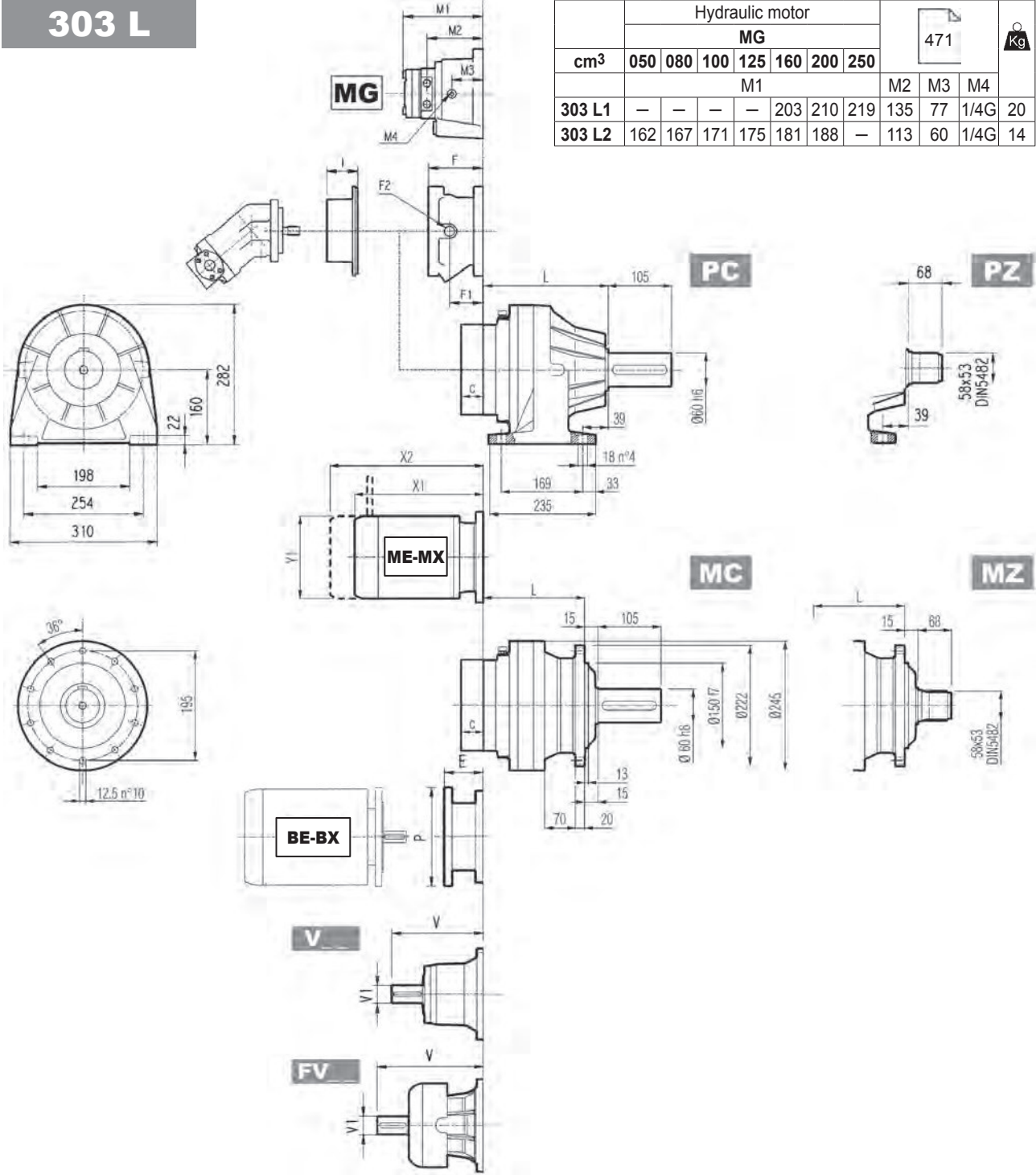


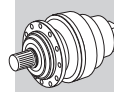
303 L



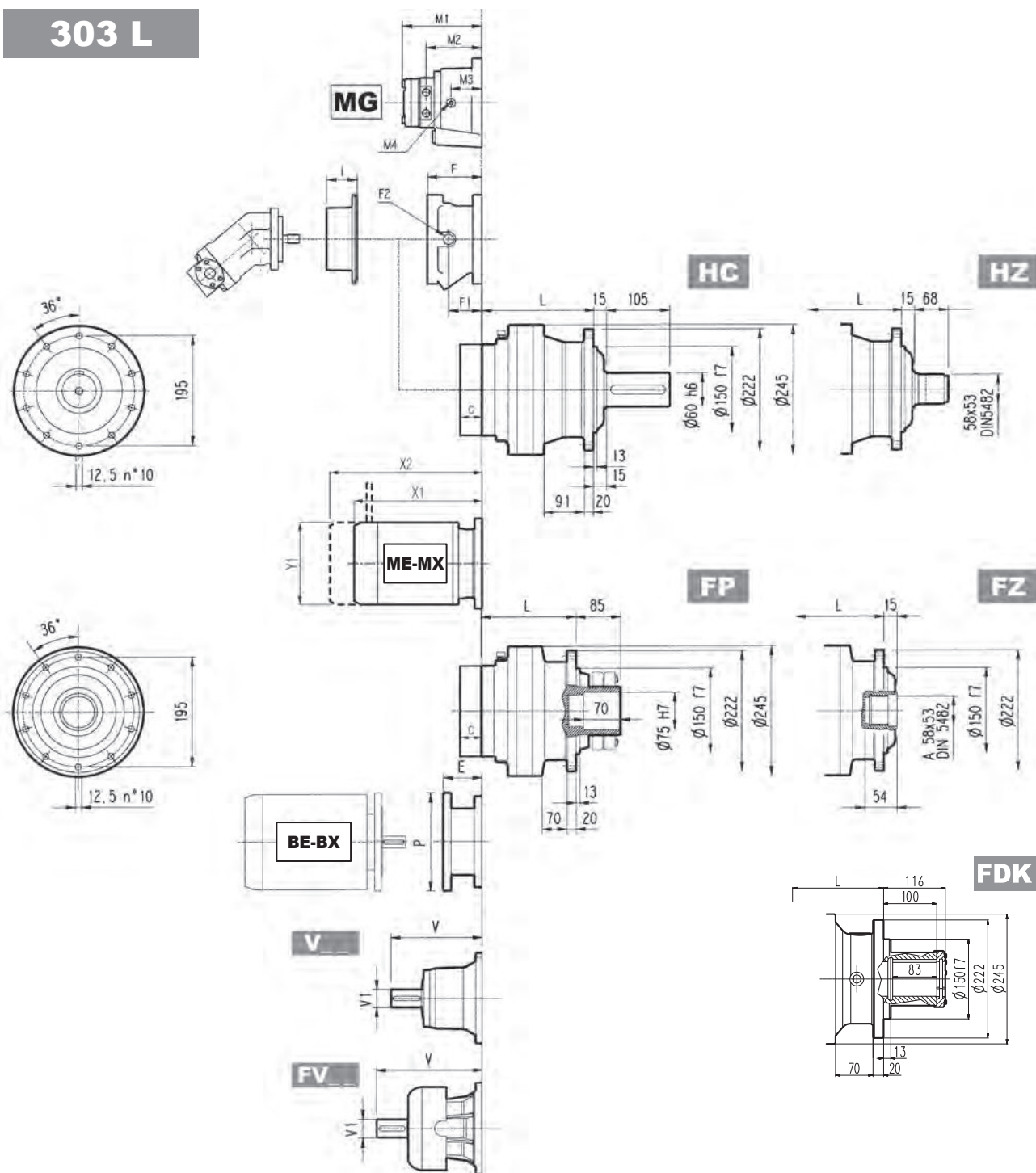
		Hydraulic motor							471			Kg
		MG										
cm ³		050	080	100	125	160	200	250				
		M1							M2	M3	M4	
303 L1		—	—	—	—	203	210	219	135	77	1/4G	20
303 L2		162	167	171	175	181	188	—	113	60	1/4G	14

	L				Kg			
	MC - MZ	PC - PZ	HC - HZ	FP - FZ - FDK	MC - MZ	PC - PZ	HC - HZ	FP - FZ - FDK
303 L1	125	165	150	125	31	40	35	31
303 L2	178	218	203	178	35	44	39	35
303 L3	231	271	256	231	39	48	43	39
303 L4	284	324	309	284	43	52	47	43

	V			Kg			V			Kg			C	Input	I	F			Type	Input	Kg
	V	V1	Kg	V	V1	Kg	V	V1	Kg	V	V1	Kg				F	F1	F2			
303 L1	239	48	15	—	—	—	276	48	17	—	—	—	37	A	—	145	95	1/4 G	5	A	16
303 L2	137.5	24	6	158	38	7	—	—	—	—	—	—	37	A	—	105	65	1/4 G	4	A	10
303 L3	137.5	24	6	158	38	7	—	—	—	—	—	—	37	A	—	105	65	1/4 G	4	A	10
303 L4	137.5	24	6	158	38	7	—	—	—	—	—	—	37	A	461	105	65	1/4 G	4	A	10



