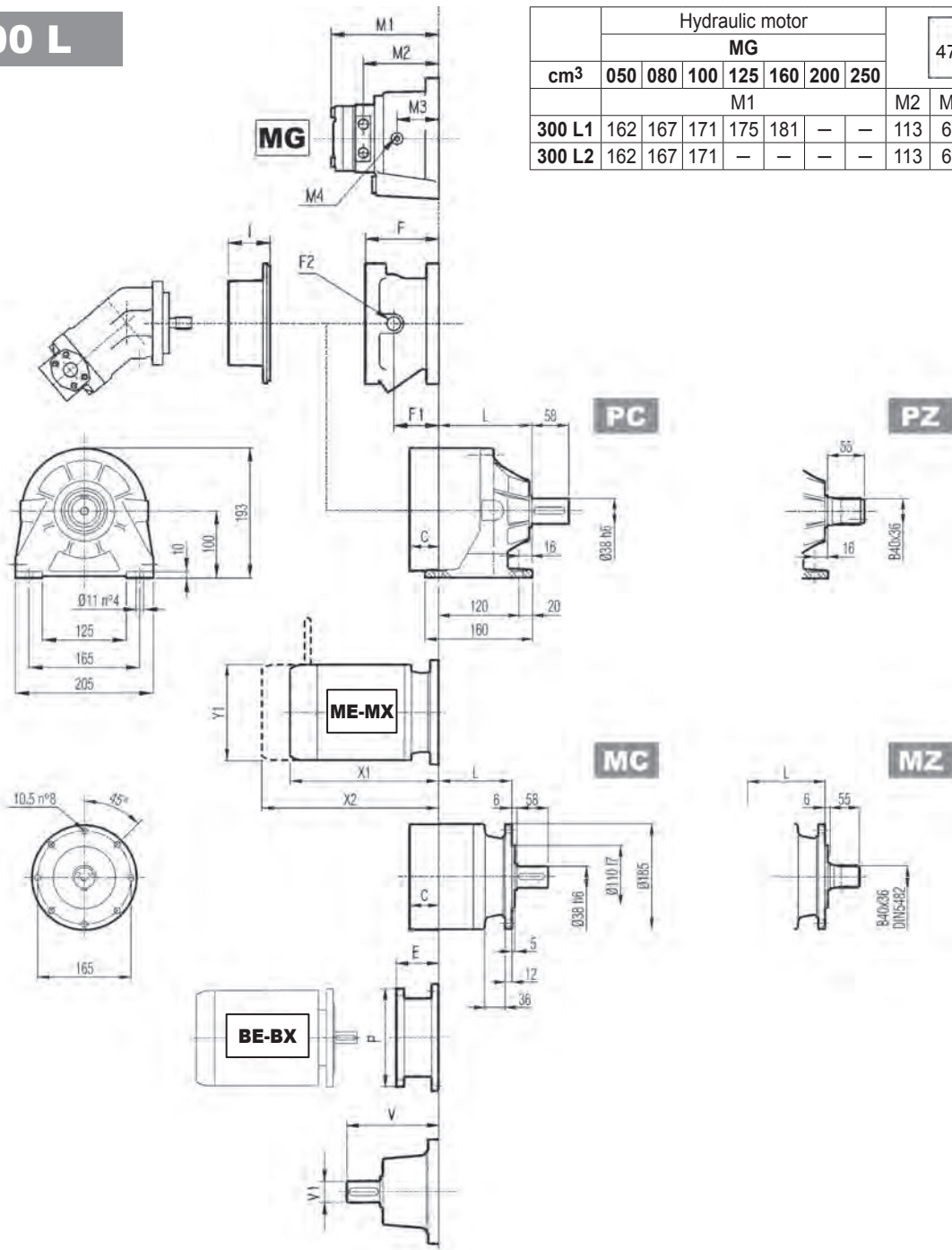


26 AMBESSUNGEN

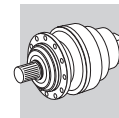
**300 L**



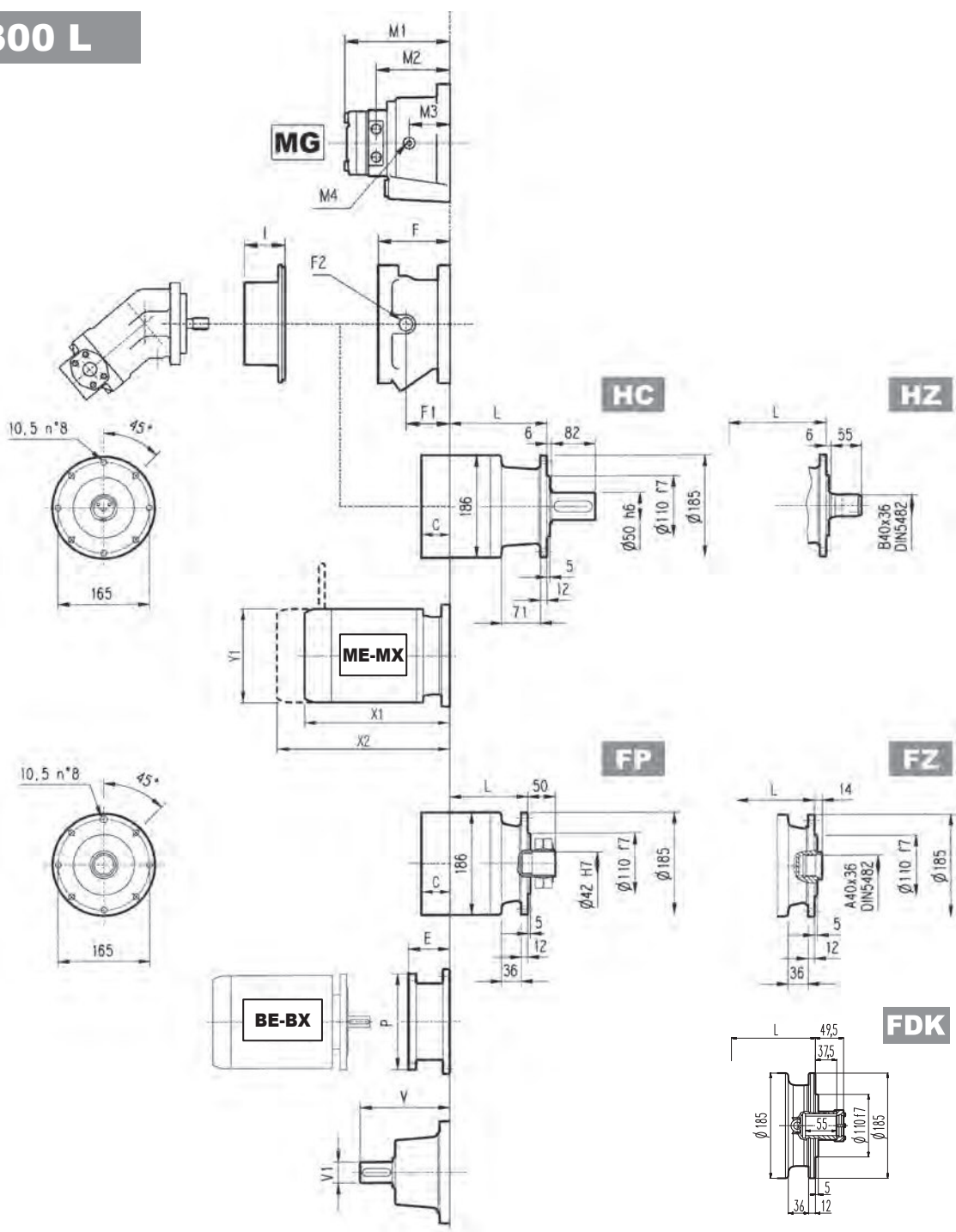
		Hydraulic motor										Kg	
		MG							471				
cm <sup>3</sup>	050	080	100	125	160	200	250	M1			M2	M3	M4
<b>300 L1</b>	162	167	171	175	181	—	—	113	60	1/4G	14		
<b>300 L2</b>	162	167	171	—	—	—	—	113	60	1/4G	14		

