



510

IT EN DE FR ES PT

RR510

..

i



	i	T ₂ [Nm]						n _{1max} [min ⁻¹]	T _{2max} [Nm]	P _t [kW]
		n ₂ x h								
		10000 (10 ⁴)	25000 (2.5 · 10 ⁴)	50000 (5 · 10 ⁴)	100000 (10 ⁵)	500000 (5 · 10 ⁵)	1000000 (10 ⁶)			
1/...										
RR510	3.40	5750	5430	5290	5160	4200	3410	3500	7000 (M.../FS) 7500 (S...)	21
	4.00	6440	5960	5360	4760	4310	3810			
	5.00	5350	4500	3960	3640	3290	3160			
	5.80	4710	3960	3480	3280	2970	2840			
	7.00	3650	3070	2720	2600	2360	2260			
RR510D	13.60	5750	5430	5290	5160	4200	3410	3500	7000 (M.../FS) 7500 (S...)	13
	16.00	6440	5960	5360	4760	4310	3810			
	20.00	6440	5960	5360	4760	4310	3810			
	23.20	6440	5960	5360	4760	4310	3810			
	29.00	5350	4500	3960	3640	3290	3160			
	35.00	5350	4500	3960	3640	3290	3160			
	40.60	4710	3960	3480	3280	2970	2840			
	49.00	3650	3070	2720	2600	2360	2260			
RR510T	65.60	6440	5960	5360	4760	4310	3810	3500	7000 (M.../FS) 7500 (S...)	10
	82.00	6440	5960	5360	4760	4310	3810			
	95.12	6440	5960	5360	4760	4310	3810			
	115.2	6440	5960	5360	4760	4310	3810			
	144.00	6440	5960	5360	4760	4310	3810			
	167.04	6440	5960	5360	4760	4310	3810			
	208.80	5350	4500	3960	3640	3290	3160			
	252.00	5350	4500	3960	3640	3290	3160			
	292.32	4710	3960	3480	3280	2970	2840			
	352.80	3650	3070	2720	2600	2360	2260			
RR510Q	381.30	6440	5960	5360	4760	4310	3810	3500	7000 (M.../FS) 7500 (S...)	8
	442.31	6440	5960	5360	4760	4310	3810			
	509.22	6440	5960	5360	4760	4310	3810			
	584.71	6440	5960	5360	4760	4310	3810			
	669.60	6440	5960	5360	4760	4310	3810			
	715.39	6440	5960	5360	4760	4310	3810			
	776.74	6440	5960	5360	4760	4310	3810			
	894.24	6440	5960	5360	4760	4310	3810			
	1037.32	6440	5960	5360	4760	4310	3810			
	1296.65	5350	4500	3960	3640	3290	3160			
	1564.92	5350	4500	3960	3640	3290	3160			
	1815.31	4710	3960	3480	3280	2970	2840			
	2190.89	3650	3070	2720	2600	2360	2260			



RA510

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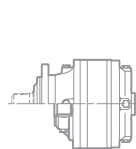
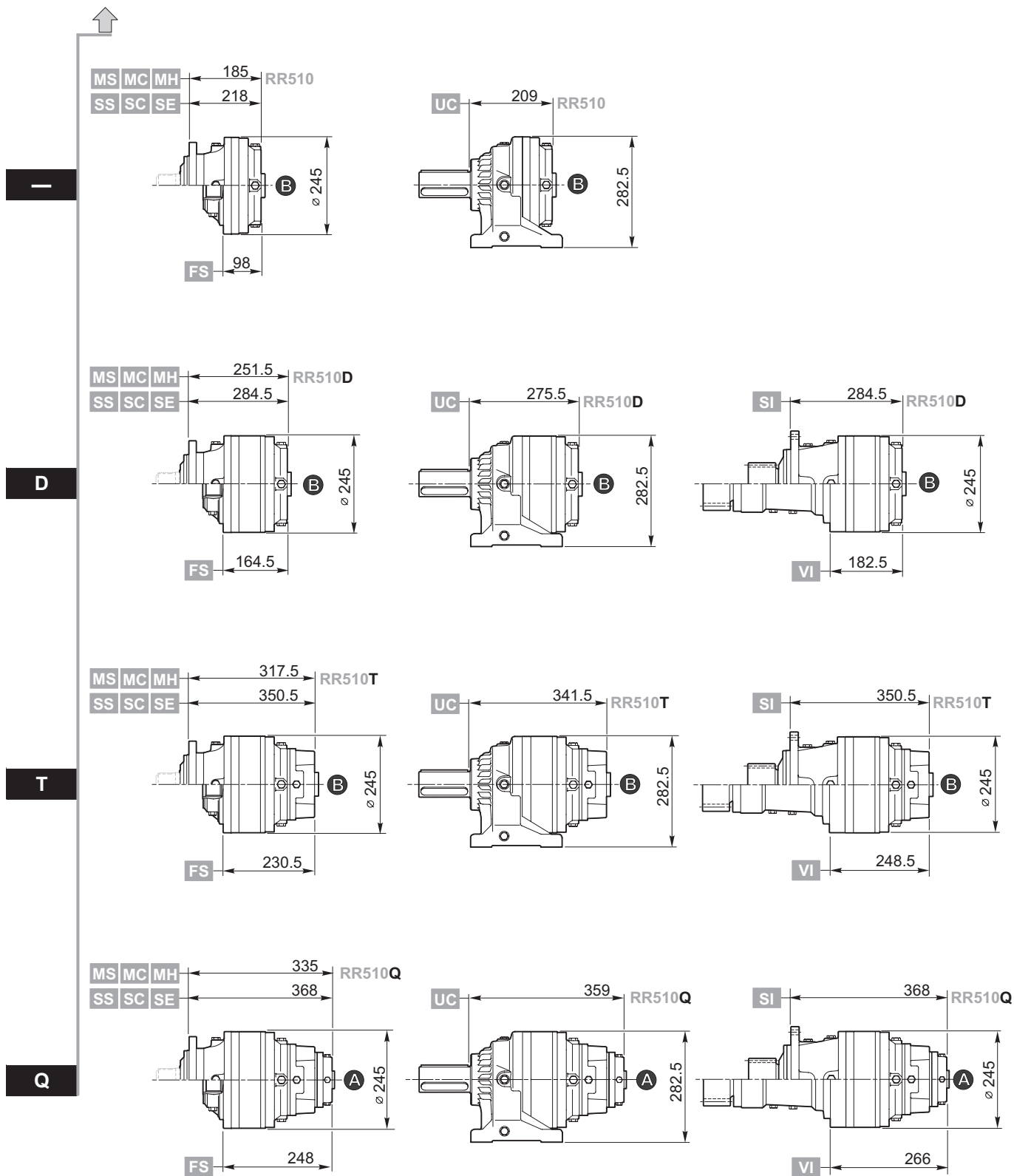
i