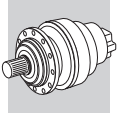
303 L



FP $M_{2max} = 5200 \text{ Nm}$

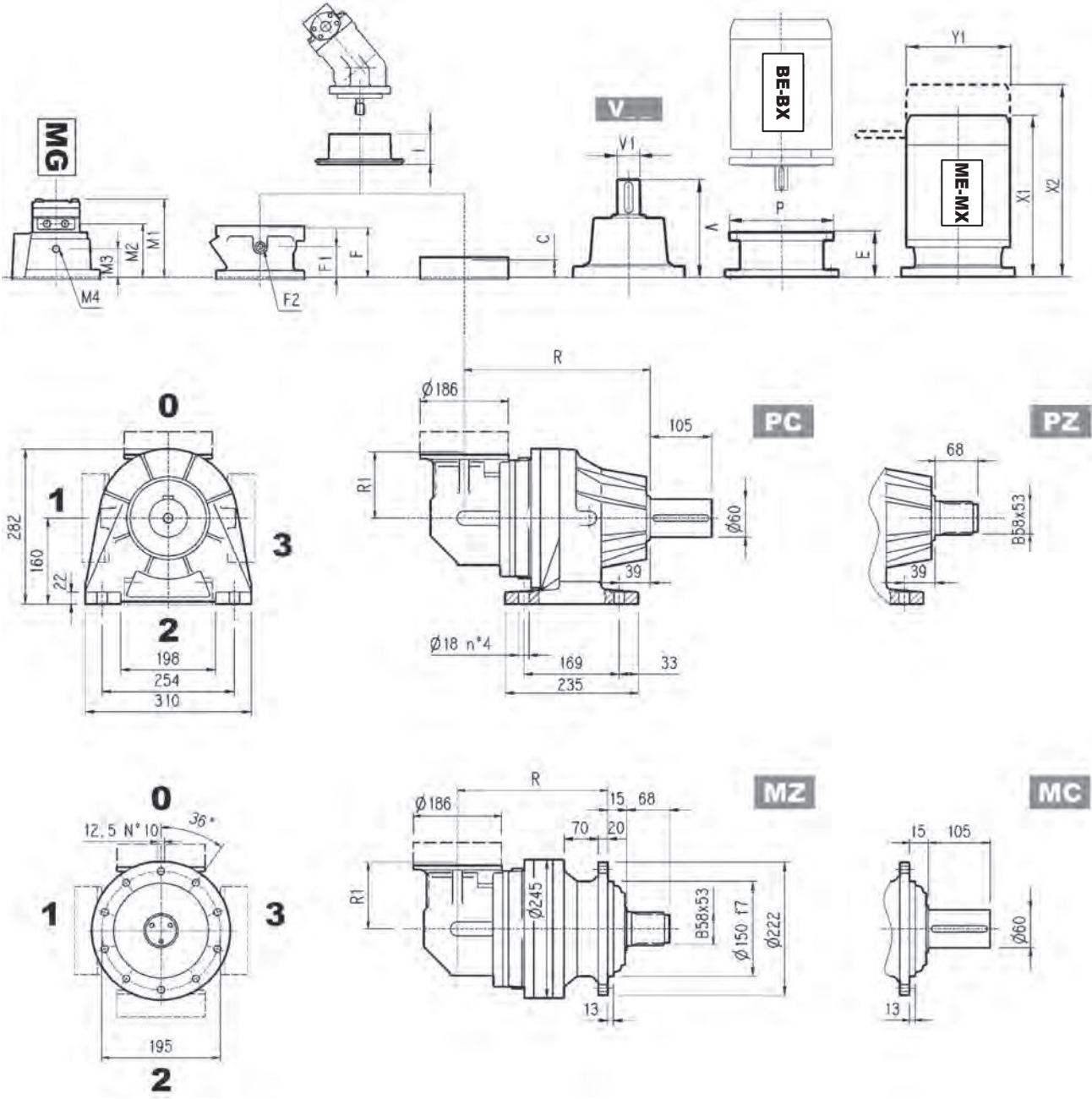
	P71		P80		P90		P100		P112		P132		P160		P180		P200	
	E	P	E	P	E	P	E	P	E	P	E	P	E	P	E	P	E	P
303 L1	—	—	—	—	—	—	—	—	—	—	114	300	144	350	144	350	174	400
303 L2	65	160	84	200	84	200	94	250	94	250	114	300	144	350	—	—	—	—
303 L3	65	160	84	200	84	200	94	250	94	250	114	300	144	350	—	—	—	—
303 L4	65	160	84	200	84	200	94	250	94	250	114	300	144	350	—	—	—	—

	S1 + M1			S2 + ME2S/MX2S			S3 + ME3S/MX3S			S3 + ME3L/MX3L			S4 + ME4/MX4			S5 + ME5S/MX5S			S5 + ME5L/MX5L		
	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1
303 L1	—	—	—	—	—	—	—	—	—	—	—	—	460	—	258	552	—	310	596	—	310
303 L2	253	314	138	324	—	156	357	—	195	401	—	195	460	—	258	—	—	—	—	—	—
303 L3	253	314	138	324	—	156	357	—	195	401	—	195	460	—	258	—	—	—	—	—	—
303 L4	253	314	138	324	—	156	357	—	195	401	—	195	460	—	258	—	—	—	—	—	—



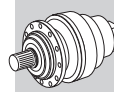
303 R

	Hydraulic motor							471			Kg
	MG										
cm ³	050	080	100	125	160	200	250	M2	M3	M4	
303 R2	162	167	171	175	181	188	—	113	60	1/4G	14

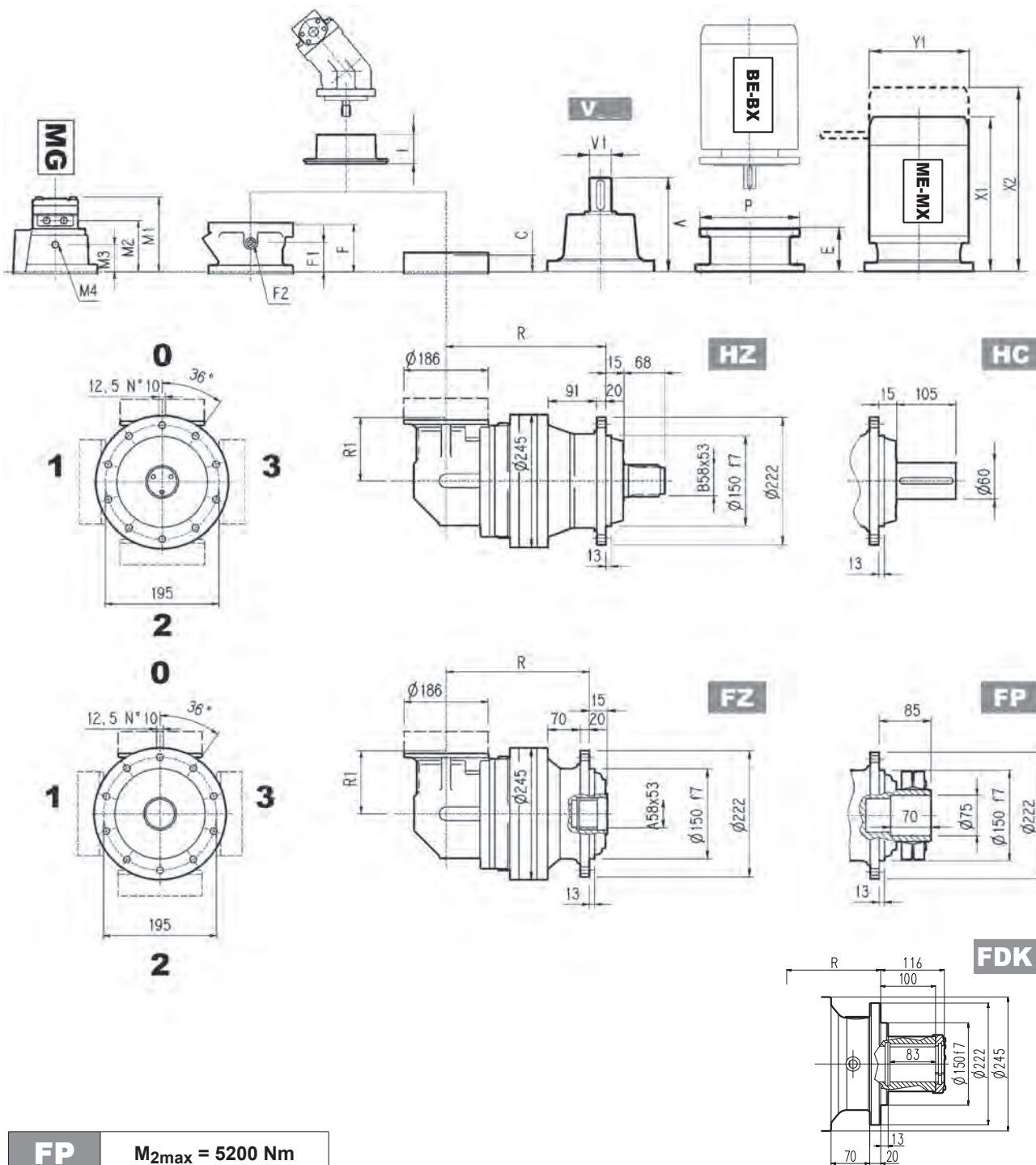


	R				R1	Kg			
	MC - MZ	PC - PZ	HC - HZ	FP - FZ - FDK		MC - MZ	PC - PZ	HC - HZ	FP - FZ - FDK
303 R2	217	257	242	217	140	51	60	55	51
303 R3	270	310	295	270	122	49	58	53	49
303 R4	323	363	348	323	122	53	62	57	53