	L				Kg			
	MC - MZ	PC - PZ	HC - HZ	FP - FZ - FDK	MC - MZ	PC - PZ	HC - HZ	FP - FZ - FDK
<b>300 L1</b>	80	86	115	80	18	23	20	16
<b>300 L2</b>	133	139	168	133	22	27	24	20
<b>300 L3</b>	186	192	221	186	26	31	28	24
<b>300 L4</b>	239	245	274	239	30	35	32	28

	V	V1	Kg			C	Input	I	Kg						
			V	V1	Kg				F	F1	F2	Type	Input	Kg	
<b>300 L1</b>	137.5	24	6	158	38	7	37	A	461	105	65	1/4 G	4	A	10
<b>300 L2</b>	137.5	24	6	158	38	7	37	A		105	65	1/4 G	4	A	10
<b>300 L3</b>	137.5	24	6	158	38	7	37	A		105	65	1/4 G	4	A	10
<b>300 L4</b>	137.5	24	6	158	38	7	37	A		105	65	1/4 G	4	A	10



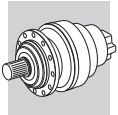
# 300 L



**FP**       $M_{2max} = 1300 \text{ Nm}$

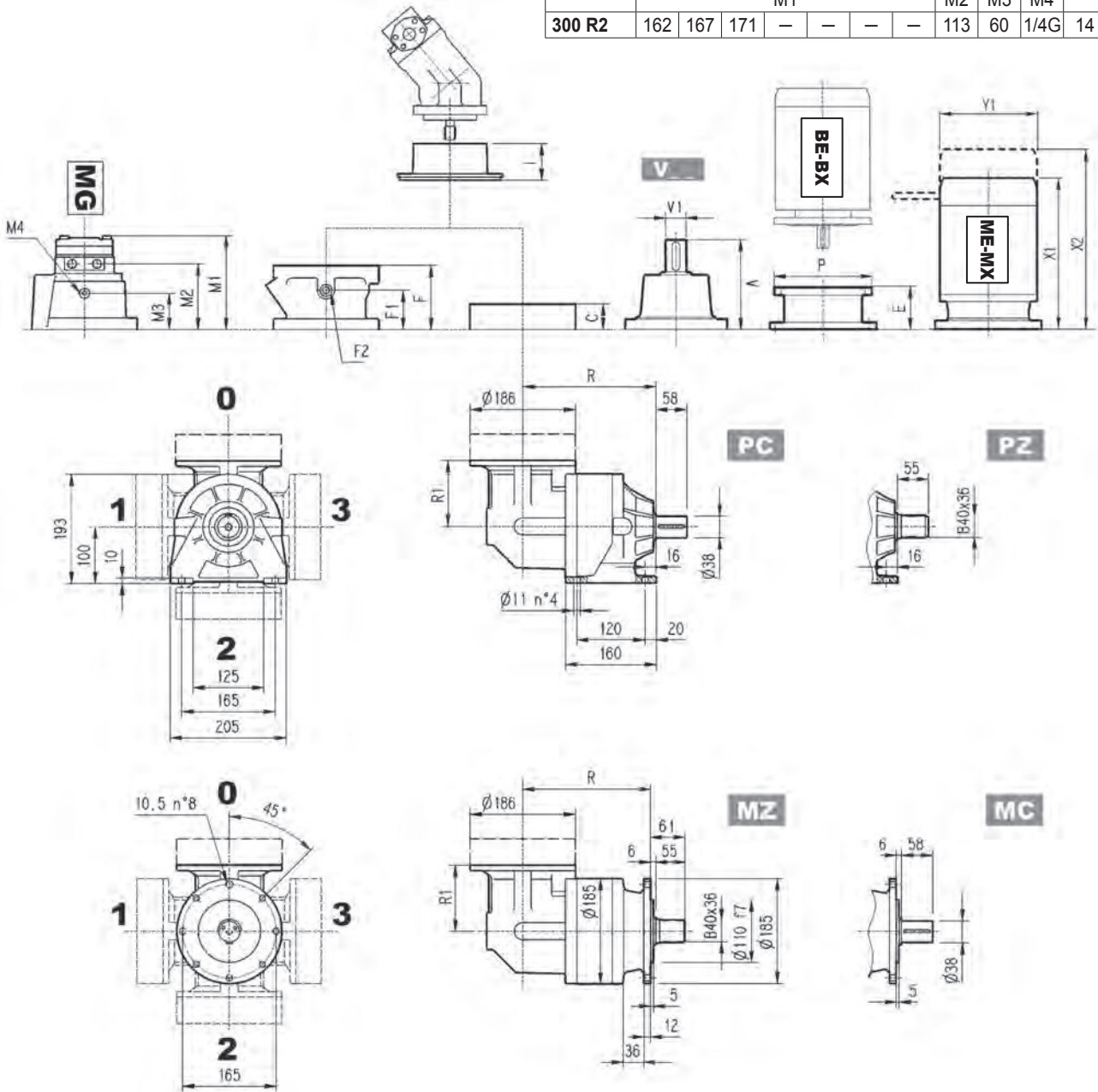
	P71		P80		P90		P100		P112		P132	
	E	P	E	P	E	P	E	P	E	P	E	P
<b>300 L1</b>	65	160	84	200	84	200	94	250	94	250	114	300
<b>300 L2</b>	65	160	84	200	84	200	94	250	94	250	114	300
<b>300 L3</b>	65	160	84	200	84	200	94	250	94	250	114	300
<b>300 L4</b>	65	160	84	200	84	200	94	250	94	250	114	300

	S1 + M1			S2 + ME2S/MX2S			S3 + ME3S/MX3S			S3 + ME3L/MX3L			S4 + ME4/MX4		
	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1
<b>300 L1</b>	253	314	138	324	—	156	357	—	195	401	—	195	460	—	258
<b>300 L2</b>	253	314	138	324	—	156	357	—	195	401	—	195	460	—	258
<b>300 L3</b>	253	314	138	324	—	156	357	—	195	401	—	195	460	—	258
<b>300 L4</b>	253	314	138	324	—	156	357	—	195	401	—	195	460	—	258



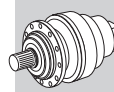
# 300 R

cm <sup>3</sup>	Hydraulic motor							471	Kg		
	MG										
	050	080	100	125	160	200	250				
	M1							M2	M3	M4	
<b>300 R2</b>	162	167	171	—	—	—	—	113	60	1/4G	14

