

RIDUTTORE / GEAR UNIT  
GETRIEBE / REDUCTEUR

**F 10 2 H30 FA 48.7 S1 H5 .....**

OPZIONI / OPTIONS  
OPTIONEN / OPTIONS

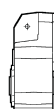
22

POSIZIONE DI MONTAGGIO / MOUNTING POSITION  
EINBAULAGEN / POSITION DE MONTAGE

25

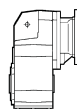
H1 (Standard), H2, H3, H4, H5, H6

DESIGNAZIONE INGRESSO / INPUT CONFIGURATION  
BEZEICHNUNG DER ANTRIEBSSEITE / DESIGNATION ENTREE

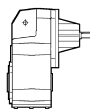


S05

- S1
- S2
- S3
- S4
- S5



- |      |      |
|------|------|
| P63  | P132 |
| P71  | P160 |
| P80  | P180 |
| P90  | P200 |
| P100 | P225 |
| P112 | P250 |



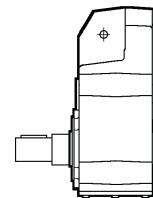
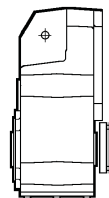
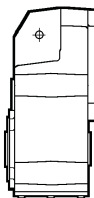
HS

RAPPORTO DI RIDUZIONE / GEAR RATIO  
ÜBERSETZUNG / RAPPORT DE REDUCTION

GRANDEZZA FLANGIA DI USCITA (specificare solo se richiesta)  
OUTPUT FLANGE SIZE (specify only if requested)  
BAUGRÖSSE ANTRIEBSFLANSCH (angeben nur wenn angefragt)  
TAILLE BRIDE EN SORTIE (spécifier seulement sur demande)

**F** = Versione flangiata / Flanged version / Ausführung mit Flansch / Version avec bride  
**A,B,C** = Grandezza flangia / Flange size / Flanschgröße / Taille bride

FORMA COSTRUTTIVA / VERSION / BAUFORM / FORME DE CONSTRUCTION



	H								
	F102	F202	F302	F402	F502	F603	F703	F803	F903
	F203	F303	F403	F503	F604	F704	F804	F904	
Standard	H25	H30	H35	H40	H50	H60	H80	H90	H100
Alternative	H30	H35	H40	H45	H55	H70	H70	H80	H90

Diametri alternativi a richiesta  
Alternative diameters available on request  
Alternative Durchmesser auf Anfrage  
Diamètres alternatifs sur demande

STADI DI RIDUZIONE / REDUCTIONS  
GETRIEBESTUFEN / ETAGES DE REDUCTION

2 (F 10...F 50), 3 (F 20...F 90), 4 (F 30...F 90)

GRANDEZZA RIDUTTORE / GEAR FRAME SIZE / GETRIEBEBAUGRÖSSE / TAILLE REDUCTEUR

10, 20, 30, 40, 50, 60, 70, 80, 90

TIPO RIDUTTORE: **F** = pendolare  
GETRIEBETYP: **F** = Aufsteckgetriebe

GEARBOX TYPE: **F** = helical shaft-mounted  
TYPE DU REDUCTEUR: **F** = pendulaires

Designazione motore      *Motor designation*      Motor bezeichnung      *Designation moteur*

MOTORE / MOTOR  
MOTOR / MOTEUR

FRENO / BRAKE  
BREMSE / FREIN

**M 1LA 4 230/400-50 IP54 CLF ..... W FD 7.5 R SB 220 SA .....**

OPZIONI  
OPTIONS  
OPTIONEN  
OPTIONS

22

ALIMENTAZ. FRENO  
BRAKE SUPPLY  
BREMSVERSORGUNG  
ALIMENTATION FREIN

141 146 150

TIPO RADDRIZZATORE AC/DC  
RECTIFIER TYPE  
GLEICHRICHTERTYP  
TYPE ALIMENTATEUR  
**NB, SB, NBR, SBR**

142

LEVA DI SBLOCCO FRENO  
BRAKE HAND RELEASE  
BRESENTHANDLÜFTUNG  
LEVIER DE DEBLOCAGE FREIN  
**R, RM**

153

COPPIA FRENANTE / BRAKE TORQUE  
BREMSMOMENT/ COUPLE FREIN

143 147 151

TIPO FRENO / BRAKE TYPE  
BRESENTYP / TYPE DE FREIN

140 145 149

**FD** (freno c.c./ d.c. brake / G.S. Bremse / frein c.c.)  
**FA, BA** (freno c.a./ a.c. brake / W.S. Bremse / frein c.a.)

POSIZIONE MORSETTIERA / TERMINAL BOX POSITION  
KLEMMENKASTENLAGE / POSITION BOITE A BORNE  
**W** (default), **N, E, S**

25

FORMA COSTRUTTIVA / MOTOR MOUNTING  
BAUFORM / FORM DE CONSTRUCTION

— (motore integrato / compact motor  
kompaktes Motor / moteur compact)

**B5** (motore IEC / IEC - motor / IEC Motor / moteur CEI)

CLASSE ISOLAMENTO / INSULATION CLASS  
ISOLIERUNGSKLASSE / CLASSE ISOLATION

**CL F** standard  
**CL H** option

134

GRADO DI PROTEZIONE / DEGREE OF PROTECTION  
SCHUTZART / DEGRE DE PROTECTION

**IP55** standard (IP54 - motore autofrenante / brake motor / Bremssmotor / moteur frein)

128

TENSIONE - FREQUENZA / VOLTAGE - FREQUENCY  
SPANNUNG - FREQUENZ / TENSION - FREQUENCE

132

NUMERO DI POLI / POLE NUMBER / POLZAHL / N.bre POLES  
**2, 4, 6, 2/4, 2/6, 2/8, 2/12, 4/6, 4/8**



GRANDEZZA MOTORE / MOTOR SIZE / MOTOR-BAUGRÖSSE / TAILLE MOTEUR

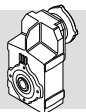
**05A - 5LA** (motore integrato / compact motor / kompaktes Motor / moteur compact)  
**63A - 250M** (motore IEC / IEC motor / IEC - motor / moteur CEI)

TIPO MOTORE/ MOTOR TYPE / MOTORTYP / TYPE MOTEUR

**M** = trifase integrato / compact 3-phase / kompaktes Dreiphasen / 3 phasé compact  
**BN** = trifase IEC / IEC 3-phase / IEC Dreiphasen / 3 phasé CEI





	i	$n_1 = 2800 \text{ min}^{-1}$					$n_1 = 1400 \text{ min}^{-1}$					
		$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	
<b>F 10 2_7.4</b>		378	63	2.6	1000	1290	189	76	1.6	1290	1640	85
<b>F 10 2_9.8</b>		286	73	2.3	980	1410	143	89	1.4	1250	1780	
<b>F 10 2_13.0</b>		215	85	2.0	940	1530	108	104	1.2	1210	1940	
<b>F 10 2_14.6</b>		192	94	2.0	1120	1590	96	119	1.3	1300	2000	
<b>F 10 2_19.3</b>		145	108	1.7	1100	1730	73	136	1.1	1300	2180	
<b>F 10 2_25.8</b>		109	123	1.5	1090	1890	54	140	0.84	1300	2430	
<b>F 10 2_33.0</b>		85	137	1.3	1070	2040	42	140	0.65	1300	2670	
<b>F 10 2_39.6</b>		71	140	1.1	1080	2190	35	140	0.54	1300	2800	
<b>F 10 2_48.7</b>		57	140	0.89	1090	2370	28.7	140	0.44	1300	2800	
<b>F 10 2_63.0</b>		44	140	0.69	1110	2620	22.2	140	0.34	1300	2800	
<b>F 10 2_71.1</b>		39	140	0.61	1000	2750	19.7	140	0.30	1300	2800	
<b>F 10 2_91.5</b>		31	140	0.47	1110	2800	15.3	140	0.24	1300	2800	
<b>F 10 2_106.0</b>		26.4	140	0.41	1120	2800	13.2	140	0.20	1300	2800	
<b>F 10 2_127.1</b>		22.0	140	0.34	1130	2800	11.0	140	0.17	1300	2800	
$n_1 = 900 \text{ min}^{-1}$						$n_1 = 500 \text{ min}^{-1}$						
<b>F 10 2_7.4</b>		122	91	1.2	1300	1890	68	111	0.83	1300	2300	85
<b>F 10 2_9.8</b>		92	107	1.1	1300	2050	51	130	0.73	1300	2490	
<b>F 10 2_13.0</b>		69	124	0.95	1300	2240	38	140	0.59	1300	2760	
<b>F 10 2_14.6</b>		62	138	0.94	1300	2320	34	140	0.53	1300	2800	
<b>F 10 2_19.3</b>		47	140	0.72	1300	2580	26	140	0.40	1300	2800	
<b>F 10 2_25.8</b>		35	140	0.54	1300	2800	19	140	0.30	1300	2800	
<b>F 10 2_33.0</b>		27	140	0.42	1300	2800	15	140	0.23	1300	2800	
<b>F 10 2_39.6</b>		23	140	0.35	1300	2800	13	140	0.19	1300	2800	
<b>F 10 2_48.7</b>		18	140	0.28	1300	2800	10	140	0.16	1300	2800	
<b>F 10 2_63.0</b>		14	140	0.22	1300	2800	8	140	0.12	1300	2800	
<b>F 10 2_71.1</b>		13	140	0.20	1300	2800	7	140	0.11	1300	2800	
<b>F 10 2_91.5</b>		10	140	0.15	1300	2800	5	140	0.08	1300	2800	
<b>F 10 2_106.0</b>		8	140	0.13	1300	2800	5	140	0.07	1300	2800	
<b>F 10 2_127.1</b>		7	140	0.11	1300	2800	4	140	0.06	1300	2800	



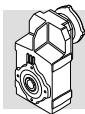
# F 20



# 250 Nm

	i	$n_1 = 2800 \text{ min}^{-1}$					$n_1 = 1400 \text{ min}^{-1}$					
		$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	
F 20 2_6.4		438	103	5.0	—	1370	219	130	3.1	—	1720	89
F 20 2_8.7		322	123	4.4	—	1490	161	155	2.7	—	1870	
F 20 2_11.2		250	141	3.9	—	1590	125	177	2.4	—	2010	
F 20 2_14.8		189	166	3.5	760	1740	95	203	2.1	1010	2210	
F 20 2_20.2		139	182	2.8	810	1940	69	223	1.7	1070	2460	
F 20 2_25.9		108	196	2.3	830	2110	54	240	1.4	1100	2680	
F 20 2_33.1		85	210	2.0	800	2300	42	250	1.2	1120	2940	
F 20 2_41.8		67	225	1.7	780	2490	33	250	0.92	1220	3240	
F 20 2_50.7		55	238	1.4	780	2660	27.6	250	0.76	1320	3500	
F 20 2_61.9		45	250	1.2	750	2860	22.6	250	0.62	1370	3790	
F 20 2_76.8		36	250	1.0	780	3130	18.2	250	0.50	1380	4000	
F 20 2_90.4		31	250	0.85	830	3340	15.5	250	0.43	1390	4000	
F 20 2_114.3		24	250	0.67	850	3670	12.2	250	0.34	1400	4000	
F 20 2_132.2		21	250	0.58	870	3890	10.6	250	0.29	1400	4000	
F 20 3_172.6		16	250	0.46	1130	4000	8.1	250	0.23	1300	4000	
F 20 3_209.3		13	250	0.38	1190	4000	6.7	250	0.19	1300	4000	
F 20 3_255.3		11	250	0.31	1240	4000	5.5	250	0.15	1300	4000	
F 20 3_316.9		9	250	0.25	1280	4000	4.4	250	0.12	1300	4000	
F 20 3_372.9		8	250	0.21	1300	4000	3.8	250	0.11	1300	4000	
F 20 3_471.7		6	250	0.17	1300	4000	3.0	250	0.08	1300	4000	
F 20 3_545.3		5	250	0.15	1300	4000	2.6	250	0.07	1300	4000	

	$n_1 = 900 \text{ min}^{-1}$					$n_1 = 500 \text{ min}^{-1}$						
F 20 2_6.4		141	150	2.3	—	1990	78	183	1.6	—	2420	89
F 20 2_8.7		103	180	2.1	—	2170	57	219	1.4	—	2640	
F 20 2_11.2		80	205	1.8	—	2330	45	250	1.2	—	2830	
F 20 2_14.8		61	232	1.6	1210	2570	34	250	0.93	1790	3230	
F 20 2_20.2		45	250	1.2	1320	2870	25	250	0.68	1960	3650	
F 20 2_25.9		35	250	0.96	1500	3190	19.3	250	0.53	2010	4000	
F 20 2_33.1		27.2	250	0.75	1580	3520	15.1	250	0.42	2040	4000	
F 20 2_41.8		21.5	250	0.59	1610	3870	12.0	250	0.33	2070	4000	
F 20 2_50.7		17.8	250	0.49	1640	4000	9.9	250	0.27	2090	4000	
F 20 2_61.9		14.5	250	0.40	1660	4000	8.1	250	0.22	2110	4000	
F 20 2_76.8		11.7	250	0.32	1670	4000	6.5	250	0.18	2120	4000	
F 20 2_90.4		10.0	250	0.27	1680	4000	5.5	250	0.15	2130	4000	
F 20 2_114.3		7.9	250	0.22	1690	4000	4.4	250	0.12	2140	4000	
F 20 2_132.2		6.8	250	0.19	1690	4000	3.8	250	0.10	2150	4000	
F 20 3_172.6		5.2	250	0.15	1300	4000	2.9	250	0.08	1300	4000	
F 20 3_209.3		4.3	250	0.12	1300	4000	2.4	250	0.07	1300	4000	
F 20 3_255.3		3.5	250	0.10	1300	4000	2.0	250	0.06	1300	4000	
F 20 3_316.9		2.8	250	0.08	1300	4000	1.6	250	0.04	1300	4000	
F 20 3_372.9		2.4	250	0.07	1300	4000	1.3	250	0.04	1300	4000	
F 20 3_471.7		1.9	250	0.05	1300	4000	1.1	250	0.03	1300	4000	
F 20 3_545.3		1.7	250	0.05	1300	4000	0.9	250	0.03	1300	4000	

(-) Interpellare il ns. servizio tecnico comunicando i dati relativi al carico radiale (senso di rotazione, orientamento, posizione)  
 (-) Contact our technical service department advising radial load data (rotation direction, orientation, position)  
 (-) Nehmen Sie bitte Kontakt mit unserem Applikationsdienst und Querkraftsdaten angeben (Drehrichtung, Orientierung, Anordnung)  
 (-) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



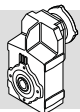
	i	$n_1 = 2800 \text{ min}^{-1}$					$n_1 = 1400 \text{ min}^{-1}$						
		$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N		
F 30 2_6.9		406	220	9.8	—	3010	203	280	6.3	—	3790	93	
F 30 2_9.0		311	250	8.6	—	3250	156	315	5.4	—	4090		
F 30 2_12.0		233	270	6.9	—	3590	117	345	4.4	—	4500		
F 30 2_15.1		185	290	5.9	—	3890	93	370	3.8	—	4880		
F 30 2_19.5		144	310	4.9	—	4250	72	380	3.0	210	5400		
F 30 2_24.4		115	330	4.2	—	4600	57	380	2.4	440	5930		
F 30 2_28.9		97	340	3.6	—	4900	48	380	2.0	580	6370		
F 30 2_35.0		80	350	3.1	—	5280	40	360	1.6	960	6500		
F 30 3_40.2		70	380	3.0	1860	5470	35	470	1.8	2200	6500		
F 30 3_52.1		54	420	2.5	1860	5940	26.9	510	1.5	2200	6500		
F 30 3_69.1		41	460	2.1	1870	6500	20.3	550	1.3	2200	6500		
F 30 3_87.4		32	490	1.8	1880	6500	16.0	550	1.0	2200	6500		
F 30 3_112.5		24.9	530	1.5	1870	6500	12.4	550	0.77	2200	6500		
F 30 3_140.7		19.9	550	1.2	1870	6500	10.0	550	0.62	2200	6500		
F 30 3_166.8		16.8	550	1.0	1880	6500	8.4	550	0.52	2200	6500		
F 30 3_202.3		13.8	550	0.86	1890	6500	6.9	550	0.43	2200	6500		
F 30 3_253.6		11.0	550	0.69	1900	6500	5.5	550	0.34	2200	6500		
F 30 3_293.8		9.5	550	0.59	1900	6500	4.8	550	0.30	2200	6500		
F 30 3_374.4		7.5	550	0.46	1910	6500	3.7	550	0.23	2200	6500		
F 30 4_462.6		6.1	550	0.39	1300	6500	3.0	55	0.02	1300	6500		
F 30 4_578.6		4.8	550	0.31	1300	6500	2.4	550	0.15	1300	6500		
F 30 4_685.6		4.1	550	0.26	1300	6500	2.0	550	0.13	1300	6500		
F 30 4_831.6		3.4	550	0.21	1300	6500	1.7	550	0.11	1300	6500		
F 30 4_1042		2.7	550	0.17	1300	6500	1.3	550	0.09	1300	6500		
F 30 4_1208		2.3	550	0.15	1300	6500	1.2	550	0.07	1300	6500		
F 30 4_1539		1.8	550	0.12	1300	6500	0.9	550	0.06	1300	6500		
		$n_1 = 900 \text{ min}^{-1}$					$n_1 = 500 \text{ min}^{-1}$						
F 30 2_6.9		130	325	4.7	—	4380	72	380	3.0	340	5400		93
F 30 2_9.0		100	365	4.0	—	4740	56	380	2.3	1080	6020		
F 30 2_12.0		75	380	3.1	330	5290	42	380	1.7	1690	6500		
F 30 2_15.1		60	380	2.5	720	5850	33	380	1.4	2080	6500		
F 30 2_19.5		46	380	1.9	1070	6500	25.6	380	1.1	2200	6500		
F 30 2_24.4		37	380	1.5	1300	6500	20.5	380	0.86	2200	6500		
F 30 2_28.9		31	380	1.3	1440	6500	17.3	380	0.72	2200	6500		
F 30 2_35.0		25.7	360	1.0	1820	6500	14.3	360	0.57	2200	6500		
F 30 3_40.2		22.4	540	1.4	2200	6500	12.4	550	0.77	2200	6500		
F 30 3_52.1		17.3	550	1.1	2200	6500	9.6	550	0.60	2200	6500		
F 30 3_69.1		13.0	550	0.81	2200	6500	7.2	550	0.45	2200	6500		
F 30 3_87.4		10.3	550	0.64	2200	6500	5.7	550	0.36	2200	6500		
F 30 3_112.5		8.0	550	0.50	2200	6500	4.4	550	0.28	2200	6500		
F 30 3_140.7		6.4	550	0.40	2200	6500	3.6	550	0.22	2200	6500		
F 30 3_166.8		5.4	550	0.34	2200	6500	3.0	550	0.19	2200	6500		
F 30 3_202.3		4.4	550	0.28	2200	6500	2.5	550	0.15	2200	6500		
F 30 3_253.6		3.5	550	0.22	2200	6500	2.0	550	0.12	2200	6500		
F 30 3_293.8		3.1	550	0.19	2200	6500	1.7	550	0.11	2200	6500		
F 30 3_374.4		2.4	550	0.15	2200	6500	1.3	550	0.08	2200	6500		
F 30 4_462.6		1.9	550	0.12	1300	6500	1.1	550	0.07	1300	6500		
F 30 4_578.6		1.6	550	0.10	1300	6500	0.86	550	0.06	1300	6500		
F 30 4_685.6		1.3	550	0.08	1300	6500	0.73	550	0.05	1300	6500		
F 30 4_831.6		1.1	550	0.07	1300	6500	0.60	550	0.04	1300	6500		
F 30 4_1042		0.9	550	0.06	1300	6500	0.48	550	0.03	1300	6500		
F 30 4_1208		0.7	550	0.05	1300	6500	0.41	550	0.03	1300	6500		
F 30 4_1539		0.6	550	0.04	1300	6500	0.32	550	0.02	1300	6500		

(-) Interpellare il ns. servizio tecnico comunicando i dati relativi al carico radiale (senso di rotazione, orientamento, posizione)

(-) Contact our technical service department advising radial load data (rotation direction, orientation, position)



(-) Nehmen Sie bitte Kontakt mit unserem Applikationsdienst und Querkraftsdaten angeben (Drehrichtung, Orientierung, Anordnung)

(-) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)

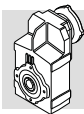




# F 40

# 950 Nm

	i	$n_1 = 2800 \text{ min}^{-1}$					$n_1 = 1400 \text{ min}^{-1}$					
		$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	
F 40 2_6.7		418	390	17.9	—	3580	209	490	11.3	—	4510	97
F 40 2_9.1		308	440	14.9	—	3930	154	550	9.3	—	4970	
F 40 2_11.8		237	490	12.8	—	4240	119	620	8.1	—	5330	
F 40 2_15.1		185	515	10.5	—	4660	93	650	6.6	—	5870	
F 40 2_18.8		149	540	8.9	—	5070	74	680	5.6	—	6390	
F 40 2_23.8		118	570	7.4	—	5540	59	700	4.5	190	7050	
F 40 2_29.9		94	600	6.2	—	6030	47	640	3.3	1160	8020	
F 40 2_35.3		79	580	5.1	330	6570	40	580	2.5	1920	8500	
F 40 3_37.9		74	610	5.1	2840	6670	37	750	3.1	3500	8500	
F 40 3_51.5		54	700	4.3	2830	7290	27.2	860	2.6	3500	8500	
F 40 3_66.5		42	790	3.8	2830	7840	21.1	950	2.3	3500	8500	
F 40 3_84.9		33	850	3.2	2820	8500	16.5	950	1.8	3500	8500	
F 40 3_106.0		26.4	910	2.7	2820	8500	13.2	950	1.4	3500	8500	
F 40 3_134.4		20.8	95	0.2	2820	8500	10.4	950	1.1	3500	8500	
F 40 3_168.7		16.6	950	1.8	2840	8500	8.3	950	0.89	3500	8500	
F 40 3_198.9		14.1	950	1.5	2850	8500	7.0	950	0.76	3500	8500	
F 40 3_240.1		11.7	950	1.3	2860	8500	5.8	950	0.63	3500	8500	
F 40 3_296.6		9.4	950	1.0	2870	8500	4.7	950	0.51	3500	8500	
F 40 3_344.8		8.1	950	0.87	2880	8500	4.1	950	0.44	3500	8500	
F 40 4_433.7		6.5	950	0.71	1300	8500	3.2	950	0.36	1300	8500	
F 40 4_549.8		5.1	950	0.56	1300	8500	2.5	950	0.28	1300	8500	
F 40 4_690.1		4.1	950	0.45	1300	8500	2.0	950	0.22	1300	8500	
F 40 4_813.8		3.4	950	0.38	1300	8500	1.7	950	0.19	1300	8500	
F 40 4_982.4		2.9	950	0.31	1300	8500	1.4	950	0.16	1300	8500	
F 40 4_1213		2.3	950	0.25	1300	8500	1.2	950	0.13	1300	8500	
F 40 4_1411		2.0	950	0.22	1300	8500	1.0	950	0.11	1300	8500	
		$n_1 = 900 \text{ min}^{-1}$					$n_1 = 500 \text{ min}^{-1}$					
F 40 2_6.7		134	570	8.4	—	5220	75	600	4.9	1510	6690	97
F 40 2_9.1		99	640	7.0	—	5750	55	700	4.2	1100	7280	
F 40 2_11.8		76	700	5.9	130	6250	42	700	3.3	2060	8150	
F 40 2_15.1		60	700	4.6	610	6990	33	700	2.6	2540	8500	
F 40 2_18.8		48	700	3.7	1050	7730	26.6	700	2.0	2980	8500	
F 40 2_23.8		38	700	2.9	1420	8500	21.0	700	1.6	3350	8500	
F 40 2_29.9		30	640	2.1	2390	8500	16.7	640	1.2	3500	8500	
F 40 2_35.3		25.5	580	1.6	3140	8500	14.2	580	0.9	3500	8500	
F 40 3_37.9		23.7	860	2.3	3500	8500	13.2	950	1.4	3500	8500	
F 40 3_51.5		17.5	950	1.9	3500	8500	9.7	950	1.0	3500	8500	
F 40 3_66.5		13.5	950	1.5	3500	8500	7.5	950	0.81	3500	8500	
F 40 3_84.9		10.6	950	1.1	3500	8500	5.9	950	0.63	3500	8500	
F 40 3_106.0		8.5	950	0.91	3500	8500	4.7	950	0.51	3500	8500	
F 40 3_134.4		6.7	950	0.72	3500	8500	3.7	950	0.40	3500	8500	
F 40 3_168.7		5.3	950	0.57	3500	8500	3.0	950	0.32	3500	8500	
F 40 3_198.9		4.5	950	0.49	3500	8500	2.5	950	0.27	3500	8500	
F 40 3_240.1		3.7	950	0.40	3500	8500	2.1	950	0.22	3500	8500	
F 40 3_296.6		3.0	950	0.33	3500	8500	1.7	950	0.18	3500	8500	
F 40 3_344.8		2.6	950	0.28	3500	8500	1.5	950	0.16	3500	8500	
F 40 4_433.7		2.1	950	0.23	1300	8500	1.2	950	0.13	1300	8500	
F 40 4_549.8		1.6	950	0.18	1300	8500	0.91	950	0.10	1300	8500	
F 40 4_690.1		1.3	950	0.14	1300	8500	0.72	950	0.08	1300	8500	
F 40 4_813.8		1.1	950	0.12	1300	8500	0.61	950	0.07	1300	8500	
F 40 4_982.4		0.92	950	0.10	1300	8500	0.51	950	0.06	1300	8500	
F 40 4_1213		0.74	950	0.08	1300	8500	0.41	950	0.05	1300	8500	
F 40 4_1411		0.64	950	0.07	1300	8500	0.35	950	0.04	1300	8500	