	V						C	Input	I	F					
	V	V1	Kg	V	V1	Kg				F	F1	F2	Type	Input	Kg
303 R2	137.5	24	6	158	38	7	37	A	461	105	65	1/4 G	4	A	10
303 R3	137.5	24	6	158	38	7	37	A	461	105	65	1/4 G	4	A	10
303 R4	137.5	24	6	158	38	7	37	A	461	105	65	1/4 G	4	A	10



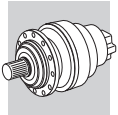
303 R



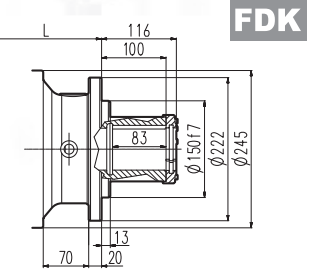
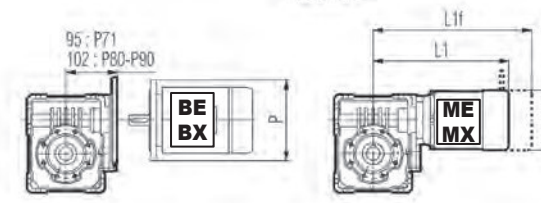
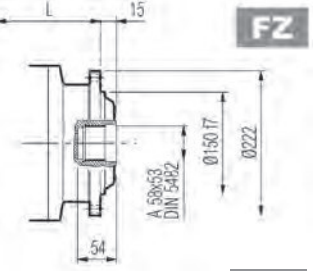
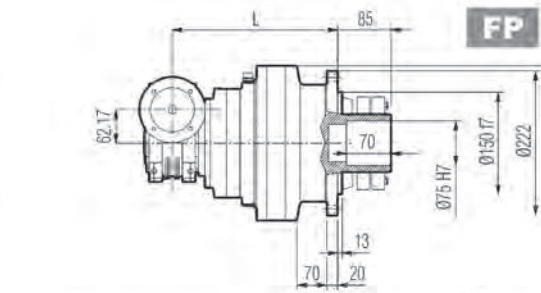
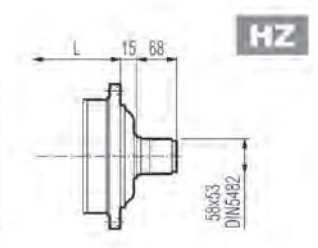
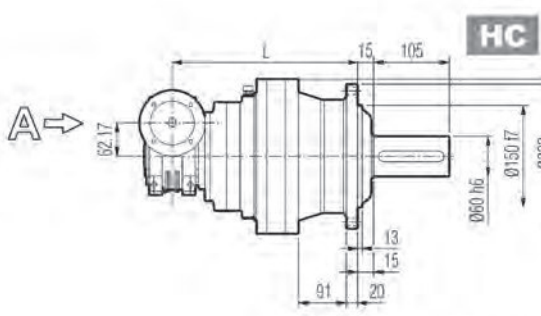
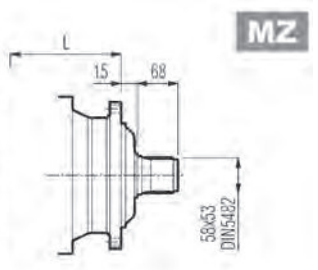
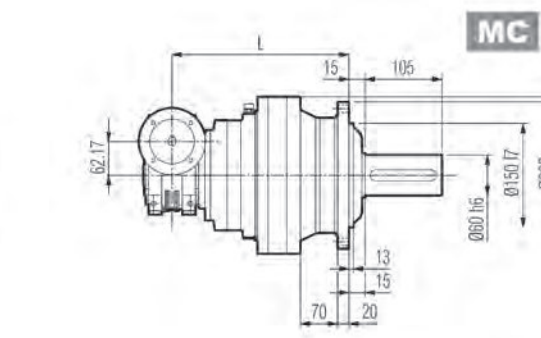
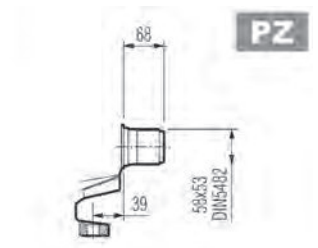
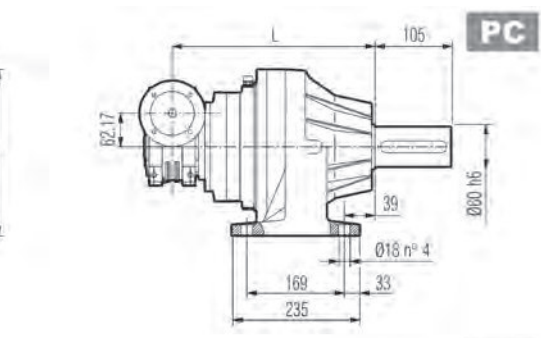
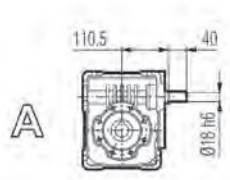
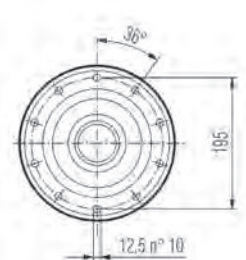
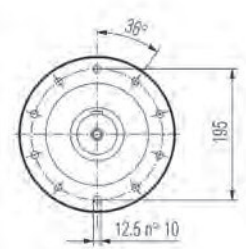
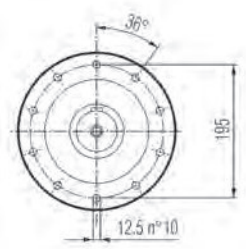
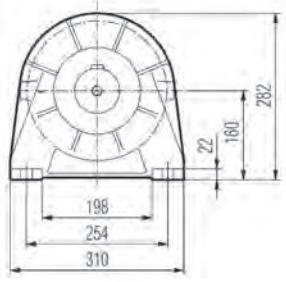
FP $M_{2max} = 5200 \text{ Nm}$

	P71		P80		P90		P100		P112		P132	
	E	P	E	P	E	P	E	P	E	P	E	P
303 R2	65	160	84	200	84	200	94	250	94	250	114	300
303 R3	65	160	84	200	84	200	94	250	94	250	114	300
303 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
303 R2	—	—	—	372	—	156	405	—	195	449	—	195	508	—	258
303 R3	253	314	138	372	—	156	405	—	195	449	—	195	—	—	—
303 R4	253	314	138	372	—	156	405	—	195	449	—	195	—	—	—



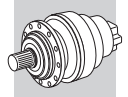
3/V 03 L3



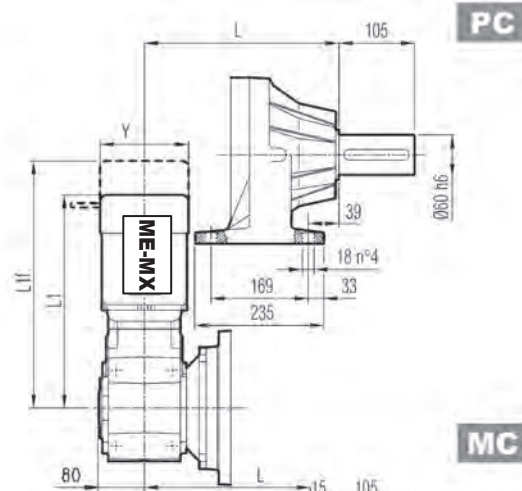
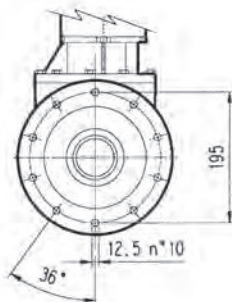
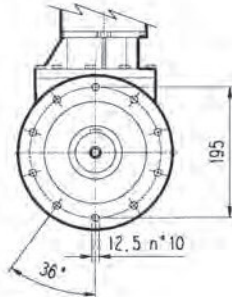
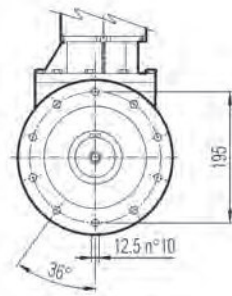
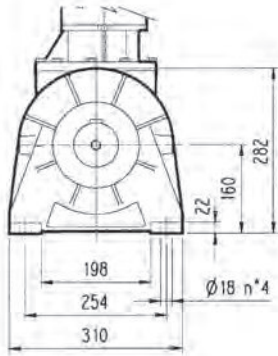
FP $M_{2max} = 5200 \text{ Nm}$

