kW]																		
			1500	1000	750	1500	1000	750	1500	1000	750	1500	1000	750	1500	1000	750	1500	1000	750	1500
42	35.7	21690	374	486	711	935	1159	1384	1608	1870	2244	2730	3366	4114	5049	5984	7105	9162	11967	15707	19447
			249	324	474	623	773	922	1072	1247	1496	1820	2244	2742	3366	3989	4737	6108	7978	10471	12964
			187	243	355	467	580	692	804	935	1122	1365	1683	2057	2524	2992	3553	4581	5984	7853	10345
45	33.3	20244	349	454	663	873	1082	1291	1501	1745	2094	2548	3141	3839	4712	5585	6632	8551	11169	14660	18150
			233	303	442	582	721	861	1001	1163	1396	1699	2094	2560	3141	3723	4421	5701	7446	9773	12100
			175	227	332	436	541	646	750	873	1047	1274	1571	1920	2356	2792	3316	4276	5585	7330	9075
50	30.0	18220	314	408	597	785	974	1162	1351	1571	1885	2293	2827	3455	4241	5026	5969	7696	10052	13194	16335
			209	272	398	524	649	775	901	1047	1257	1529	1885	2304	2827	3351	3979	5131	6702	8796	10890
			157	204	298	393	487	581	675	785	942	1147	1414	1728	2120	2513	2984	3848	5026	6597	8168
56	26.8	16268	280	365	533	701	869	1038	1206	1402	1683	2047	2524	3085	3786	4488	5329	6872	8975	11780	14585
			187	243	355	467	580	692	804	935	1122	1365	1683	2057	2524	2992	3553	4581	5984	7853	10345
			140	182	266	351	435	519	603	701	841	1024	1262	1543	1893	2244	2665	3436	4488	5890	7292
63	23.8	14460	249	324	474	623	773	922	1072	1247	1496	1820	2244	2742	3366	3989	4737	6108	7978	10471	12964
			166	216	316	416	515	615	715	831	997	1213	1496	1828	2244	2659	3158	4072	5319	6981	8643
			125	162	237	312	386	461	536	623	748	910	1122	1371	1683	1995	2368	3054	3989	5236	6482
71	21.1	12831	221	288	420	553	686	819	951	1106	1327	1615	1991	2433	2987	3540	4203	5420	7079	9291	11504
			147	192	280	369	457	546	634	737	885	1077	1327	1622	1991	2360	2802	3613	4719	6194	7669
			111	144	210	277	343	409	476	553	664	807	996	1217	1493	1770	2102	2710	3540	4646	5752
80	18.8	11387	196	255	373	491	609	726	844	982	1178	1433	1767	2160	2651	3141	3730	4810	6283	8246	10209
			131	170	249	327	406	484	563	654	785	955	1178	1440	1767	2094	2487	3207	4188	5497	6806
			98	128	187	245	304	363	422	491	589	717	884	1080	1325	1571	1865	2405	3441	4123	5105
90	16.7	10122	175	227	332	436	541	646	750	873	1047	1274	1571	1920	2356	2792	3316	4276	5585	7330	9075
			116	151	221	291	361	430	500	582	698	849	1047	1280	1571	1862	2211	2850	3723	4887	6050
			87	113	166	218	271	323	375	436	524	637	785	960	1178	1396	1658	2138	2792	3665	4538
100	15.0	9110	157	204	298	393	487	581	675	785	942	1147	1414	1728	2120	2513	2984	3848	5026	6597	8168
			105	136	199	262	325	387	450	524	628	764	942	1152	1414	1675	1990	2565	3351	4398	5445
			79	102	149	196	243	291	338	393	471	573	707	864	1060	1257	1492	1924	2513	3298	4084
112	13.4	8134	140	182	266	351	435	519	603	701	841	1024	1262	1543	1893	2244	2665	3436	4488	5890	7292
			93	122	178	234	290	346	402	467	561	682	841	1028	1262	1496	1776	2291	2992	3927	4862
			70	91	133	175	217	259	302	351	421	512	631	771	947	1122	1332	1718	2244	2945	3646
125	12.0	7288	126	163	239	314	390	465	540	628	754	917	1131	1382	1696	2010	2387	3079	4021	5277	6534
			84	109	159	209	260	310	360	419	503	612	754	921	1131	1340	1592	2052	2681	3518	4356
			63	82	119	157	195	232	270	314	377	459	565	691	848	1005	1194	1539	2010	2639	3267