	i	T ₂ [Nm]						n _{1max}	T _{2max}	P _t
		n ₂ x h								
		10000 (10 ⁴)	25000 (2.5 · 10 ⁴)	50000 (5 · 10 ⁴)	100000 (10 ⁵)	500000 (5 · 10 ⁵)	1000000 (10 ⁶)			
1/...								[min ⁻¹]	[Nm]	[kW]
RA510	13.60	5690	5300	4680	4360	3450	2800	3500	7000 (M.../FS)	23
	16.00	6440	5960	5340	4760	3870	3140			
	20.00	5350	4500	3960	3640	3290	3160			
	23.20	4710	3960	3480	3280	2970	2840			
	28.00	3650	3070	2720	2600	2360	2260			
RA510D	43.79	5750	5250	4990	4750	3250	2640	3500	7000 (M.../FS)	14
	51.52	6440	5960	5360	4760	3640	2960			
	64.40	6440	5960	5360	4760	4260	3460			
	74.70	6440	5960	5360	4760	4310	3810			
	93.38	5350	4500	3960	3640	3290	3160			
	112.70	5350	4500	3960	3640	3290	3160			
	130.73	4710	3960	3480	3280	2970	2840			
	157.78	3650	3070	2720	2600	2360	2260			
	164.86	4210	3900	3690	3490	3060	2890			
	170.75	4340	4030	3810	3600	3160	2990			
	198.07	4710	3960	3480	3280	2970	2840			
	206.08	5160	4500	3960	3640	3290	3160			
	239.05	4710	3960	3480	3280	2970	2840			
	288.51	3650	3070	2720	2600	2360	2260			
RA510T	211.23	6440	5960	5360	4760	4310	3810	3500	7000 (M.../FS)	11
	264.04	6440	5960	5360	4760	4310	3810			
	306.29	6440	5960	5360	4760	4310	3810			
	370.94	6440	5960	5360	4760	4310	3810			
	463.68	6440	5960	5360	4760	4310	3810			
	537.87	6440	5960	5360	4760	4310	3810			
	672.34	5350	4500	3960	3640	3290	3160			
	811.44	5350	4500	3960	3640	3290	3160			
	941.27	4710	3960	3480	3280	2970	2840			
	1136.02	3650	3070	2720	2600	2360	2260			
	1187.02	6050	5610	5360	4760	4310	3810			
	1229.41	5350	4500	3960	3640	3290	3160			
	1483.78	5350	4500	3960	3640	3290	3160			
	1563.74	3650	3070	2720	2600	2360	2260			
	1721.18	4710	3960	3480	3280	2970	2840			
	2077.29	3650	3070	2720	2600	2360	2260			



RR510 .. i ..



CFG

RF
BOC

A B C

C3

C3



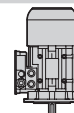
B71



B72



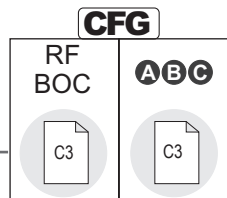
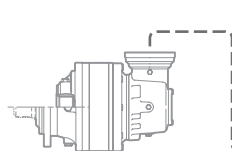
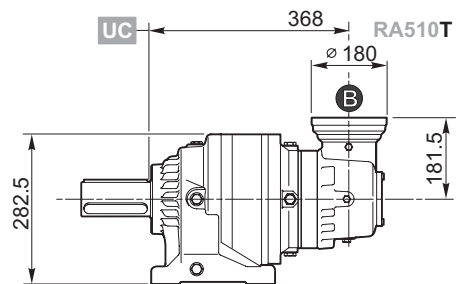
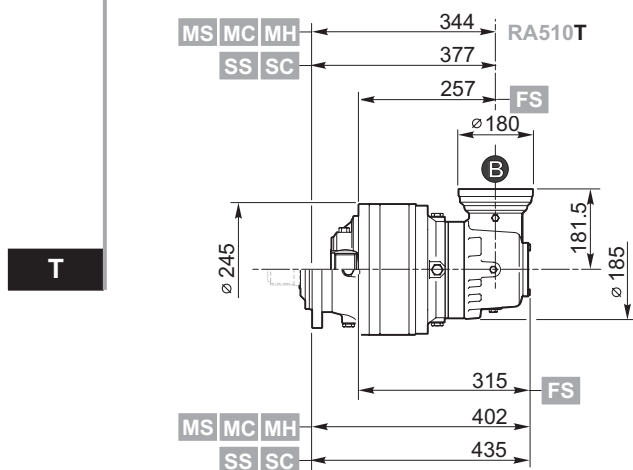
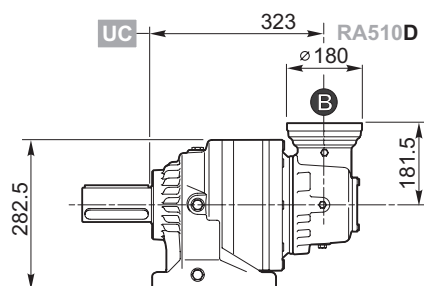
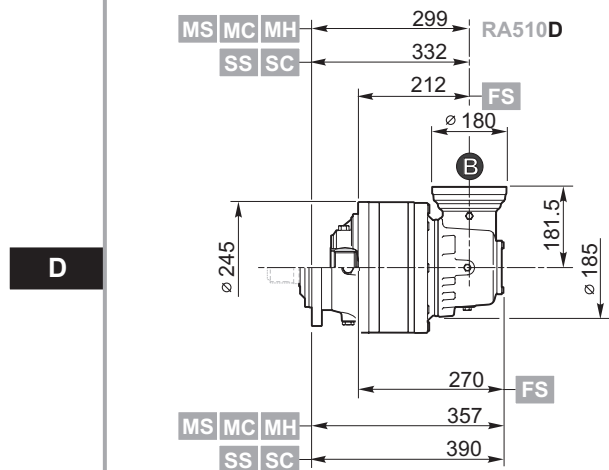
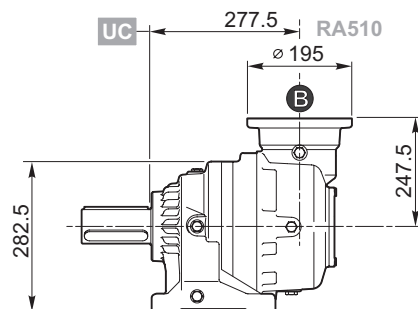
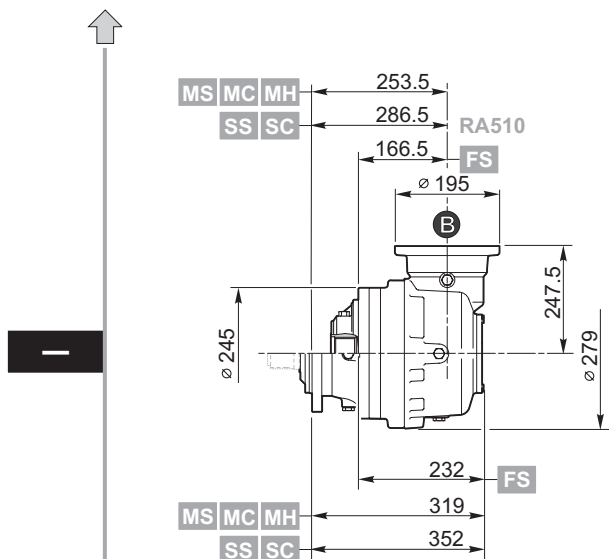
C16



C27



RA510 .. i ..