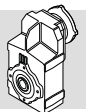
(-) Interpellare il ns. servizio tecnico comunicando i dati relativi al carico radiale (senso di rotazione, orientamento, posizione)  
 (-) Contact our technical service department advising radial load data (rotation direction, orientation, position)  
 (-) Nehmen Sie bitte Kontakt mit unserem Applikationsdienst und Querkraftsdaten angeben (Drehrichtung, Orientierung, Anordnung)  
 (-) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



	i	$n_1 = 2800 \text{ min}^{-1}$					$n_1 = 1400 \text{ min}^{-1}$					
		$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	
F 50 2_7.2	389	445	19.1	—	5030	194	560	12.0	—	6340	101	
F 50 2_9.1	308	490	16.6	—	5400	154	620	10.5	—	6800		
F 50 2_12.2	230	545	13.8	—	5950	115	690	8.7	—	7490		
F 50 2_15.4	182	590	11.8	—	6440	91	740	7.4	—	8120		
F 50 2_19.5	144	620	9.8	—	7000	72	780	6.2	—	8830		
F 50 2_24.0	117	645	8.3	—	7570	58	810	5.2	—	9550		
F 50 2_30.7	91	680	6.8	—	8270	46	850	4.3	—	10430		
F 50 3_38.9	72	980	8.0	2450	8280	36	1250	5.1	3110	10520		
F 50 3_48.9	57	1090	7.1	2450	8850	28.6	1350	4.4	3100	11210		
F 50 3_65.8	43	1210	5.8	2460	9750	21.3	1600	3.8	3110	12000		
F 50 3_83.2	34	1290	4.9	2480	10620	16.8	1600	3.0	3130	12000		
F 50 3_105.1	26.6	1390	4.2	2460	11460	13.3	1600	2.4	3160	12000		
F 50 3_129.9	21.6	1480	3.6	2450	12000	10.8	1600	1.9	3190	12000		
F 50 3_165.6	16.9	1590	3.0	2450	12000	8.5	1600	1.5	3220	12000		
F 50 3_202.4	13.8	1600	2.5	2460	12000	6.9	1600	1.3	3230	12000		
F 50 3_239.8	11.7	1600	2.1	2470	12000	5.8	1600	1.1	3250	12000		
F 50 3_285.9	9.8	1600	1.8	2480	12000	4.9	1600	0.89	3260	12000		
F 50 3_352.5	7.9	1600	1.4	2480	12000	4.0	1600	0.72	3260	12000		
F 50 4_429.1	6.5	1600	1.2	2200	12000	3.3	1600	0.61	2200	12000		
F 50 4_530.5	5.3	1600	1.0	2200	12000	2.6	1600	0.49	2200	12000		
F 50 4_676.3	4.1	1600	0.77	2200	12000	2.1	1600	0.38	2200	12000		
F 50 4_826.4	3.4	1600	0.63	2200	12000	1.7	1600	0.31	2200	12000		
F 50 4_979.4	2.9	1600	0.53	2200	12000	1.4	1600	0.27	2200	12000		
F 50 4_1168	2.4	1600	0.44	2200	12000	1.2	1600	0.22	2200	12000		
F 50 4_1439	1.9	1600	0.36	2200	12000	1.0	1600	0.18	2200	12000		



	$n_1 = 900 \text{ min}^{-1}$					$n_1 = 500 \text{ min}^{-1}$					
F 50 2_7.2	125	650	8.9	—	7340	69	790	6.0	—	8930	101
F 50 2_9.1	99	715	7.8	—	7890	55	870	5.3	—	9590	
F 50 2_12.2	74	795	6.5	—	8690	41	970	4.4	—	10570	
F 50 2_15.4	58	860	5.5	—	9400	32	1000	3.6	460	11560	
F 50 2_19.5	46	905	4.6	—	10230	25.6	1000	2.8	880	12000	
F 50 2_24.0	38	940	3.9	—	11060	20.8	1000	2.3	1280	12000	
F 50 2_30.7	29.3	900	2.9	790	12000	16.3	900	1.6	2580	12000	
F 50 3_38.9	23.1	1380	3.6	3500	12000	12.9	1600	2.3	3500	12000	
F 50 3_48.9	18.4	1530	3.2	3500	12000	10.2	1590	1.8	3500	12000	
F 50 3_65.8	13.7	1600	2.5	3500	12000	7.6	1600	1.4	3500	12000	
F 50 3_83.2	10.8	1600	2.0	3500	12000	6.0	1600	1.1	3500	12000	
F 50 3_105.1	8.6	1600	1.5	3500	12000	4.8	1600	0.86	3500	12000	
F 50 3_129.9	6.9	1600	1.3	3500	12000	3.8	1600	0.70	3500	12000	
F 50 3_165.6	5.4	1600	1.0	3500	12000	3.0	1600	0.55	3500	12000	
F 50 3_202.4	4.4	1600	0.80	3500	12000	2.5	1600	0.45	3500	12000	
F 50 3_239.8	3.8	1600	0.68	3500	12000	2.1	1600	0.38	3500	12000	
F 50 3_285.9	3.1	1600	0.57	3500	12000	1.7	1600	0.32	3500	12000	
F 50 3_352.5	2.6	1600	0.46	3500	12000	1.4	1600	0.26	3500	12000	
F 50 4_429.1	2.1	1600	0.39	2200	12000	1.2	1600	0.22	2200	12000	
F 50 4_530.5	1.7	1600	0.31	2200	12000	0.94	1600	0.17	2200	12000	
F 50 4_676.3	1.3	1600	0.25	2200	12000	0.74	1600	0.14	2200	12000	
F 50 4_826.4	1.1	1600	0.20	2200	12000	0.61	1600	0.11	2200	12000	
F 50 4_979.4	0.92	1600	0.17	2200	12000	0.51	1600	0.09	2200	12000	
F 50 4_1168	0.77	1600	0.14	2200	12000	0.43	1600	0.08	2200	12000	
F 50 4_1439	0.63	1600	0.12	2200	12000	0.35	1600	0.06	2200	12000	

(-) Interpellare il ns. servizio tecnico comunicando i dati relativi al carico radiale (senso di rotazione, orientamento, posizione)  
 (-) Contact our technical service department advising radial load data (rotation direction, orientation, position)  
 (-) Nehmen Sie bitte Kontakt mit unserem Applikationsdienst und Querkraftsdaten angeben (Drehrichtung, Orientierung, Anordnung)  
 (-) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



# F 60



# 2900 Nm

	i	$n_1 = 2800 \text{ min}^{-1}$					$n_1 = 1400 \text{ min}^{-1}$					
		$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	
F 60 3_9.0		311	920	32	—	13270	156	1160	20	—	16530	105
F 60 3_9.7		289	1000	33	—	13620	144	1250	20	—	16720	
F 60 3_11.8		237	1030	28	—	14550	119	1300	17.4	—	17840	
F 60 3_12.7		220	1110	28	—	14710	110	1400	17.4	—	18030	
F 60 3_14.5		193	1110	24	—	15450	97	1400	15.3	—	18950	
F 60 3_15.7		178	1200	24	—	15620	89	1500	15.1	—	19170	
F 60 3_19.1		147	1200	20	—	16800	73	1500	12.4	—	20000	
F 60 3_20.7		135	1300	20	—	16970	68	1640	12.5	—	20000	
F 60 3_23.5		119	1260	17	—	17920	60	1590	10.7	—	20000	
F 60 3_25.4		110	1370	17	—	18090	55	1720	10.7	—	20000	
F 60 3_29.6		95	2750	29	820	15920	47	2900	15.5	2630	20000	
F 60 3_32.1		87	2800	28	1290	16200	44	2900	14.3	3260	20000	
F 60 3_38.8		72	2900	24	1260	17480	36	2900	11.8	3480	20000	
F 60 3_42.1		67	2900	22	1820	17910	33	2900	10.9	3720	20000	
F 60 3_47.8		59	2900	19.2	1770	19050	29.3	2900	9.6	3730	20000	
F 60 3_51.8		54	2900	17.7	2290	19530	27.0	2900	8.9	3830	20000	
F 60 3_63.0		44	2900	14.6	2310	20000	22.2	2900	7.3	3850	20000	
F 60 3_68.3		41	2900	13.4	2790	20000	20.5	2900	6.7	3940	20000	
F 60 3_77.6		36	2900	11.8	2620	20000	18.0	2900	5.9	3920	20000	
F 60 3_84.0		33	2900	10.9	2960	20000	16.7	2900	5.5	4010	20000	
F 60 3_98.2		28.5	2900	9.3	2910	20000	14.3	2900	4.7	3980	20000	
F 60 3_106.4		26.3	2900	8.6	3020	20000	13.2	2900	4.3	4070	20000	
F 60 3_120.5		23.2	2900	7.6	2970	20000	11.6	2900	3.8	4030	20000	
F 60 3_130.5		21.5	2900	7.0	3060	20000	10.7	2900	3.5	4110	20000	
F 60 3_150.4		18.6	2900	6.1	3010	20000	9.3	2900	3.0	4060	20000	
F 60 3_162.9		17.2	2900	5.6	3090	20000	8.6	2900	2.8	4140	20000	
F 60 3_185.9		15.1	2900	4.9	3050	20000	7.5	2900	2.5	4100	20000	
F 60 3_201.4		13.9	2900	4.6	3130	20000	7.0	2900	2.3	4180	20000	
F 60 3_217.6		12.9	2900	4.2	3070	20000	6.4	2900	2.1	4120	20000	
F 60 3_235.8		11.9	2900	3.9	3140	20000	5.9	2900	1.9	4190	20000	
F 60 3_259.1		10.8	2900	3.5	3080	20000	5.4	2900	1.8	4130	20000	
F 60 3_280.7		10.0	2900	3.3	3150	20000	5.0	2900	1.6	4200	20000	
F 60 4_315.4		8.9	2900	3.0	3500	20000	4.4	2900	1.5	3500	20000	
F 60 4_341.7		8.2	2900	2.8	3500	20000	4.1	2900	1.4	3500	20000	
F 60 4_399.3		7.0	2900	2.4	3500	20000	3.5	2900	1.2	3500	20000	
F 60 4_432.6		6.5	2900	2.2	3500	20000	3.2	2900	1.1	3500	20000	
F 60 4_489.8		5.7	2900	1.9	3500	20000	2.9	2900	0.96	3500	20000	
F 60 4_530.7		5.3	2900	1.8	3500	20000	2.6	2900	0.89	3500	20000	
F 60 4_611.4		4.6	2900	1.5	3500	20000	2.3	2900	0.77	3500	20000	
F 60 4_662.4		4.2	2900	1.4	3500	20000	2.1	2900	0.71	3500	20000	
F 60 4_756.0		3.7	2900	1.2	3500	20000	1.9	2900	0.62	3500	20000	
F 60 4_819.0		3.4	2900	1.1	3500	20000	1.7	2900	0.57	3500	20000	
F 60 4_885.1		3.2	2900	1.1	3500	20000	1.6	2900	0.53	3500	20000	
F 60 4_958.9		2.9	2900	0.98	3500	20000	1.5	2900	0.49	3500	20000	
F 60 4_1054		2.7	2900	0.89	3500	20000	1.3	2900	0.45	3500	20000	
F 60 4_1141		2.5	2900	0.83	3500	20000	1.2	2900	0.41	3500	20000	

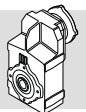
(-) Interpellare il ns. servizio tecnico comunicando i dati relativi al carico radiale (senso di rotazione, orientamento, posizione)  
 (-) Contact our technical service department advising radial load data (rotation direction, orientation, position)  
 (-) Nehmen Sie bitte Kontakt mit unserem Applikationsdienst und Querkraftsdaten angeben (Drehrichtung, Orientierung, Anordnung)  
 (-) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)







	i	$n_1 = 900 \text{ min}^{-1}$					$n_1 = 500 \text{ min}^{-1}$					
		$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	
F 60 3_9.0	100	1340	15.1	—	18840	56	1630	10.2	—	20000	105	
F 60 3_9.7	93	1460	15.3	—	19010	52	1780	10.4	—	20000		
F 60 3_11.8	76	1500	12.9	—	20000	42	1830	8.8	—	20000		
F 60 3_12.7	71	1620	13.0	—	20000	39	1900	8.4	600	20000		
F 60 3_14.5	62	1620	11.4	—	20000	34	1900	7.4	490	20000		
F 60 3_15.7	57	1750	11.3	—	20000	32	1900	6.8	1630	20000		
F 60 3_19.1	47	1750	9.3	—	20000	26.2	1900	5.6	1660	20000		
F 60 3_20.7	43	1900	9.3	—	20000	24.2	1900	5.2	2700	20000		
F 60 3_23.5	38	1840	8.0	—	20000	21.3	1900	4.6	2340	20000		
F 60 3_25.4	35	1900	7.6	620	20000	19.7	1900	4.2	3330	20000		
F 60 3_29.6	30	2900	10.0	4220	20000	16.9	2900	5.5	4700	20000		
F 60 3_32.1	28.0	2900	9.2	4350	20000	15.6	2900	5.1	4700	20000		
F 60 3_38.8	23.2	2900	7.6	4420	20000	12.9	2900	4.2	4700	20000		
F 60 3_42.1	21.4	2900	7.0	4530	20000	11.9	2900	3.9	4700	20000		
F 60 3_47.8	18.8	2900	6.2	4530	20000	10.5	2900	3.4	4700	20000		
F 60 3_51.8	17.4	2900	5.7	4640	20000	9.7	2900	3.2	4700	20000		
F 60 3_63.0	14.3	2900	4.7	4660	20000	7.9	2900	2.6	4700	20000		
F 60 3_68.3	13.2	2900	4.3	4700	20000	7.3	2900	2.4	4700	20000		
F 60 3_77.6	11.6	2900	3.8	4700	20000	6.4	2900	2.1	4700	20000		
F 60 3_84.0	10.7	2900	3.5	4700	20000	6.0	2900	1.9	4700	20000		
F 60 3_98.2	9.2	2900	3.0	4700	20000	5.1	2900	1.7	4700	20000		
F 60 3_106.4	8.5	2900	2.8	4700	20000	4.7	2900	1.5	4700	20000		
F 60 3_120.5	7.5	2900	2.4	4700	20000	4.1	2900	1.4	4700	20000		
F 60 3_130.5	6.9	2900	2.3	4700	20000	3.8	2900	1.3	4700	20000		
F 60 3_150.4	6.0	2900	2.0	4700	20000	3.3	2900	1.1	4700	20000		
F 60 3_162.9	5.5	2900	1.8	4700	20000	3.1	2900	1.0	4700	20000		
F 60 3_185.9	4.8	2900	1.6	4700	20000	2.7	2900	0.88	4700	20000		
F 60 3_201.4	4.5	2900	1.5	4700	20000	2.5	2900	0.81	4700	20000		
F 60 3_217.6	4.1	2900	1.4	4700	20000	2.3	2900	0.75	4700	20000		
F 60 3_235.8	3.8	2900	1.3	4700	20000	2.1	2900	0.69	4700	20000		
F 60 3_259.1	3.5	2900	1.1	4700	20000	1.9	2900	0.63	4700	20000		
F 60 3_280.7	3.2	2900	1.1	4700	20000	1.8	2900	0.58	4700	20000		
F 60 4_315.4	2.9	2900	0.96	3500	20000	1.6	2900	0.53	3500	20000		
F 60 4_341.7	2.6	2900	0.89	3500	20000	1.5	2900	0.49	3500	20000		
F 60 4_399.3	2.3	2900	0.76	3500	20000	1.3	2900	0.42	3500	20000		
F 60 4_432.6	2.1	2900	0.70	3500	20000	1.2	2900	0.39	3500	20000		
F 60 4_489.8	1.8	2900	0.62	3500	20000	1.0	2900	0.34	3500	20000		
F 60 4_530.7	1.7	2900	0.57	3500	20000	0.94	2900	0.32	3500	20000		
F 60 4_611.4	1.5	2900	0.50	3500	20000	0.82	2900	0.28	3500	20000		
F 60 4_662.4	1.4	2900	0.46	3500	20000	0.75	2900	0.25	3500	20000		
F 60 4_756.0	1.2	2900	0.40	3500	20000	0.66	2900	0.22	3500	20000		
F 60 4_819.0	1.1	2900	0.37	3500	20000	0.61	2900	0.21	3500	20000		
F 60 4_885.1	1.0	2900	0.34	3500	20000	0.56	2900	0.19	3500	20000		
F 60 4_958.9	0.94	2900	0.32	3500	20000	0.52	2900	0.18	3500	20000		
F 60 4_1054	0.85	2900	0.29	3500	20000	0.47	2900	0.16	3500	20000		
F 60 4_1141	0.79	2900	0.27	3500	20000	0.44	2900	0.15	3500	20000		

(-) Interpellare il ns. servizio tecnico comunicando i dati relativi al carico radiale (senso di rotazione, orientamento, posizione)  
 (-) Contact our technical service department advising radial load data (rotation direction, orientation, position)  
 (-) Nehmen Sie bitte Kontakt mit unserem Applikationsdienst und Querkraftsdaten angeben (Drehrichtung, Orientierung, Anordnung)  
 (-) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)





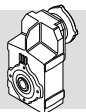
# F 70

# 5000 Nm

	i	$n_1 = 2800 \text{ min}^{-1}$					$n_1 = 1400 \text{ min}^{-1}$					
		$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	
F 70 3_10.0		280	2600	82	1410	14770	140	3200	51	1750	18190	109
F 70 3_10.9		257	2800	81	1510	14710	128	3450	50	1840	18110	
F 70 3_12.8		219	2900	72	860	15710	109	3600	44	880	19280	
F 70 3_13.9		201	3150	72	810	15570	101	3900	44	880	19120	
F 70 3_16.3		172	3250	63	570	16630	86	4000	39	710	20480	
F 70 3_17.7		158	3550	63	430	16400	79	4350	39	630	20240	
F 70 3_20.9		134	3450	52	690	17990	67	4000	30	2090	22650	
F 70 3_22.6		124	3750	52	640	17800	62	4350	30	2010	22470	
F 70 3_24.6		114	3550	46	560	19040	57	4000	26	2510	24180	
F 70 3_27.7		101	3750	43	5070	19600	51	4650	27	6410	24060	
F 70 3_30.0		93	4050	43	5080	19440	47	5000	26	6420	23910	
F 70 3_35.4		79	4150	37	5070	20880	40	5000	22	6440	25930	
F 70 3_38.4		73	4500	37	5060	20650	36	5000	21	6540	26540	
F 70 3_45.2		62	4600	32	5080	22180	31	5000	17.5	6590	28650	
F 70 3_49.0		57	4600	30	5170	22710	28.6	5000	16.1	6680	29320	
F 70 3_57.7		49	5000	27	5090	23760	24.3	5000	13.7	6680	31570	
F 70 3_62.5		45	5000	25	5170	24330	22.4	5000	12.7	6760	32310	
F 70 3_67.9		41	5000	23	5110	25460	20.6	5000	11.6	6710	33640	
F 70 3_73.6		38	5000	21	5190	26070	19.0	5000	10.7	6790	34420	
F 70 3_85.4		33	5000	18.5	5190	27990	16.4	5000	9.3	6780	35000	
F 70 3_92.5		30	5000	17.1	5260	28650	15.1	5000	8.5	6860	35000	
F 70 3_101.2		27.7	5000	15.6	5220	29970	13.8	5000	7.8	6820	35000	
F 70 3_109.6		25.5	5000	14.4	5290	30670	12.8	5000	7.2	6890	35000	
F 70 3_122.7		22.8	5000	12.9	5250	32340	11.4	5000	6.4	6850	35000	
F 70 3_133.0		21.1	5000	11.9	5320	33100	10.5	5000	5.9	6920	35000	
F 70 3_153.8		18.2	5000	10.3	5280	35000	9.1	5000	5.1	6880	35000	
F 70 3_166.7		16.8	5000	9.5	5350	35000	8.4	5000	4.7	6950	35000	
F 70 3_180.9		15.5	5000	8.7	5310	35000	7.7	5000	4.4	6910	35000	
F 70 3_196.0		14.3	5000	8.1	5370	35000	7.1	5000	4.0	6970	35000	
F 70 4_216.5		12.9	5000	7.5	2130	35000	6.5	5000	3.7	2860	35000	
F 70 4_234.6		11.9	5000	6.9	2130	35000	6.0	5000	3.5	2860	35000	
F 70 4_280.9		10.0	5000	5.8	2200	35000	5.0	5000	2.9	2940	35000	
F 70 4_304.3		9.2	5000	5.3	2200	35000	4.6	5000	2.7	2940	35000	
F 70 4_372.5		7.5	5000	4.4	2260	35000	3.8	5000	2.2	3000	35000	
F 70 4_403.5		6.9	5000	4.0	2260	35000	3.5	5000	2.0	3000	35000	
F 70 4_471.2		5.9	5000	3.4	2300	35000	3.0	5000	1.7	3040	35000	
F 70 4_510.4		5.5	5000	3.2	2300	35000	2.7	5000	1.6	3040	35000	
F 70 4_606.8		4.6	5000	2.7	2340	35000	2.3	5000	1.3	3070	35000	
F 70 4_657.4		4.3	5000	2.5	2340	35000	2.1	5000	1.2	3070	35000	
F 70 4_759.0		3.7	5000	2.1	2360	35000	1.8	5000	1.1	3090	35000	
F 70 4_822.2		3.4	5000	2.0	2360	35000	1.7	5000	1.0	3090	35000	
F 70 4_899.4		3.1	5000	1.8	2370	35000	1.6	5000	0.90	3110	35000	
F 70 4_974.4		2.9	5000	1.7	2370	35000	1.4	5000	0.83	3110	35000	
F 70 4_1091		2.6	5000	1.5	2390	35000	1.3	5000	0.74	3120	35000	
F 70 4_1182		2.4	5000	1.4	2390	35000	1.2	5000	0.69	3120	35000	
F 70 4_1368		2.0	5000	1.2	2400	35000	1.0	5000	0.59	3130	35000	
F 70 4_1481		1.9	5000	1.1	2400	35000	0.95	5000	0.55	3130	35000	
F 70 4_1585		1.8	5000	1.0	2410	35000	0.88	5000	0.51	3140	35000	
F 70 4_1717		1.6	5000	0.95	2410	35000	0.82	5000	0.47	3140	35000	
F 70 4_2019		1.4	5000	0.80	2420	35000	0.69	5000	0.40	3150	35000	
F 70 4_2188		1.3	5000	0.74	2420	35000	0.64	5000	0.37	3150	35000	