3/V 03 L3	L				Kg			
	MC - MZ	PC - PZ	HC - HZ	FP - FZ - FDK	MC - MZ	PC - PZ	HC - HZ	FP - FZ - FDK
	270	330	315	270	43	51	45	41

3/V 03 L3	P71	P80	P90	S1 + M1			S2 + ME2S/MX2S		
	P	P	P	L1	L1f	Y	L1	L1f	Y
	160	200	200	289	350	138	351	—	156



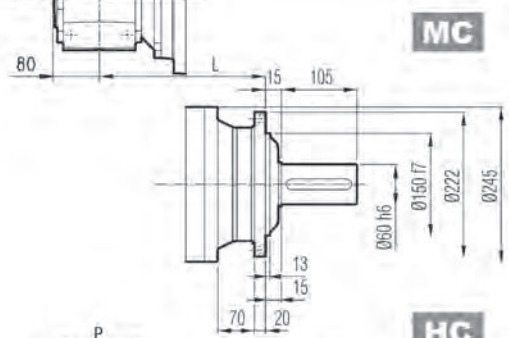
3/A 03 L2



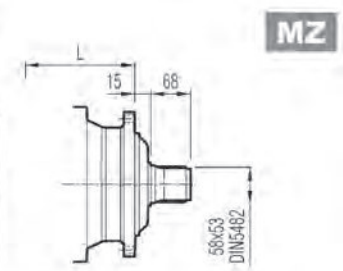
PC



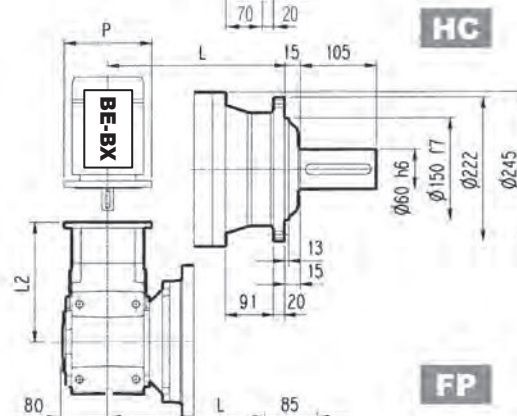
PZ



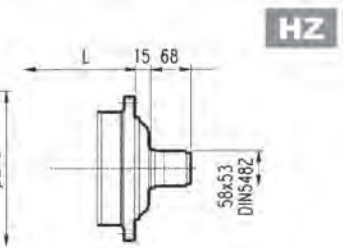
MC



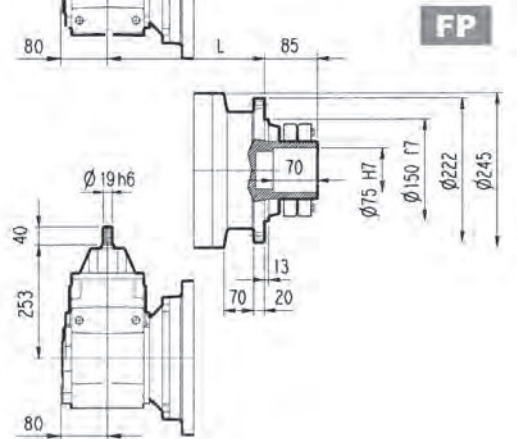
MZ



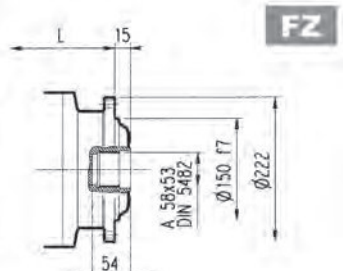
HC



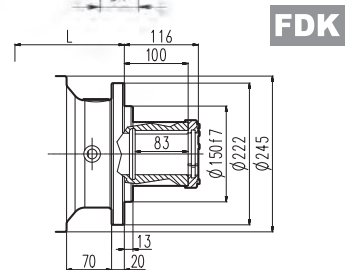
HZ



FP



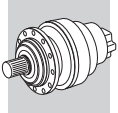
FZ



FDK

FP $M_{2max} = 5200 \text{ Nm}$

	L								Kg															
	MC - MZ		PC - PZ		HC - HZ		FP - FZ - FDK		MC - MZ		PC - PZ		HC - HZ		FP - FZ - FDK									
3/A 03 L2	225		285		270		225		63		71		65		60									
	P63		P71		P80		P90		P100		P112		S1 + M1		S2 + ME2S/MX2S		S3 + ME3S/MX3S		S3 + ME3L/MX3L					
	L2	P	L2	P	L2	P	L2	P	L2	P	L2	P	L1	L1f	Y	L1	L1f	Y	L1	L1f	Y			
3/A 03 L2	243	140	243	160	262	200	262	200	272	250	272	250	399	416	138	469	—	156	502	—	195	545	—	195

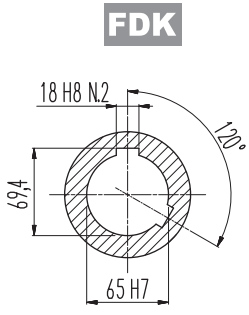
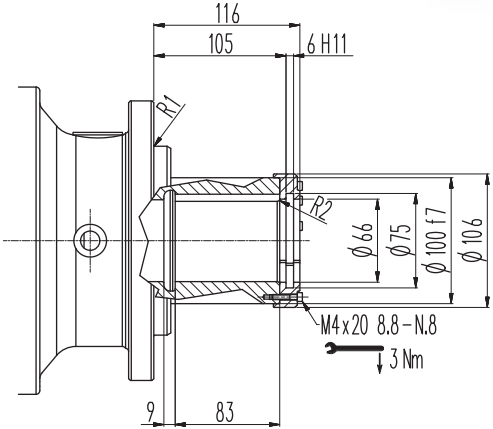
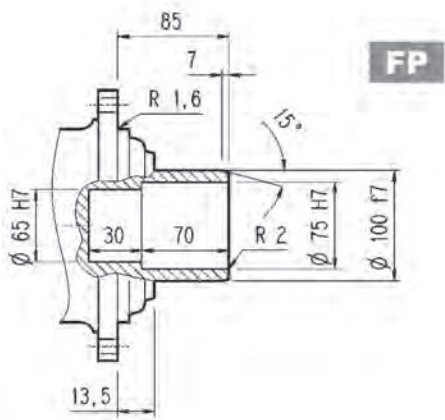
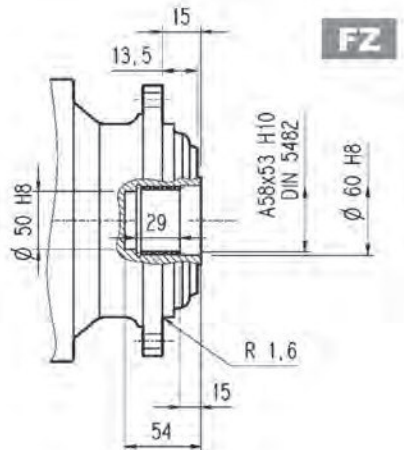
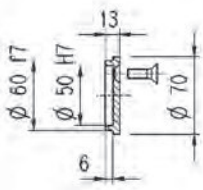
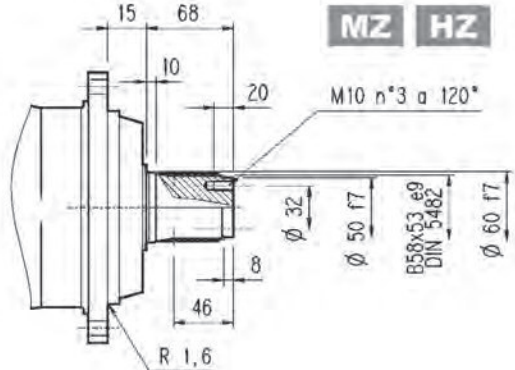
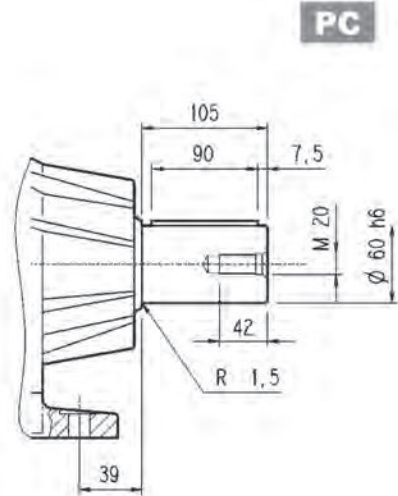
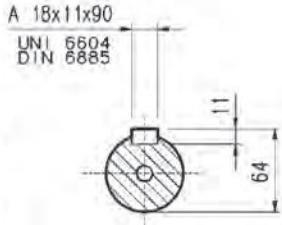
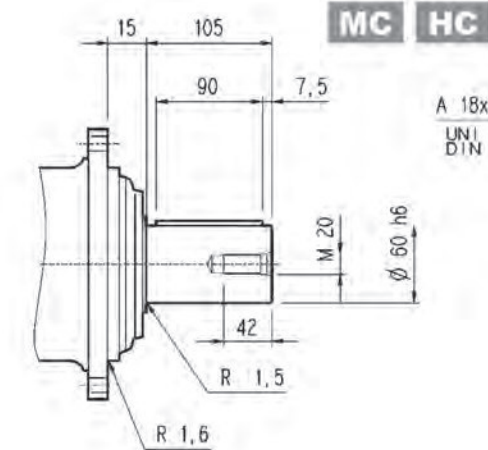