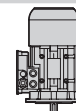
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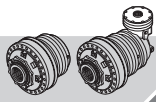
B72



C16



C27



510

IT EN DE FR ES PT

RR510
RA510

.. i ..



MS



MC



MH



SS



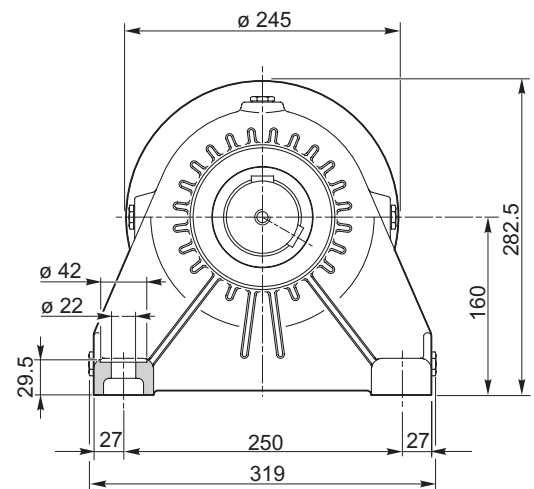
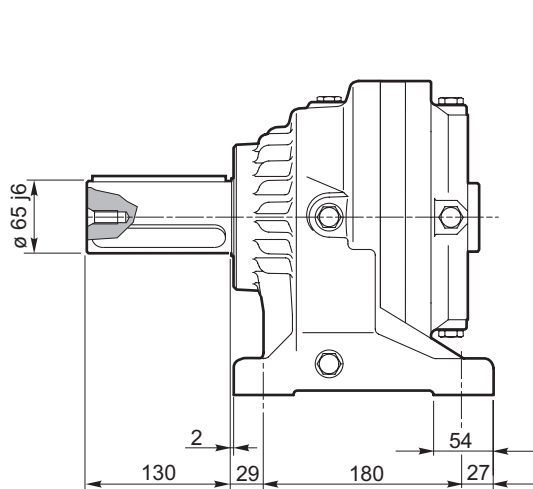
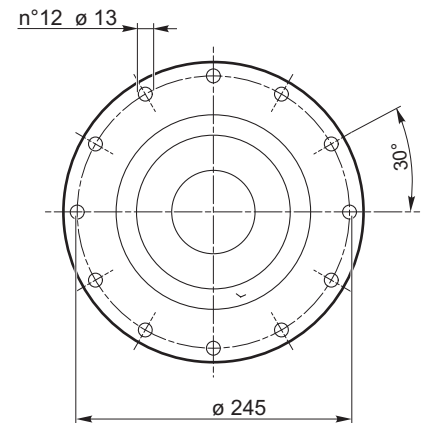
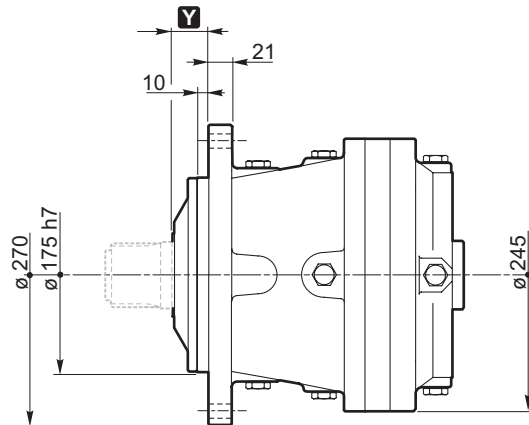
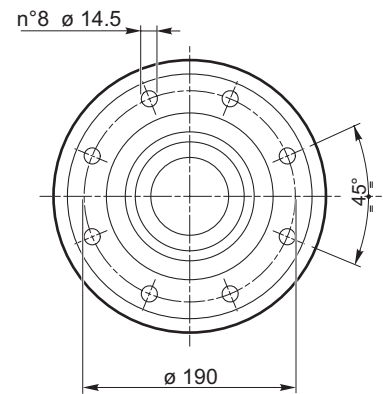
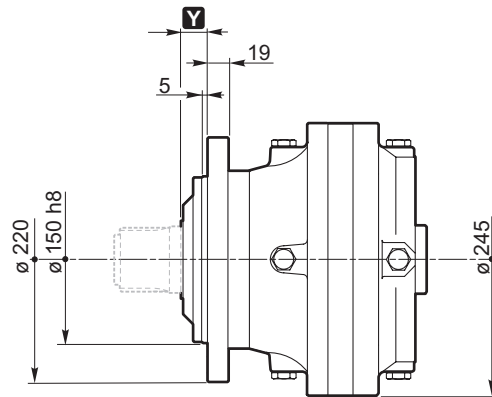
SC



SE

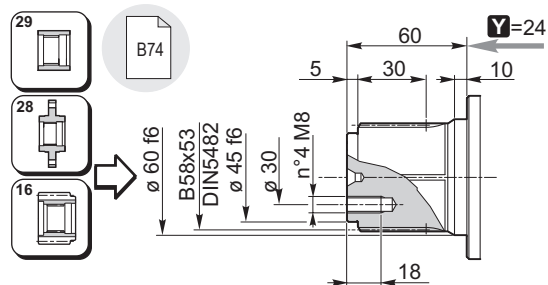
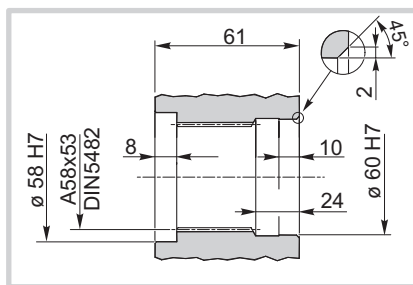
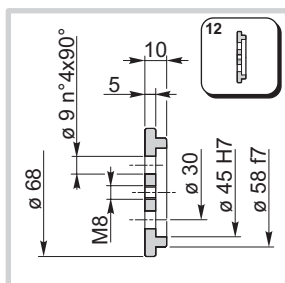