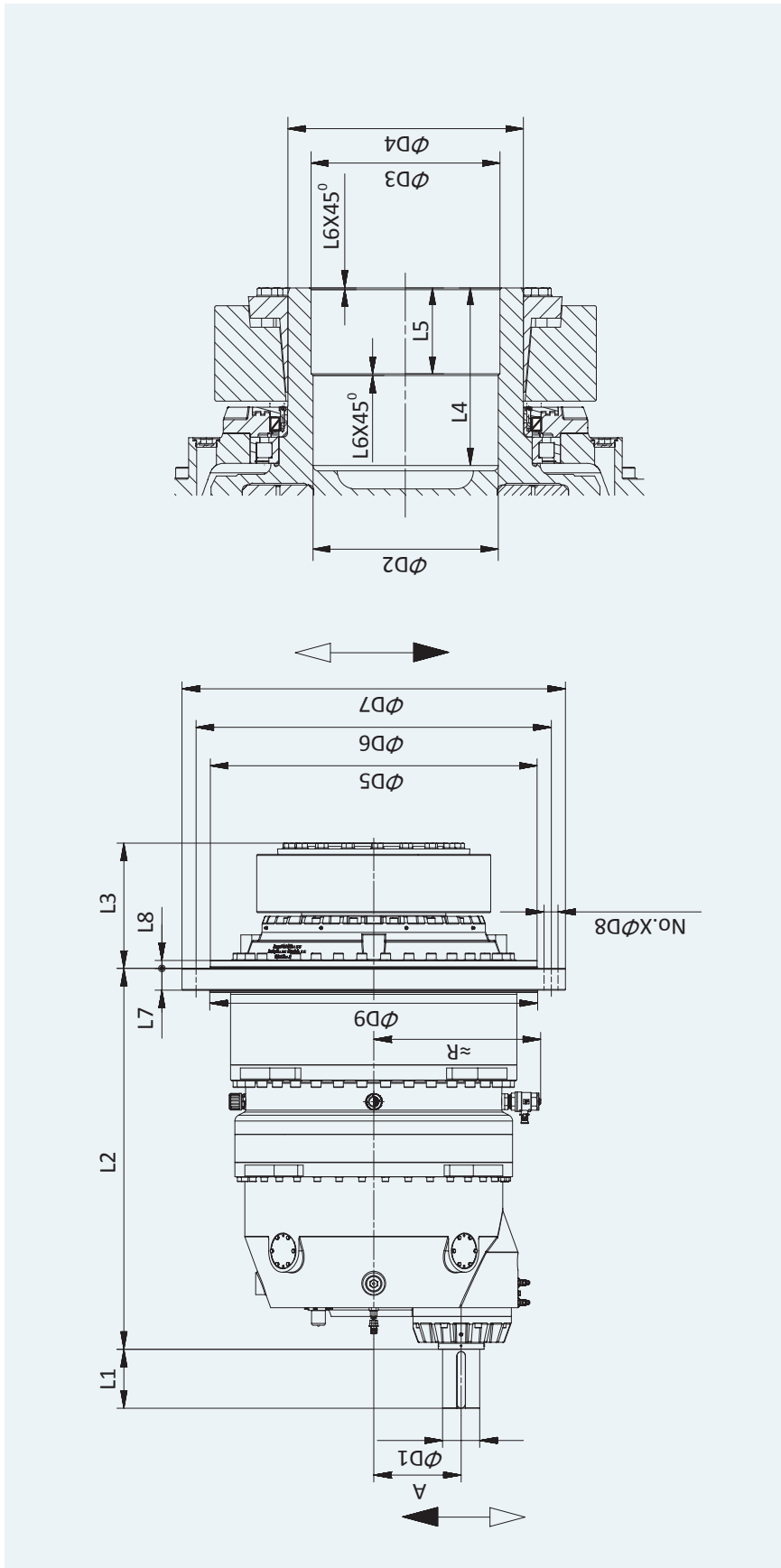
-Further sizes on request

MPGC2H...K...H			100	130	190	250	310	370	430	500	600	730	900	1100	1350	1600	1900	2450
i _N	n ₁ rpm	n ₂ rpm	Rated power P _N [kW]															
25	1500	60	628	817	1194	1571	1948	2325	2702	3141	3770	4586	5654	6911	8482	10052	11937	15393
	1000	40	419	545	796	1047	1298	1550	1801	2094	2513	3058	3770	4607	5654	6702	7958	10262
	750	30	314	408	597	785	974	1162	1351	1571	1885	2293	2827	3455	4241	5026	5969	7696
28	1500	53.6	561	730	1066	1403	1740	2077	2412	2805	3366	4095	5049	6171	7573	8975	10658	13743
	1000	35.7	374	486	710	935	1159	1383	1607	1869	2243	2729	3364	4112	5047	5981	7103	9162
	750	26.8	281	365	533	702	870	1038	1207	1403	1684	2049	2526	3087	3788	4490	5332	6872
31	1500	48.4	507	659	963	1267	1571	1875	2179	2534	3041	3700	4561	5575	6842	8109	9629	12413
	1000	32.3	338	440	643	846	1048	1251	1454	1691	2029	2469	3044	3720	4566	5412	6426	8276