303 L

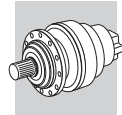
303 R

3/V 03 L3

3/A 03 L2



FP $M_{2max} = 5200 \text{ Nm}$



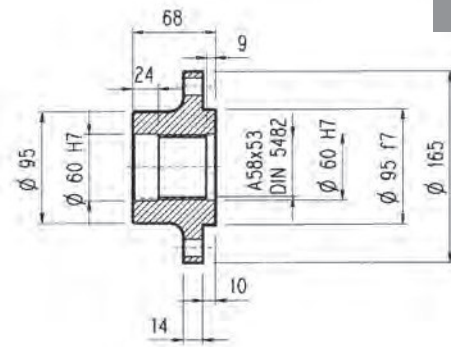
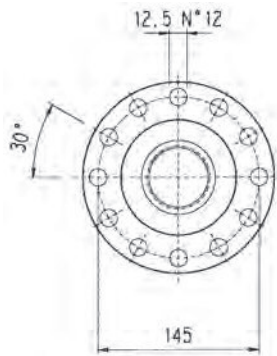
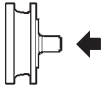
303 L

303 R

3/V 03 L3

3/A 03 L2

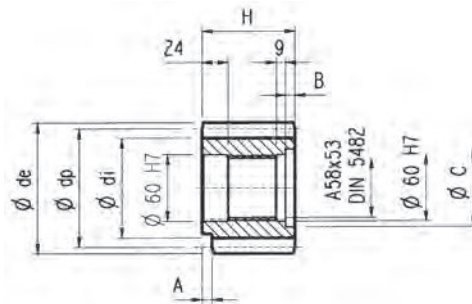
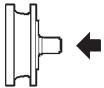
Flansch



W0A

Material: Stahl C40

Ritzel

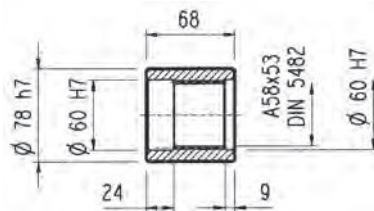
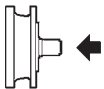


P...

$\alpha = 20^\circ$

	m	z	x	dp	di	de	H	A	B	C	Material
PCL1	5	19	—	95	82	104	77	12	9	72	Vergüteter Stahl 39NiCrMo3
PCL2	5	19	—	95	82	104	68	—	—	—	Vergüteter Stahl 39NiCrMo3
PCM	5	20	—	100	87.5	110	68	18	—	—	Einsatzstahl 18NiCrMo5 Einsatzgehärtet
PCP	5	22	—	110	97.5	120	68	18	—	—	Einsatzstahl 18NiCrMo5 Einsatzgehärtet
PDE	6	14	0.500	84	75	99.6	68	—	—	—	Vergüteter Stahl 39NiCrMo3
PDI	6	18	0.500	108	99	123.6	68	—	—	—	Vergüteter Stahl 39NiCrMo3
PDM	6	20	0.833	120	115	140	68	—	—	—	Vergüteter Stahl 39NiCrMo3
PFD	8	13	0.675	104	95	127.6	68	—	—	—	Einsatzstahl 18NiCrMo5 Einsatzgehärtet
PFE1	8	14	—	112	92	126	68	—	—	—	Einsatzstahl 18NiCrMo5 Einsatzgehärtet
PFE2	8	14	—	112	92	126	80	—	12	72	Einsatzstahl 18NiCrMo5 Einsatzgehärtet
PFF	8	15	—	120	100	136	68	—	—	—	Vergüteter Stahl 39NiCrMo3
PFP	8	22	—	176	156	190	77	12	10	71	Vergüteter Stahl 39NiCrMo3
PHG	10	16	0.500	160	145	188	75	—	7	72	Vergüteter Stahl 39NiCrMo3

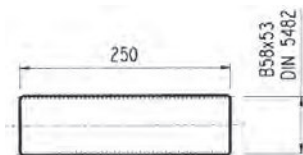
Naben



MOA

Material: Stahl 16CrNi4

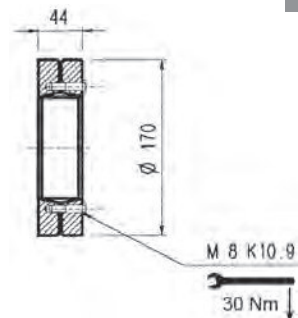
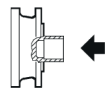
Vielkeilwellen



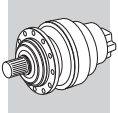
B0A

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

Schrumpfscheibe

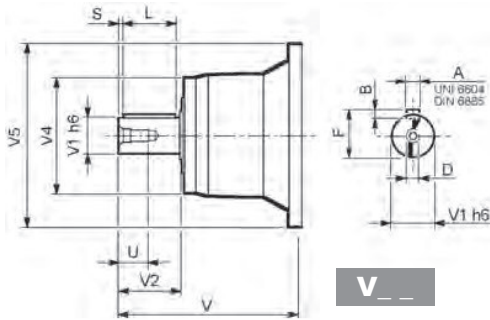
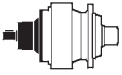


G0A

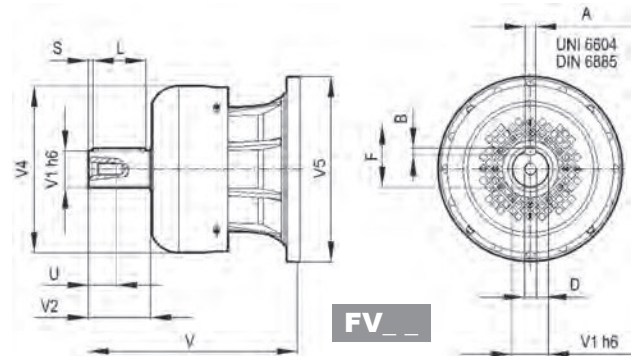


303 L

303 R



V _ _

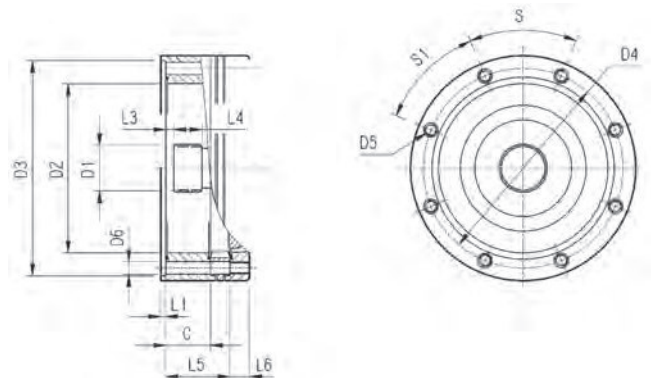


FV _ _

		V	V1	V2	V4	V5	A	B	F	L	S	D	U
303 L1	V05B	239	48	82	155	245	14	9	51.5	70	6	M16	36
	FV05B	276	48	82	219.5	244	14	9	51.5	70	6	M16	36
303 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
303 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
303 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
303 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

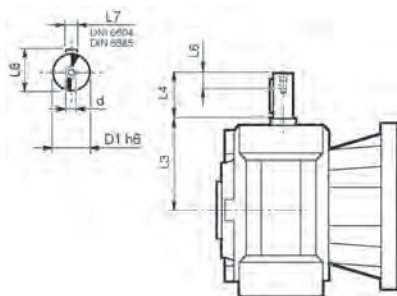
303 L

303 R



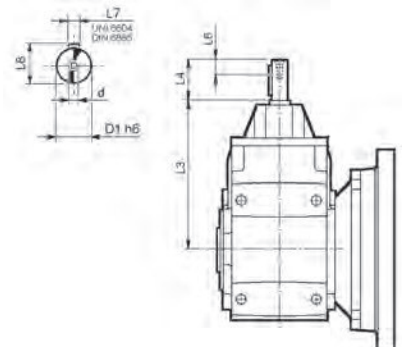
		C	D1	D2	D3	D4	D5	D6	L1	L2	L3	L4	L5	L6	S	S1	Input
303 L1	V9AA	37	40x36 DIN5482	140	178 H7	165	M10 n°8	11	4	—	9	18	—	18	45°	45°	A
303 L2	V9AA	37	40x36 DIN5482	140	178 H7	165	M10 n°8	11	4	—	9	18	53	18	45°	45°	A
303 L3	V9AA	37	40x36 DIN5482	140	178 H7	165	M10 n°8	11	4	—	9	18	106	18	45°	45°	A
303 L4	V9AA	37	40x36 DIN5482	140	178 H7	165	M10 n°8	11	4	—	9	18	159	18	45°	45°	A
303 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 03 L3