UC

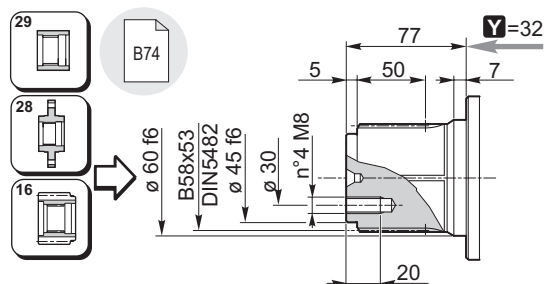
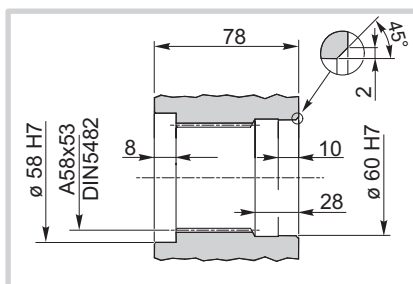




MS



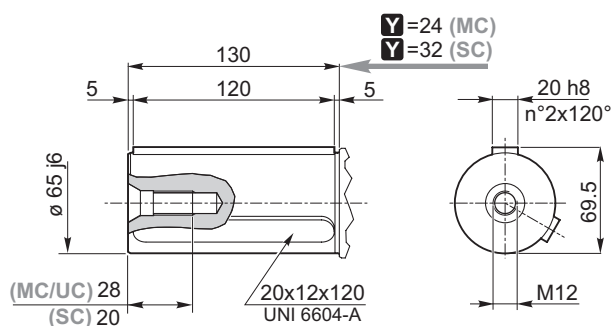
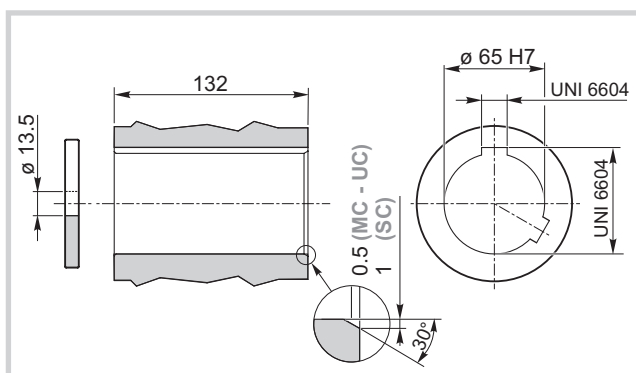
SS



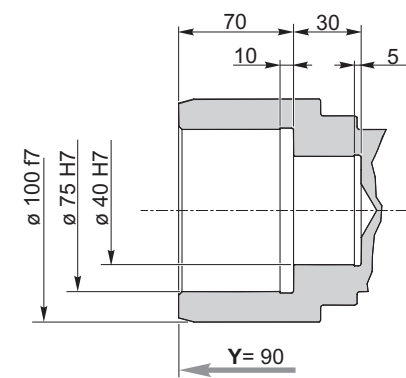
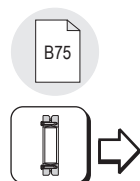
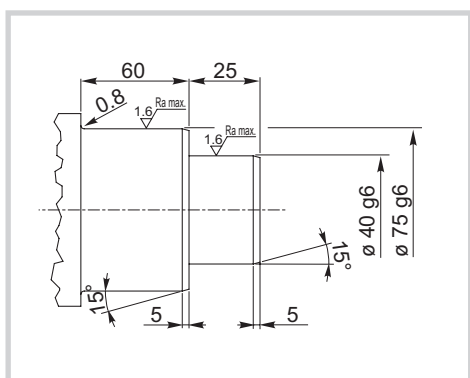
MC