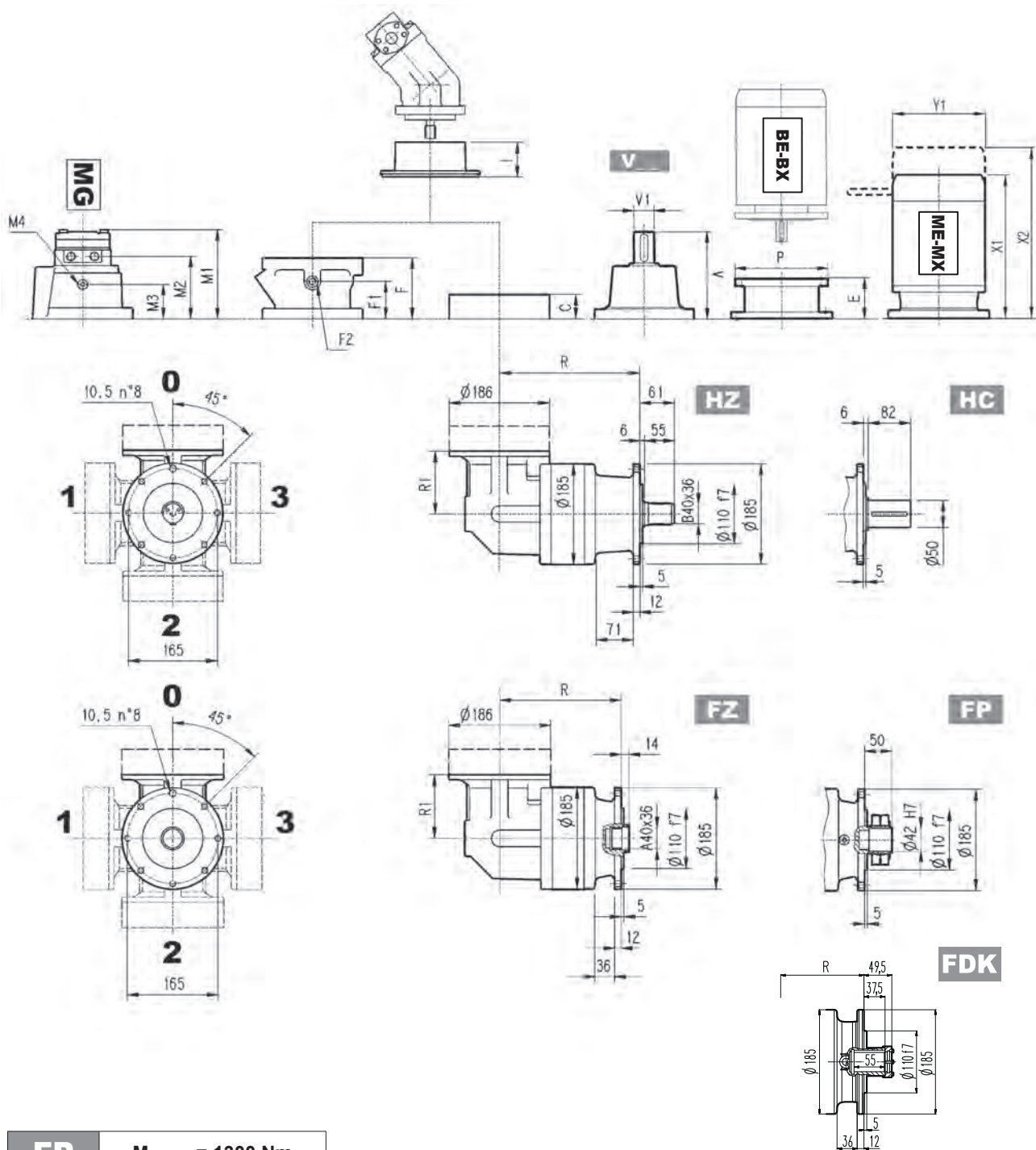


	R				R1	Kg			
	MC - MZ	PC - PZ	HC - HZ	FP - FZ - FDK		MC - MZ	PC - PZ	HC - HZ	FP - FZ - FDK
<b>300 R2</b>	172	178	207	172	122	32	37	34	30
<b>300 R3</b>	225	231	260	225	122	36	41	38	34
<b>300 R4</b>	278	284	313	278	122	40	45	42	38

	Motor head						Motor body			Motor					
	V	V1	Kg	V	V1	Kg	C	Input	I	F	F1	F2	Type	Input	Kg
<b>300 R2</b>	137.5	24	6	158	38	7	37	A	461	105	65	1/4 G	4	A	10
<b>300 R3</b>	137.5	24	6	158	38	7	37	A	461	105	65	1/4 G	4	A	10
<b>300 R4</b>	137.5	24	6	158	38	7	37	A	461	105	65	1/4 G	4	A	10