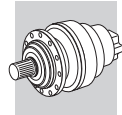


	D1 h6	L3	L4	L6	L7	L8	d
3/V 03 L3_HS	18	110.5	40	16	6	20.5	M6

3/A 03 L2



	D1 h6	L3	L4	L6	L7	L8	d
3/A 03 L2_HS	19	252.5	40	16	6	21.5	M6



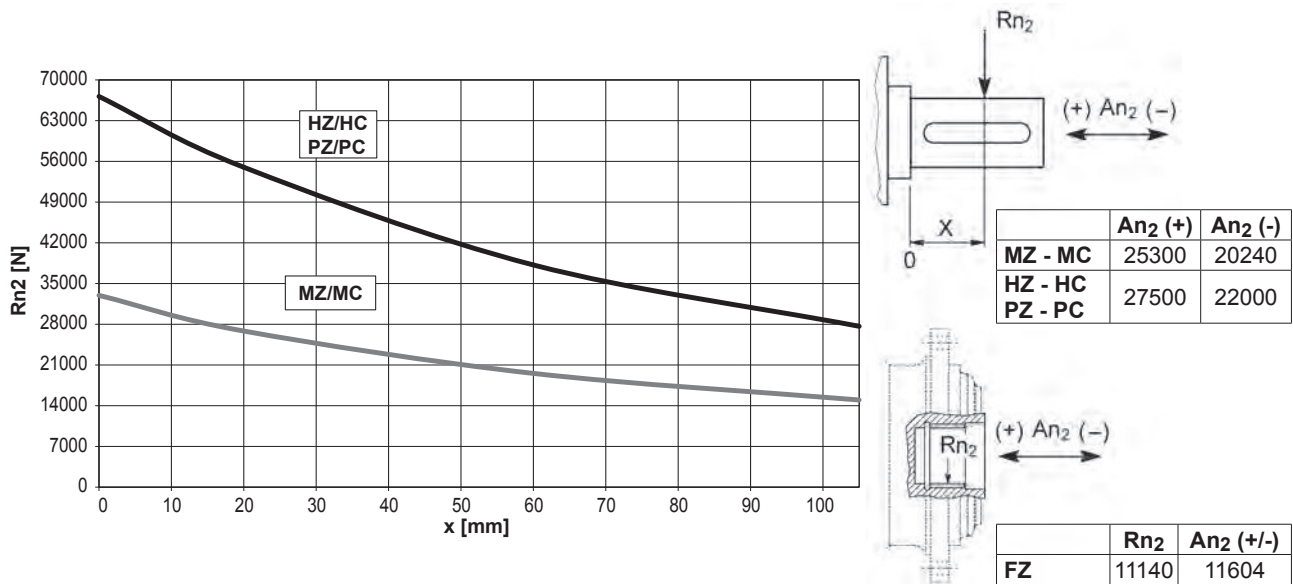
303 L

303 R

3/V 03 L3

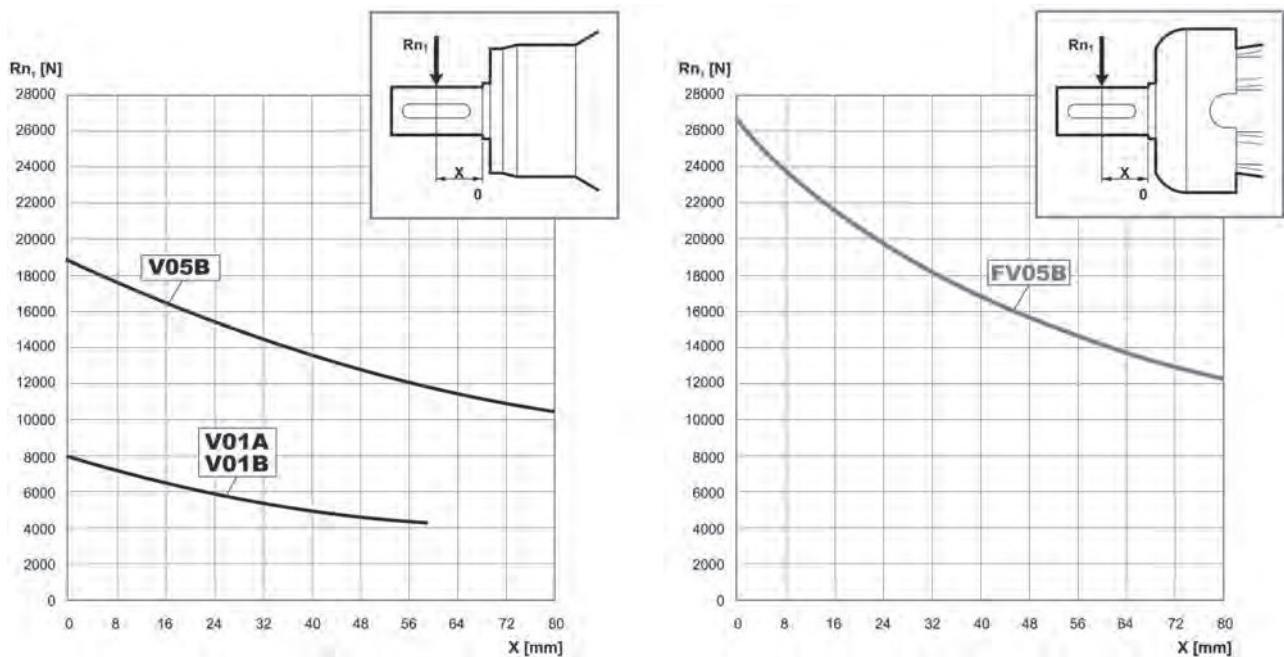
3/A 03 L2

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

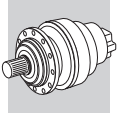


Korrekturfaktor fh_2 für Wellenbelastungen	$F_{h2} = n_2 \cdot h$						
		10000	25000	50000	100000	500000	1000000
	fh_2	FZ	2.15	1.59	1.26	1.00	0.58
	MZ - MC	2.15	1.59	1.26	1.00	0.58	0.46
	HZ - HC - PZ - PC	1.48	1.48	1.23	1.00	0.62	0.50

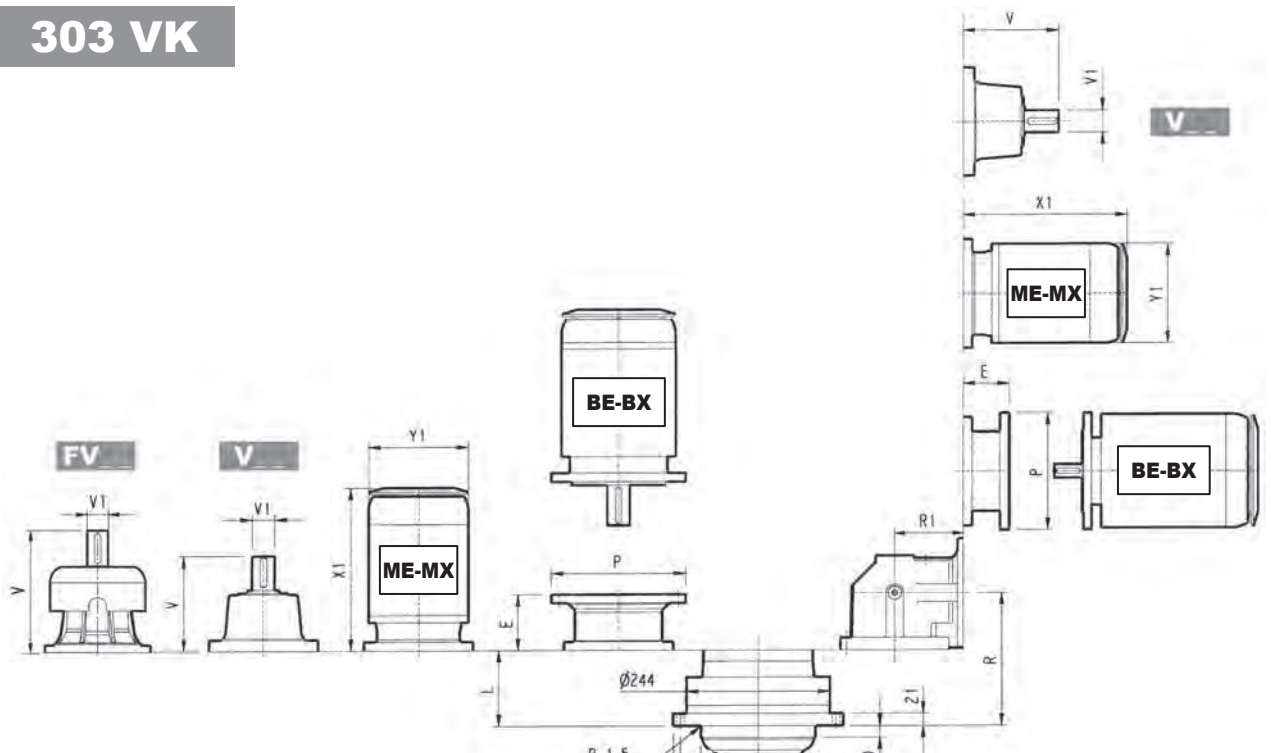
An der Antriebswelle zulässige Radiallasten für einen Wert von $F_{h1} : n_1 \times h = 250000$