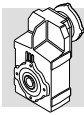
	i	$n_1 = 900 \text{ min}^{-1}$					$n_1 = 500 \text{ min}^{-1}$					
		$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	
F 70 3_10.0	90	3200	33	4870	21660	50	3200	18.1	7000	27010		
F 70 3_10.9	83	3450	32	4970	21670	46	3450	17.9	7000	27160		
F 70 3_12.8	70	3850	31	2540	22530	39	3600	15.9	7000	28320		
F 70 3_13.9	65	4200	31	2380	22350	36	3900	15.8	7000	28290		
F 70 3_16.3	55	4000	25	3830	24520	31	4000	13.9	7000	30730		
F 70 3_17.7	51	4350	25	3750	24380	28.2	4350	13.9	7000	30760		
F 70 3_20.9	43	4000	19.5	5210	26970	23.9	4000	10.8	7000	33650		
F 70 3_22.6	40	4350	19.6	5130	26900	22.1	4350	10.9	7000	33750		
F 70 3_24.6	37	4000	16.5	5630	28710	20.3	4000	9.2	7000	35000		
F 70 3_27.7	32	5000	18.4	7000	28090	18.1	4650	9.5	7000	35000		
F 70 3_30.0	30	5000	16.9	7000	28750	16.7	5000	9.4	7000	35000		
F 70 3_35.4	25.4	5000	14.4	7000	31010	14.1	5000	8.0	7000	35000		
F 70 3_38.4	23.4	5000	13.2	7000	31740	13.0	5000	7.4	7000	35000		
F 70 3_45.2	19.9	5000	11.2	7000	34090	11.1	5000	6.2	7000	35000		
F 70 3_49.0	18.4	5000	10.4	7000	34890	10.2	5000	5.8	7000	35000		
F 70 3_57.7	15.6	5000	8.8	7000	35000	8.7	5000	4.9	7000	35000		
F 70 3_62.5	14.4	5000	8.1	7000	35000	8.0	5000	4.5	7000	35000		
F 70 3_67.9	13.3	5000	7.5	7000	35000	7.4	5000	4.2	7000	35000		
F 70 3_73.6	12.2	5000	6.9	7000	35000	6.8	5000	3.8	7000	35000		
F 70 3_85.4	10.5	5000	6.0	7000	35000	5.9	5000	3.3	7000	35000		
F 70 3_92.5	9.7	5000	5.5	7000	35000	5.4	5000	3.1	7000	35000		
F 70 3_101.2	8.9	5000	5.0	7000	35000	4.9	5000	2.8	7000	35000		
F 70 3_109.6	8.2	5000	4.6	7000	35000	4.6	5000	2.6	7000	35000		
F 70 3_122.7	7.3	5000	4.1	7000	35000	4.1	5000	2.3	7000	35000		
F 70 3_133.0	6.8	5000	3.8	7000	35000	3.8	5000	2.1	7000	35000		
F 70 3_153.8	5.9	5000	3.3	7000	35000	3.3	5000	1.8	7000	35000		
F 70 3_166.7	5.4	5000	3.0	7000	35000	3.0	5000	1.7	7000	35000		
F 70 3_180.9	5.0	5000	2.8	7000	35000	2.8	5000	1.6	7000	35000		
F 70 3_196.0	4.6	5000	2.6	7000	35000	2.6	5000	1.4	7000	35000		
F 70 4_216.5	4.2	5000	2.4	3430	35000	2.3	5000	1.3	3500	35000		
F 70 4_234.6	3.8	5000	2.2	3430	35000	2.1	5000	1.2	3500	35000		
F 70 4_280.9	3.2	5000	1.9	3500	35000	1.8	5000	1.0	3500	35000		
F 70 4_304.3	3.0	5000	1.7	3500	35000	1.6	5000	0.95	3500	35000		
F 70 4_372.5	2.4	5000	1.4	3500	35000	1.3	5000	0.78	3500	35000		
F 70 4_403.5	2.2	5000	1.3	3500	35000	1.2	5000	0.72	3500	35000		
F 70 4_471.2	1.9	5000	1.1	3500	35000	1.1	5000	0.62	3500	35000		
F 70 4_510.4	1.8	5000	1.0	3500	35000	0.98	5000	0.57	3500	35000		
F 70 4_606.8	1.5	5000	0.86	3500	35000	0.82	5000	0.48	3500	35000		
F 70 4_657.4	1.4	5000	0.79	3500	35000	0.76	5000	0.44	3500	35000		
F 70 4_759.0	1.2	5000	0.69	3500	35000	0.66	5000	0.38	3500	35000		
F 70 4_822.2	1.1	5000	0.63	3500	35000	0.61	5000	0.35	3500	35000		
F 70 4_899.4	1.0	5000	0.58	3500	35000	0.56	5000	0.32	3500	35000		
F 70 4_974.4	0.92	5000	0.54	3500	35000	0.51	5000	0.30	3500	35000		
F 70 4_1091	0.82	5000	0.48	3500	35000	0.46	5000	0.27	3500	35000		
F 70 4_1182	0.76	5000	0.44	3500	35000	0.42	5000	0.25	3500	35000		
F 70 4_1368	0.66	5000	0.38	3500	35000	0.37	5000	0.21	3500	35000		
F 70 4_1481	0.61	5000	0.35	3500	35000	0.34	5000	0.20	3500	35000		
F 70 4_1585	0.57	5000	0.33	3500	35000	0.32	5000	0.18	3500	35000		
F 70 4_1717	5.26	5000	3.05	3500	35000	2.92	5000	1.70	3500	35000		
F 70 4_2019	0.45	5000	0.26	3500	35000	0.25	5000	0.14	3500	35000		
F 70 4_2188	0.41	5000	0.24	3500	35000	0.23	5000	0.13	3500	35000		





# F 80

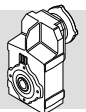
# 8000 Nm

	i	$n_1 = 2800 \text{ min}^{-1}$					$n_1 = 1400 \text{ min}^{-1}$					
		$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	
F 80 3_10.3		272	3250	100	610	17240	136	4100	63	220	21750	113
F 80 3_11.2		250	3520	99	620	17760	125	4440	63	230	21680	
F 80 3_12.9		217	3560	87	670	18880	109	4480	55	350	23080	
F 80 3_14.0		200	3850	87	700	18830	100	4860	55	310	22970	
F 80 3_16.2		173	3760	73	760	20320	86	4740	46	430	24840	
F 80 3_17.6		159	4000	72	730	20260	80	5140	46	410	24730	
F 80 3_20.3		138	4060	63	780	21680	69	5120	40	440	26480	
F 80 3_22.0		127	4400	63	780	21600	64	5540	40	470	26380	
F 80 3_25.2		111	4230	53	700	23290	56	5330	33	360	28470	
F 80 3_28.8		97	6550	72	4590	20500	49	8000	44	5890	25350	
F 80 3_31.3		89	7100	72	4590	20000	45	8000	40	6040	26000	
F 80 3_36.0		78	7250	64	4560	21450	39	8000	35	6110	28090	
F 80 3_39.0		72	6700	54	4890	23010	36	8000	32	6240	28790	
F 80 3_45.3		62	7900	55	4440	22740	31	8000	28	6240	31120	
F 80 3_49.1		57	8000	52	4750	23150	28.5	8000	26	6360	31880	
F 80 3_56.7		49	8000	45	4780	25150	24.7	8000	22	6390	34260	
F 80 3_61.5		46	8000	41	4890	25790	22.8	8000	21	6500	35080	
F 80 3_70.4		40	8000	36	4850	27800	19.9	8000	18.0	6460	37470	
F 80 3_76.3		37	8000	33	4950	28490	18.3	8000	16.6	6560	38360	
F 80 3_85.2		33	8000	30	4940	30280	16.4	8000	14.8	6550	40480	
F 80 3_92.3		30	8000	27	5040	31030	15.2	8000	13.7	6640	41450	
F 80 3_105.0		26.7	8000	24	5000	33150	13.3	8000	12.0	6610	43970	
F 80 3_113.8		24.6	8000	22	5090	33950	12.3	8000	11.1	6700	45000	
F 80 3_122.5		22.9	8000	21	5020	35370	11.4	8000	10.3	6630	45000	
F 80 3_132.7		21.1	8000	19.1	5110	36230	10.6	8000	9.5	6720	45000	
F 80 3_147.9		18.9	8000	17.1	5060	38230	9.5	8000	8.6	6660	45000	
F 80 3_160.2		17.5	8000	15.8	5140	39140	8.7	8000	7.9	6750	45000	
F 80 3_184.6		15.2	8000	13.7	5090	41790	7.6	8000	6.9	6700	45000	
F 80 3_200.0		14.0	8000	12.7	5180	42790	7.0	8000	6.3	6780	45000	
F 80 4_218.5		12.8	8000	11.9	1020	45000	6.4	8000	5.9	2400	45000	
F 80 4_273.9		10.2	8000	9.5	1470	45000	5.1	8000	4.7	2680	45000	
F 80 4_296.7		9.4	8000	8.8	1470	45000	4.7	8000	4.4	2680	45000	
F 80 4_353.7		7.9	8000	7.3	1850	45000	4.0	8000	3.7	2770	45000	
F 80 4_383.2		7.3	8000	6.8	1850	45000	3.7	8000	3.4	2770	45000	
F 80 4_451.5		6.2	8000	5.8	2040	45000	3.1	8000	2.9	2820	45000	
F 80 4_489.1		5.7	8000	5.3	2040	45000	2.9	8000	2.7	2820	45000	
F 80 4_563.9		5.0	8000	4.6	2130	45000	2.5	8000	2.3	2860	45000	
F 80 4_610.9		4.6	8000	4.3	2130	45000	2.3	8000	2.1	2860	45000	
F 80 4_714.9		3.9	8000	3.6	2160	45000	2.0	8000	1.8	2890	45000	
F 804_774.4		3.6	8000	3.4	2160	45000	1.8	8000	1.7	2890	45000	
F 80 4_897.3		3.1	8000	2.9	2200	45000	1.6	8000	1.4	2930	45000	
F 80 4_972.0		2.9	8000	2.7	2200	45000	1.4	8000	1.3	2930	45000	
F 80 4_1058		2.6	8000	2.5	2210	45000	1.3	8000	1.2	2950	45000	
F 80 4_1146		2.4	8000	2.3	2210	45000	1.2	8000	1.1	2950	45000	
F 80 4_1277		2.2	8000	2.0	2230	45000	1.1	8000	1.0	2960	45000	
F 80 4_1384		2.0	8000	1.9	2230	45000	1.0	8000	0.94	2960	45000	
F 80 4_1578		1.8	8000	1.6	2240	45000	0.89	8000	0.82	2970	45000	
F 80 4_1709		1.6	8000	1.5	2240	45000	0.82	8000	0.76	2970	45000	
F 80 4_1834		1.5	8000	1.4	2250	45000	0.76	8000	0.71	2980	45000	
F 80 4_1987		1.4	8000	1.3	2250	45000	0.70	8000	0.65	2980	45000	



	i	$n_1 = 900 \text{ min}^{-1}$					$n_1 = 500 \text{ min}^{-1}$					
		$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	
F 80 3_10.3		87	4740	47	—	24730	49	5770	32	—	29310	113
F 80 3_11.2		80	5140	47	—	24630	45	6250	32	—	29180	
F 80 3_12.9		70	5200	41	—	26210	39	6320	28	—	31060	
F 80 3_14.0		64	5620	41	—	26100	36	6800	27	—	30970	
F 80 3_16.2		56	5490	34	—	28220	31	6250	22	1540	34170	
F 80 3_17.6		51	5960	34	—	28080	28.4	6800	22	1410	30030	
F 80 3_20.3		44	5930	30	—	30090	24.6	6250	17.4	3710	37270	
F 80 3_22.0		41	6420	30	—	29960	22.7	6800	17.5	3590	37220	
F 80 3_25.2		36	6175	25	—	32360	19.8	6250	14.0	4660	40450	
F 80 3_28.8		31	8000	28	7000	30980	17.4	8000	15.7	7000	39620	
F 80 3_31.3		28.8	8000	26	7000	31740	16.0	8000	14.4	7000	40560	
F 80 3_36.0		25.0	8000	23	7000	34070	13.9	8000	12.6	7000	43270	
F 80 3_39.0		23.1	8000	21	7000	34890	12.8	8000	11.6	7000	44300	
F 80 3_45.3		19.9	8000	18.0	7000	37490	11.0	8000	10.0	7000	45000	
F 80 3_49.1		18.3	8000	16.6	7000	38390	10.2	8000	9.2	7000	45000	
F 80 3_56.7		15.9	8000	14.3	7000	41050	8.8	8000	8.0	7000	45000	
F 80 3_61.5		14.6	8000	13.2	7000	42030	8.1	8000	7.3	7000	45000	
F 80 3_70.4		12.8	8000	11.6	7000	44690	7.1	8000	6.4	7000	45000	
F 80 3_76.3		11.8	8000	10.7	7000	45000	6.6	8000	5.9	7000	45000	
F 80 3_85.2		10.6	8000	9.5	7000	45000	5.9	8000	5.3	7000	45000	
F 80 3_92.3		9.8	8000	8.8	7000	45000	5.4	8000	4.9	7000	45000	
F 80 3_105.0		8.6	8000	7.7	7000	45000	4.8	8000	4.3	7000	45000	
F 80 3_113.8		7.9	8000	7.1	7000	45000	4.4	8000	4.0	7000	45000	
F 80 3_122.5		7.3	8000	6.6	7000	45000	4.1	8000	3.7	7000	45000	
F 80 3_132.7		6.8	8000	6.1	7000	45000	3.8	8000	3.4	7000	45000	
F 80 3_147.9		6.1	8000	5.5	7000	45000	3.4	8000	3.1	7000	45000	
F 80 3_160.2		5.6	8000	5.1	7000	45000	3.1	8000	2.8	7000	45000	
F 80 3_184.6		4.9	8000	4.4	7000	45000	2.7	8000	2.4	7000	45000	
F 80 3_200.0		4.5	8000	4.1	7000	45000	2.5	8000	2.3	7000	45000	
F 80 4_218.5		4.1	8000	3.8	3130	45000	2.3	8000	2.1	3500	45000	
F 80 4_273.9		3.3	8000	3.0	3240	45000	1.8	8000	1.7	3500	45000	
F 80 4_296.7		3.0	8000	2.8	3240	45000	1.7	8000	1.6	3500	45000	
F 80 4_353.7		2.5	8000	2.4	3330	45000	1.4	8000	1.3	3500	45000	
F 80 4_383.2		2.3	8000	2.2	3330	45000	1.3	8000	1.2	3500	45000	
F 80 4_451.5		2.0	8000	1.8	3380	45000	1.1	8000	1.0	3500	45000	
F 80 4_489.1		1.8	8000	1.7	3380	45000	1.0	8000	0.95	3500	45000	
F 80 4_563.9		1.6	8000	1.5	3420	45000	0.89	8000	0.82	3500	45000	
F 80 4_610.9		1.5	8000	1.4	3420	45000	0.82	8000	0.76	3500	45000	
F 80 4_714.9		1.3	8000	1.2	3460	45000	0.70	8000	0.65	3500	45000	
F 80 4_774.4		1.2	8000	1.1	3460	45000	0.65	8000	0.60	3500	45000	
F 80 4_897.3		1.0	8000	0.93	3490	45000	0.56	8000	0.52	3500	45000	
F 80 4_972.0		0.93	8000	0.86	3490	45000	0.51	8000	0.48	3500	45000	
F 80 4_1058		0.85	8000	0.79	3500	45000	0.47	8000	0.44	3500	45000	
F 80 4_1146		0.79	8000	0.73	3500	45000	0.44	8000	0.40	3500	45000	
F 80 4_1277		0.70	8000	0.65	3500	45000	0.39	8000	0.36	3500	45000	
F 80 4_1384		0.65	8000	0.60	3500	45000	0.36	8000	0.34	3500	45000	
F 80 4_1578		0.57	8000	0.53	3500	45000	0.32	8000	0.29	3500	45000	
F 80 4_1709		0.53	8000	0.49	3500	45000	0.29	8000	0.27	3500	45000	
F 80 4_1834		0.49	8000	0.46	3500	45000	0.27	8000	0.25	3500	45000	
F 80 4_1987		0.45	8000	0.42	3500	45000	0.25	8000	0.23	3500	45000	

- (-) Interpellare il ns. servizio tecnico comunicando i dati relativi al carico radiale (senso di rotazione, orientamento, posizione)  
 (-) Contact our technical service department advising radial load data (rotation direction, orientation, position)  
 (-) Nehmen Sie bitte Kontakt mit unserem Applikationsdienst und Querkräftenangaben (Drehrichtung, Orientierung, Anordnung)  
 (-) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)





# F 90

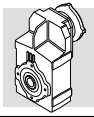
# 14000 Nm

	i	n <sub>1</sub> = 2800 min <sup>-1</sup>					n <sub>1</sub> = 1400 min <sup>-1</sup>					
		n <sub>2</sub> min <sup>-1</sup>	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> min <sup>-1</sup>	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
F 90 3_10.3		272	6500	200	5480	23780	136	8000	123	8000	29280	117
F 90 3_11.1		252	7150	204	5280	23290	126	8800	125	7770	28680	
F 90 3_13.4		209	7550	178	4880	24950	104	9300	110	7280	30710	
F 90 3_14.5		193	8100	177	5000	24650	97	10000	109	7400	30310	
F 90 3_16.5		170	8400	161	4540	25970	85	10300	99	6960	32040	
F 90 3_17.9		156	8950	158	4560	25700	78	11000	97	7180	31670	
F 90 3_20.6		136	9200	141	3980	27360	68	11300	87	6260	33720	
F 90 3_22.3		126	9750	138	4280	27120	63	12000	85	6590	33400	
F 90 3_25.4		110	10050	125	3620	28730	55	12000	75	6310	35980	
F 90 3_28.6		98	9750	108	9800	30870	49	12000	66	12390	38010	
F 90 3_31.0		90	10550	108	9800	30310	45	13000	66	12390	37290	
F 90 3_37.4		75	10950	93	9820	32820	37	13500	57	12420	40380	
F 90 3_40.5		69	11900	93	9820	32050	35	14000	55	12510	40550	
F 90 3_46.1		61	12050	83	9840	34290	30	14000	48	12560	43590	
F 90 3_49.9		56	13050	83	9840	33470	28.1	14000	44	12710	44670	
F 90 3_57.3		49	13050	72	9810	36320	24.4	14000	39	12680	48090	
F 90 3_62.1		45	14000	71	9830	35630	22.5	14000	36	12830	49260	
F 90 3_70.8		40	14000	63	9830	38520	19.8	14000	31	12830	52680	
F 90 3_76.7		37	14000	58	9960	39500	18.3	14000	29	12960	53950	
F 90 3_88.4		32	14000	50	9930	42780	15.8	14000	25	12930	55000	
F 90 3_95.8		29.2	14000	46	10050	43840	14.6	14000	23	13050	55000	
F 90 3_103.3		27.1	14000	43	9960	45920	13.6	14000	21	12960	55000	
F 90 3_111.9		25.0	14000	40	10080	47050	12.5	14000	19.8	13080	55000	
F 90 3_126.8		22.1	14000	35	10030	50250	11.0	14000	17.5	13030	55000	
F 90 3_137.3		20.4	14000	32	10140	51470	10.2	14000	16.1	13140	55000	
F 90 3_150.3		18.6	14000	29	10080	54040	9.3	14000	14.7	13080	55000	
F 90 3_162.8		17.2	14000	27	10220	55000	8.6	14000	13.6	13190	55000	
F 90 3_179.2		15.6	14000	25	10180	55000	7.8	14000	12.4	13100	55000	
F 90 3_194.2		14.4	14000	23	10220	55000	7.2	14000	11.4	13210	55000	
F 90 4_213.6		13.1	14000	21	—	55000	6.6	14000	10.6	—	55000	
F 90 4_231.4		12.1	14000	19.6	—	55000	6.1	14000	9.8	—	55000	
F 90 4_268.7		10.4	14000	16.9	—	55000	5.2	14000	8.5	420	55000	
F 90 4_291.1		9.6	14000	15.6	—	55000	4.8	14000	7.8	420	55000	
F 90 4_361.8		7.7	14000	12.6	—	55000	3.9	14000	6.3	990	55000	
F 90 4_392.0		7.1	14000	11.6	—	55000	3.6	14000	5.8	990	55000	
F 90 4_457.5		6.1	14000	9.9	—	55000	3.1	14000	5.0	1390	55000	
F 90 4_495.6		5.6	14000	9.2	—	55000	2.8	14000	4.6	1390	55000	
F 90 4_577.5		4.8	14000	7.9	—	55000	2.4	14000	3.9	1600	55000	
F 90 4_625.6		4.5	14000	7.3	—	55000	2.2	14000	3.6	1600	55000	
F 90 4_714.0		3.9	14000	6.4	—	55000	2.0	14000	3.2	1800	55000	
F 90 4_773.4		3.6	14000	5.9	—	55000	1.8	14000	2.9	1800	55000	
F 90 4_910.2		3.1	14000	5.0	—	55000	1.5	14000	2.5	2020	55000	
F 90 4_986.0		2.8	14000	4.6	—	55000	1.4	14000	2.3	2020	55000	
F 90 4_1112		2.5	14000	4.1	—	55000	1.3	14000	2.0	2110	55000	
F 90 4_1205		2.3	14000	3.8	—	55000	1.2	14000	1.9	2110	55000	
F 90 4_1318		2.1	14000	3.4	—	55000	1.1	14000	1.7	2220	55000	
F 90 4_1428		2.0	14000	3.2	—	55000	0.98	14000	1.6	2220	55000	
F 90 4_1571		1.8	14000	2.9	—	55000	0.89	14000	1.4	2260	55000	
F 90 4_1702		1.6	14000	2.7	—	55000	0.82	14000	1.3	2260	55000	
F 90 4_1937		1.4	14000	2.3	—	55000	0.72	14000	1.2	2300	55000	
F 90 4_2099		1.3	14000	2.2	—	55000	0.67	14000	1.1	2300	55000	

(-) Interpellare il ns. servizio tecnico comunicando i dati relativi al carico radiale (senso di rotazione, orientamento, posizione)  
 (-) Contact our technical service department advising radial load data (rotation direction, orientation, position)  
 (-) Nehmen Sie bitte Kontakt mit unserem Applikationsdienst und Querkraftsdaten angeben (Drehrichtung, Orientierung, Anordnung)  
 (-) Consulter notre service technique en donnant les détails concernant la charge radiale (sens de rotation, indexage, position)



	i	$n_1 = 900 \text{ min}^{-1}$					$n_1 = 500 \text{ min}^{-1}$					
		$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	$n_2$ $\text{min}^{-1}$	$M_{n2}$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$R_{n2}$ N	
F 90 3_10.3		87	9150	90	10010	33400	49	9600	53	15000	41900	
F 90 3_11.1		81	10050	92	9780	32740	45	10400	53	15000	41630	
F 90 3_13.4		67	10600	80	9270	35090	37	12500	53	12730	42090	
F 90 3_14.5		62	11400	80	9390	34630	34	13550	53	12720	41390	
F 90 3_16.5		55	11750	72	8890	36600	30	12300	42	14580	46420	
F 90 3_17.9		50	12550	71	9140	36180	27.9	13150	41	14820	46160	
F 90 3_20.6		44	12200	60	9100	39650	24.3	12200	33	15000	51030	
F 90 3_22.3		40	13200	60	9120	38970	22.4	13200	33	15000	50650	
F 90 3_25.4		35	12000	48	10430	43830	19.7	12000	27	15000	55000	
F 90 3_28.6		31	13700	49	14400	43400	17.5	14000	28	15000	55000	
F 90 3_31.0		29.0	14000	46	14540	43980	16.1	14000	26	15000	55000	
F 90 3_37.4		24.1	14000	38	14650	48390	13.4	14000	21	15000	55000	
F 90 3_40.5		22.2	14000	35	14820	49570	12.3	14000	19.5	15000	55000	
F 90 3_46.1		19.5	14000	31	14870	52960	10.8	14000	17.2	15000	55000	
F 90 3_49.9		18.0	14000	29	15000	54240	10.0	14000	15.8	15000	55000	
F 90 3_57.3		15.7	14000	25	14990	55000	8.7	14000	13.8	15000	55000	
F 90 3_62.1		14.5	14000	23	15000	55000	8.1	14000	12.7	15000	55000	
F 90 3_70.8		12.7	14000	20.1	15000	55000	7.1	14000	11.2	15000	55000	
F 90 3_76.7		11.7	14000	18.6	15000	55000	6.5	14000	10.3	15000	55000	
F 90 3_88.4		10.2	14000	16.1	15000	55000	5.7	14000	8.9	15000	55000	
F 90 3_95.8		9.4	14000	14.9	15000	55000	5.2	14000	8.3	15000	55000	
F 90 3_103.3		8.7	14000	13.8	15000	55000	4.8	14000	7.7	15000	55000	
F 90 3_111.9		8.0	14000	12.7	15000	55000	4.5	14000	7.1	15000	55000	
F 90 3_126.8		7.1	14000	11.2	15000	55000	3.9	14000	6.2	15000	55000	
F 90 3_137.3		6.6	14000	10.4	15000	55000	3.6	14000	5.8	15000	55000	
F 90 3_150.3		6.0	14000	9.5	15000	55000	3.3	14000	5.3	15000	55000	
F 90 3_162.8		5.5	14000	8.7	15000	55000	3.1	14000	4.9	15000	55000	
F 90 3_179.2		5.0	14000	7.9	15000	55000	2.8	14000	4.4	15000	55000	
F 90 3_194.2		4.6	14000	7.3	15000	55000	2.6	14000	4.1	15000	55000	
F 904_213.6		4.2	14000	6.8	810	55000	2.3	14000	3.8	2350	55000	
F 90 4_231.4		3.9	14000	6.3	810	55000	2.2	14000	3.5	2350	55000	
F 90 4_268.7		3.3	14000	5.4	1390	55000	1.9	14000	3.0	2920	55000	
F 90 4_291.1		3.1	14000	5.0	1390	55000	1.7	14000	2.8	2920	55000	
F 90 4_361.8		2.5	14000	4.0	1960	55000	1.4	14000	2.2	3390	55000	
F 90 4_392.0		2.3	14000	3.7	1960	55000	1.3	14000	2.1	3390	55000	
F 90 4_457.5		2.0	14000	3.2	2360	55000	1.1	14000	1.8	3490	55000	
F 90 4_495.6		1.8	14000	2.9	2360	55000	1.0	14000	1.6	3490	55000	
F 90 4_577.5		1.6	14000	2.5	2570	55000	0.87	14000	1.4	3500	55000	
F 90 4_625.6		1.4	14000	2.3	2570	55000	0.80	14000	1.3	3500	55000	
F 90 4_714.0		1.3	14000	2.0	2770	55000	0.70	14000	1.1	3500	55000	
F 90 4_773.4		1.2	14000	1.9	2770	55000	0.65	14000	1.0	3500	55000	
F 90 4_910.2		0.99	14000	1.6	2840	55000	0.55	14000	0.89	3500	55000	
F 90 4_986.0		0.91	14000	1.5	2840	55000	0.51	14000	0.82	3500	55000	
F 90 4_1112		0.81	14000	1.3	2860	55000	0.45	14000	0.73	3500	55000	
F 90 4_1205		0.75	14000	1.2	2860	55000	0.41	14000	0.67	3500	55000	
F 90 4_1318		0.68	14000	1.1	2890	55000	0.38	14000	0.62	3500	55000	
F 90 4_1428		0.63	14000	1.0	2890	55000	0.35	14000	0.57	3500	55000	
F 90 4_1571		0.57	14000	0.93	2900	55000	0.32	14000	0.52	3500	55000	
F 90 4_1702		0.53	14000	0.86	2900	55000	0.29	14000	0.48	3500	55000	
F 90 4_1937		0.46	14000	0.75	2910	55000	0.26	14000	0.42	3500	55000	
F 90 4_2099		0.43	14000	0.70	2910	55000	0.24	14000	0.39	3500	55000	