	750	24.2	253	329	481	634	786	938	1090	1267	1520	1850	2281	2787	3421	4054	4815	6207
35	1500	42.9	449	584	854	1123	1393	1662	1932	2246	2695	3279	4043	4941	6064	7187	8535	10995
	1000	28.6	299	389	569	749	928	1108	1288	1497	1797	2186	2695	3294	4043	4792	5690	7330
	750	21.4	224	291	426	560	695	829	964	1120	1345	1636	2017	2465	3025	3585	4258	5497
40	1500	37.5	393	510	746	982	1217	1453	1688	1963	2356	2866	3534	4319	5301	6283	7461	9620
	1000	25	262	340	497	654	812	969	1126	1309	1571	1911	2356	2880	3534	4188	4974	6414
	750	18.8	197	256	374	492	610	728	846	984	1181	1437	1772	2165	2658	3150	3740	4810

-Further sizes on request

4.1 MPGH2 Dimensions

MPGH2H...K...H



Descriptions:

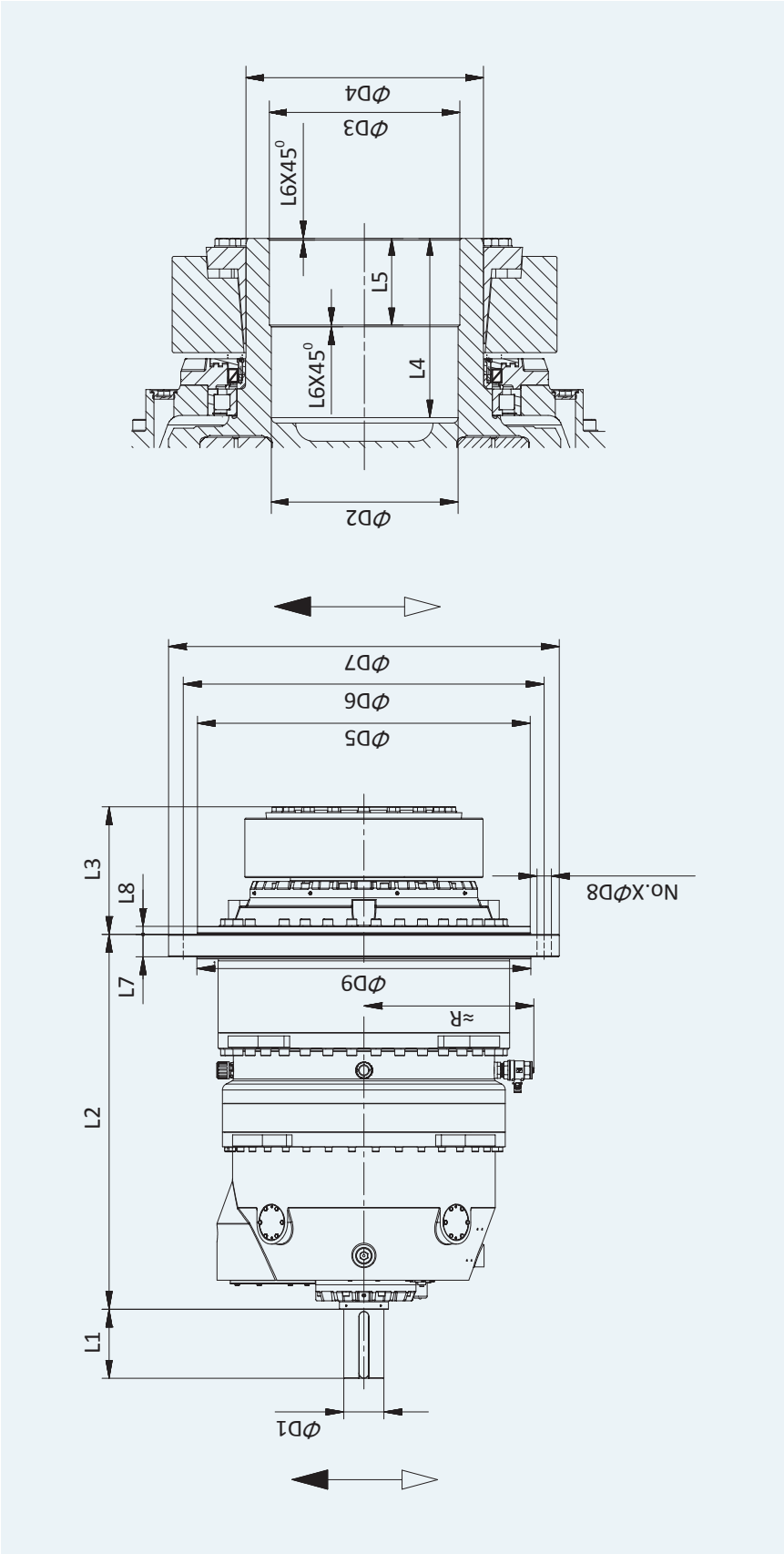
- 1) Parallel key and keyway acc. to DIN6885/1 2) L5 dimension excludes the inner chamfer dimension
with tolerance n6 4) The input and output direction of rotation are opposite