Korrekturfaktor fh_1 für Wellenbelastungen	$F_{h1} = n_1 \cdot h$						
		250000	500000	1000000	2000000	5000000	10000000
fh_1		1	0.79	0.63	0.50	0.37	0.29



303 VK



303 L_VK

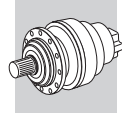
303 R_VK

	L													P71		P80		P90		P100		P112		P132		P160		P180		P200			
		kg	V	V1	kg	V	V1	kg	V	V1	kg	V	V1	kg	E	P	E	P	E	P	E	P	E	P	E	P	E	P	E	P			
303 L1	51	65	239	48	15	—	—	—	276	48	17	—	—	—	—	65	160	84	200	84	200	94	250	94	250	114	300	144	350	144	350	174	400
303 L2	104	70	137.5	24	6	158	38	7	—	—	—	—	—	—	65	160	84	200	84	200	94	250	94	250	114	300	144	350	—	—	—	—	
303 L3	157	73	137.5	24	6	158	38	7	—	—	—	—	—	—	65	160	84	200	84	200	94	250	94	250	114	300	144	350	—	—	—	—	
303 L4	210	77	137.5	24	6	158	38	7	—	—	—	—	—	—	65	160	84	200	84	200	94	250	94	250	114	300	144	350	—	—	—	—	

	S1 + M1			S2 + ME2S			S3 + ME3S			S3 + ME3L			S4 + ME4/MX4			S5 + ME5S/MX5S			S5 + ME5L/MX5L		
	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1
303 L1	—	—	—	—	—	—	—	—	—	—	—	—	460	—	258	552	—	310	596	—	310
303 L2	253	314	138	280	—	156	325	—	195	357	—	195	460	—	258	—	—	—	—	—	—
303 L3	253	314	138	280	—	156	325	—	195	357	—	195	460	—	258	—	—	—	—	—	—
303 L4	253	314	138	280	—	156	325	—	195	357	—	195	460	—	258	—	—	—	—	—	—

	R	R1	kg							P71		P80		P90		P100		P112		P132	
				V	V1	kg	V	V1	kg	E	P	E	P	E	P	E	P	E	P	E	P
303 R2	143	140	85	137.5	24	6	158	38	7	65	160	84	200	84	200	94	250	94	250	114	300
303 R3	196	122	83	137.5	24	6	158	38	7	65	160	84	200	84	200	94	250	94	250	114	300
303 R4	249	122	87	137.5	24	6	158	38	7	65	160	84	200	84	200	94	250	94	250	114	300

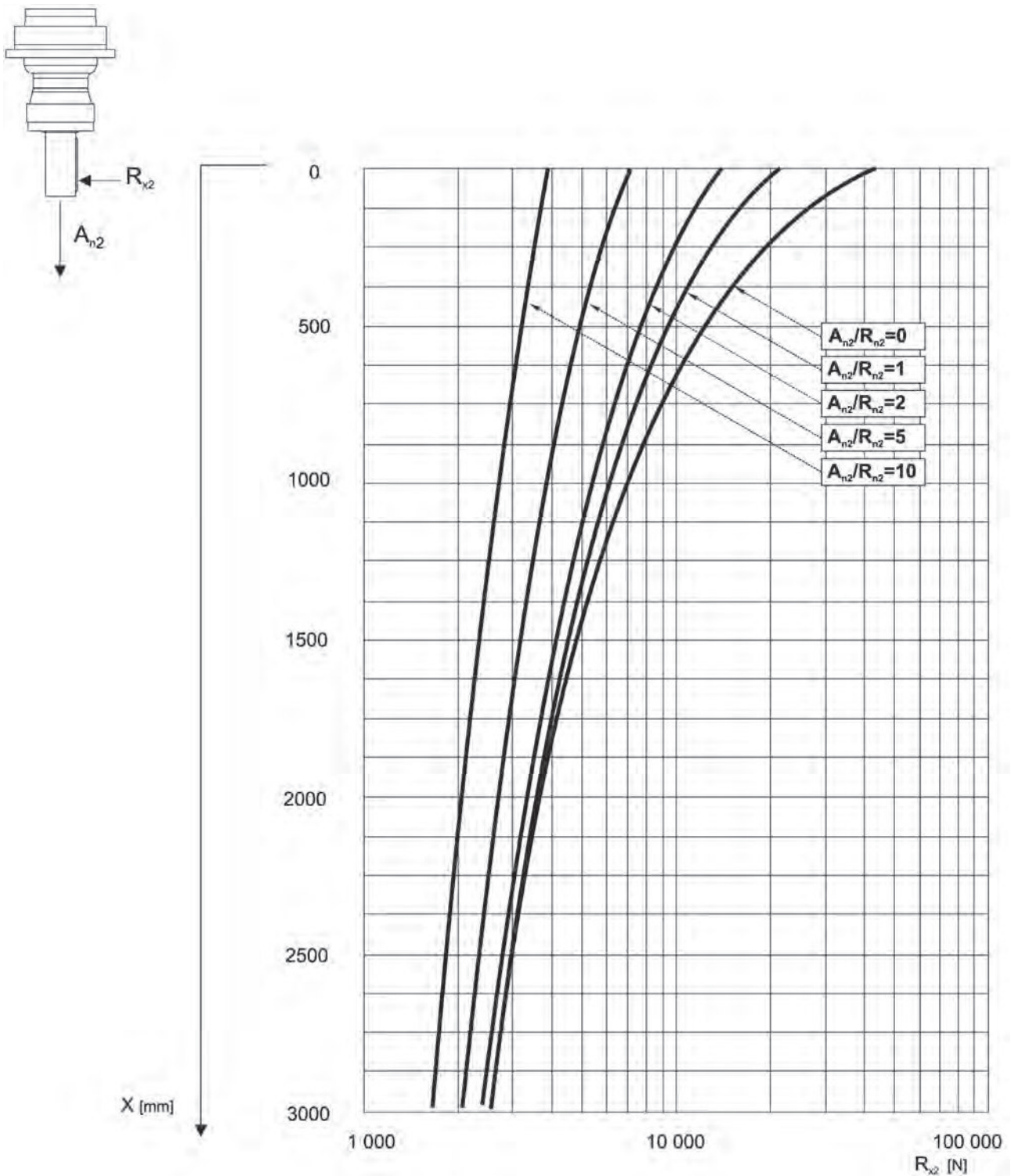
	S1 + M1			S2 + ME2S/MX2S			S3 + ME3S/MX3S			S3 + ME3L/MX3L			S4 + ME4/MX4		
	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1
303 R2	—	—	—	372	—	156	405	—	195	449	—	195	508	—	258
303 R3	253	314	138	372	—	156	405	—	195	449	—	195	—	—	—
303 R4	253	314	138	372	—	156	405	—	195	449	—	195	—	—	—



303 VK

Das nachstehende Diagramm ermöglicht das Berechnen der zulässigen, auf die Welle des Getriebes einwirkende externe Radialkraft, die sich auf die Distanz x von der Wellenschulter bezieht.

Die Kurven beziehen sich auf den Wert, der sich aus dem Verhältnis zwischen der Axialkraft A_{n2} und der Radialkraft R_{n2} für $n_2 = 10 \text{ min}^{-1}$ und einer Dauer von 10000 Std. ergibt.

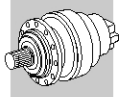


303 L

266

2970 Nm

	i	M_{n2} [Nm]						P_1	P_t	n_1	n_{1max}	M_b		M_{2max}
		$n_2 \cdot h$	$n_2 \cdot h$	$n_2 \cdot h$	$n_2 \cdot h$	$n_2 \cdot h$	$n_2 \cdot h$							
	1:	10000	25000	50000	100000	500000	1000000							
L1	3.60	2410	2310	2310	2310	2310	2120	40	11	1800	3800	800	5G	5200
	4.25	2970	2810	2810	2650	2570	2090	40	11	1800	3800	800	5G	5200
	5.33	2850	2520	2230	2200	2140	2030	40	11	1800	3800	630	5E	5200
	6.20	2440	2080	1840	1820	1820	1820	40	11	1800	3800	500	5C	5200
	7.50	2000	1750	1650	1650	1650	1500	40	11	1800	3800	400	5B	5200
	9.67	1050	900	860	860	860	860	17.3	11	1800	3800	400	5B	5200
L2	12.5	2410	2310	2310	2310	2130	1730	20	9	2000	4000	260	4F	5200