# 300 R

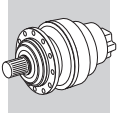


**FP**

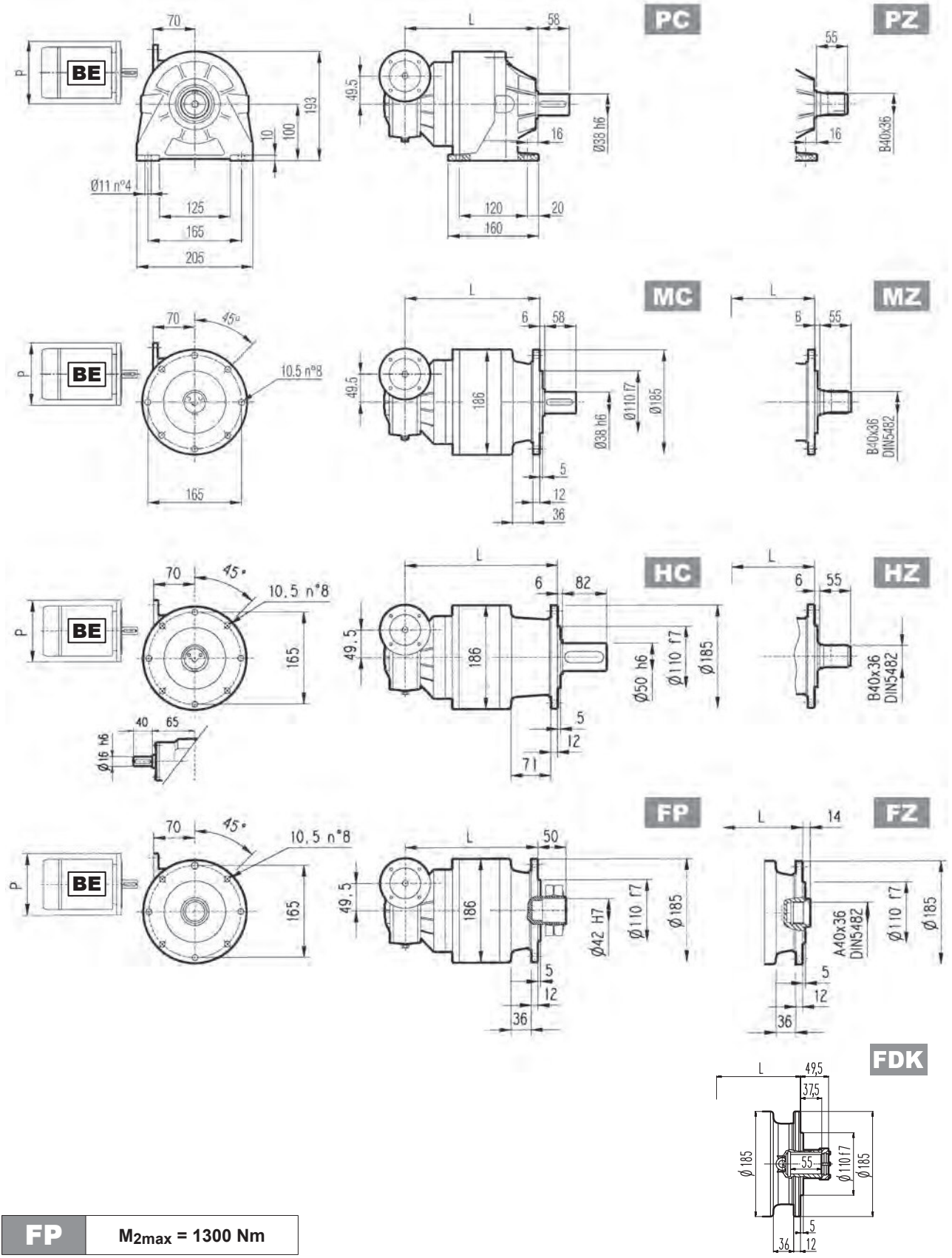
$M_{2max} = 1300 \text{ Nm}$

	P71		P80		P90		P100		P112		P132	
	E	P	E	P	E	P	E	P	E	P	E	P
300 R2	65	160	84	200	84	200	94	250	94	250	114	300
300 R3	65	160	84	200	84	200	94	250	94	250	114	300
300 R4	65	160	84	200	84	200	94	250	94	250	114	300

	S1 + M1			S2 + ME2S/MX2S			S3 + ME3S/MX3S			S3 + ME3L/MX3L			S4 + ME4/MX4		
	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1
300 R2	253	314	138	372	—	156	405	—	195	437	—	195	508	—	258
300 R3	253	314	138	372	—	156	405	—	195	437	—	195	—	—	—
300 R4	253	314	138	372	—	156	405	—	195	—	—	—	—	—	—

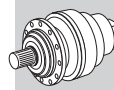


# 3/V 00 L3

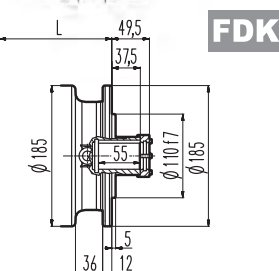
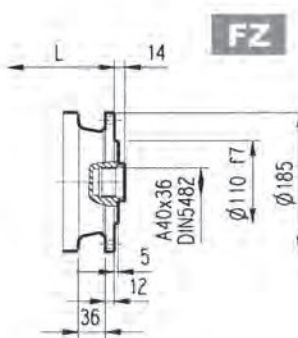
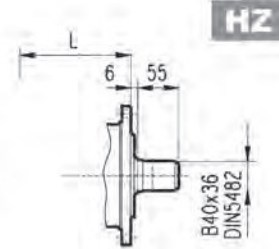
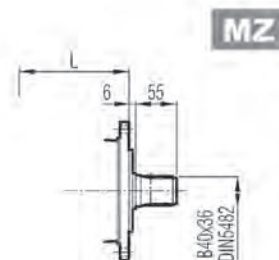
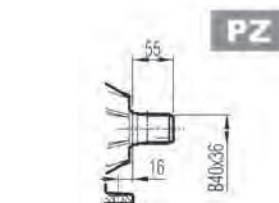
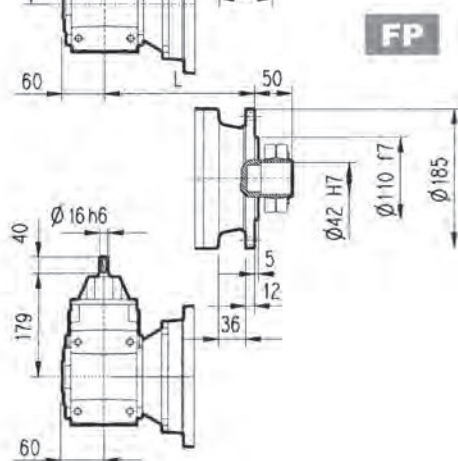
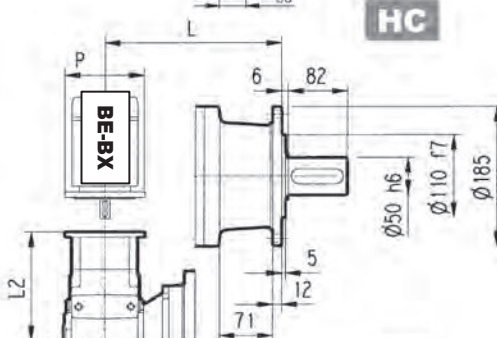
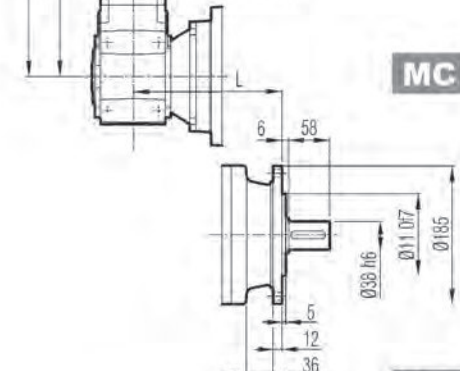
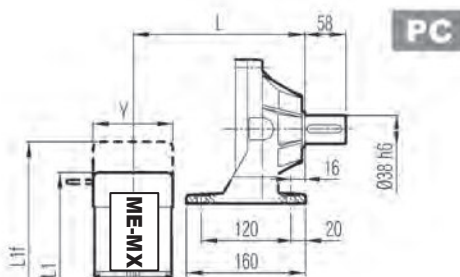
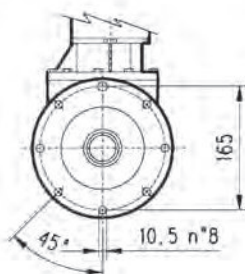
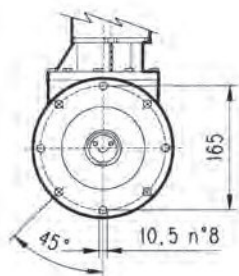
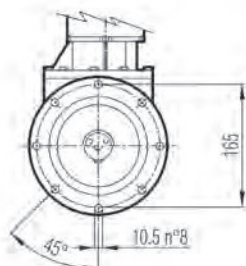
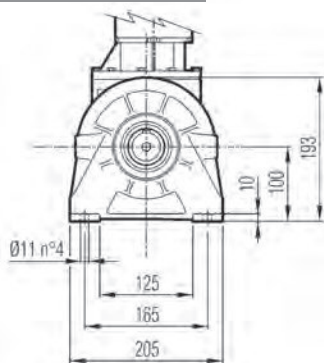