MPGH2H ...K...H	T _{2N} kNm	A	L ₁ 1) mm	L ₂ mm	L ₃ mm	L ₄ mm	L ₅ 2) mm	L ₆ mm	L ₇ mm	L ₈ mm	D ₁ 3) mm	D ₂ H7 mm	D ₃ H7 mm	D ₄ f7 mm	D ₅ h7 mm	D ₆ mm	D ₇ mm	D ₈ mm	D ₉ mm	No.	R mm	Oil volume ≈ L
100	100	140	120	714	241	200	95	2.5	39	9	70	175	180	240	535	595	645	26	540	24	368	26
130	130	140	120	737	278	220	105	2.5	42	9	70	205	210	260	610	665	720	26	595	32	380	30
190	190	170	140	877	294	250	120	2.5	50	10	80	245	250	320	750	830	895	33	762	24	446	50
250	250	200	160	1006	303	250	120	2.5	50	10	90	255	260	340	785	865	930	33	797	32	452	58
310	310	200	160	1029.5	327.5	280	135	2.5	56	12	90	275	280	360	840	915	980	33	839	36	494	75
370	370	200	160	1029.5	327.5	280	135	2.5	56	12	90	295	300	390	840	915	980	33	839	36	512	75
430	430	230	180	1076	354	314	152	2.5	62	24	100	325	330	420	935	1025	1115	39	939	32	556	110
500	500	265	210	1175	380	338	164	2.5	68	28	120	345	350	440	1025	1120	1210	39	1034	36	578	135
600	600	265	210	1175	380	338	164	2.5	68	28	120	355	360	460	1025	1120	1210	39	1050	36	633	160
730	730	300	210	1291	407	370	180	2.5	74	29	130	395	400	500	1115	1220	1320	45	1120	36	645.5	160
900	900	320	240	1429	453	403	191	2.5	81	31	140	445	450	560	1215	1345	1460	52	1230	32	665	230
1100	1100	360	240	1507	483	435	197.5	5	87	34	150	450	460	560	1320	1450	1565	52	1330	36	700	250
1350	1350	360	240	1662	623	485	234	5	87	33	150	500	510	620	1475	1585	1705	62	1440	36	740	330
1600	1600	400	270	1662	538	474	240	5	87	33	160	500	510	620	1495	1635	1755	62	1500	36	765	360
1900	1900	400	270	1743	573	514	242	5	100	36	170	560	570	700	1495	1635	1755	62	1510	36	815	410
2450	2450	442	310	1960	656	564	272	5	112	40	180	590	600	750	1685	1825	1945	62	1680	40	888	510
3200	3200	475	310	2010	680	580	350	5	112	40	190	640	650	800	1835	1970	2090	62	1860	40	930	680
4200	4200	510	330	2300	800	670	335	5	150	45	200	770	780	1000	2060	2260	2400	82	2060	40	1010	810
5200	5200	580	350	2379	807	700	350	5	110	50	220	820	830	1100	2190	2355	2490	82	2190	40	1090	1200
5800	5800	580	350	2420	832	710	355	5	120	50	220	840	850	1140	2335	2510	2645	82	2335	40	1200	1300