SC

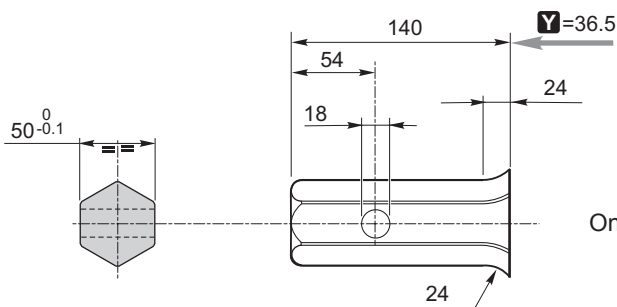
UC



MH



SE



Only for RR510

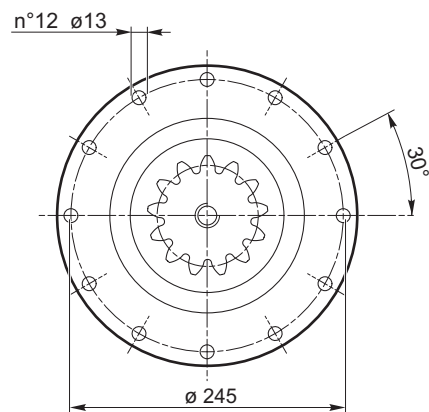


RR510

22

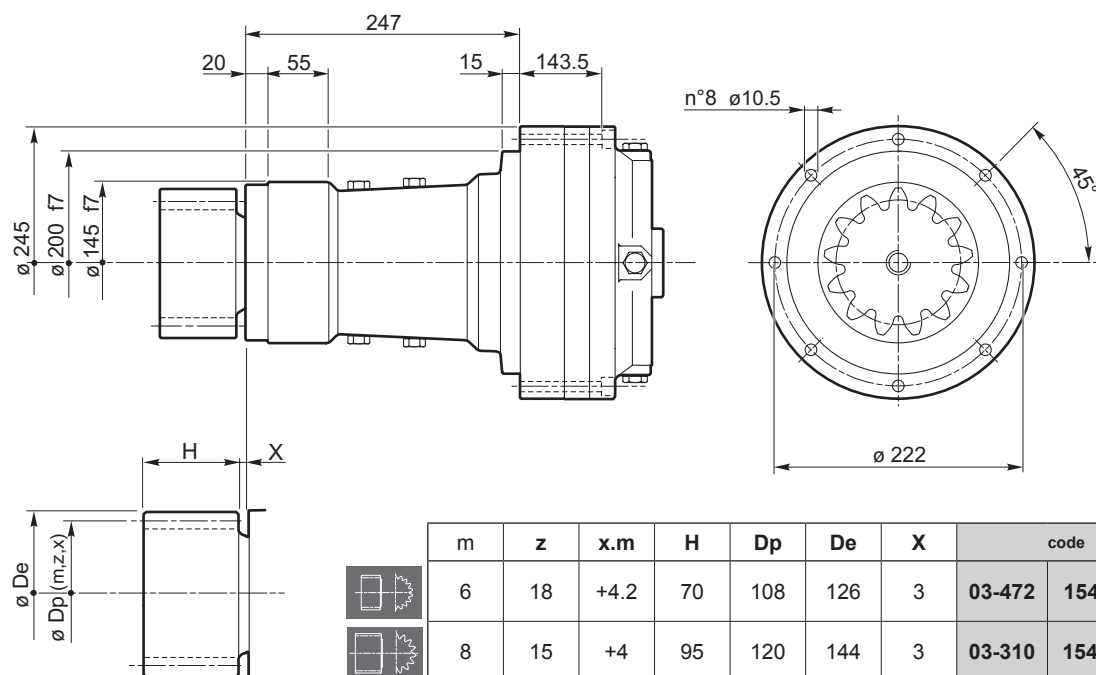
i

SI

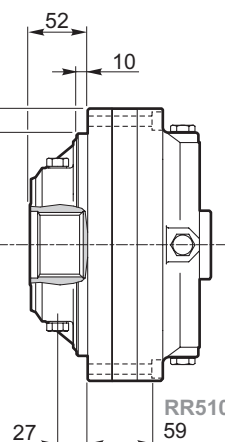


m	z	x.m	H	Dp	De	L2	X	code	
8	18	0	60	144	160	59	28.5	03-325	154F2898
8	15	0	80	120	136	36	5.5	03-500	154F2899
10	12	+6.4	80	120	149	40	9.5	03-579	154F5466

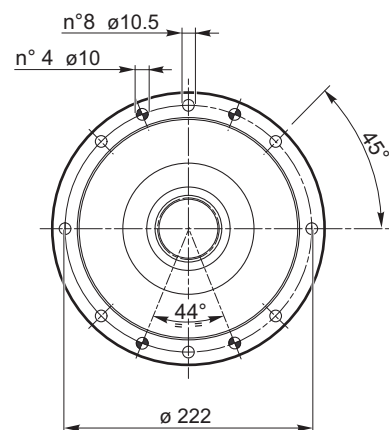
VI



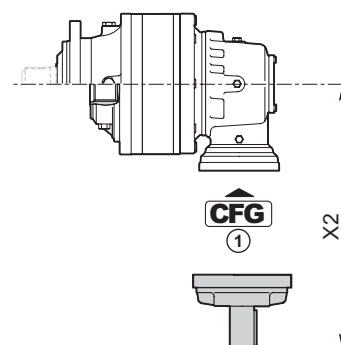
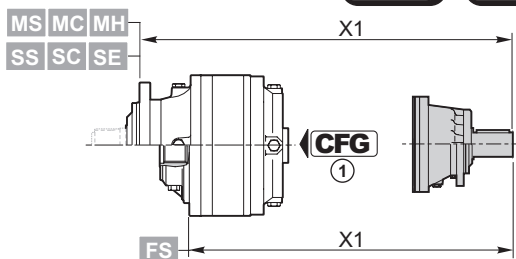
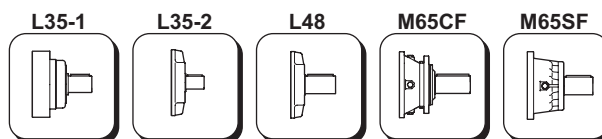
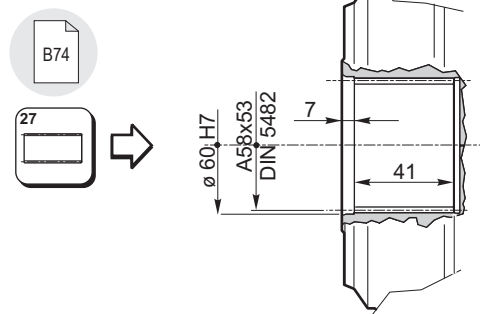
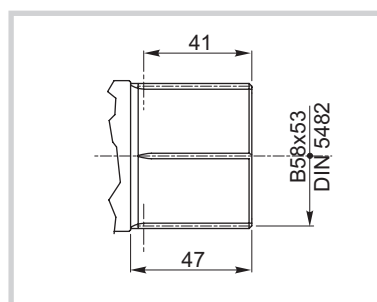
	m	z	x.m	H	Dp	De	X	code	
	6	18	+4.2	70	108	126	3	03-472	154F1663
	8	15	+4	95	120	144	3	03-310	154B2443
	8	15	+5	85	120	144.5	3	03-365	154B4171
	8	11	+3	73	88	110	8	03-284	154-5637
	10	11	+5	80	110	135	3	03-402	154F3597
	10	11	+3.75	77	110	135	4	03-292	154B1799
	10	12	+3.2	78	120	143.8	3	03-237	154-5629

FS

Technical drawing of a mechanical part showing a cross-section. The drawing includes dimensions 71.5 and 29.5, and a note n°8 M10. The part has a complex profile with a central hole and a flange.

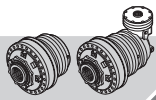


Tratamento térmico:
Tempera por indução segundo UNI
10932 sobre ranhuras internas



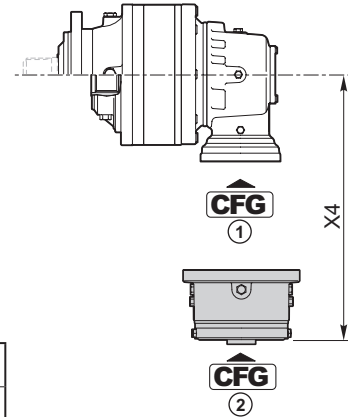
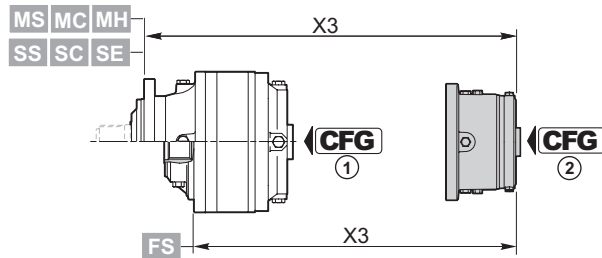
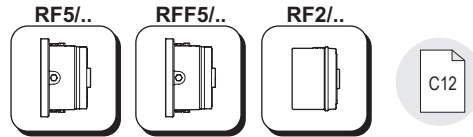
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RA510	BOC	L48	154B3989	347.5
RA510D	BOC	L35-2	154-2190M1	270.5
RA510T	BOC	L35-2	154-2190M1	270.5