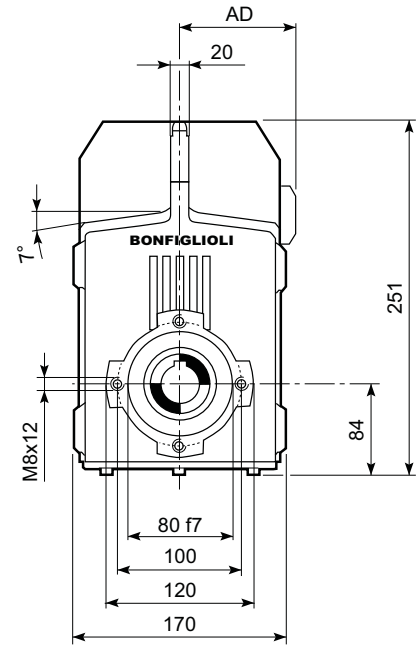
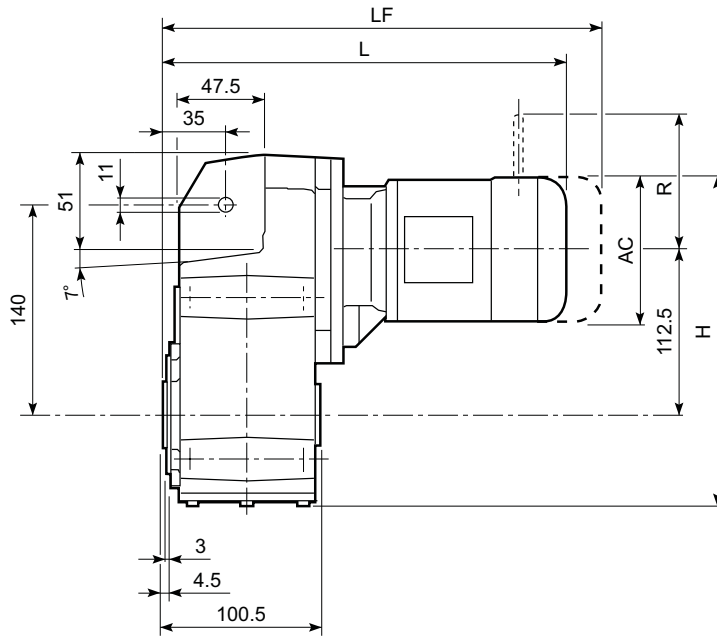


30 - DIMENSIONI

30 - DIMENSIONS

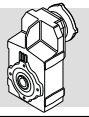
30 - ABMESSUNGEN

30 - DIMENSIONS

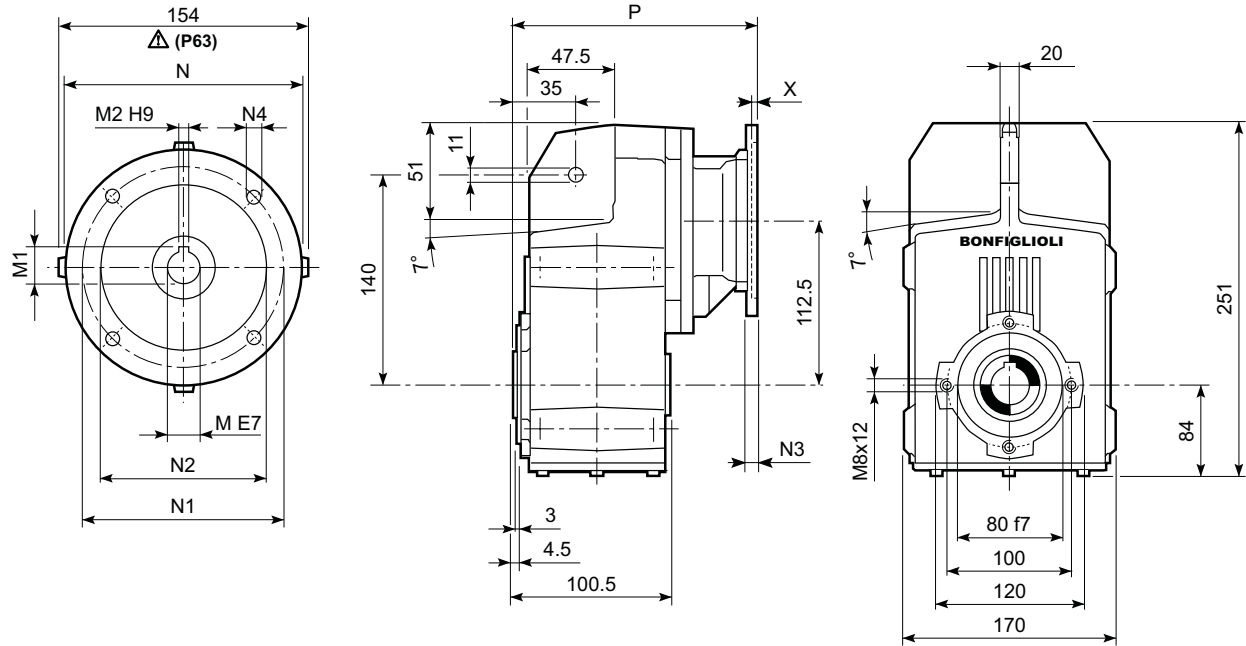


F 10													
Image	S	M	AC	H	L	AD	Kg	M_FD M_FA		M_FD		M_FA	
								LF	Kg	R	AD	R	AD
	S05	M05	121	220.5	311.5	95	12	377.5	13	96	119	116	95
	S1	M1S	138	265.5	316.5	108	12	379.5	15	103	132	124	108
	S1	M1L	138	265.5	340.5	108	14	401.5	17	103	132	124	108
	S2	M2S	156	274.5	369.5	119	18	439.5	21	129	143	134	119
	S3	M3S	195	294	412.5	142	22	508.5	30	160	155	160	142
	S3	M3L	195	294	444.5	142	24	535.5	31	160	155	160	142

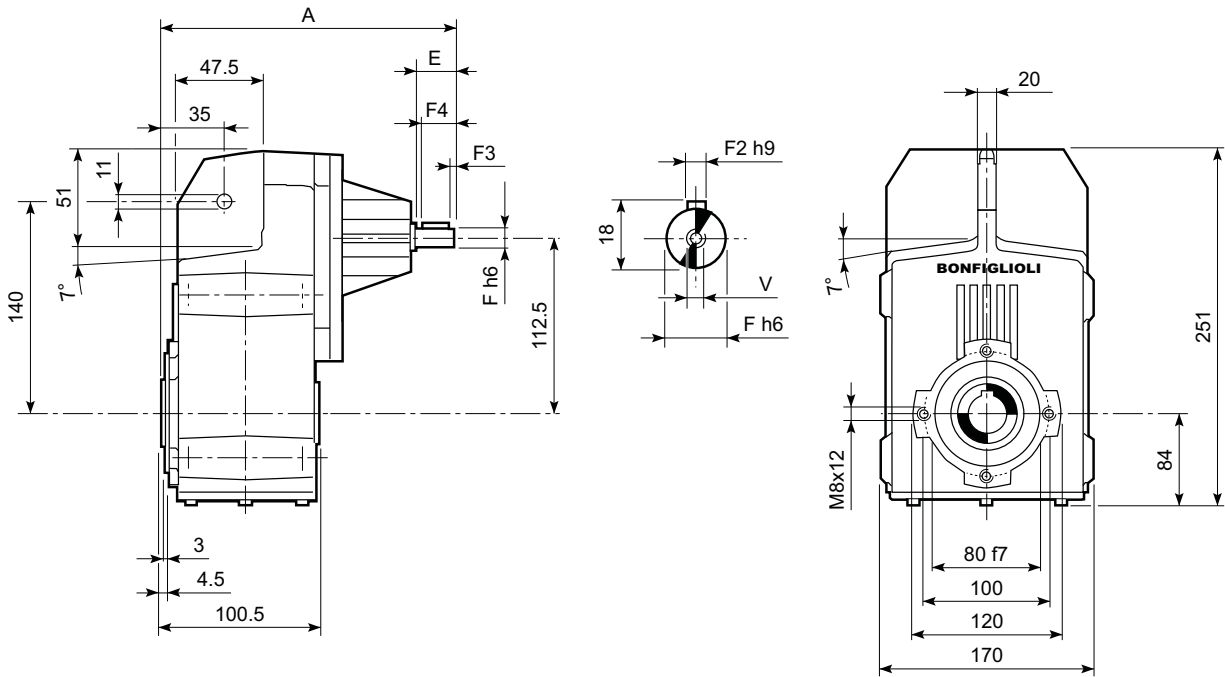
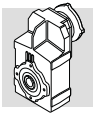







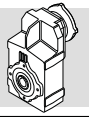
# F 10...P(IEC)



F 10												
		M	M1	M2	N	N1	N2	N3	N4	X	P	kg
F 10 2	P63	11	12.8	4	140	115	95	—	M8x19	4	185.5	8
F 10 2	P71	14	16.3	5	160	130	110	—	M8x16	4.5	185.5	8
F 10 2	P80	19	21.8	6	200	165	130	—	M10x12	4	205	9
F 10 2	P90	24	27.3	8	200	165	130	—	M10x12	4	205	9
F 10 2	P100	28	31.3	8	250	215	180	—	M12x16	4.5	215	13
F 10 2	P112	28	31.3	8	250	215	180	—	M12x16	4.5	215	13



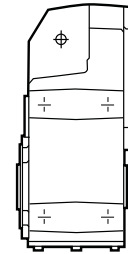
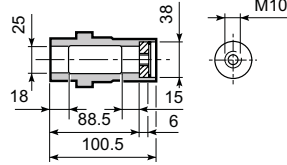
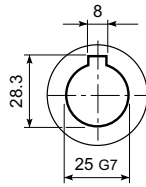
F 10										
		A	E	F	F1	F2	F3	F4	V	
		192	40	16	18	5	2.5	35	M6x16	7.5



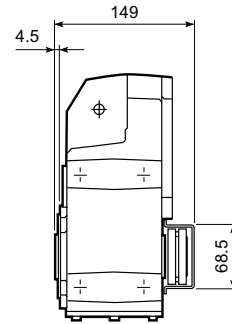
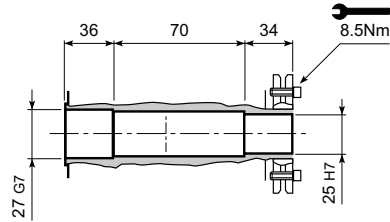
# F 10

F 10...H

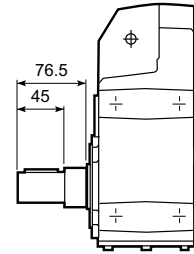
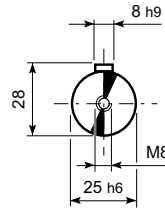
**H25**  
STANDARD



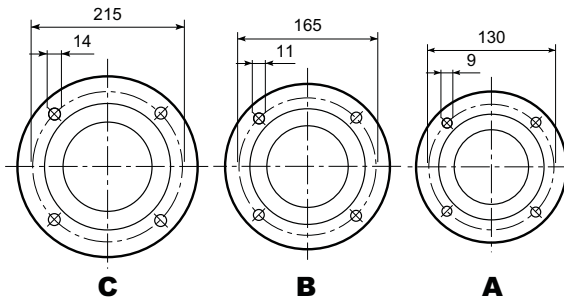
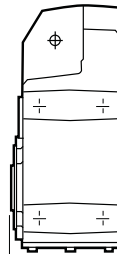
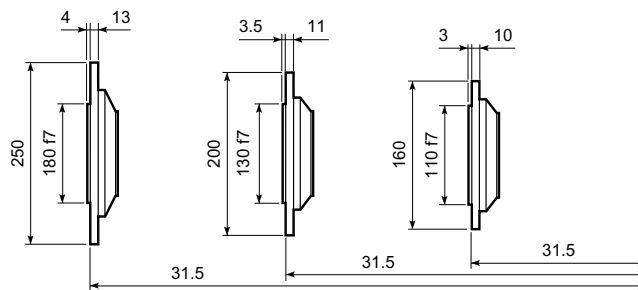
F 10...S

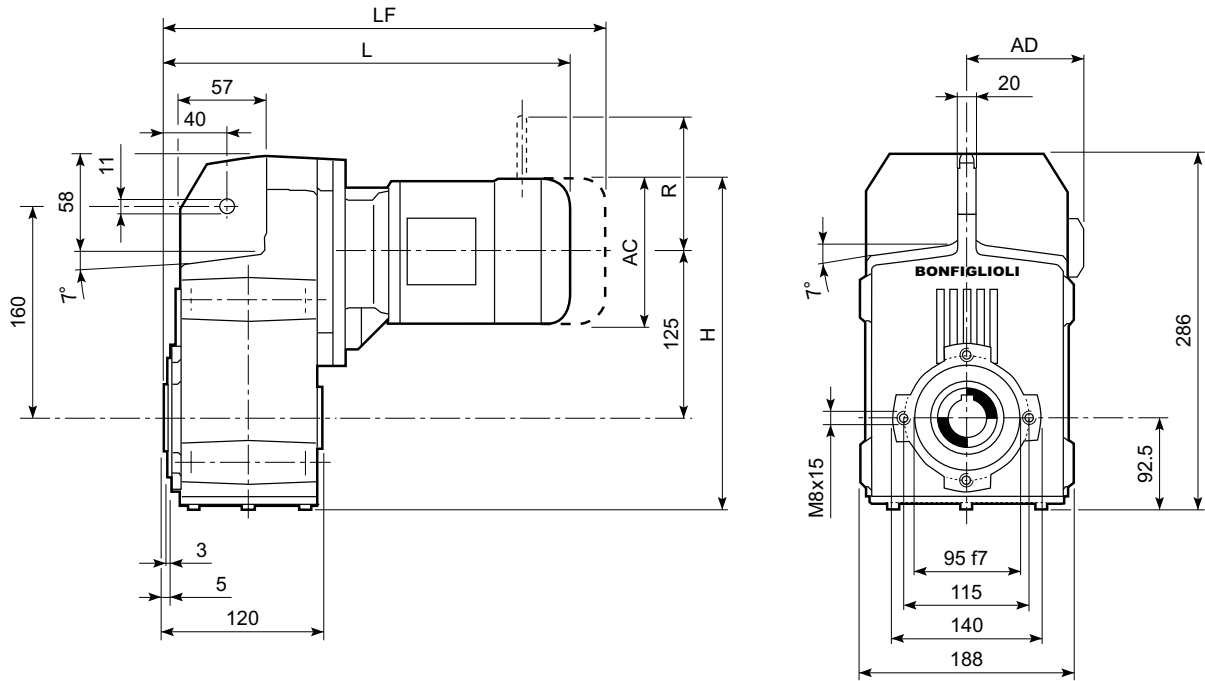
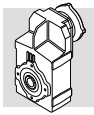


F 10...R

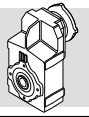


F 10...F...

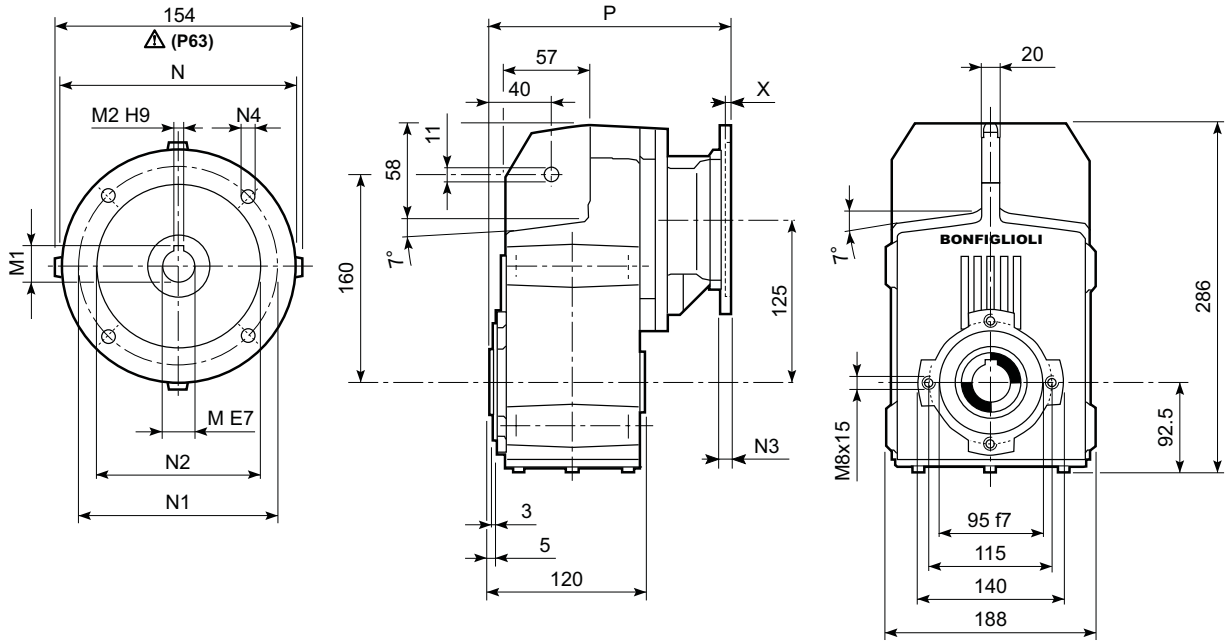




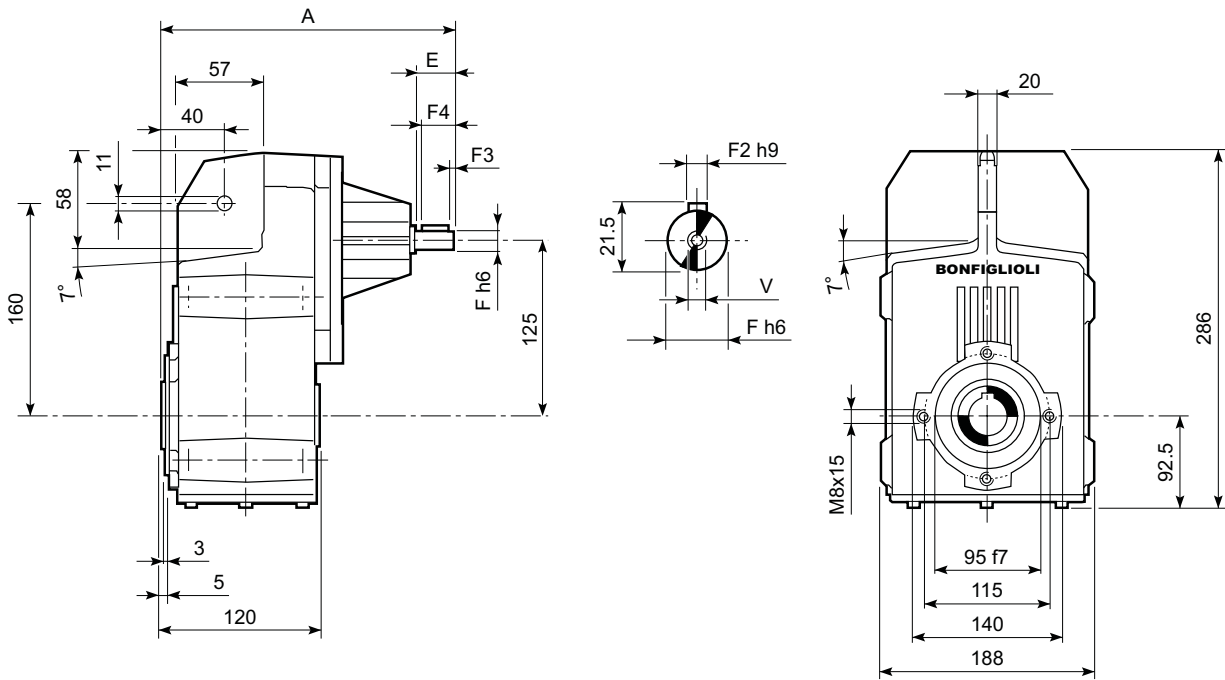
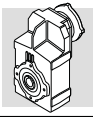
F 20													
Image	Image	Image	AC	H	L	AD	Kg	M_FD		M_FD		M_FA	
								M_FD	M_FA	R	AD	R	AD
F 20 2	S05	M05	121	278.2	323.5	95	15	389.5	17	96	119	116	95
F 20 2	S1	M1S	138	286.7	328.5	108	16	391.5	19	103	132	124	108
F 20 2	S1	M1L	138	286.7	352.5	108	17	413.5	20	103	132	124	108
F 20 2	S2	M2S	156	295.7	381.5	119	21	451.5	25	129	143	134	119
F 20 2	S3	M3S	195	315.2	424.5	142	26	520.5	33	160	155	160	142
F 20 2	S3	M3L	195	315.2	456.5	142	31	547.5	38	160	155	160	142
F 20 3	S05	M05	121	278.2	379	95	17	445	18	96	119	116	95
F 20 3	S1	M1S	138	286.7	384	108	18	447	20	103	132	124	108
F 20 3	S1	M1L	138	286.7	408	108	19	469	21	103	132	124	108
F 20 3	S2	M2S	156	295.7	437	119	22	507	26	129	143	134	119
F 20 3	S3	M3S	195	315.2	480	142	27	576	34	160	155	160	142
F 20 3	S3	M3L	195	315.2	512	142	32	603	39	160	155	160	142



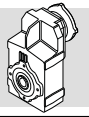
# F 20...P(IEC)



F 20												
		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 20 2	P63	11	12.8	4	140	115	95	—	M8x19	4	197.5	12
F 20 2	P71	14	16.3	5	160	130	110	—	M8x16	4.5	197.5	12
F 20 2	P80	19	21.8	6	200	165	130	—	M10x12	4	217	13
F 20 2	P90	24	27.3	8	200	165	130	—	M10x12	4	217	12
F 20 2	P100	28	31.3	8	250	215	180	—	M12x16	4.5	227	16
F 20 2	P112	28	31.3	8	250	215	180	—	M12x16	4.5	227	16
F 20 3	P63	11	12.8	4	140	115	95	—	M8x19	4	253	13
F 20 3	P71	14	16.3	5	160	130	110	—	M8x16	4.5	253	13
F 20 3	P80	19	21.8	6	200	165	130	—	M10x12	4	272.5	14
F 20 3	P90	24	27.3	8	200	165	130	—	M10x12	4	272.5	14
F 20 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	282.5	18
F 20 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	282.5	18

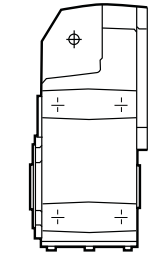
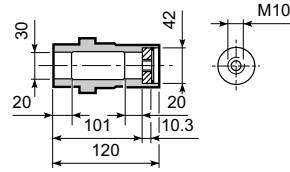
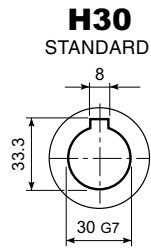


F 20											
		A	E	F	F1	F2	F3	F4	V	Kg	
	HS	F 20 2	247.5	40	19	21.5	6	2.5	35	M6x16	11.5
		F 20 3	260	40	16	18	5	2.5	35	M6x16	12.4

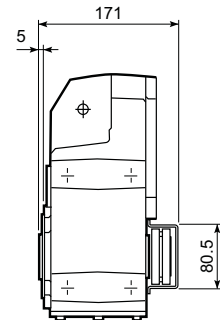
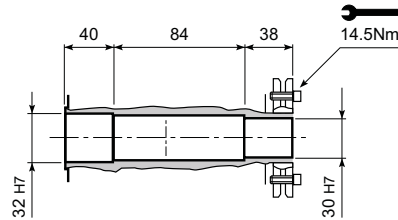


# F 20

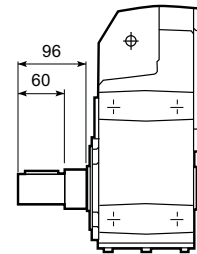
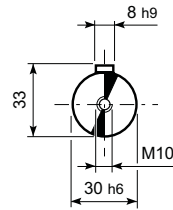
F 20...H



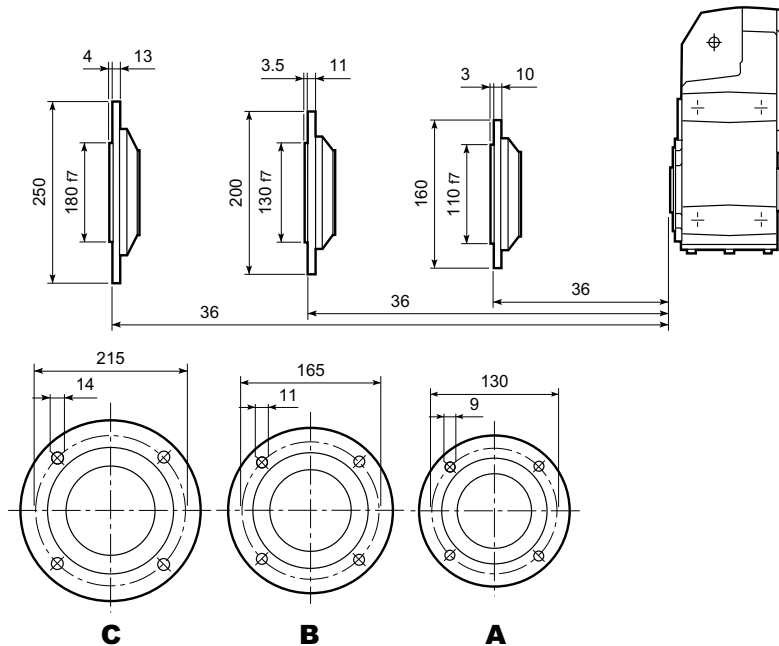
F 20...S

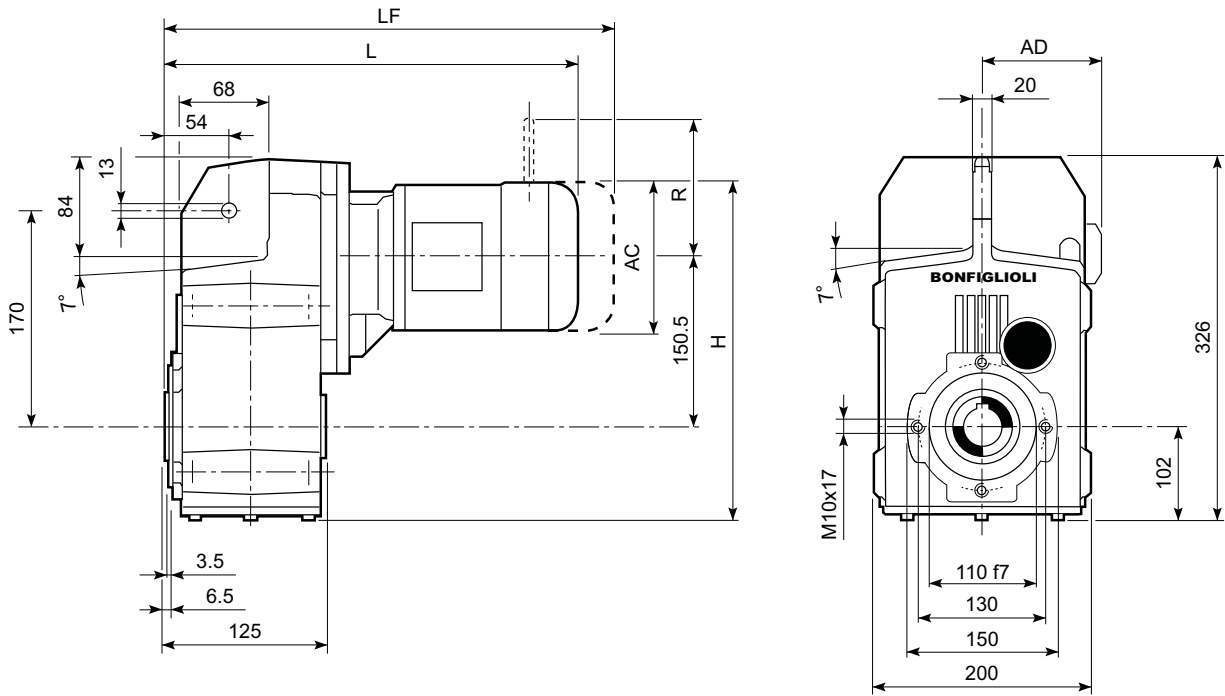
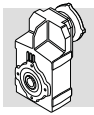


F 20...R



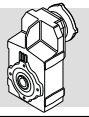
F 20...F...