-Further sizes on request

4.2 MPGC2 Dimensions

MPGC2H...K...H



Descriptions:

- 1) Parallel key and keyway acc. to DIN6885/1 2) L5 dimension excludes the inner chamfer dimension 3) Shaft diameter D1≤100 with tolerance m6, Shaft diameter D1 > 100 with tolerance n6 4) The input and output direction of rotation are the same

MPGC2H ...K...H	T _{2N} 1) kNm	L1 mm	L2 mm	L3 mm	L4 mm	L5 2) mm	L6 mm	L7 mm	L8 mm	D1 3) mm	D2 H7 mm	D3 H7 mm	D4 f7 mm	D5 h7 mm	D6 mm	D7 mm	D8 mm	D9 mm	No.	R mm	oil vol- ume ≈ L
100	100	140	714	241	200	95	2.5	39	9	80	175	180	240	535	595	645	26	540	24	368	24
130	130	140	737	278	220	105	2.5	42	9	80	205	210	260	610	665	720	26	595	32	380	28
190	190	160	877	294	250	120	2.5	50	10	95	245	250	320	750	830	895	33	762	24	446	47
250	250	180	1006	303	250	120	2.5	50	10	110	255	260	340	785	865	930	33	797	32	452	55
310	310	180	1029.5	327.5	280	135	2.5	56	12	110	275	280	360	840	915	980	33	839	36	494	80
370	370	180	1029.5	327.5	280	135	2.5	56	12	110	295	300	390	840	915	980	33	839	36	512	80
430	430	210	1046	354	314	152	2.5	62	24	120	325	330	420	935	1025	1115	39	939	32	556	104
500	500	210	1150	380	338	164	2.5	68	28	130	345	350	440	1025	1120	1210	39	1034	36	578	128
600	600	210	1150	380	338	164	2.5	68	28	130	355	360	460	1025	1120	1210	39	1050	36	633	170
730	730	240	1241	407	370	180	2.5	74	29	140	395	400	500	1115	1220	1320	45	1120	36	645.5	170
900	900	240	1379	453	403	191	2.5	81	31	150	445	450	560	1215	1345	1460	52	1230	32	665	250
1100	1100	270	1457	483	435	197.5	5	87	34	160	450	460	560	1320	1450	1565	52	1330	36	700	265
1350	1350	270	1607	538	479	232	5	94	36	170	500	510	620	1400	1545	1665	62	1416	32	740	360
1600	1600	310	1683	573	499	242	5	100	36	180	500	510	620	1495	1635	1755	62	1500	36	765	390
1900	1900	310	1683	573	514	242	5	100	36	180	560	570	700	1495	1635	1755	62	1510	36	815	450
2450	2450	310	1899	656	564	272	5	112	40	190	590	600	750	1685	1825	1945	62	1680	40	888	560