**FP**  $M_{2max} = 1300 \text{ Nm}$

3/V 00 L3	L			255	25	30	27	23	P63	P71	P80
	MC - MZ	PC - PZ	HC - HZ						P	P	P
	255	261	290	255	25	30	27	23	140	160	200

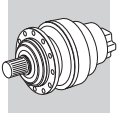


# 3/A 00 L2



**FP**  $M_{2max} = 1300 \text{ Nm}$

3/A 00 L2	L												Kg											
	MC - MZ		PC - PZ		HC - HZ		FP - FZ - FDK		MC - MZ		PC - PZ		HC - HZ		FP - FZ - FDK									
	193		199		228		193		38		43		40		36									
	P63		P71		P80		P90		P100		S1 + M1		S2 + ME2S/MX2S		S3 + ME3S/MX3S		S3 + ME3L/MX3L							
	L2	P	L2	P	L2	P	L2	P	L2	P	L1	L1f	Y	L1	L1f	Y	L1	L1f	Y					
3/A 00 L2	212.5	140	212.5	160	232	200	232	200	242	250	368	428	138	438	—	156	471	—	195	514	—	195		

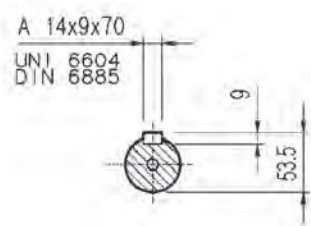
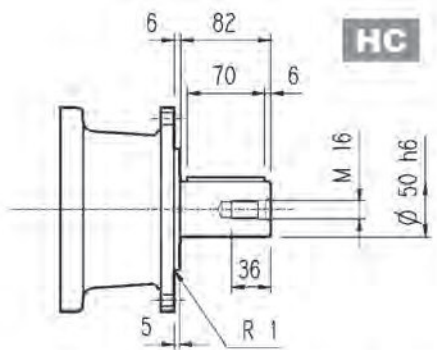
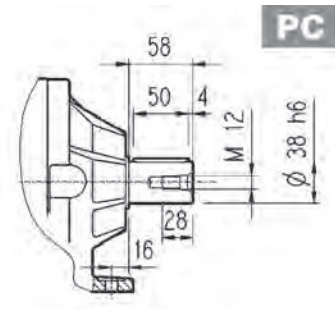
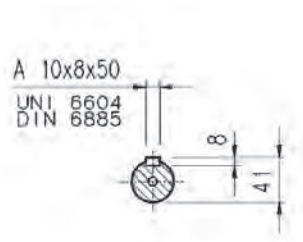
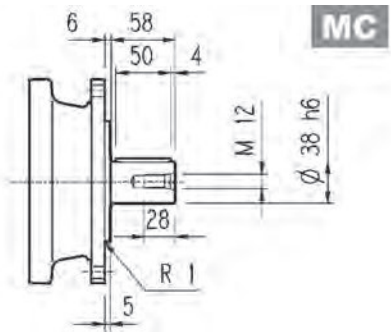


**300 L**

**300 R**

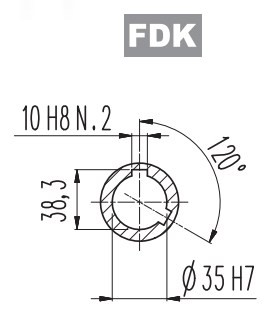
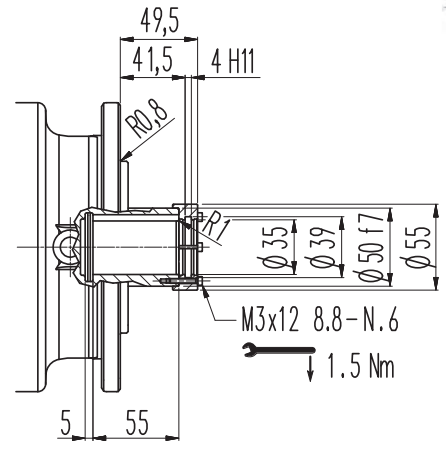
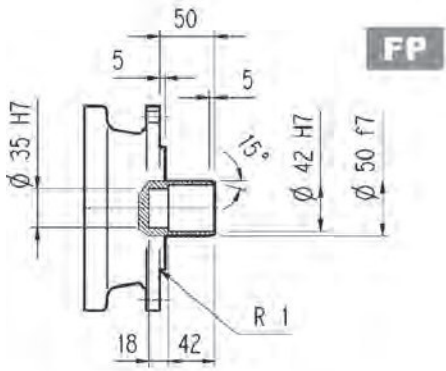
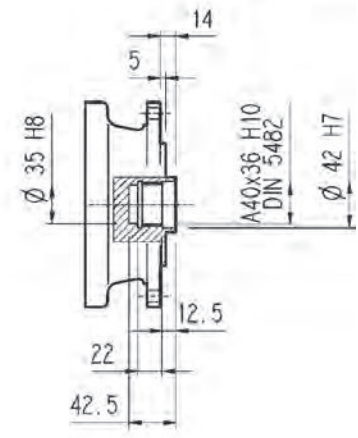
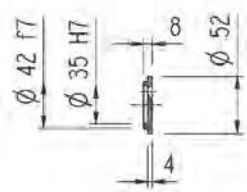
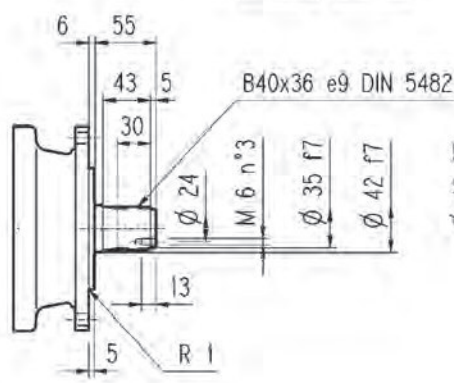
**3/V 00 L3**

**3/A 00 L2**

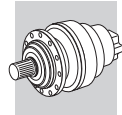


**MZ HZ**

**FZ**



**FP**  $M_{2max} = 1300 \text{ Nm}$



**300 L**

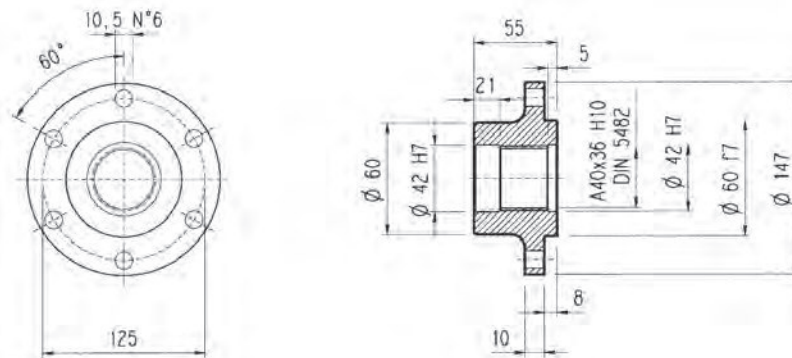
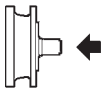
**300 R**

**3/V 00 L3**

**3/A 00 L2**

**Flansch**

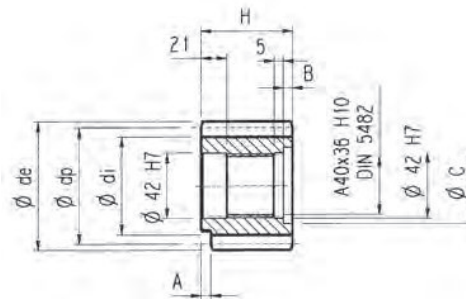
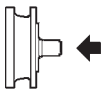
**W0A**