CFG	
RF BOC	
A B C	



510

IT EN DE FR ES PT



CFG	
RF BOC	C3
A B C	C3

RF5/..	CFG ①	T _f [Nm]	CFG ②						
			B			OMTS 12/24 z16	OMVS 10/20 z16		
			code	X3	X4	code	code	X3	X4
RR510	RF	210	154-2872	275.5 (M...) 188.5 (FS) 308.5 (S...)	—	154-2879	154-2886	279.2 (M...) 192.2 (FS) 312.2 (S...)	—
		290	154-2873			154-2880	154-2887		
		430	154-2874			154-2881	154-2888		
		650	154-2875			154-2882	154-2889		
		850	154-2876			154-2883	154-2890		
		1100	154-2877			154-2884	154-2891		
	1300	154-2878	154-2885	154-2892					
RR510D	RF	210	154-2872	342 (M...) 255 (FS) 375 (S...)	—	154-2879	154-2886	345.7 (M...) 258.7 (FS) 378.7 (S...)	—
		290	154-2873			154-2880	154-2887		
		430	154-2874			154-2881	154-2888		
		650	154-2875			154-2882	154-2889		
		850	154-2876			154-2883	154-2890		
		1100	154-2877			154-2884	154-2891		
	1300	154-2878	154-2885	154-2892					

RFF5/..	CFG ①	T _f [Nm]	CFG ②						
			B			OMTS 12/24 z16	OMVS 10/20 z16		
			code	X3	X4	code	code	X3	X4
RA510	RF	210	154-2893	—	316.6	154-5338	154-5345	—	320.5
		290	154-2894			154-5339	154-5346		
		430	154-2895			154-5340	154-5347		
		650	154-2896			154-5341	154-5348		
		850	154-2897			154-5342	154-5349		
		1100	154-2898			154-5343	154-5350		
		1300	154-2899			154-5344	154-5351		

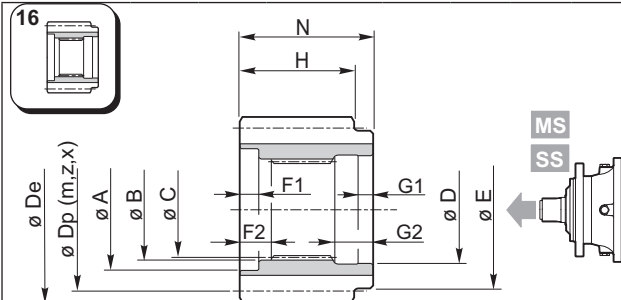


RF2/..	CFG ①	T _f [Nm]	CFG ②						
			B		OMP/OMR SAE A 2B Ø 25	OMP/OMR SAE A 2B 1" 6B	OMP/OMR SAE A 4B Ø 25	OMP/OMR SAE A 4B 1" 6B	
					code	code	code	code	
RR510	RF	70	154B9195	248 (M...) 161 (FS) 281 (S...)	154B9195M10	—	154B9195M16	154B9195M17	238 (M...) 151 (FS) 271 (S...)
		140	154B9196		154B9196M10	—	154B9196M16	154B9196M17	
		210	154B9197		154B9197M10	—	154B9197M16	154B9197M17	
		320	154B9198		154B9198M10	—	154B9198M16	154B9198M17	
		430	154B9199		154B9199M10	—	154B9199M16	154B9199M17	
		600	154B9200		154B9200M10	—	154B9200M16	154B9200M17	
RR510D	RF	70	154-2345	314.5 (M...) 227.5 (FS) 347.5 (S...)	154-2345M10	154-2345M11	154-2345M16	154-2345M17	304.5 (M...) 217.5 (FS) 337.5 (S...)
		140	154-2346		154-2346M10	154-2346M11	154-2346M16	154-2346M17	
		210	154-2347		154-2347M10	154-2347M11	154-2347M16	154-2347M17	
		320	154-2348		154-2348M10	154-2348M11	154-2348M16	154-2348M17	
		430	154-2349		154-2349M10	154-2349M11	154-2349M16	154-2349M17	
		600	154B9186		154B9186M10	154B9186M11	154B9186M16	154B9186M17	
RR510T	RF	70	154-2838M1	356 (M...) 269 (FS) 389 (S...)	154-2863	154-2863M11	154-2635	154-2635M11	346 (M...) 259 (FS) 379 (S...)
		140	154-2839M1		154-2864	154-2864M11	154-2636	154-2636M11	
		210	154-2840M1		154-2865	154-2865M11	154-2637	154-2637M11	
		320	154-2841M1		154-2866	154-2866M11	154-2638	154-2638M11	
		430	154-2842M1		154-2867	154-2867M11	154-2639	154-2639M11	
		600	154B8962M1		154B9665	154B9665M11	154B9666	154B9666M11	

	CFG ①	T _f [Nm]	CFG ②						
			A		OMP/OMR SAE A 2B Ø 25	OMP/OMR SAE A 2B 1" 6B	OMP/OMR SAE A 4B Ø 25	OMP/OMR SAE A 4B 1" 6B	
					code	code	code	code	
RR510Q	RF	70	154-2832M1	401 (M...) 314 (FS) 434 (S...)	154-2858M1	154-2858M5			396.5 (M...) 309.5 (FS) 429.5 (S...)
		140	154-2833M1		154-2859M1	154-2859M5			
		210	154-2834M1		154-2860M1	154-2860M5			
		320	154-2836M1		154-2861M1	154-2861M5			
		430	154-2837M1		154-2862M1	154-2862M5			
		600	154B8959M1		154B9663M1	154B9663M5			

	CFG ①	T _f [Nm]	CFG ②						
			B		OMP/OMR SAE A 2B Ø 25	OMP/OMR SAE A 2B 1" 6B	OMP/OMR SAE A 4B Ø 25	OMP/OMR SAE A 4B 1" 6B	
					code	code	code	code	
RA510	RF	70	154F2991	285.3					
		140	154F1890						
		210	154F2961						
		320	154B3591						
		430	154B3592						
		600	154F2992						
RA510D	RF	70	154-2838M12	223.8	154-2863M12	154-2863M13	154-2635M12		213.8
		140	154-2839M12		154-2864M12	154-2864M13	154-2636M12		
		210	154-2840M12		154-2865M12	154-2865M13	154-2637M12		
		320	154-2841M12		154-2866M12	154-2866M13	154-2638M12		
		430	154-2842M12		154-2867M12	154-2867M13	154-2639M12		
		600	154B8962M12		154B9665M12	154B9665M13	154B9666M12		
RA510T	RF	70	154-2838M12	223.8	154-2863M12	154-2863M13	154-2635M12		213.8
		140	154-2839M12		154-2864M12	154-2864M13	154-2636M12		
		210	154-2840M12		154-2865M12	154-2865M13	154-2637M12		
		320	154-2841M12		154-2866M12	154-2866M13	154-2638M12		
		430	154-2842M12		154-2867M12	154-2867M13	154-2639M12		
		600	154B8962M12		154B9665M12	154B9665M13	154B9666M12		

CFG	
RF BOC	C3
A B C	C3



Materiale / Material / Material

Matériau / Material / Material

Acciaio / Steel / Stahl / Acier / Acero / Aço

39NiCrMo3 UNI 7845 (1.6511)