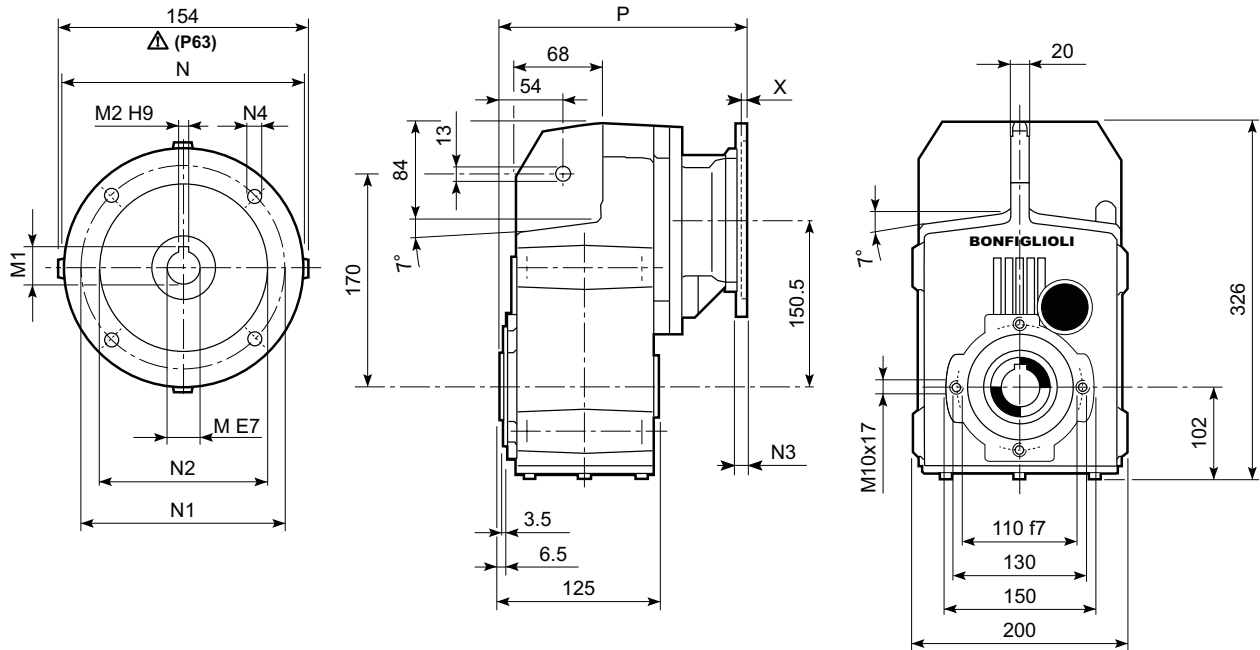


F 30													
Image	S	M	AC	H	L	AD	Kg	M_FD M_FA		M_FD		M_FA	
								LF	Kg	R	AD	R	AD
	S1	M1S	138	321.3	356.5	108	21	419.5	23	103	132	124	108
	S1	M1L	138	321.3	380.5	108	22	441.5	25	103	132	124	108
	S2	M2S	156	330.3	409.5	119	26	479.5	30	129	143	134	119
	S3	M3S	195	349.8	452.5	142	31	548.5	38	160	155	160	142
	S3	M3L	195	349.8	484.5	142	38	575.5	45	160	155	160	142
	S05	M05	121	312.8	409	95	20	475	22	96	119	116	95
	S1	M1S	138	321.3	414	108	21	477	24	103	132	124	108
	S1	M1L	138	321.3	438	108	22	499	25	103	132	124	108
	S2	M2S	156	330.3	467	119	26	537	31	129	143	134	119
	S3	M3S	195	349.8	510	142	31	606	39	160	155	160	142
	S3	M3L	195	349.8	542	142	38	633	46	160	155	160	142

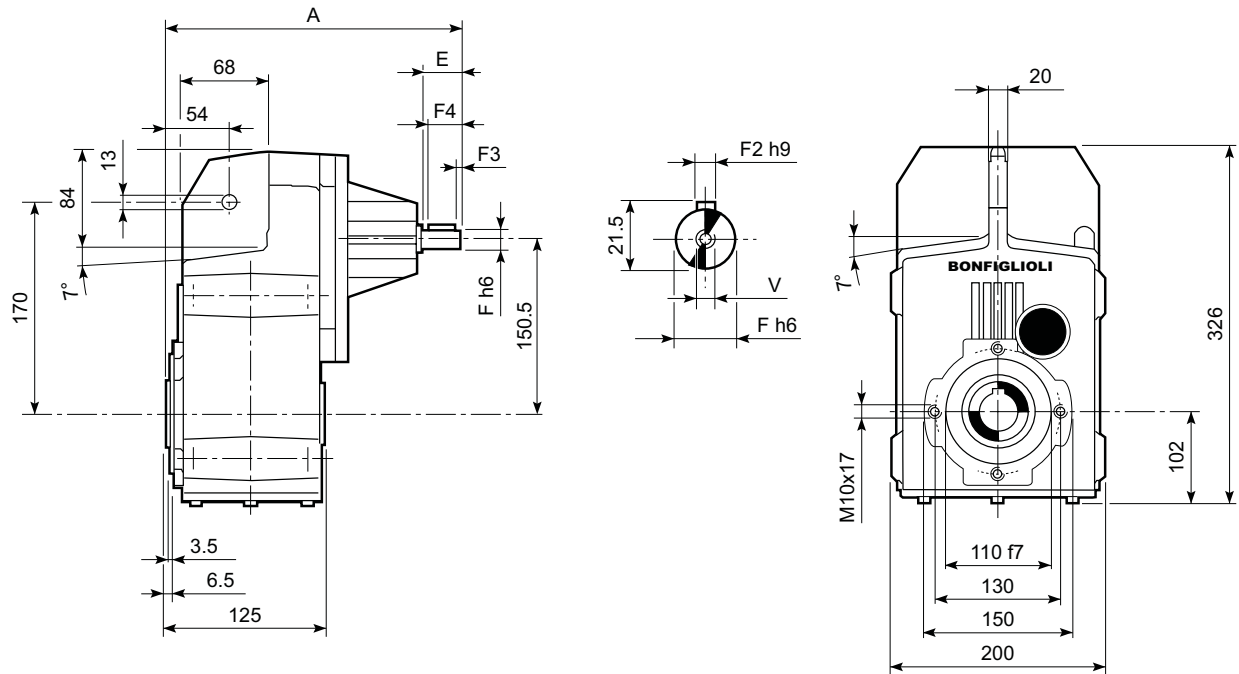
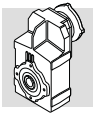




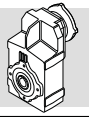
# F 30...P(IEC)



F 30												
		M	M1	M2	N	N1	N2	N3	N4	X	P	
F 30 2/3	P63	11	12.8	4	140	115	95	—	M8x19	4	225.5	17
F 30 2/3	P71	14	16.3	5	160	130	110	—	M8x16	4.5	225.5	17
F 30 2/3	P80	19	21.8	6	200	165	130	—	M10x12	4	245	18
F 30 2/3	P90	24	27.3	8	200	165	130	—	M10x12	4	245	17
F 30 2/3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	255	21
F 30 2/3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	255	21
F 30 4	P63	11	12.8	4	140	115	95	—	M8x19	4	283	17
F 30 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	283	17
F 30 4	P80	19	21.8	6	200	165	130	—	M10x12	4	302.5	18
F 30 4	P90	24	27.3	8	200	165	130	—	M10x12	4	302.5	18
F 30 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	312.5	22
F 30 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	312.5	22

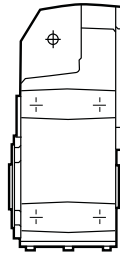
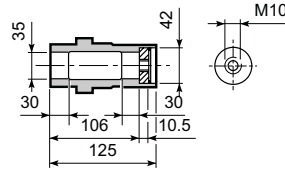
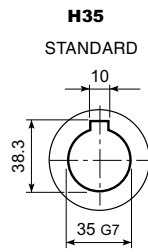


F 30										
		A	E	F	F1	F2	F3	F4	V	Kg
	HS	275.5	40	19	21.5	6	2.5	35	M6x16	16.7
		275.5	40	19	21.5	6	2.5	35	M6x16	16.7
		290	40	16	18	5	2.5	35	M6x16	16.5

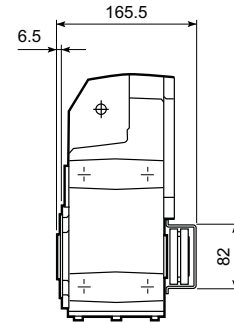
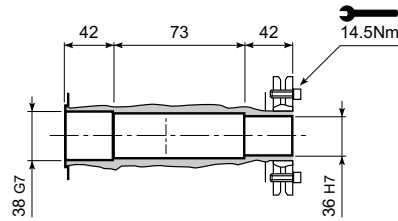


# F 30

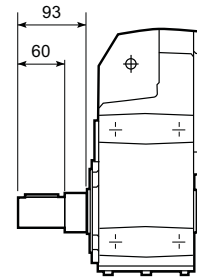
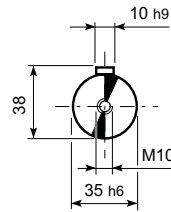
F 30...H



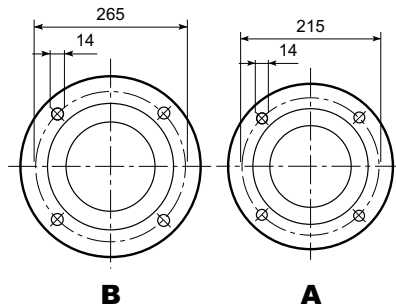
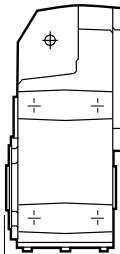
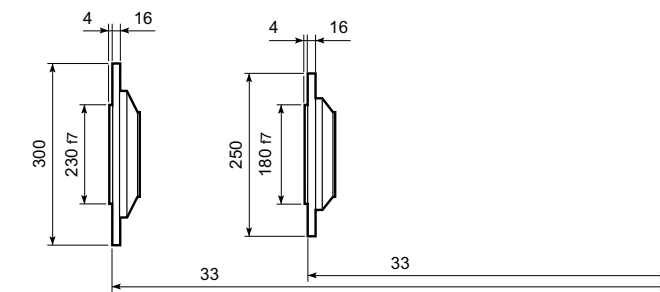
F 30...S

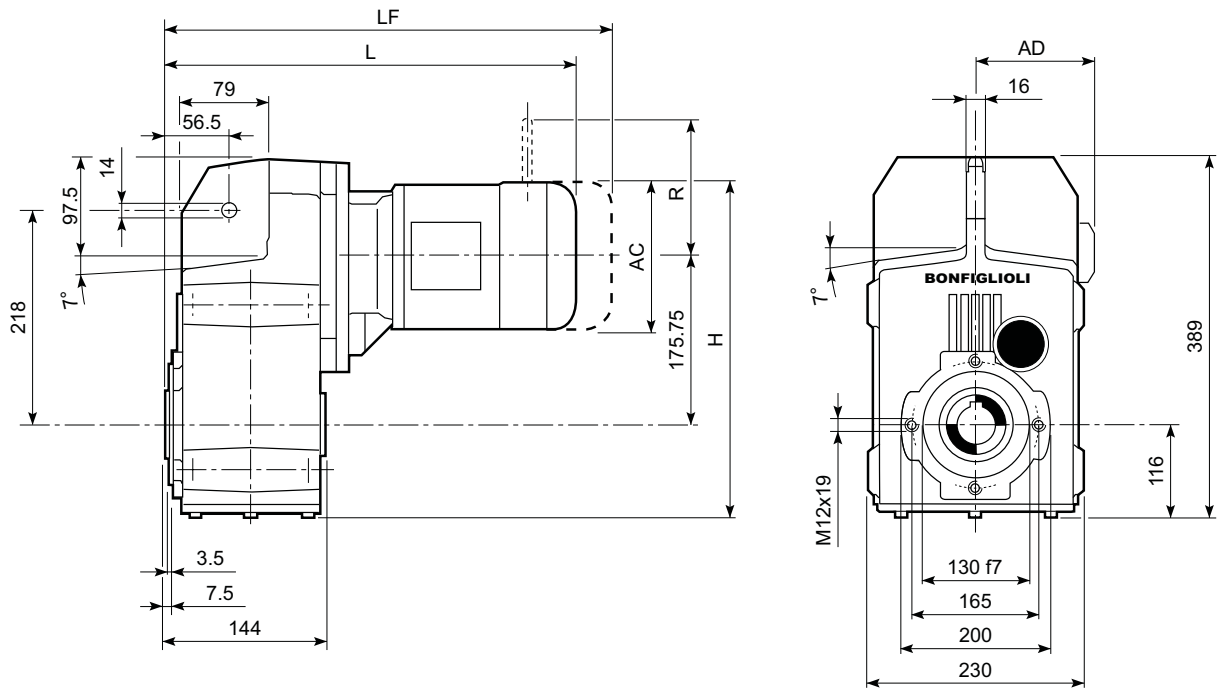
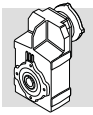


F 30...R

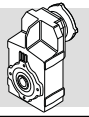


F 30...F...

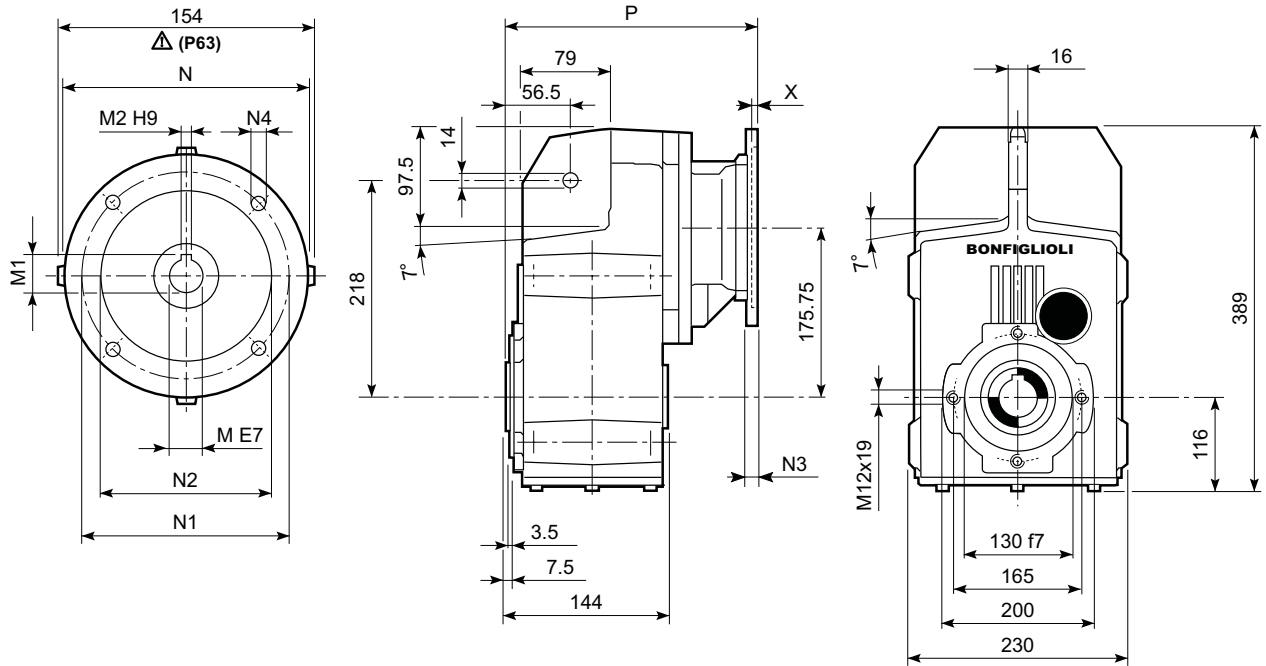




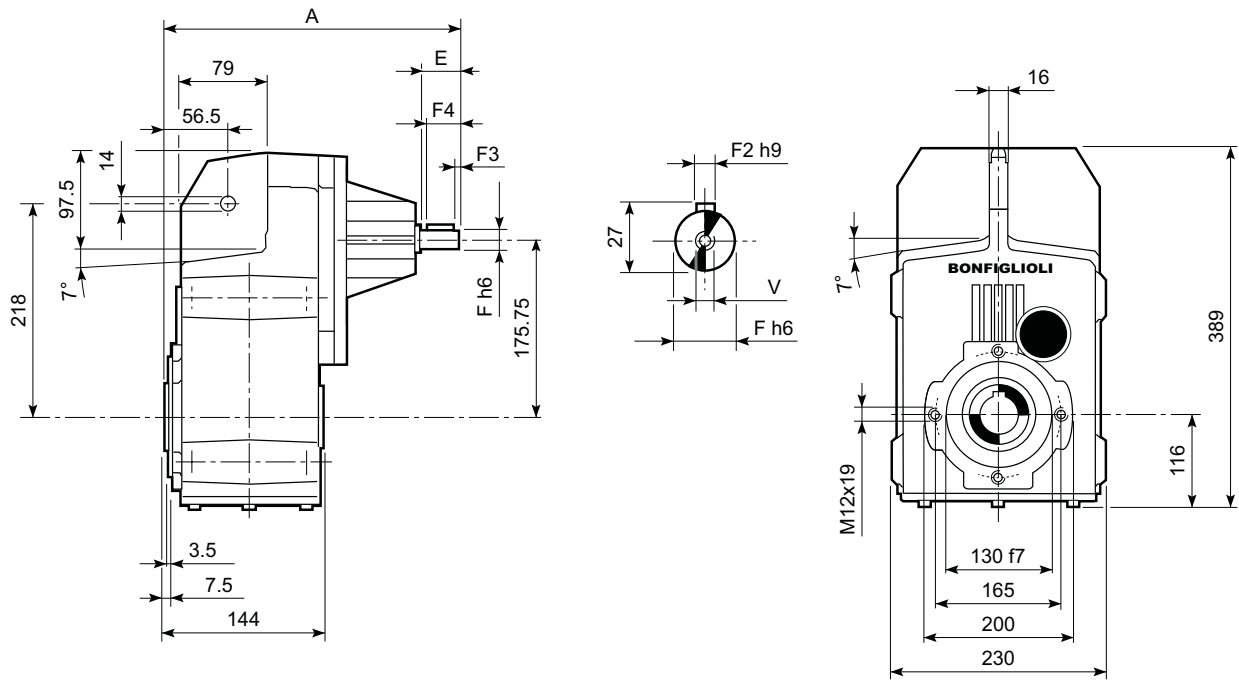
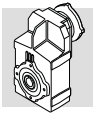
F 40													
Image	S	M	AC	H	L	AD	Kg	M_FD M_FA		M_FD		M_FA	
								LF	Kg	R	AD	R	AD
	S1	M1S	138	360.8	377	108	44	440	47	103	132	124	108
	S1	M1L	138	360.8	401	108	46	462	48	103	132	124	108
	S2	M2S	156	369.8	430	119	49	500	53	129	143	134	119
	S3	M3S	195	389.3	473	142	54	569	62	160	155	160	142
	S3	M3L	195	389.3	505	142	62	596	69	160	155	160	142
	S4	M4	258	420.8	613	193	96	722	114	226	193	217	193
	S4	M4LC	258	420.8	648	193	104	747	122	226	193	217	193
	S05	M05	231	352.3	433.5	95	45	499.5	46	96	119	116	95
	S1	M1S	138	360.8	438.5	108	45	501.5	48	103	132	124	108
	S1	M1L	138	360.8	462.5	108	47	523.5	49	103	132	124	108
	S2	M2S	156	369.8	491.5	119	50	561.5	58	129	143	134	119
	S3	M3S	195	389.3	534.5	142	55	630.5	62	160	155	160	142
	S3	M3L	195	389.3	566.5	142	63	657.5	70	160	155	160	142



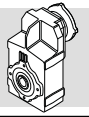
# F 40...P(IEC)



F 40														
		M	M1	M2	N	N1	N2	N3	N4	X	P	kg		
		F 40 2/3	P63	11	12.8	4	140	115	95	—	M8x19	4	246	42
		F 40 2/3	P71	14	16.3	5	160	130	110	—	M8x16	4.5	246	42
		F 40 2/3	P80	19	21.8	6	200	165	130	—	M10x12	4	265.5	43
		F 40 2/3	P90	24	27.3	8	200	165	130	—	M10x12	4	265.5	43
		F 40 2/3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	275.5	47
		F 40 2/3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	275.5	47
		F 40 2/3	P132	38	41.3	10	300	265	230	16	14	5	312	50
		F 40 4	P63	11	12.8	4	140	115	95	—	M8x19	4	307.5	44
		F 40 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	307.5	44
		F 40 4	P80	19	21.8	6	200	165	130	—	M10x12	4	327	45
		F 40 4	P90	24	27.3	8	200	165	130	—	M10x12	4	327	45
		F 40 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	337	49
		F 40 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	337	49

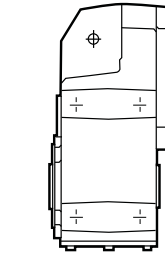
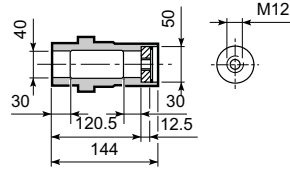
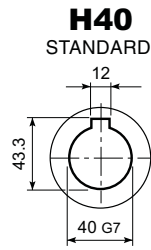


F 40										
		A	E	F	F1	F2	F3	F4	V	Kg
F 40 2	HS	335.5	50	24	27	8	2.5	45	M8x19	44.9
F 40 3		335.5	50	24	27	8	2.5	45	M8x19	46.4
F 40 4		357.5	40	19	21.5	6	2.5	35	M6x16	43.5