Material: Stahl C40

**Ritzel**

**P...**

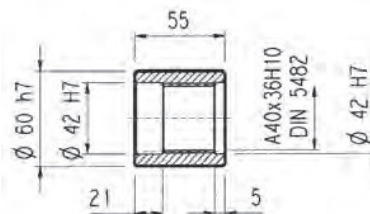
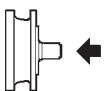


$\alpha = 20^\circ$

	m	z	x	dp	di	de	H	A	B	C	Material
PBE	4.5	14	0.507	63	56	75.5	55	—	—	—	Vergüteter Stahl 39NiCrMo3
PCE	5	14	0.500	70	62.5	84.8	65	—	10	53	
PDC	6	12	0.250	72	61	84.8	59	14	4	54	
PDE	6	14	0.500	84	73	99.6	65	—	10	54	

**Naben**

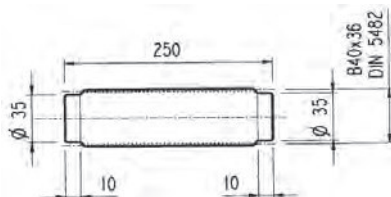
**M0A**



Material: Stahl 16CrNi4

**Vielkeilwellen**

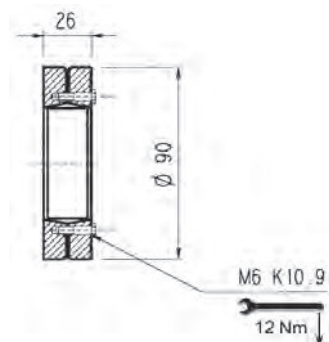
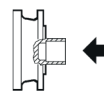
**B0A**



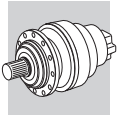
Material: Einsatzstahl 18NiCrMo5 UNI 5331  
muss einsatzgehärtet werden 50-55 HRC

**Schrumpfscheibe**

**G0A**

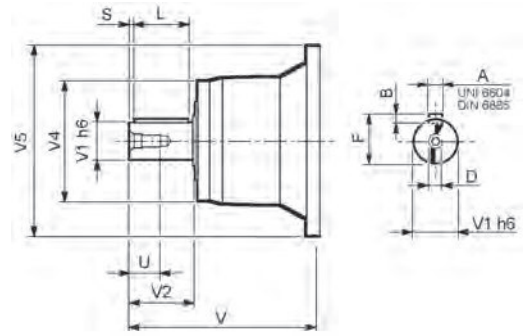






### 300 L

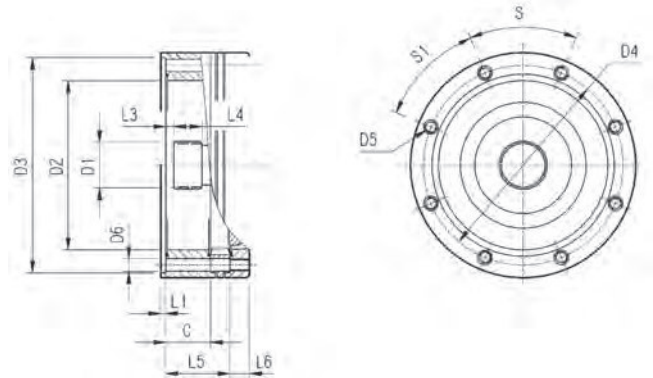
### 300 R



		V	V1	V2	V4	V5	A	B	F	L	S	D	U
300 L1	V01A	137.5	24	36	120	186	8	7	27	30	3	M8	19
	V01B	158	38	58	120	186	10	8	41	50	4	M12	28
300 L2	V01A	137.5	24	36	120	186	8	7	27	30	3	M8	19
	V01B	158	38	58	120	186	10	8	41	50	4	M12	28
300 L3	V01A	137.5	24	36	120	186	8	7	27	30	3	M8	19
	V01B	158	38	58	120	186	10	8	41	50	4	M12	28
300 L4	V01A	137.5	24	36	120	186	8	7	27	30	3	M8	19
	V01B	158	38	58	120	186	10	8	41	50	4	M12	28
300 R2-R3-R4	V01A	137.5	24	36	120	186	8	7	27	30	3	M8	19
	V01B	158	38	58	120	186	10	8	41	50	4	M12	28

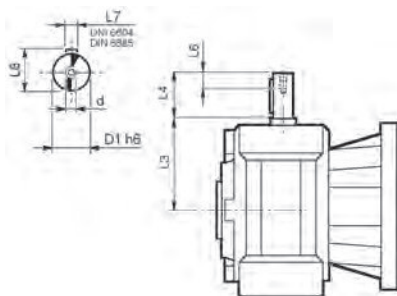
### 300 L

### 300 R



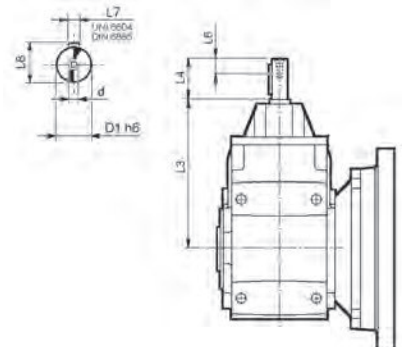
		C	D1	D2	D3	D4	D5	D6	L1	L2	L3	L4	L5	L6	S	S1	Input
300 L1	V9AA	37	40x36 DIN5482	140	178 H7	165	M10 n°8	11	4	—	9	18	53	18	45°	45°	A
300 L2	V9AA	37	40x36 DIN5482	140	178 H7	165	M10 n°8	11	4	—	9	18	106	18	45°	45°	A
300 L3	V9AA	37	40x36 DIN5482	140	178 H7	165	M10 n°8	11	4	—	9	18	159	18	45°	45°	A
300 L4	V9AA	37	40x36 DIN5482	140	178 H7	165	M10 n°8	11	4	—	9	18	212	18	45°	45°	A
300 R2-R3-R4	V9AA	37	40x36 DIN5482	140	178 H7	165	M10 n°8	11	4	—	9	18	37	18	45°	45°	A