303 L



266

2970 Nm

	i	M _{n2} [Nm]						P ₁	P _t	n ₁	n _{1max}	M _b		M _{2max}	
		n ₂ ·h 10000	n ₂ ·h 25000	n ₂ ·h 50000	n ₂ ·h 100000	n ₂ ·h 500000	n ₂ ·h 1000000								[kW]
L2	15.3	2410	2310	2310	2310	2100	1700	20	9	2000	4000	260	4F	5200	
	18.1	2970	2810	2810	2650	2350	1910	20	9	2000	4000	260	4F	5200	
	20.8	2410	2210	2210	2210	2030	1650	20	9	2000	4000	160	4D	5200	
	22.7	2850	2520	2230	2200	2140	2030	20	9	2000	4000	160	4D	5200	
	24.5	2770	2700	2650	2620	2280	1850	20	9	2000	4000	160	4D	5200	
	26.4	2440	2080	1840	1820	1820	1820	15.2	9	2000	4000	160	4D	5200	
	30.8	2850	2520	2230	2200	2140	2030	15.9	9	2000	4000	160	4D	5200	
	35.8	2440	2080	1840	1820	1820	1820	11.2	9	2000	4000	100	4B	5200	
	38.4	2850	2450	2230	2200	2140	2030	12.8	9	2000	4000	100	4B	5200	
	44.6	2440	2080	1840	1820	1820	1820	9.2	9	2000	4000	100	4B	5200	
	55.8	2300	2080	1840	1820	1820	1820	7.6	9	2000	4000	100	4B	5200	
	L3	53.4	2410	2310	2310	2310	2100	1700	9.3	7.5	2000	4000	100	4B	5200
		63.1	2970	2810	2810	2650	2390	1940	9.8	7.5	2000	4000	100	4B	5200
72.3		2410	2310	2310	2310	2130	1730	7.0	7.5	2000	4000	50	4A	5200	
77.2		2970	2810	2810	2650	2350	1910	8.2	7.5	2000	4000	50	4A	5200	
90.2		2410	2310	2310	2310	2130	1730	5.6	7.5	2000	4000	50	4A	5200	
105		2970	2810	2810	2650	2350	1910	6.2	7.5	2000	4000	50	4A	5200	
113		2440	2080	1840	1820	1820	1820	4.4	7.5	2000	4000	50	4A	5200	
124		2440	2080	1840	1820	1820	1820	4.0	7.5	2000	4000	50	4A	5200	
141		2770	2700	2650	2620	2280	1850	4.4	7.5	2000	4000	50	4A	5200	
152		2440	2080	1840	1820	1820	1820	3.4	7.5	2000	4000	50	4A	5200	
164		2850	2520	2230	2200	2140	2030	3.9	7.5	2000	4000	50	4A	5200	
178		2850	2520	2230	2200	2140	2030	3.6	7.5	2000	4000	50	4A	5200	
190		2440	2080	1840	1820	1820	1820	2.8	7.5	2000	4000	50	4A	5200	
220		2250	2200	2250	2250	1830	1800	2.3	7.5	2000	4000	50	4A	5200	
258		2440	2080	1840	1820	1820	1820	2.0	7.5	2000	4000	50	4A	5200	
276		2850	2450	2230	2200	2140	2030	2.4	7.5	2000	4000	50	4A	5200	
321		2440	2080	1840	1820	1820	1820	1.6	7.5	2000	4000	50	4A	5200	
389		2000	1750	1650	1650	1650	1500	1.2	7.5	2000	4000	50	4A	5200	
402	2440	2080	1840	1820	1820	1820	1.3	7.5	2000	4000	50	4A	5200		
L4	413	2850	2520	2230	2200	2140	2030	1.6	6	2000	4000	50	4A	5200	
	446	2970	2810	2810	2650	2350	1910	1.5	6	2000	4000	50	4A	5200	
	492	2770	2700	2650	2620	2280	1850	1.3	6	2000	4000	50	4A	5200	
	556	2970	2810	2810	2650	2350	1910	1.2	6	2000	4000	50	4A	5200	
	649	2410	2310	2310	2310	2130	1730	0.84	6	2000	4000	50	4A	5200	
	718	2440	2080	1840	1820	1820	1820	0.76	6	2000	4000	50	4A	5200	
	816	2770	2700	2650	2620	2280	1850	0.80	6	2000	4000	50	4A	5200	
	896	2440	2080	1840	1820	1820	1820	0.61	6	2000	4000	50	4A	5200	
	1018	2770	2700	2650	2620	2280	1850	0.64	6	2000	4000	50	4A	5200	
	1098	2440	2080	1840	1820	1820	1820	0.50	6	2000	4000	50	4A	5200	
	1278	2850	2520	2230	2200	2140	2030	0.53	6	2000	4000	50	4A	5200	
	1370	2440	2080	1840	1820	1820	1820	0.40	6	2000	4000	50	4A	5200	
	1586	2250	2250	2250	2250	1830	1800	0.34	6	2000	4000	50	4A	5200	
	1854	2440	2080	1840	1820	1820	1820	0.29	6	2000	4000	50	4A	5200	
	1991	2850	2450	2230	2200	2140	2030	0.34	6	2000	4000	50	4A	5200	
2243	2000	1750	1650	1650	1650	1500	0.21	6	2000	4000	50	4A	5200		
2799	2000	1750	1650	1650	1650	1500	0.17	6	2000	4000	50	4A	5200		

C



	i	M _{n2} [Nm]						P ₁	P _t	n ₁	n _{1max}	M _b		M _{2max}
		n ₂ ·h	n ₂ ·h	n ₂ ·h	n ₂ ·h	n ₂ ·h	n ₂ ·h							
1:	10000	25000	50000	100000	500000	1000000								
R2	9.23	2410	2310	2310	2310	2310	1940	35	18	1800	3800	330	4H	5200
	10.9	2970	2810	2810	2650	2570	2090	35	18	1800	3800	330	4H	5200
	13.7	2850	2520	2230	2200	2140	2030	32	18	1800	3800	260	4F	5200
	15.9	2440	2080	1840	1820	1820	1820	23	18	1800	3800	260	4F	5200
	19.2	2000	1750	1650	1650	1650	1500	17.2	18	1800	3800	160	4D	5200
	24.8	1050	900	860	860	860	860	7.0	18	1800	3800	160	4D	5200
R3	25.7	2410	2310	2310	2310	2130	1730	15.0	14	2.000	4.000	160	4D	5200
	31.5	2410	2310	2310	2310	2100	1700	15.0	14	2.000	4.000	100	4B	5200
	37.1	2970	2810	2810	2650	2350	1910	15.0	14	2.000	4.000	100	4B	5200
	42.6	2410	2210	2210	2210	2030	1650	11.6	14	2.000	4.000	100	4B	5200
	46.6	2850	2520	2230	2200	2140	2030	11.2	14	2.000	4.000	100	4B	5200
	50.3	2770	2700	2650	2620	2280	1850	12.2	14	2.000	4.000	100	4B	5200
	54.2	2440	2080	1840	1820	1820	1820	8.1	14	2.000	4.000	100	4B	5200
	63.1	2850	2520	2230	2200	2140	2030	8.7	14	2.000	4.000	100	4B	5200
	73.3	2440	2080	1840	1820	1820	1820	6.2	14	2.000	4.000	50	4A	5200
	78.7	2850	2450	2230	2200	2140	2030	7.1	14	2.000	4.000	50	4A	5200
	91.5	2440	2080	1840	1820	1820	1820	5.2	14	2.000	4.000	50	4A	5200
	114	2300	2080	1840	1820	1820	1820	4.3	14	2.000	4.000	50	4A	5200
R4	129	2970	2810	2810	2650	2390	1940	5.1	12	2.000	4.000	50	4A	5200
	148	2410	2310	2310	2310	2130	1730	3.6	12	2.000	4.000	50	4A	5200
	158	2970	2810	2810	2650	2350	1910	4.3	12	2.000	4.000	50	4A	5200
	185	2410	2310	2310	2310	2130	1730	2.9	12	2.000	4.000	50	4A	5200
	214	2970	2810	2810	2650	2350	1910	3.2	12	2.000	4.000	50	4A	5200
	231	2440	2080	1840	1820	1820	1820	2.4	12	2.000	4.000	50	4A	5200
	255	2440	2080	1840	1820	1820	1820	2.1	12	2.000	4.000	50	4A	5200
	290	2770	2700	2650	2620	2280	1850	2.2	12	2.000	4.000	50	4A	5200
	313	2440	2080	1840	1820	1820	1820	1.7	12	2.000	4.000	50	4A	5200
	336	2850	2520	2230	2200	2140	2030	2.0	12	2.000	4.000	50	4A	5200
	364	2850	2520	2230	2200	2140	2030	1.9	12	2.000	4.000	50	4A	5200
	390	2440	2080	1840	1820	1820	1820	1.4	12	2.000	4.000	50	4A	5200
	452	2250	2250	2250	2250	1830	1800	1.2	12	2.000	4.000	50	4A	5200
	528	2440	2080	1840	1820	1820	1820	1.0	12	2.000	4.000	50	4A	5200
	567	2850	2450	2230	2200	2140	2030	1.2	12	2.000	4.000	50	4A	5200
	659	2440	2080	1840	1820	1820	1820	0.83	12	2.000	4.000	50	4A	5200
797	2000	1750	1650	1650	1650	1500	0.59	12	2.000	4.000	50	4A	5200	
824	2440	2080	1840	1820	1820	1820	0.66	12	2.000	4.000	50	4A	5200	