Trattamento termico:

Tempra ad induzione secondo UNI 10932 su scanalato interno

Heat treatment:

Induction hardening according to UNI 10932 on internal spline

Wärmebehandlung:

Induktionshärtung nach UNI 10932 an interner Nut

Traitement thermique:

Tempe par induction conformément à la norme UNI 10932 sur cannelé interne

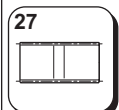
Tratamiento térmico:

Temple por inducción según UNI 10932 en acanalado interno

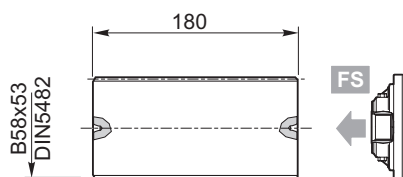
Tratamento térmico:

Tempera por indução segundo UNI 10932 sobre ranhuras internas

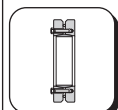
	A	B	C	D	E	F1	F2	G1	G2	N	m	z	x	H	Dp	De	Code
MS	70	58 H7	DIN5482 A58x53	60 H7	72	7	13	12	27	68	4.5	18	0.4444	65	81	93	154-3106
	70	58 H7	DIN5482 A58x53	60 H7	68	7	13	10	27	68	5	17	0.4	65	85	98	154-2287
	70	58 H7	DIN5482 A58x53	60 H7	68	7	13	10	27	68	5	19	0	65	95	104	154-2286
	70	58 H7	DIN5482 A58x53	60 H7	75	7	13	12	27	68	6	14	0.5	65	84	101.5	154-3082
	70	58 H7	DIN5482 A58x53	60 H7	68	7	13	10	27	68	6	15	0.25	65	90	103	154-3107
	70	58 H7	DIN5482 A58x53	60 H7	68	7	13	10	27	68	6	16	0.25	65	96	109	154-3245
	70	58 H7	DIN5482 A58x53	60 H7	78	7	13	12	27	68	8	12	0.5	65	96	118	154-3074
	70	58 H7	DIN5482 A58x53	60 H7	68	7	13	10	27	68	8	14	0	65	112	126	154-3250
	70	58 H7	DIN5482 A58x53	60 H7	78	7	13	12	27	68	8	15	0	65	120	136	154-3246
	70	58 H7	DIN5482 A58x53	60 H7	68	7	13	10	27	68	8	15	0.25	65	120	138	154-3235
	70	58 H7	DIN5482 A58x53	60 H7	78	7	13	12	27	68	8	18	0	65	144	158	154-3103
	70	58 H7	DIN5482 A58x53	60 H7	78	7	13	12	27	68	10	10	0.25	65	100	124.5	154-3075
	70	58 H7	DIN5482 A58x53	60 H7	78	7	13	12	27	68	10	12	0.475	65	120	149.5	154-3105
	70	58 H7	DIN5482 A58x53	60 H7	68	7	13	10	27	68	10	15	0	65	150	167	154-3248
	70	58 H7	DIN5482 A58x53	60 H7	78	5	12	12	30	84	6	14	0.5	80	84	101.5	154-3238
SS	70	58 H7	DIN5482 A58x53	60 H7	78	5	12	12	30	84	6	16	0.4167	80	96	111	154-3234
	70	58 H7	DIN5482 A58x53	60 H7	78	5	12	12	30	84	6	19	0	80	114	126	154-2706
	70	58 H7	DIN5482 A58x53	60 H7	78	6	12	10	30	84	6	24	0	80	144	154	154-3101
	70	58 H7	DIN5482 A58x53	60 H7	78	5	12	12	30	84	7	13	0.5	80	91	109	154-3038
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Kg 3.3

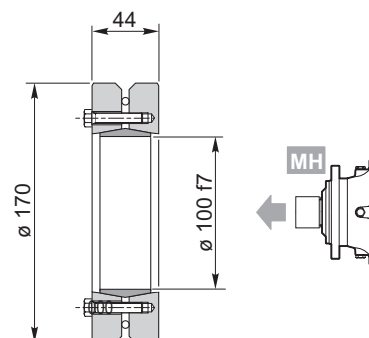


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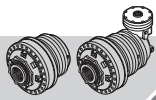
Materiale / Materiale / Material
Matériau / Material / Material:Acciaio / Steel / Stahl / Acier / Acero / Aço
39NiCrMo3 UNI 7845 (1.6511)

Kg 4.7

C38



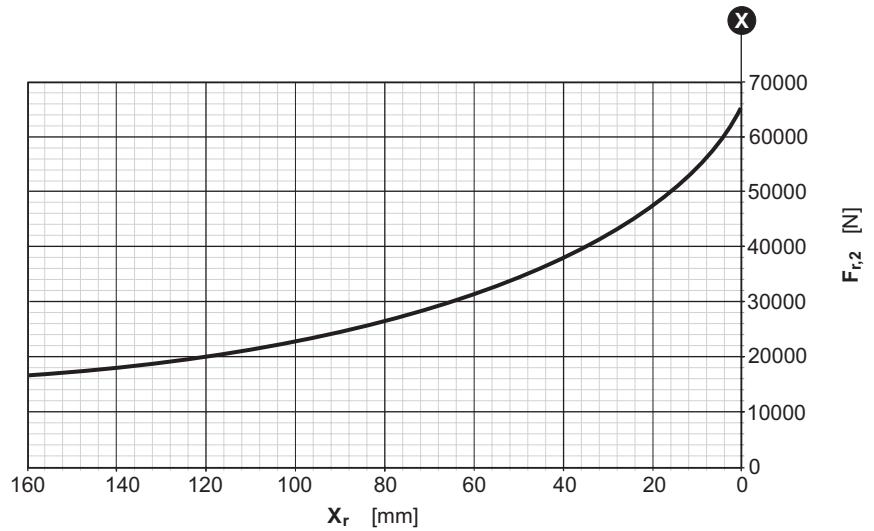
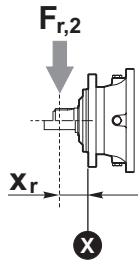
154B3090