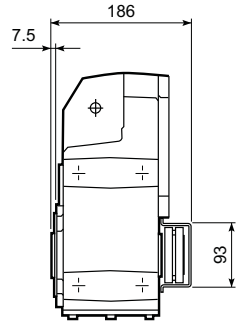
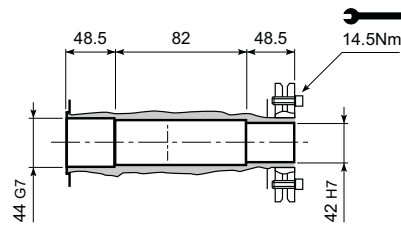


# F 40

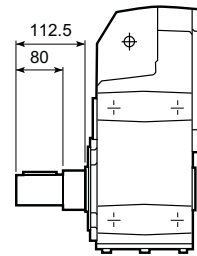
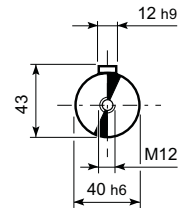
F 40...H



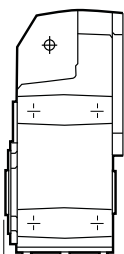
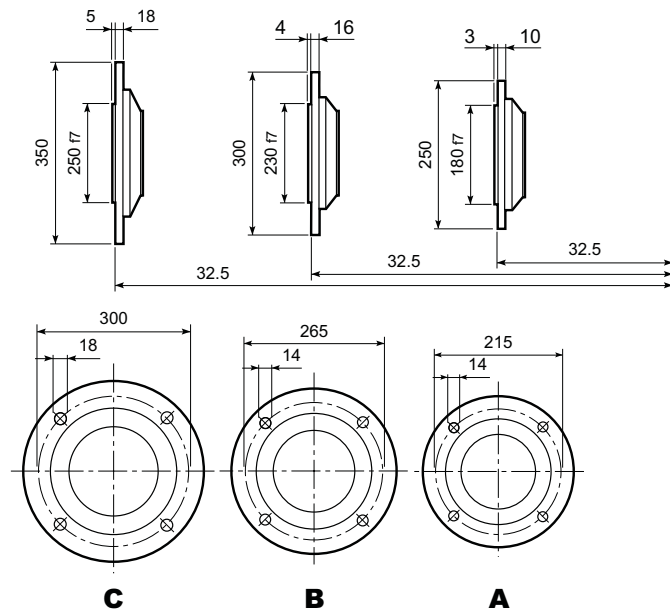
F 40...S

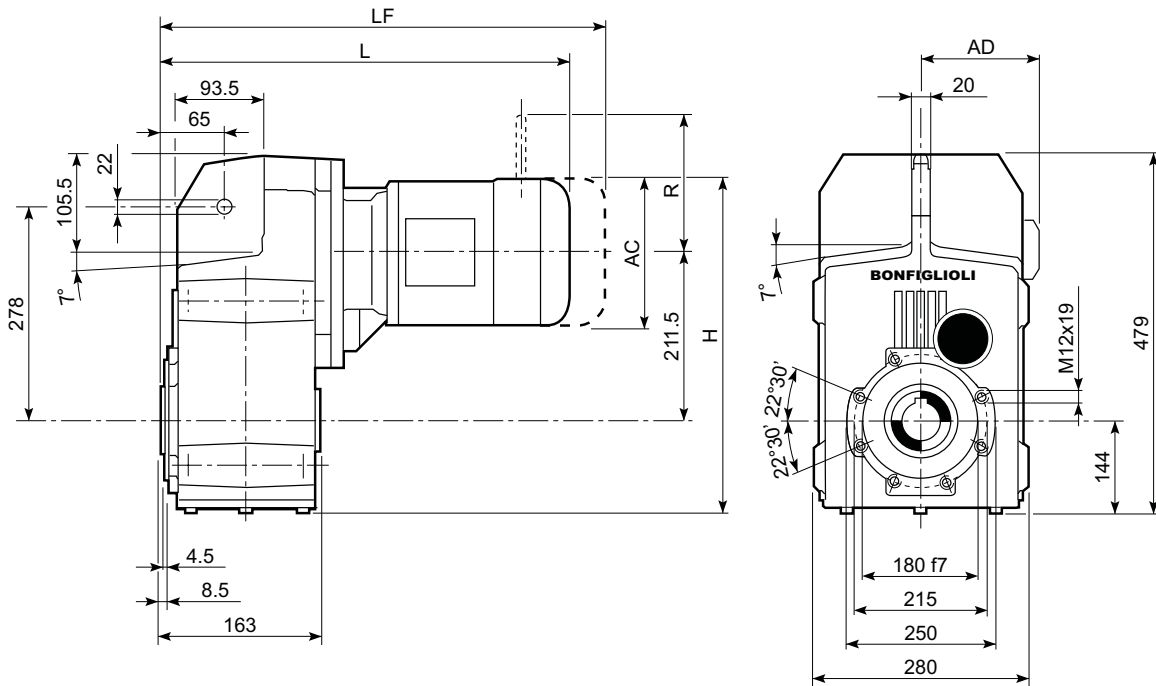
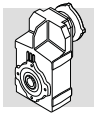


F 40...R



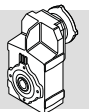
F 40...F...



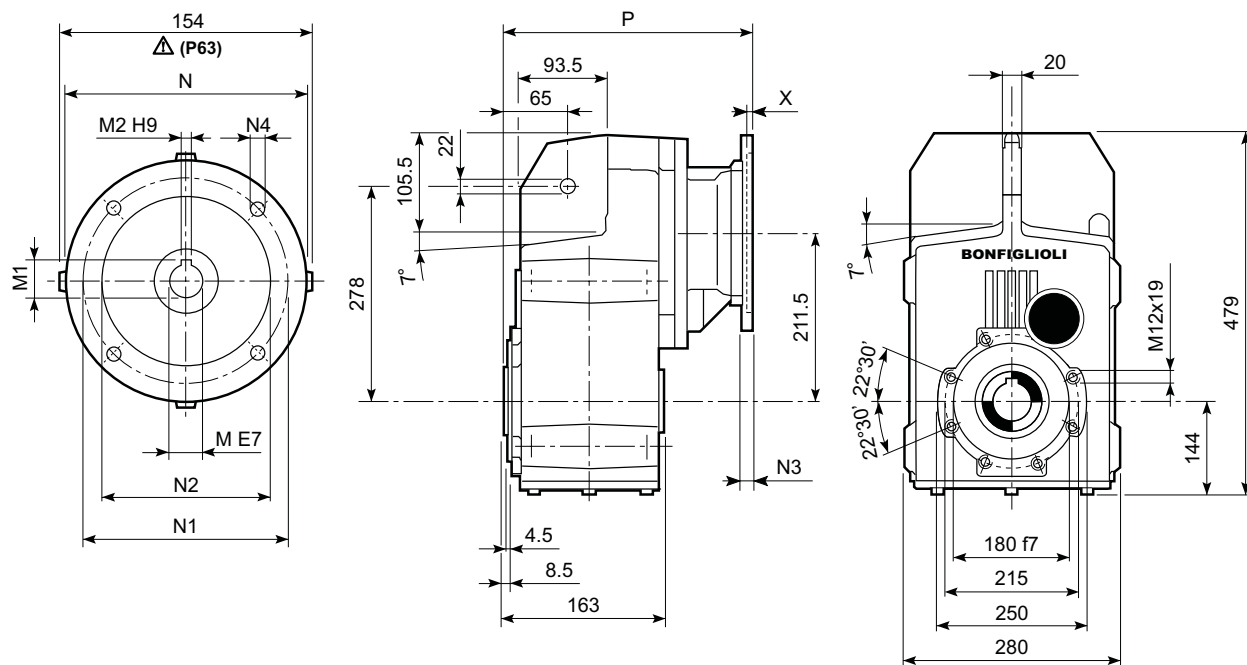


F 50													
Image	S	M	AC	H	L	AD	Kg	M_FD M_FA		M_FD		M_FA	
								LF	Kg	R	AD	R	AD
	S1	M1S	138	424	399	108	72	462	75	103	132	124	108
	S1	M1L	138	424	423	108	73	484	76	103	132	124	108
	S2	M2S	156	433	452	119	73	522	76	129	143	134	119
	S3	M3S	195	452.5	495	142	77	591	85	160	155	160	142
	S3	M3L	195	452.5	527	142	85	618	92	160	155	160	142
	S4	M4	258	484	635	193	119	744	137	226	193	217	193
	S4	M4LC	258	484	670	193	127	769	145	226	193	217	193
	S1	M1S	138	424	470.5	108	74	533.5	77	103	132	124	108
	S1	M1L	138	424	494.5	108	75	555.5	78	103	132	124	108
	S2	M2S	156	433	523.5	119	79	593.5	83	129	143	134	119
	S3	M3S	195	452.5	566.5	142	84	662.5	91	160	155	160	142
	S3	M3L	195	452.5	598.5	142	91	689.5	98	160	155	160	142

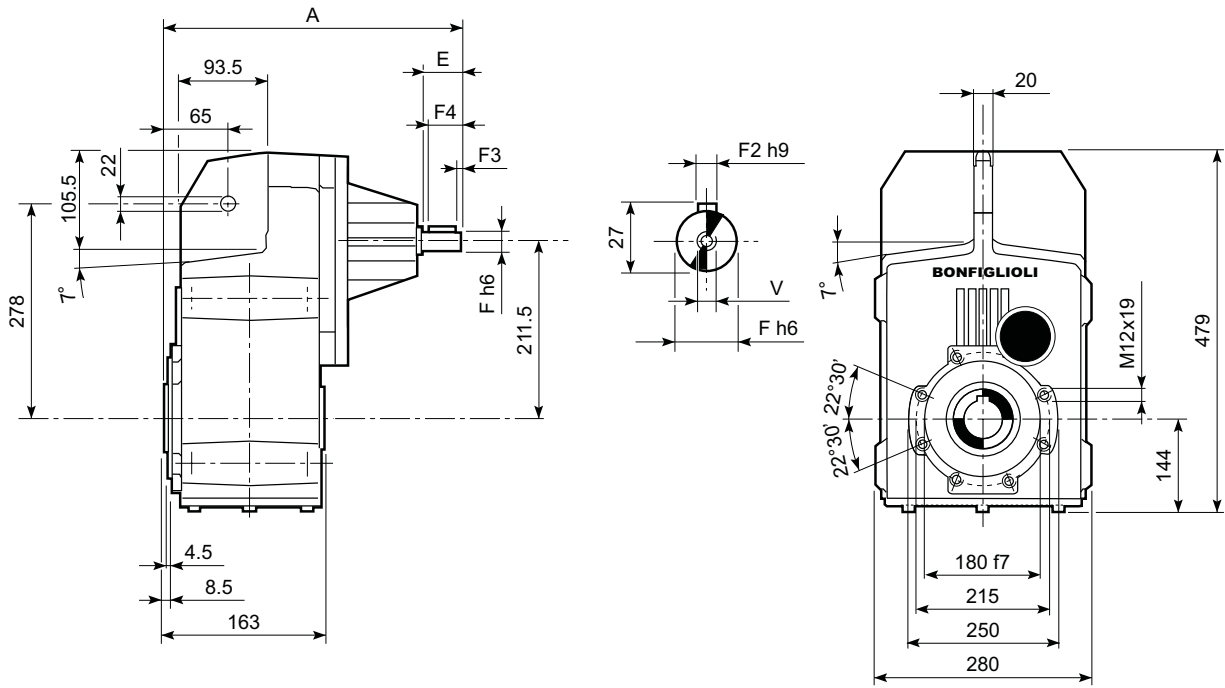
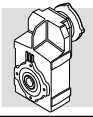




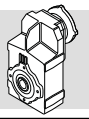
# F 50...P(IEC)



F 50														
		M	M1	M2	N	N1	N2	N3	N4	X	P	kg		
		F 50 2/3	P63	11	12.8	4	140	115	95	—	M8x19	4	268	65
		F 50 2/3	P71	14	16.3	5	160	130	110	—	M8x16	4.5	268	65
		F 50 2/3	P80	19	21.8	6	200	165	130	—	M10x12	4	287.5	67
		F 50 2/3	P90	24	27.3	8	200	165	130	—	M10x12	4	287.5	67
		F 50 2/3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	297.5	71
		F 50 2/3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	297.5	71
		F 50 2/3	P132	38	41.3	10	300	265	230	16	14	5	334	74
		F 50 2/3	P160	42	45.3	12	350	300	250	23	18	5.5	384.5	78
		F 50 2/3	P180	48	51.8	14	350	300	250	23	18	5.5	384.5	78
		F 50 4	P63	11	12.8	4	140	115	95	—	M8x19	4	339.5	70
		F 50 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	339.5	70
		F 50 4	P80	19	21.8	6	200	165	130	—	M10x12	4	359	71
		F 50 4	P90	24	27.3	8	200	165	130	—	M10x12	4	359	71
		F 50 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	369	75
		F 50 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	369	75

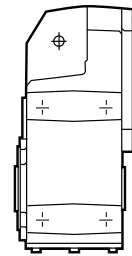
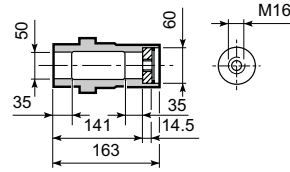
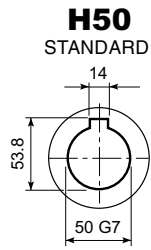


F 50										
		A	E	F	F1	F2	F3	F4	V	Kg
	HS	357.5	50	24	27	8	2.5	45	M8x19	65
		357.5	50	24	27	8	2.5	45	M8x19	68
		389.5	40	19	21.5	6	2.5	35	M6x16	70

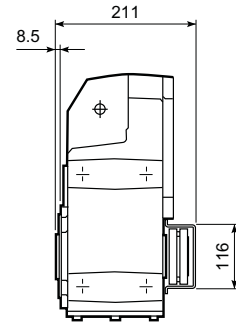
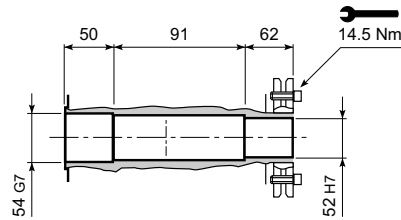


# F 50

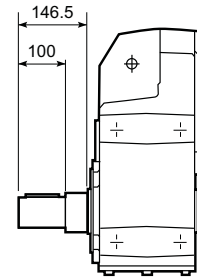
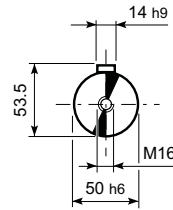
**F 50...H**



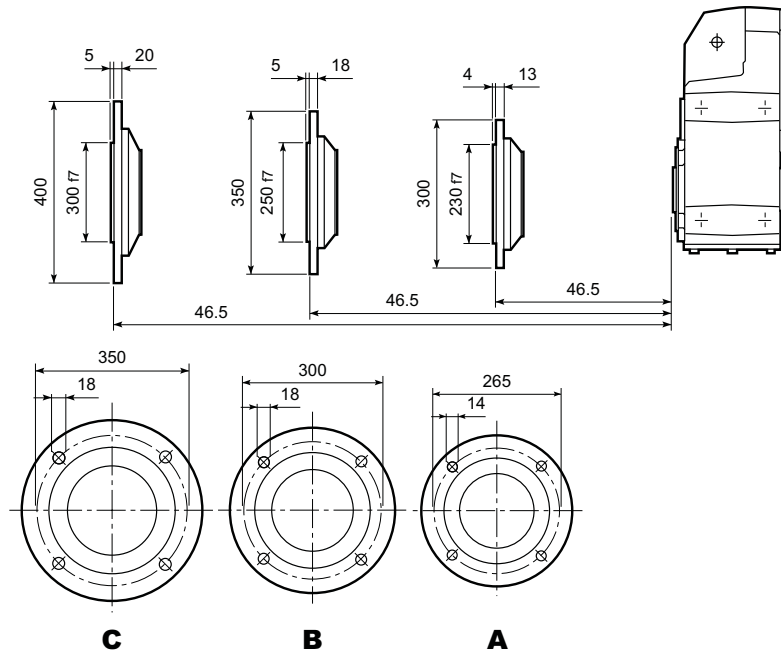
**F 50...S**

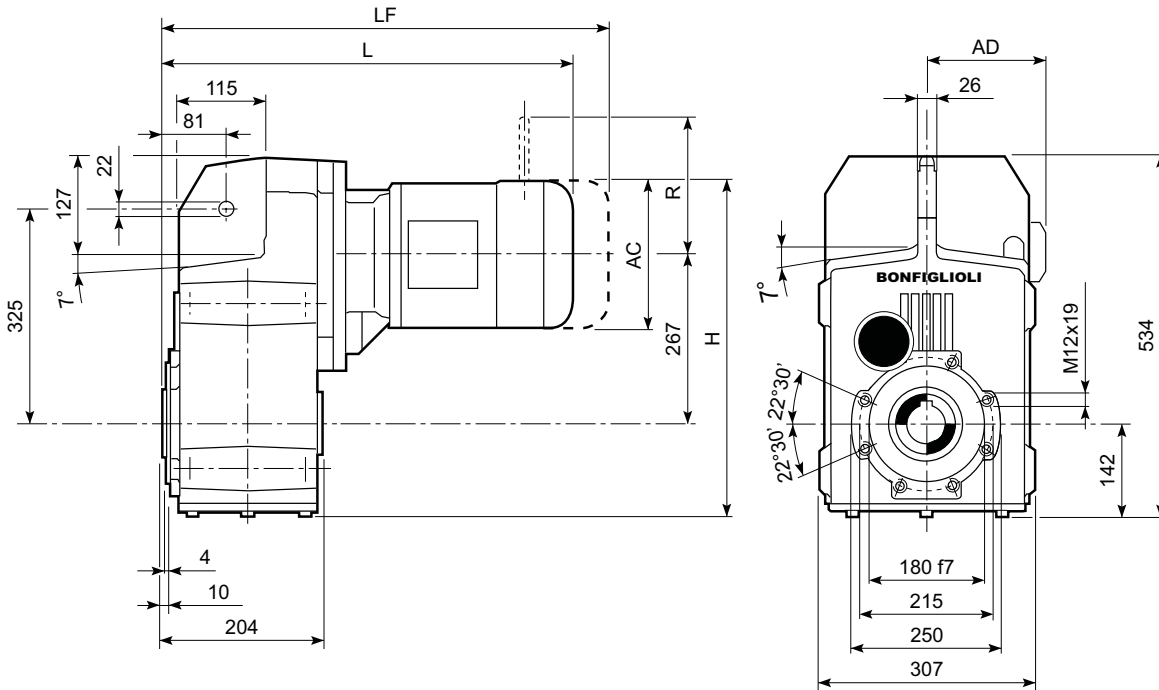
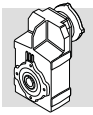


**F 50...R**

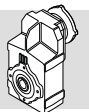


**F 50...F...**

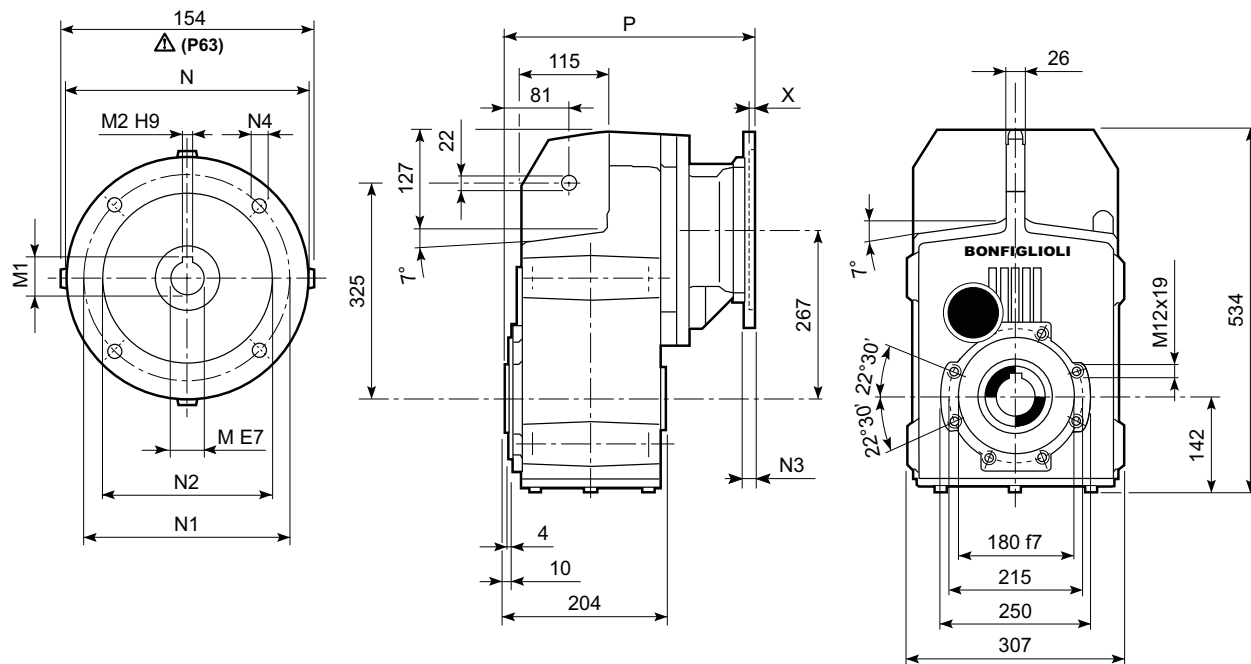




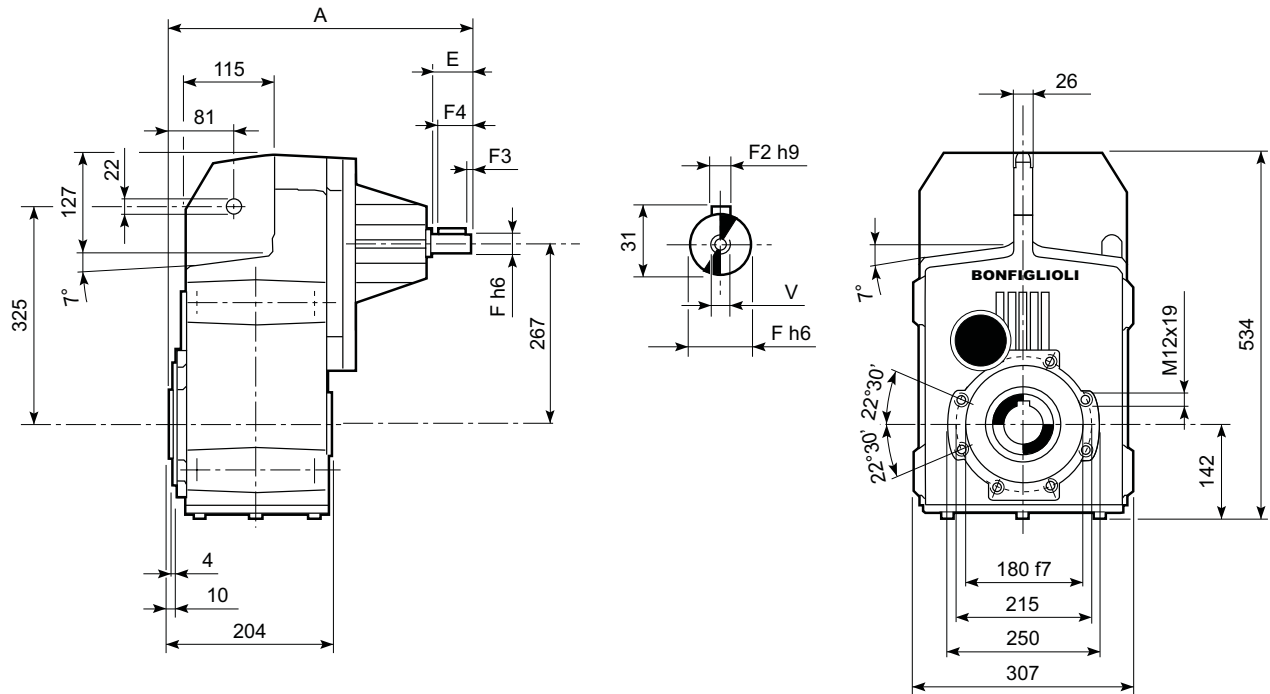
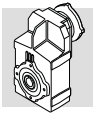
F 60													
Image	Image	Image	AC	H	L	AD	Kg	M_FD M_FA		M_FD		M_FA	
								LF	Kg	R	AD	R	AD
F 60 3	S2	M2S	156	487	486.5	119	114	556.5	121	129	143	134	119
F 60 3	S3	M3S	195	506.5	529.5	142	114	625.5	122	160	155	160	142
F 60 3	S3	M3L	195	506.5	561.5	142	122	652.5	129	160	155	160	142
F 60 3	S4	M4	258	538	669.5	193	156	777.5	174	226	193	217	193
F 60 3	S4	M4LC	258	538	704.5	193	164	802.5	182	226	193	217	193
F 60 3	S5	M5S	310	564	756	245	184	896	214	266	245	247	245
F 60 3	S5	M5L	310	564	800	245	200	940	230	266	245	247	245
F 60 4	S1	M1S	138	478	504	108	112	567	114	103	132	124	108
F 60 4	S1	M1L	138	478	528	108	113	589	116	103	132	124	108
F 60 4	S2	M2S	156	487	557	119	117	627	121	129	143	134	119
F 60 4	S3	M3S	195	506.5	600	142	122	696	129	160	155	160	142
F 60 4	S3	M3L	195	506.5	632	142	129	723	136	160	155	160	142
F 60 4	S4	M4	258	538	740	193	156	849	174	226	193	217	193
F 60 4	S4	M4LC	258	538	775	193	164	874	182	226	193	217	193