-Further sizes on request

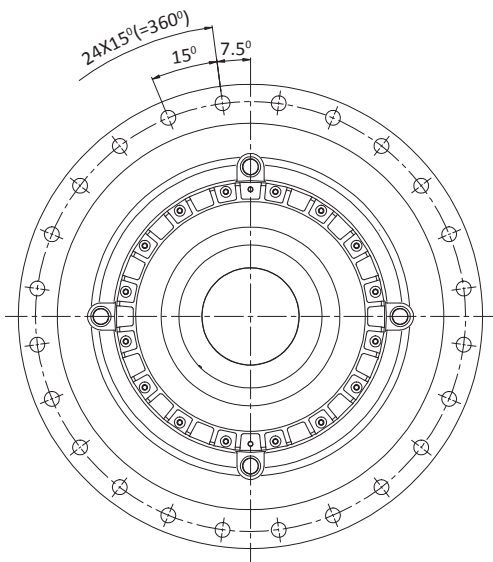
4

Dimensions

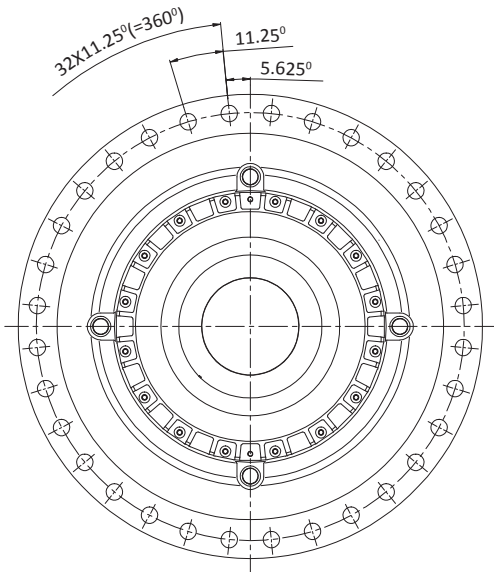
Bolt hole patterns of output flange

4.3 Bolt hole patterns of output flange

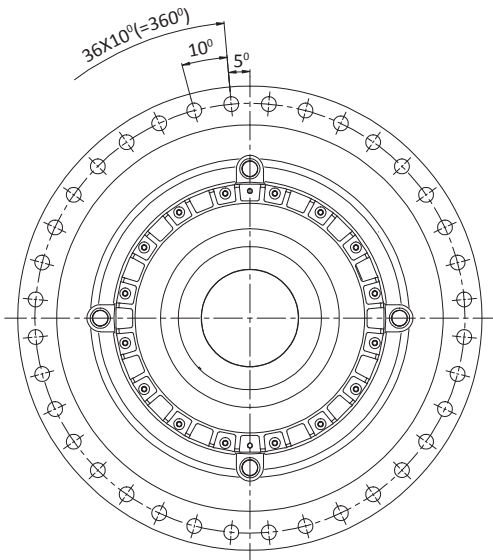
Viewing from output shaft side



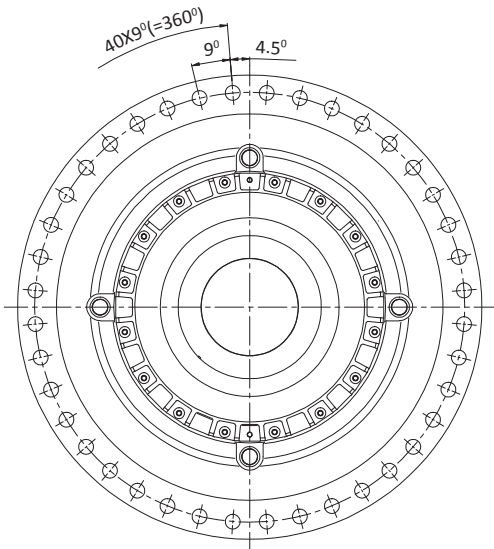
Size: 100,190



Size: 130,250,430,900,1350



Size: 310,370, 500, 600,
730,1100,1600,1900



Size: 2450, 3200, 4200, 5200, 5800

Accessories

5

Accessories

5.1. Accessories

MPGH2 / MPGC2 Gearbox Size	Shrink disks Inner diameter X Outer diameter (mm)	Lubrication station Nominal flow rate (L/min)
100	240 X 405	25
130	280 X 460	25
190	320 X 520	25
250	340 X 570	40
310	360 X 590	40
370	380 X 640	63
430	420 X 670	63
500	440 X 720	63
600	460 X 770	100
730	500 X 850	100
900	560 X 940	125
1100	560 X 940	125
1350	620 X 980	160
1600	620 X 1020	160
1900	700 X 1140	200
2450	750 X 1150	250
3200	800 X 1370	350
4200	1000 X 1590	400
5200	1100 X 1730	500
5800	1140 X 1730	600