### 3/V 00 L3

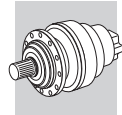


	D1 h6	L3	L4	L6	L7	L8	d
3/V 00 L3_HS	16	65	40	16	5	18	M6

### 3/A 00 L2



	D1 h6	L3	L4	L6	L7	L8	d
3/A 00 L2_HS	16	179	40	16	5	18	M6



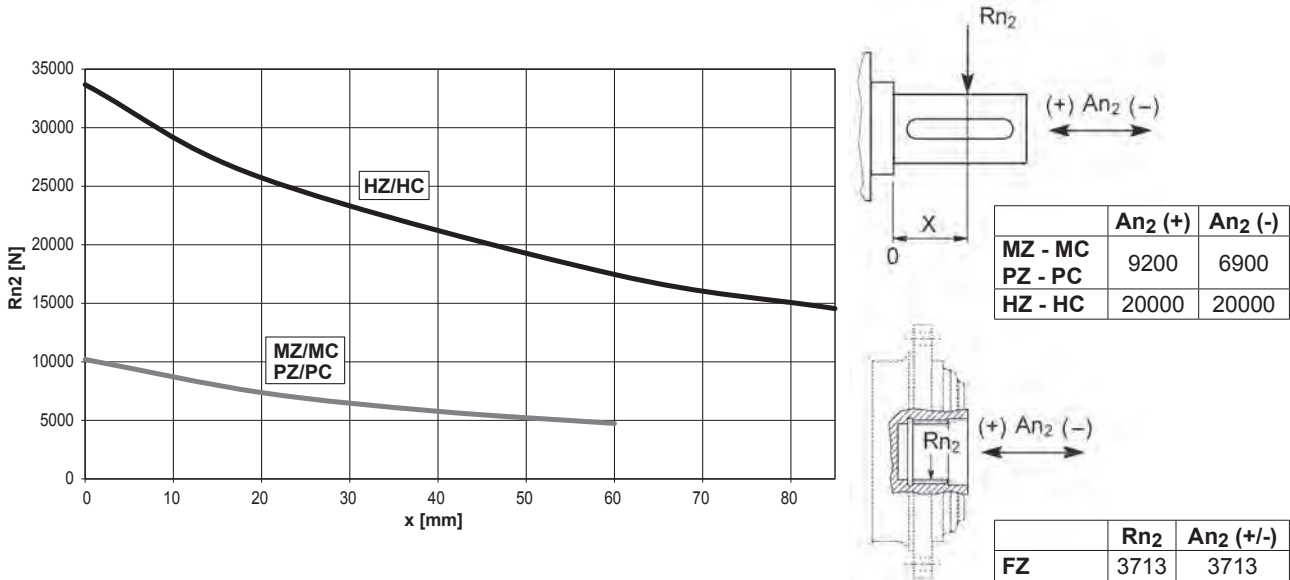
**300 L**

**300 R**

**3/V 00 L3**

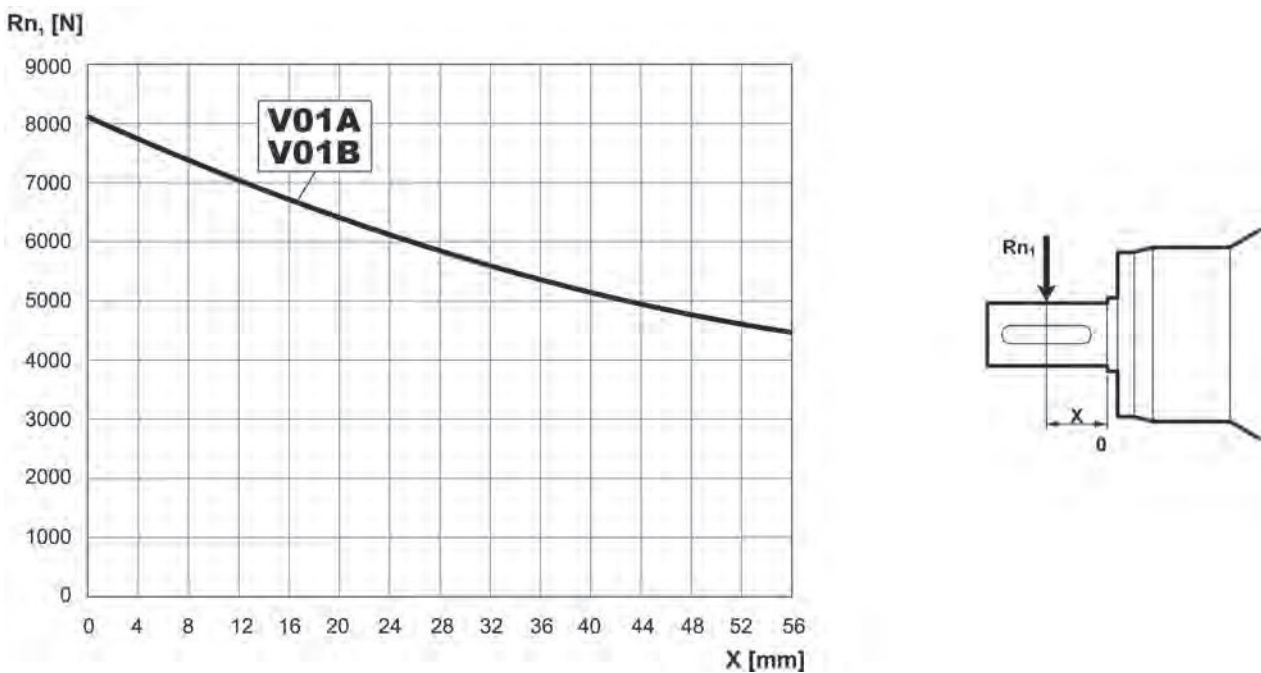
**3/A 00 L2**

An der Abtriebswelle zulässige Radial- und Axialkräfte für einen Wert von  $F_{h2} : n_2 \cdot h = 100000$

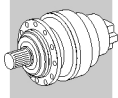


Korrekturfaktor $f_{h2}$ für Wellenbelastungen	$F_{h2} = n_2 \cdot h$		10000	25000	50000	100000	500000	1000000	
	$f_{h2}$	FZ		2.15	1.59	1.26	1.00	0.58	0.46
		MZ - MC - PZ - PC		2.15	1.59	1.26	1.00	0.58	0.46
HZ - HC		1.27	1.27	1.26	1.00	0.62	0.50		

An der Antriebswelle zulässige Radiallasten für einen Wert von  $F_{h1} : n_1 \times h = 250000$



Korrekturfaktor $f_{h1}$ für Wellenbelastungen	$F_{h1} = n_1 \cdot h$		250000	500000	1000000	2000000	5000000	10000000
	$f_{h1}$		1	0.79	0.63	0.50	0.37	0.29