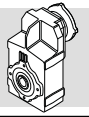
# F 60...P(IEC)



F 60												
		M	M1	M2	N	N1	N2	N3	N4	X	P	
F 60 3	P63	11	12.8	4	140	115	95	—	M8x19	4	302.5	103
F 60 3	P71	14	16.3	5	160	130	110	—	M8x16	4.5	302.5	103
F 60 3	P80	19	21.8	6	200	165	130	—	M10x12	4	322	104
F 60 3	P90	24	27.3	8	200	165	130	—	M10x12	4	322	104
F 60 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	331	108
F 60 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	331	108
F 60 3	P132	38	41.3	10	300	265	230	16	14	5	367.5	111
F 60 3	P160	42	45.3	12	350	300	250	23	18	5.5	419	116
F 60 3	P180	48	51.8	14	350	300	250	23	18	5.5	419	116
F 60 4	P63	11	12.8	4	140	115	95	—	M8x19	4	373	108
F 60 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	373	108
F 60 4	P80	19	21.8	6	200	165	130	—	M10x12	4	392.5	110
F 60 4	P90	24	27.3	8	200	165	130	—	M10x12	4	392.5	110
F 60 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	402.5	114
F 60 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	402.5	114

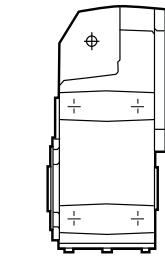
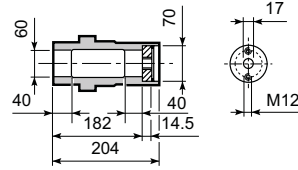
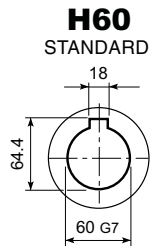


F 60											
		A	E	F	F1	F2	F3	F4	V	 Kg	
	HS	F 60 3	419	60	28	31	8	5.0	50	M10x22	108
		F 60 4	462.5	50	24	27	8	2.5	45	M8x19	105

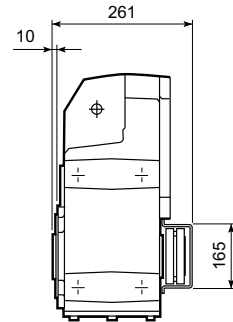
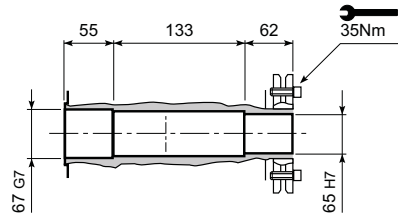


# F 60

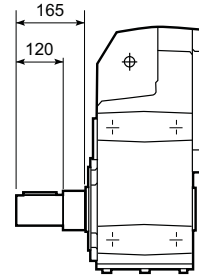
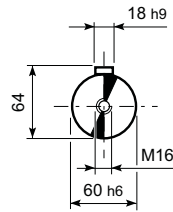
F 60...H



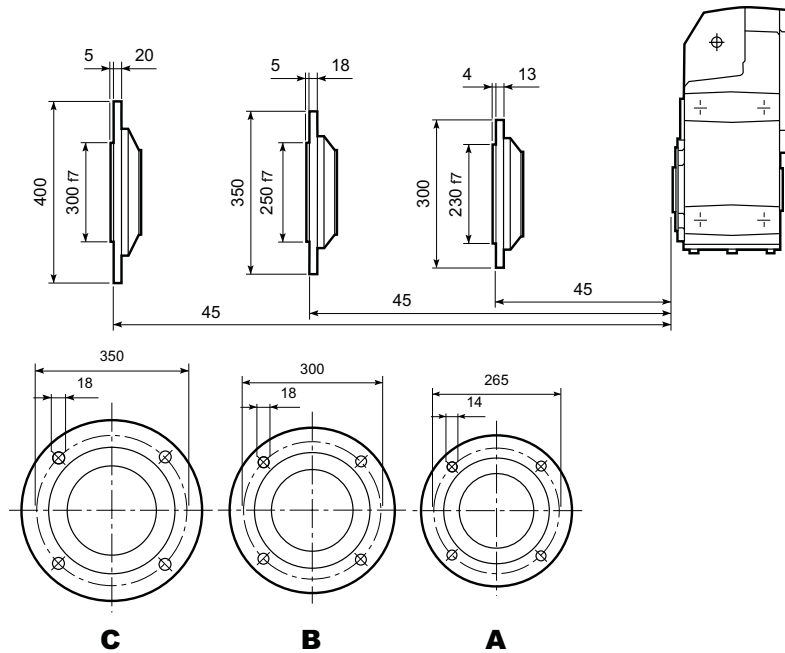
F 60...S

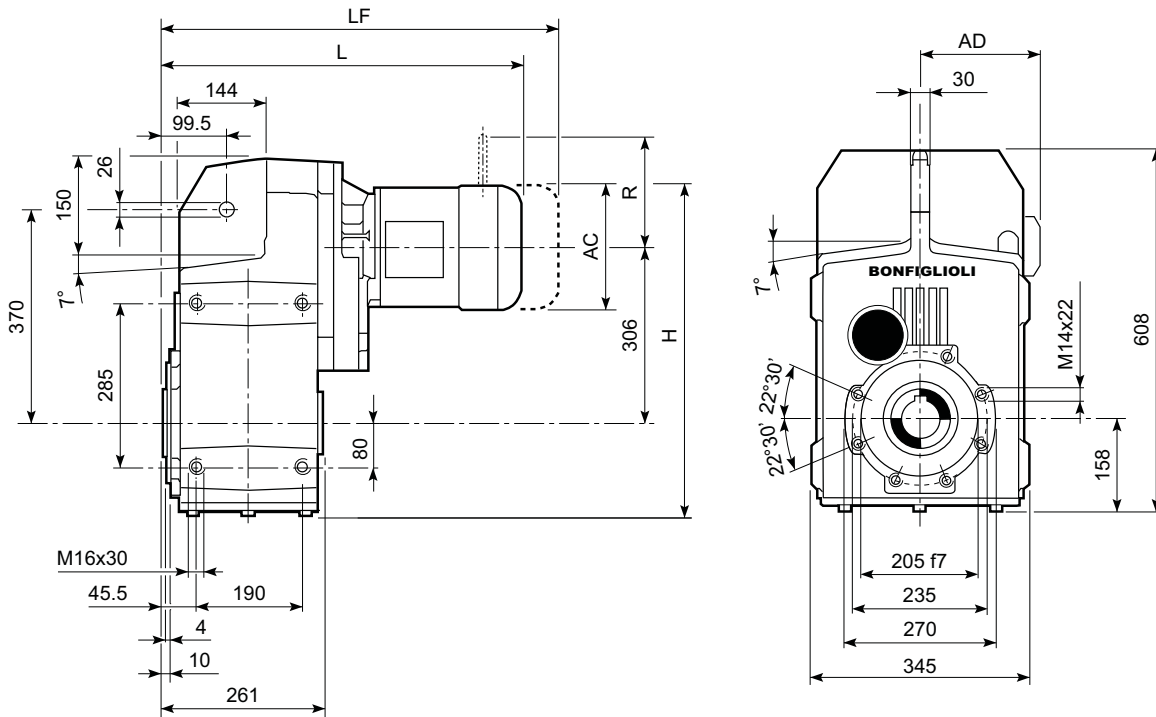
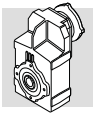


F 60...R



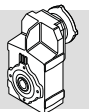
F 60...F...



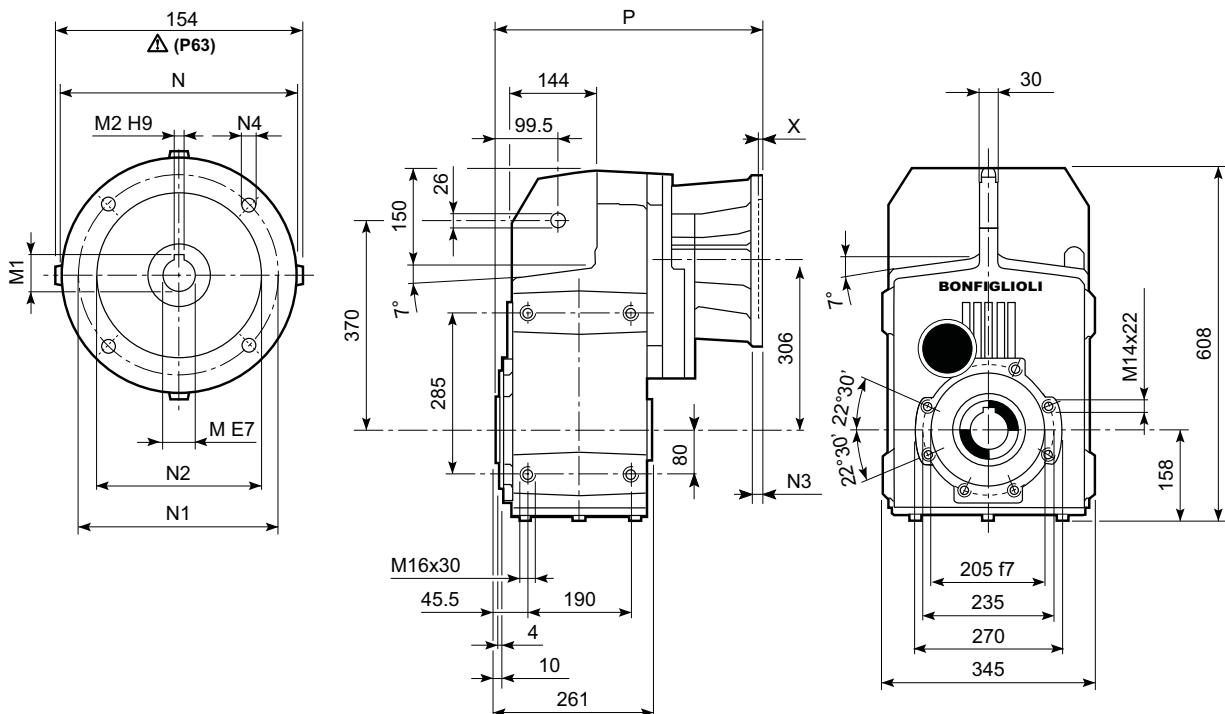


F 70													
Image	S	M	AC	H	L	AD	Kg	M_FD		M_FD		M_FA	
								LF	Kg	R	AD	R	AD
	S2	M2S	156	542	552	119	173	622	177	129	143	134	119
	S3	M3S	195	561.5	595	142	178	691	186	160	155	160	142
	S3	M3L	195	561.5	627	142	186	718	193	160	155	160	142
	S4	M4	258	593	735	193	220	844	238	226	193	217	193
	S4	M4LC	258	593	770	193	228	869	246	226	193	217	193
	S5	M5S	310	619	821.5	245	248	961.5	278	266	245	247	245
	S5	M5L	310	619	865.5	245	264	1005.5	294	266	245	247	245
	S1	M1S	138	533	550	108	171	613	174	103	132	124	108
	S1	M1L	138	533	574	108	173	635	176	103	132	124	108
	S2	M2S	156	542	603	119	177	673	180	129	143	134	119
	S3	M3S	195	561.5	646	142	181	742	189	160	155	160	142
	S3	M3L	195	561.5	678	142	189	769	196	160	155	160	142
	S4	M4	258	593	786	193	223	895	241	226	193	217	193
	S4	M4LC	258	593	821	193	231	920	249	226	193	217	193

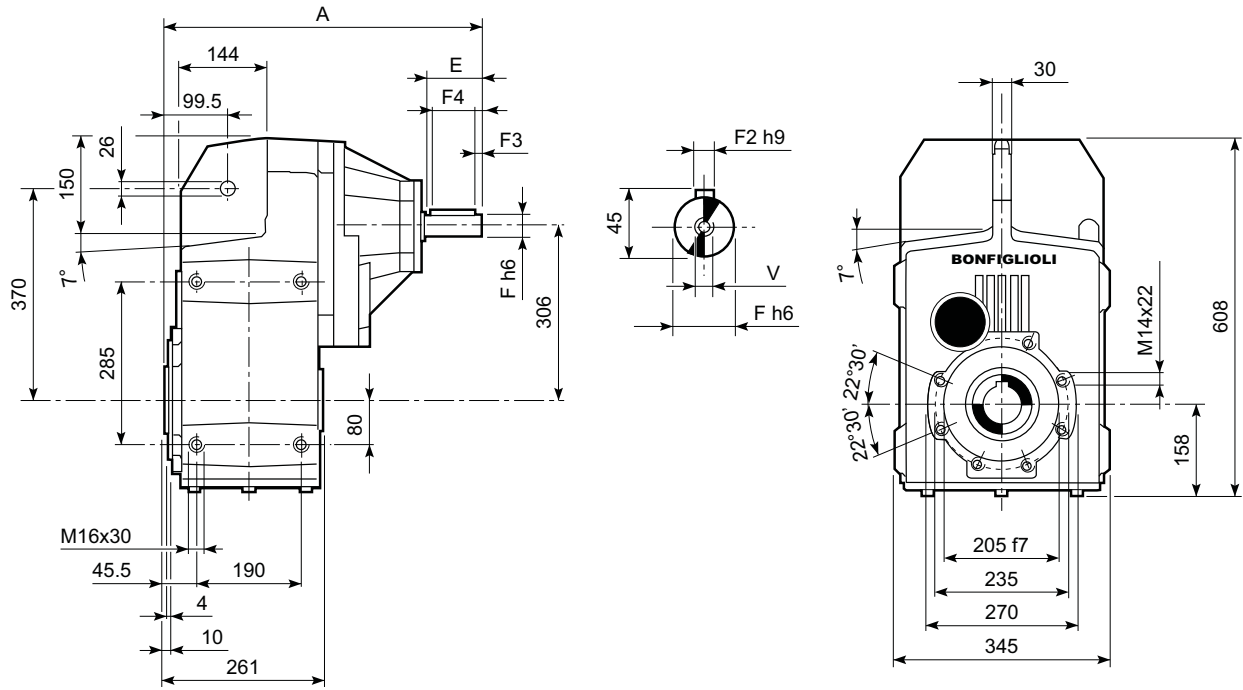
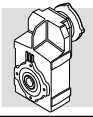







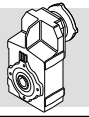
# F 70...P(IEC)



F 70														
		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg		
		F 70 3	P80	19	21.8	6	200	165	130	—	M10x12	4	387.5	167
		F 70 3	P90	24	27.3	8	200	165	130	—	M10x12	4	387.5	167
		F 70 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	397.5	171
		F 70 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	397.5	171
		F 70 3	P132	38	41.3	10	300	265	230	16	14	5	434	173
		F 70 3	P160	42	45.3	12	350	300	250	23	18	6	489.5	185
		F 70 3	P180	48	51.8	14	350	300	250	23	18	6	489.5	185
		F 70 3	P200	55	59.3	16	400	350	300	—	M16x25	7	514.5	206
		F 70 4	P63	11	12.8	4	140	115	95	—	M8x19	4	419	168
		F 70 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	419	168
		F 70 4	P80	19	21.8	6	200	165	130	—	M10x12	4	438.5	170
		F 70 4	P90	24	27.3	8	200	165	130	—	M10x12	4	438.5	170
		F 70 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	446.5	174
		F 70 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	446.5	174
		F 70 4	P132	38	41.3	10	300	265	230	16	14	5	482	176

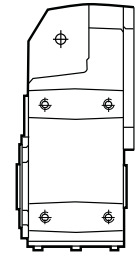
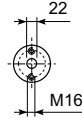
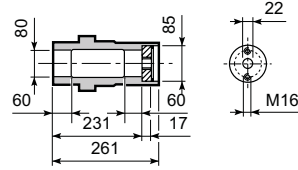
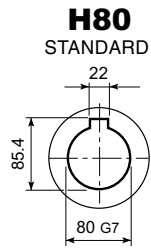


F 70										
		A	E	F	F1	F2	F3	F4	V	 Kg
	HS	572	110	42	45	12	10	90	M12x28	186
		508.5	50	24	27	8	2.5	45	M8x19	174

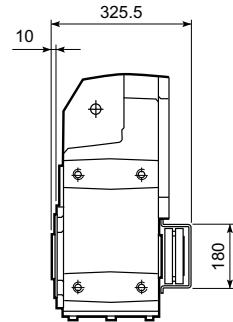
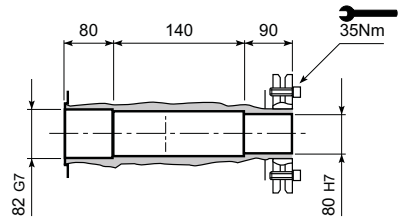


# F 70

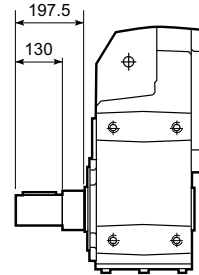
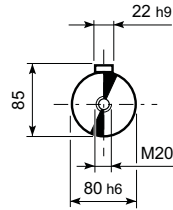
**F 70...H**



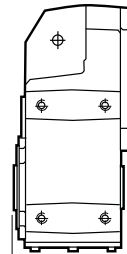
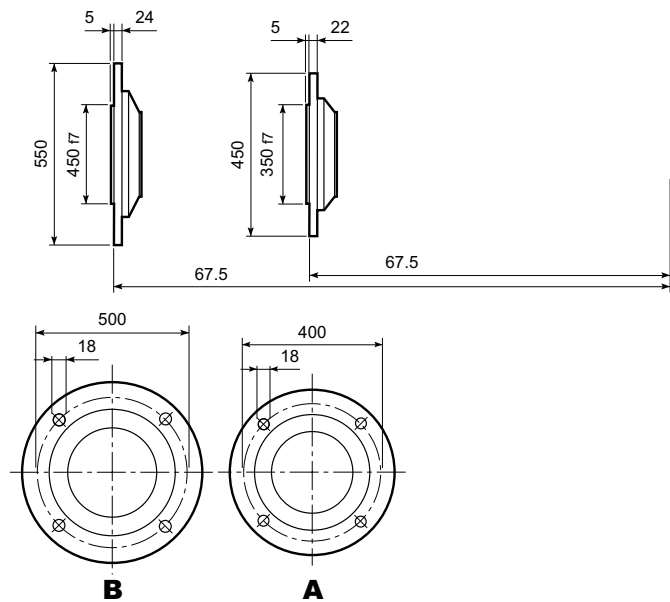
**F 70...S**

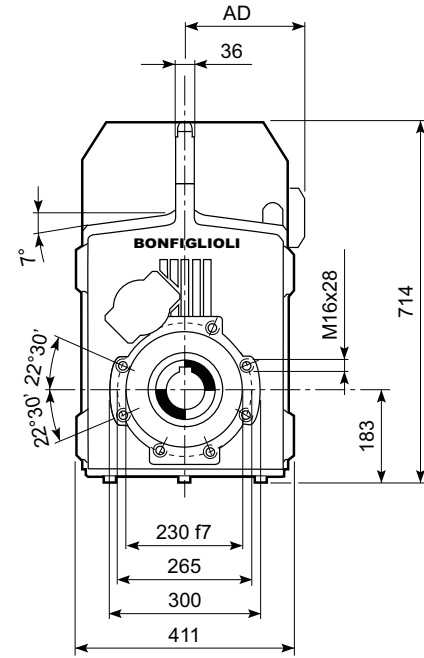
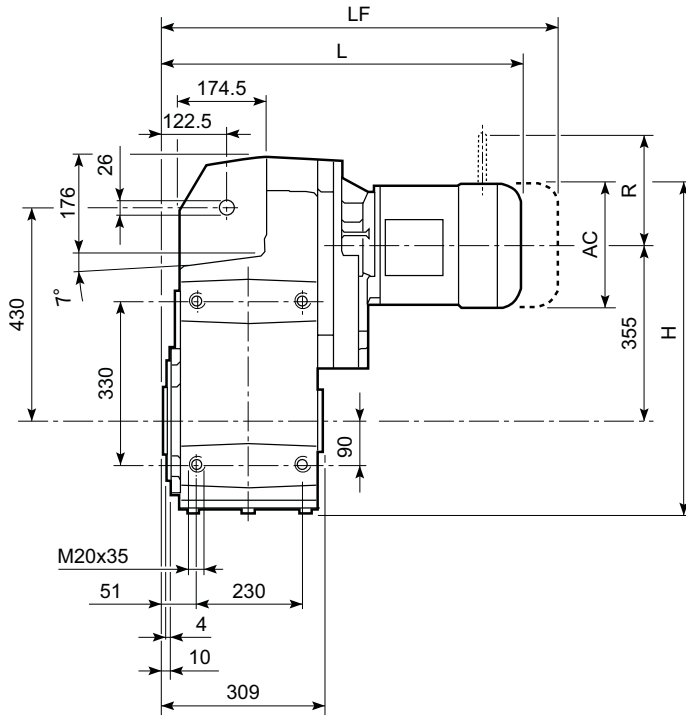
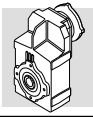


**F 70...R**

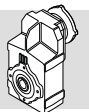


**F 70...F...**

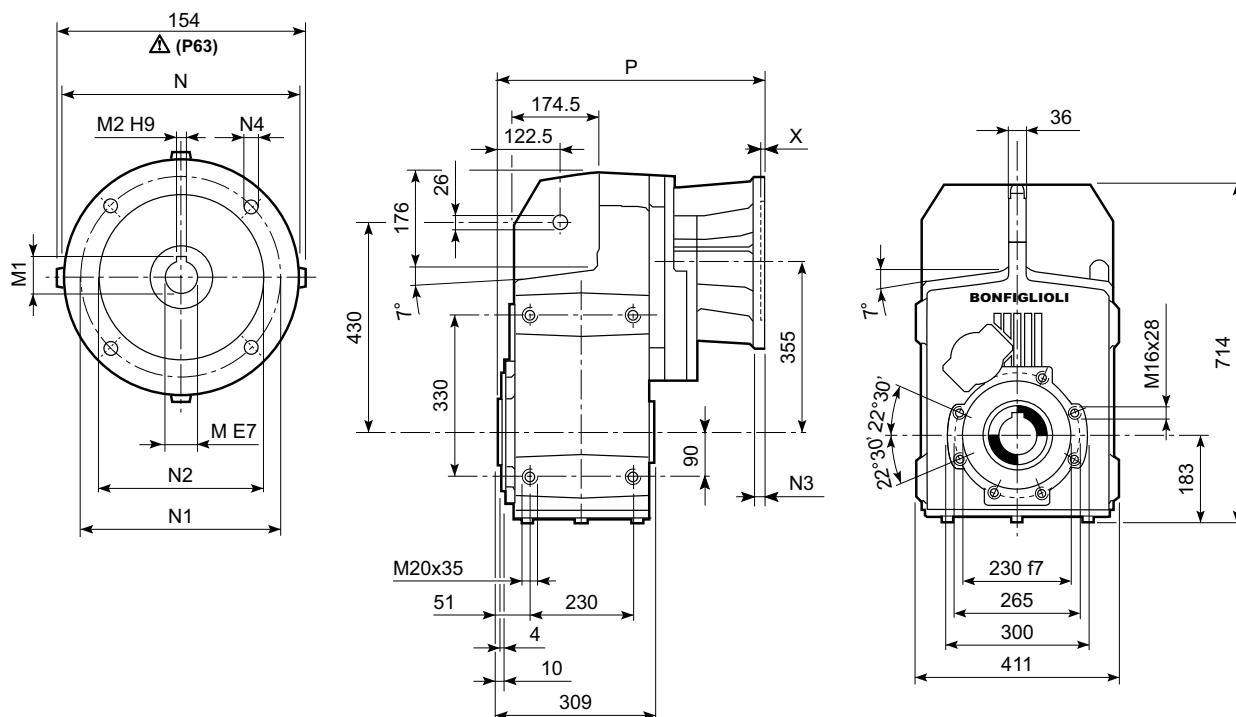




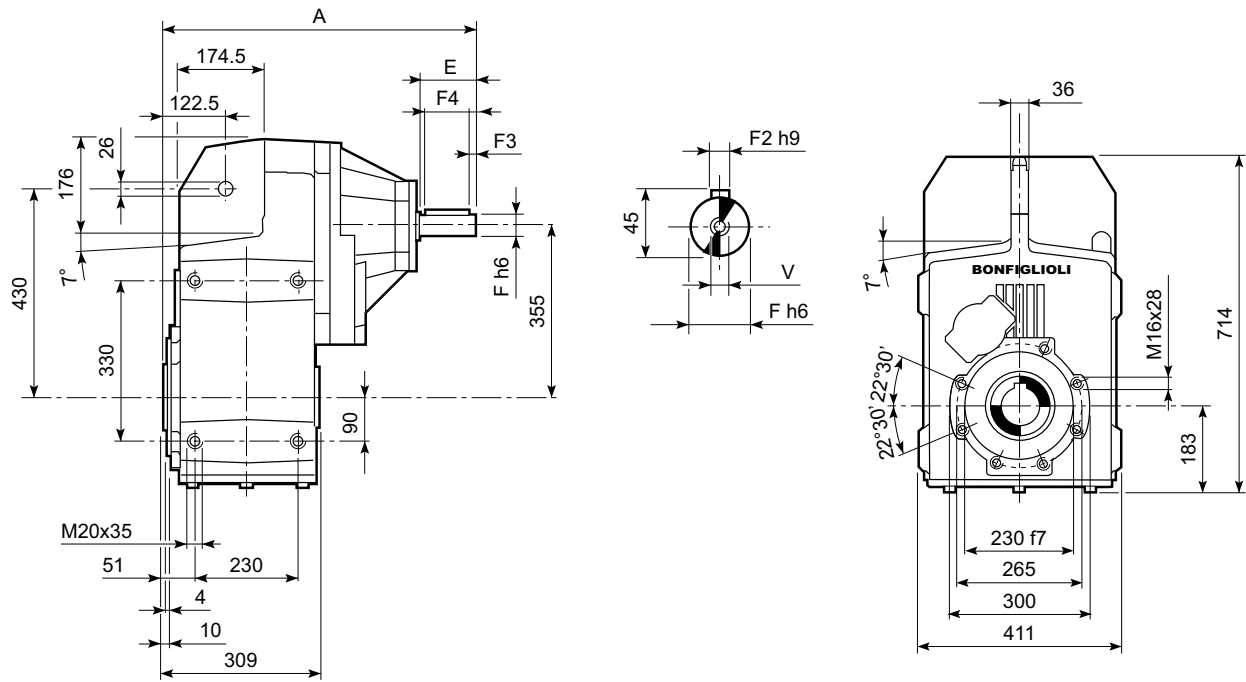
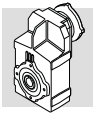
F 80													
Image	S	M	AC	H	L	AD	Kg	M_FD M_FA		M_FD		M_FA	
								LF	Kg	R	AD	R	AD
	S4	M4	258	667	793	193	307	902	325	226	193	217	193
	S4	M4LC	258	667	828	193	315	927	333	226	193	217	193
	S5	M5S	310	693	879.5	245	335	1019.5	365	266	245	247	245
	S5	M5L	310	693	923.5	245	351	1063.5	381	266	245	247	245
	S1	M1S	138	607	620	108	261	683	263	103	132	124	108
	S1	M1L	138	607	644	108	262	705	265	103	132	124	108
	S2	M2S	156	616	673	119	266	743	269	129	143	134	119
	S3	M3S	195	635.5	716	142	271	812	278	160	155	160	142
	S3	M3L	195	635.5	748	142	278	839	285	160	155	160	142
	S4	M4	258	667	856	193	312	965	330	226	193	217	193
	S4	M4LC	258	667	891	193	320	990	338	226	193	217	193