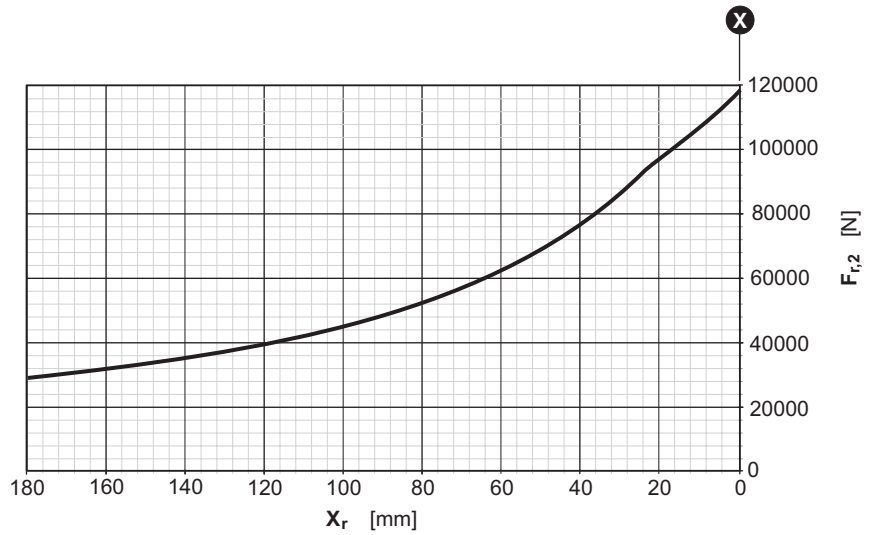
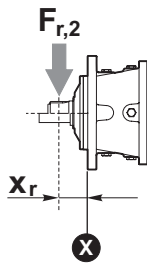
510

IT EN DE FR ES PT

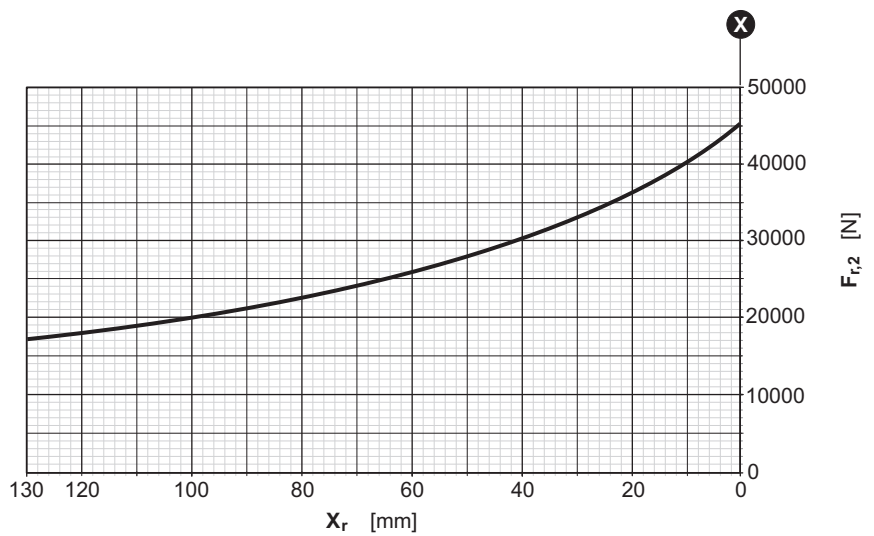
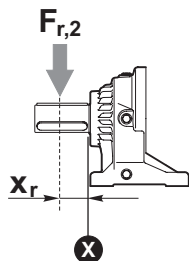
RR	510	..	MS
RA			MC



RR	510	..	SS
RA			SC
			SE

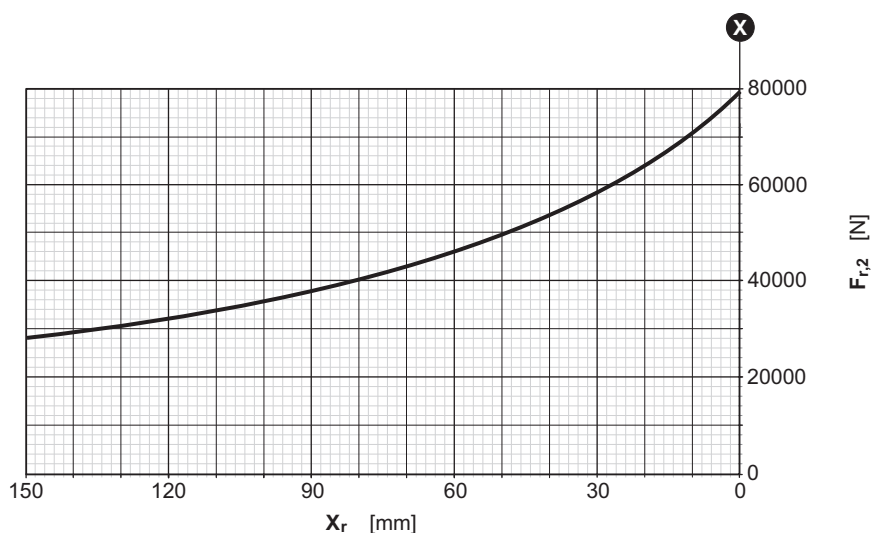
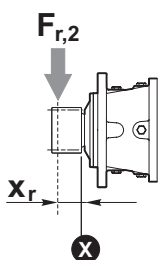


RR	510	..	UC
RA			

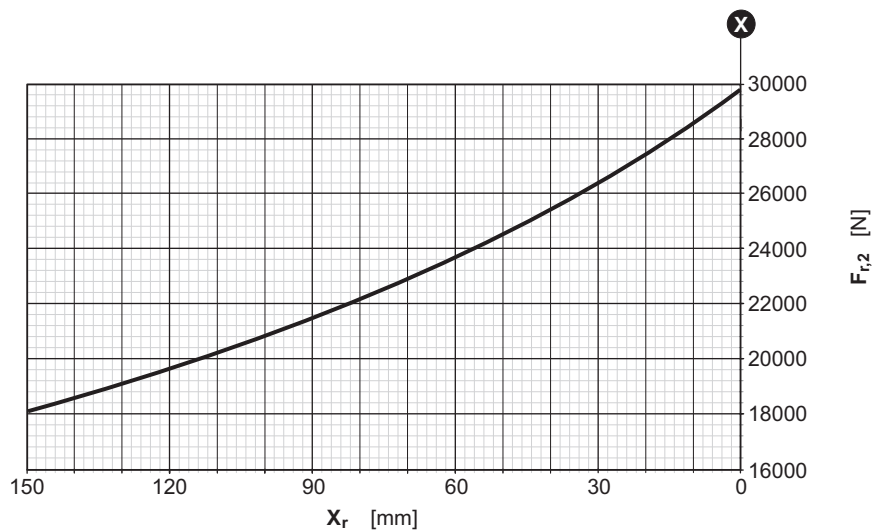
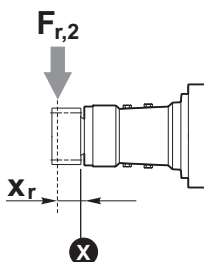




RR 510 .. SI



RR 510 .. VI



Fattore correttivo k_{r2} / k_{r2} Corrective coefficient / Korrekturfaktor k_{r2}
 Facteur correctif k_{r2} / Factor de corrección k_{r2} / Fator corretivo k_{r2}