**300 L**

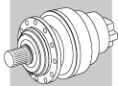


246

**1250 Nm**

	i	M <sub>n2</sub> [Nm]						P <sub>1</sub>	P <sub>t</sub>	n <sub>1</sub>	n <sub>1max</sub>	M <sub>b</sub>		M <sub>2max</sub>	
		n <sub>2</sub> ·h	n <sub>2</sub> ·h	n <sub>2</sub> ·h	n <sub>2</sub> ·h	n <sub>2</sub> ·h	n <sub>2</sub> ·h								[kW]
	1:	10000	25000	50000	100000	500000	1000000								
<b>L1</b>	3.48	760	730	730	730	730	730	20	7.5	2000	4000	260	4F	2000	
	4.26	1250	1070	950	860	840	720	20	7.5	2000	4000	330	4H	2400	
	5.77	860	730	650	650	650	630	20	7.5	2000	4000	260	4F	2400	
	7.20	700	600	550	550	550	510	16.5	7.5	2000	4000	160	4D	2400	
	9.00	460	390	370	370	370	370	8.9	7.5	2000	4000	160	4D	2400	
<b>L2</b>	12.1	760	730	730	730	730	730	11.9	7.5	2000	4000	100	4B	2000	
	14.8	1250	1070	950	860	840	720	12.6	7.5	2000	4000	100	4B	2000	
	18.2	1250	1070	950	860	840	720	10.4	7.5	2000	4000	100	4B	2400	
	20.1	860	730	650	650	650	630	7.2	7.5	2000	4000	100	4B	2000	
	24.6	1250	1070	950	860	840	720	7.8	7.5	2000	4000	100	4B	2400	
	30.7	1250	1070	950	860	840	720	6.4	7.5	2000	4000	50	4A	2400	
	33.3	860	730	650	650	650	630	4.3	7.5	2000	4000	50	4A	2400	
	38.4	1250	1070	950	860	840	720	5.2	7.5	2000	4000	50	4A	2400	
	41.5	860	730	650	650	650	630	3.5	7.5	2000	4000	50	4A	2400	
	51.9	860	730	650	650	650	630	2.9	7.5	2000	4000	50	4A	2400	
	64.8	700	600	550	550	550	510	2.0	7.5	2000	4000	50	4A	2400	
	<b>L3</b>	51.6	1250	1070	950	860	840	720	4.2	7.5	2000	4000	50	4A	2000
		63.2	1250	1070	950	860	840	720	3.5	7.5	2000	4000	50	4A	2400
69.9		860	730	650	650	650	630	2.4	7.5	2000	4000	50	4A	2000	
77.5		1250	1070	950	860	840	720	3.0	7.5	2000	4000	50	4A	2400	
85.6		1250	1070	950	860	840	720	2.7	7.5	2000	4000	50	4A	2400	
105		1250	1070	950	860	840	720	2.2	7.5	2000	4000	50	4A	2400	
116		860	730	650	650	650	630	1.6	7.5	2000	4000	50	4A	2400	
131		1250	1070	950	860	840	720	1.8	7.5	2000	4000	50	4A	2400	
142		1250	1070	950	860	840	720	1.6	7.5	2000	4000	50	4A	2400	
177		1250	1070	950	860	840	720	1.3	7.5	2000	4000	50	4A	2400	
192		860	730	650	650	650	630	1.0	7.5	2000	4000	50	4A	2400	
221		1250	1070	950	860	840	720	1.0	7.5	2000	4000	50	4A	2400	
240		860	730	650	650	650	630	0.82	7.5	2000	4000	50	4A	2400	
299		860	730	650	650	650	630	0.66	7.5	2000	4000	50	4A	2400	
374		860	730	650	650	650	630	0.53	7.5	2000	4000	50	4A	2400	
<b>L4</b>	330	1250	1070	950	860	840	720	0.72	6	2000	4000	50	4A	2400	
	403	860	730	650	650	650	630	0.50	6	2000	4000	50	4A	2400	
	447	1250	1070	950	860	840	720	0.53	6	2000	4000	50	4A	2400	
	494	1250	1070	950	860	840	720	0.48	6	2000	4000	50	4A	2400	
	558	1250	1070	950	860	840	720	0.42	6	2000	4000	50	4A	2400	
	616	1250	1070	950	860	840	720	0.38	6	2000	4000	50	4A	2400	
	755	1250	1070	950	860	840	720	0.31	6	2000	4000	50	4A	2400	
	819	1250	1070	950	860	840	720	0.29	6	2000	4000	50	4A	2400	
	942	1250	1070	950	860	840	720	0.25	6	2000	4000	50	4A	2400	
	1022	1250	1070	950	860	840	720	0.23	6	2000	4000	50	4A	2400	
	1108	860	730	650	650	650	630	0.18	6	2000	4000	50	4A	2400	
	1275	1250	1070	950	860	840	720	0.19	6	2000	4000	50	4A	2400	
	1383	860	730	650	650	650	630	0.15	6	2000	4000	50	4A	2400	
	1591	1250	1070	950	860	840	720	0.15	6	2000	4000	50	4A	2400	
	1725	860	730	650	650	650	630	0.12	6	2000	4000	50	4A	2400	
	2153	860	730	650	650	650	630	0.09	6	2000	4000	50	4A	2400	
	2692	1000	1000	890	850	760	630	0.09	6	2000	4000	50	4A	2400	

C





# 300 R



248

# 1250 Nm

	i	M <sub>n2</sub> [Nm]						P <sub>1</sub>	Pt	n <sub>1</sub>	n <sub>1max</sub>	M <sub>b</sub>		M <sub>2max</sub>
		n <sub>2</sub> ·h	n <sub>2</sub> ·h	n <sub>2</sub> ·h	n <sub>2</sub> ·h	n <sub>2</sub> ·h	n <sub>2</sub> ·h							
	1:	10000	25000	50000	100000	500000	1000000							
<b>R2</b>	7.13	760	730	730	730	730	730	15.0	12	2000	4000	160	4D	2000
	8.74	1250	1070	950	860	840	720	15.0	12	2000	4000	160	4D	2400
	11.8	860	730	650	650	650	630	12.2	12	2000	4000	100	4B	2400
	14.8	700	600	550	550	550	510	8.3	12	2000	4000	100	4B	2400
	18.5	460	390	370	370	370	370	4.5	12	2000	4000	100	4B	2400
<b>R3</b>	24.8	760	730	730	730	730	730	6.2	12	2000	4000	50	4A	2000
	30.4	1250	1070	950	860	840	720	6.6	12	2000	4000	50	4A	2400
	37.3	1250	1070	950	860	840	720	5.5	12	2000	4000	50	4A	2400
	41.2	860	730	650	650	650	630	3.6	12	2000	4000	50	4A	2400
	50.4	1250	1070	950	860	840	720	4.3	12	2000	4000	50	4A	2400
	62.9	1250	1070	950	860	840	720	3.5	12	2000	4000	50	4A	2400
	68.2	860	730	650	650	650	630	2.4	12	2000	4000	50	4A	2400
	78.7	1250	1070	950	860	840	720	2.9	12	2000	4000	50	4A	2400
	85.2	860	730	650	650	650	630	2.0	12	2000	4000	50	4A	2400
	106	860	730	650	650	650	630	1.7	12	2000	4000	50	4A	2400
	133	700	600	550	550	550	510	1.2	12	2000	4000	50	4A	2400
	<b>R4</b>	106	1250	1070	950	860	840	720	2.2	10	2000	4000	50	4A
130		1250	1070	950	860	840	720	1.8	10	2000	4000	50	4A	2400
143		860	730	650	650	650	630	1.4	10	2000	4000	50	4A	2400
159		1250	1070	950	860	840	720	1.5	10	2000	4000	50	4A	2400
175		1250	1070	950	860	840	720	1.3	10	2000	4000	50	4A	2400
215		1250	1070	950	860	840	720	1.1	10	2000	4000	50	4A	2400
237		860	730	650	650	650	630	0.86	10	2000	4000	50	4A	2400
268		1250	1070	950	860	840	720	0.88	10	2000	4000	50	4A	2400
291		1250	1070	950	860	840	720	0.81	10	2000	4000	50	4A	2400
363		1250	1070	950	860	840	720	0.65	10	2000	4000	50	4A	2400
394		860	730	650	650	650	630	0.52	10	2000	4000	50	4A	2400
453		1250	1070	950	860	840	720	0.52	10	2000	4000	50	4A	2400
491		860	730	650	650	650	630	0.41	10	2000	4000	50	4A	2400
613		860	730	650	650	650	630	0.33	10	2000	4000	50	4A	2400
766		860	730	650	650	650	630	0.27	10	2000	4000	50	4A	2400

C