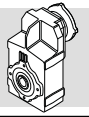
# F 80...P(IEC)



F 80														
		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg		
		F 80 3	P80	19	21.8	6	200	165	130	—	M10x12	4	445.5	255
		F 80 3	P90	24	27.3	8	200	165	130	—	M10x12	4	445.5	255
		F 80 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	455.5	259
		F 80 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	455.5	259
		F 80 3	P132	38	41.3	10	300	265	230	16	14	5	492	261
		F 80 3	P160	42	45.3	12	350	300	250	23	18	6	547.5	276
		F 80 3	P180	48	51.8	14	350	300	250	23	18	6	547.5	276
		F 80 3	P200	55	59.3	16	400	350	300	—	M16x25	7	572.5	298
		F 80 3	P225	60	64.4	18	450	400	350	25	18	6	618	298
		F 80 4	P63	11	12.8	4	140	115	95	—	M8x19	4	489	258
		F 80 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	489	258
		F 80 4	P80	19	21.8	6	200	165	130	—	M10x12	4	508.5	260
		F 80 4	P90	24	27.3	8	200	165	130	—	M10x12	4	508.5	260
		F 80 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	518.5	264
		F 80 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	518.5	264
		F 80 4	P132	38	41.3	10	300	265	230	16	M12x16	5	552	266

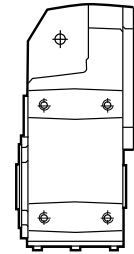
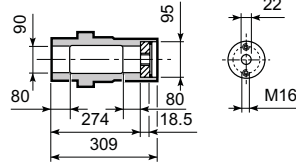
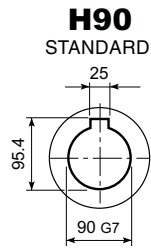


F 80										
		A	E	F	F1	F2	F3	F4	V	
F 80 3	HS	630	110	42	45	12	10	90	M12x28	273
F 80 4		575.5	50	24	27	8	2.5	45	M8x19	263

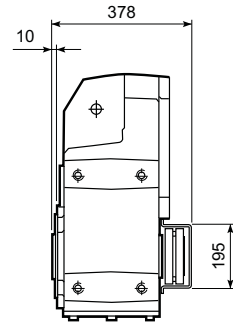
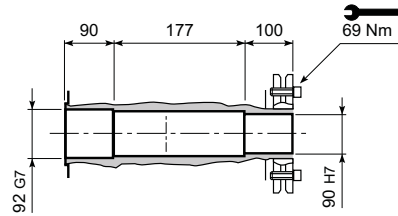


# F 80

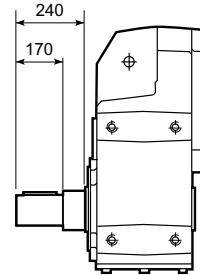
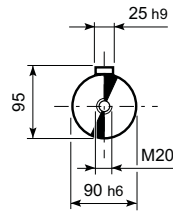
## F 80...H



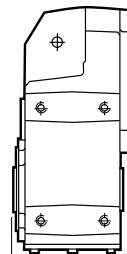
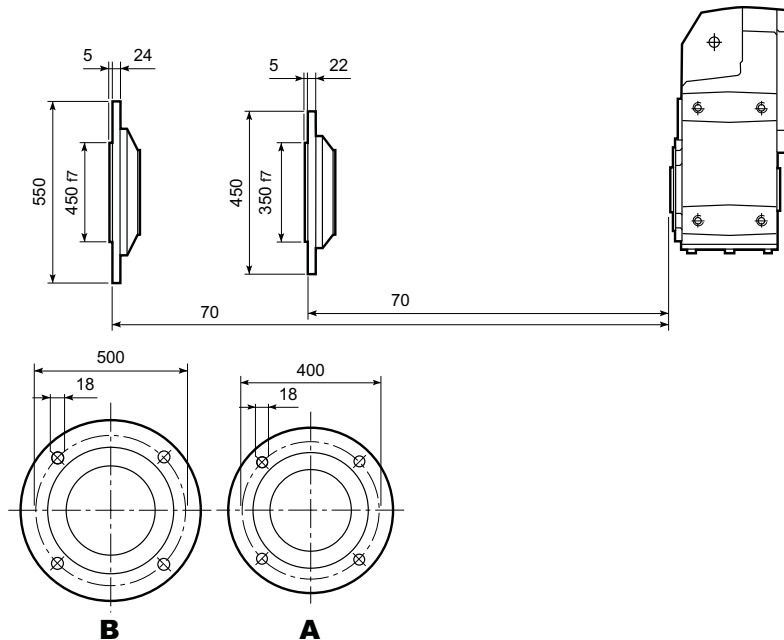
## F 80...S

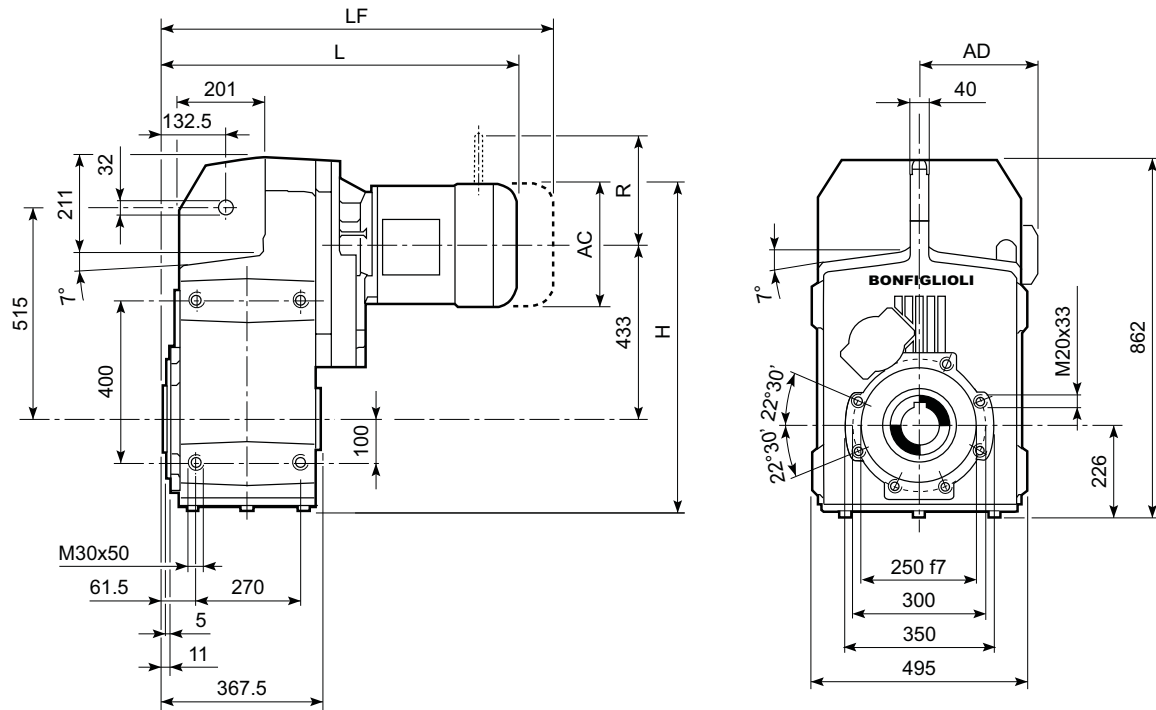
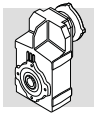


## F 80...R



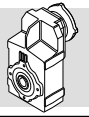
## F 80...F...



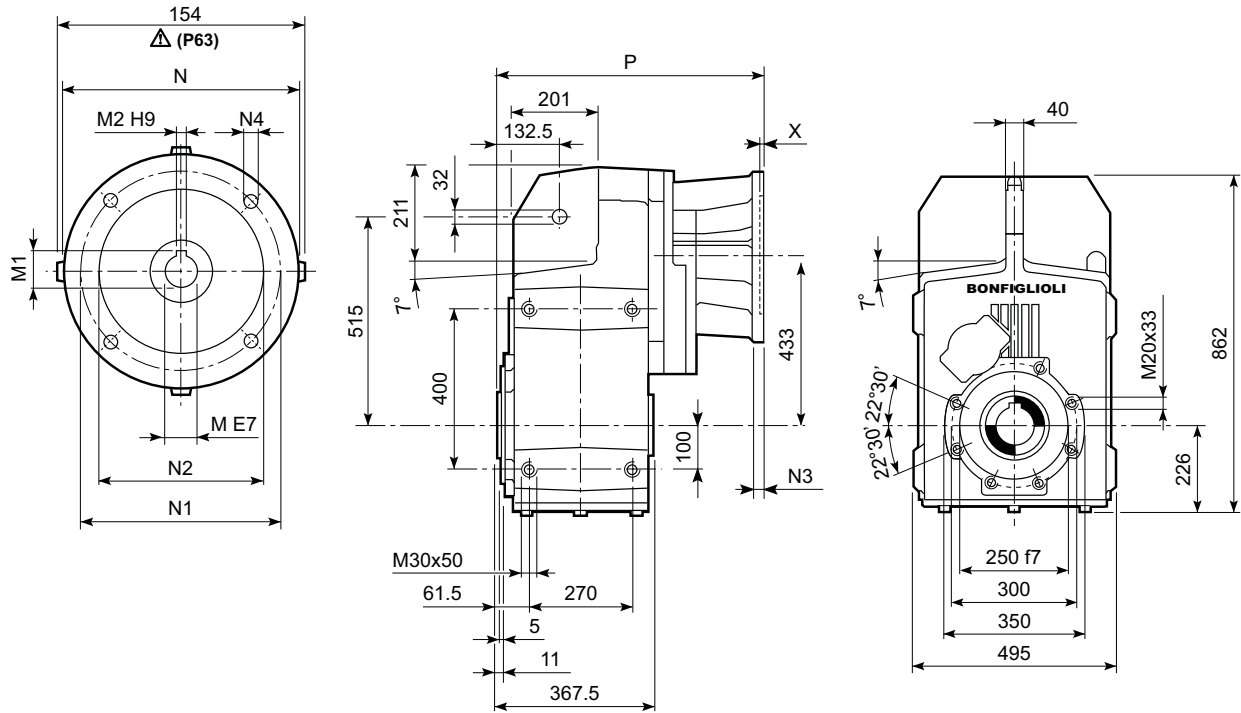


F 90													
Image	S	M	AC	H	L	AD	Kg	M_FD		M_FD		M_FA	
								LF	Kg	R	AD	R	AD
	S3	M3S	195	756	728	142	453	824	460	160	155	160	142
	S3	M3L	195	756	760	142	460	851	467	160	155	160	142
	S4	M4	258	787.5	868	193	494	977	512	226	193	217	193
	S5	M5L	310	813.5	998.5	245	538	1138.5	568	266	245	247	245
	S2	M2S	156	736.5	768	119	456	838	460	129	143	134	119
	S3	M3S	195	756	811	142	460	907	468	160	155	160	142
	S3	M3L	195	756	843	142	468	934	475	160	155	160	142
	S4	M4	258	787.5	951	193	502	1060	520	226	193	217	193
	S4	M4LC	258	787.5	986	193	510	1085	528	226	193	217	193

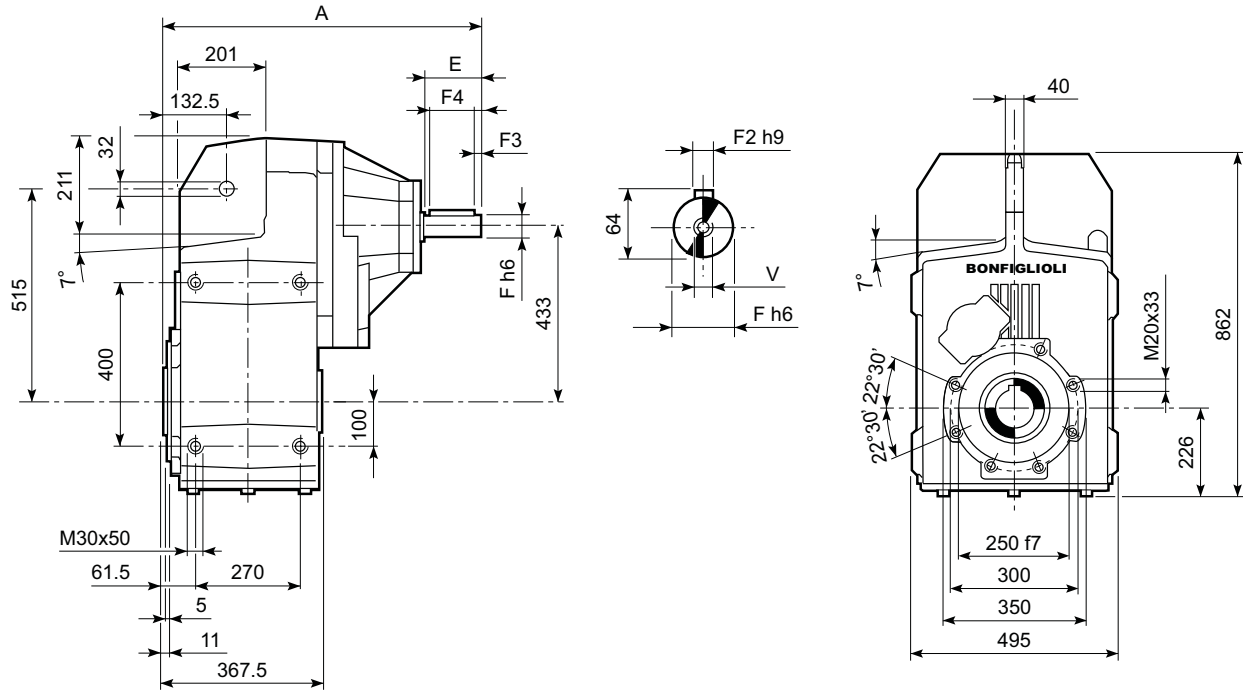
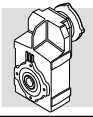




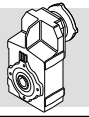
# F 90...P(IEC)



F 90												
		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 90 3	P80	19	21.8	6	200	165	130	—	M10x12	4	520.5	442
F 90 3	P90	24	27.3	8	200	165	130	—	M10x12	4	520.5	442
F 90 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	530.5	446
F 90 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	530.5	446
F 90 3	P132	38	41.3	10	300	265	230	16	14	5	567	449
F 90 3	P160	42	45.3	12	350	300	250	23	18	6	622.5	463
F 90 3	P180	48	51.8	14	350	300	250	23	18	6	622.5	463
F 90 3	P200	55	59.3	16	400	350	300	—	M16x25	7	647.5	485
F 90 3	P225	60	64.4	18	450	400	350	30	18	6	693	485
F 90 3	P250	65	69.4	18	550	500	450	30	18	6	723	507
F 90 4	P63	11	12.8	4	140	115	95	—	M8x19	4	584	448
F 90 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	584	448
F 90 4	P80	19	21.8	6	200	165	130	—	M10x12	4	603.5	450
F 90 4	P90	24	27.3	8	200	165	130	—	M10x12	4	603.5	450
F 90 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	613.5	454
F 90 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	613.5	454
F 90 4	P132	38	41.3	10	300	265	230	16	14	5	650	455
F 90 4	P160	42	45.3	12	350	300	250	23	18	5.5	700.5	461
F 90 4	P180	48	51.8	14	350	300	250	23	18	5.5	700.5	461



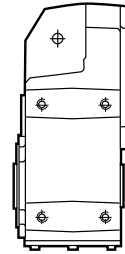
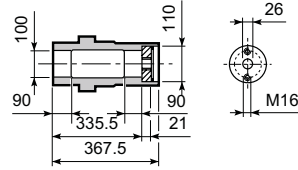
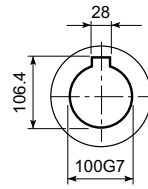
F 90											
		A	E	F	F1	F2	F3	F4	V	Kg	
	HS	F 90 3	806.5	140	60	64	18	10	120	M16x36	485
		F 90 4	673.5	50	24	27	8	2.5	45	M8x19	452



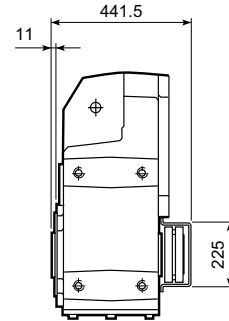
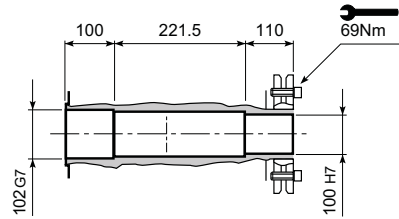
# F 90

F 90...H

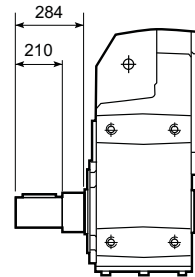
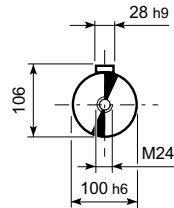
**H100**  
STANDARD



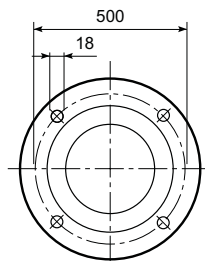
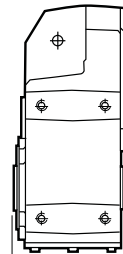
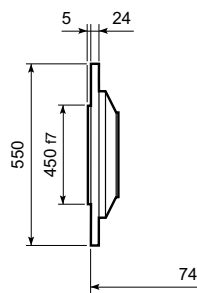
F 90...S



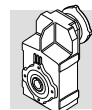
F 90...R



F 90...F...



**A**



### 31 - ACCESSORI

### 31 - ACCESSORIES

### 31 - ZUBEHÖR

### 31 - ACCESSOIRES

#### Kit antivibrante

#### Anti-vibration kit

#### Schwingungsdämpfung

#### Kit de fixation pour bras de réaction avec butée en caoutchouc antivibrations

I riduttori serie F possono essere corredati, a richiesta, di un kit antivibrante che comprende i componenti necessari per il fissaggio pendolare (braccio di reazione escluso).

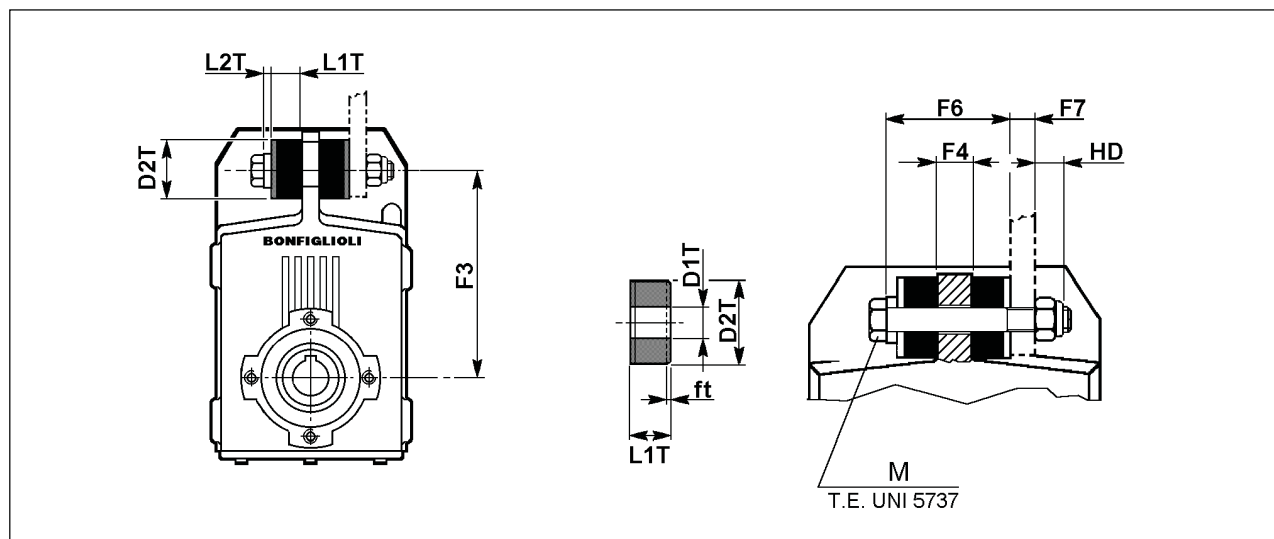
Le dimensioni sono riportate nella tabella (B20).

The gearboxes of the F series are supplied with an anti-vibration kit at customer request. The kit includes all components required for shaft mounting (torque arm is out of scope). Dimensions are shown in the table (B20).

Die Getriebe der Serie F können auf Anfrage mit einem Satz an Schwingungsdämpfern geliefert werden. Dieser Satz enthält die für die Aufsteckbefestigung erforderlichen Komponenten (ausgenommen Achsstrebe). Die Abmessungen sind aus der Tabelle (B20) ersichtlich.

Les réducteurs de la série F peuvent être équipés, sur demande; d'un kit antivibration, incluant les composants nécessaires à la fixation pendulaire (bras de réaction exclu). Les dimensions sont indiquées dans le tableau (B20).

(B20)



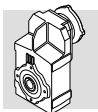
	F3	F4	F6	F7 (max.)	HD	L1T	L2T	D1T	D2T	M	ft
<b>F 10</b>	140	20	55	10	12.3	15	5	11	30	M10x80	1.5
<b>F 20</b>	160	20	55	10	12.3	15	5	11	30	M10x80	1.5
<b>F 30</b>	170	20	65	20	14.8	20	5	12.5	40	M12x100	1.5
<b>F 40</b>	218	16	61	24	14.8	20	5	12.5	40	M12x100	2.3
<b>F 50</b>	278	20	90	47	23	30	10	21	60	M20x160	3.0
<b>F 60</b>	325	26	96	41	23	30	10	21	60	M20x160	4.0
<b>F 70</b>	370	30	122	50	28	40	12	25	80	M24x200	4.0
<b>F 80</b>	430	36	128	44	28	40	12	25	80	M24x200	6.0
<b>F 90</b>	515	40	175	40	33.2	60	15	32	100	M30x260	9.0

f<sub>t</sub>= variazione dimensionale del tampono di gomma antivibrante.

f<sub>t</sub>= shortening of the rubber buffer under rated torque transmission.

f<sub>t</sub>= Stauchung des Gummipuffers unter Nennlast.

f<sub>t</sub>= variation dimensionnelle du tampon de caoutchouc antivibrante.



### Flange

Ai riduttori può essere applicata una flangia in uscita che può assumere varie configurazioni (A,B,C) in base alle dimensioni. È un accessorio fornito a richiesta e le caratteristiche dei tre tipi di flange applicabili sono riportate nella tabella (B21).

### Flanges

An output flange can be applied to gearboxes. Different configurations (A,B,C) according to dimensions are available. This is an optional accessory. The characteristics of the three applicable flanges are shown in the table (B21).

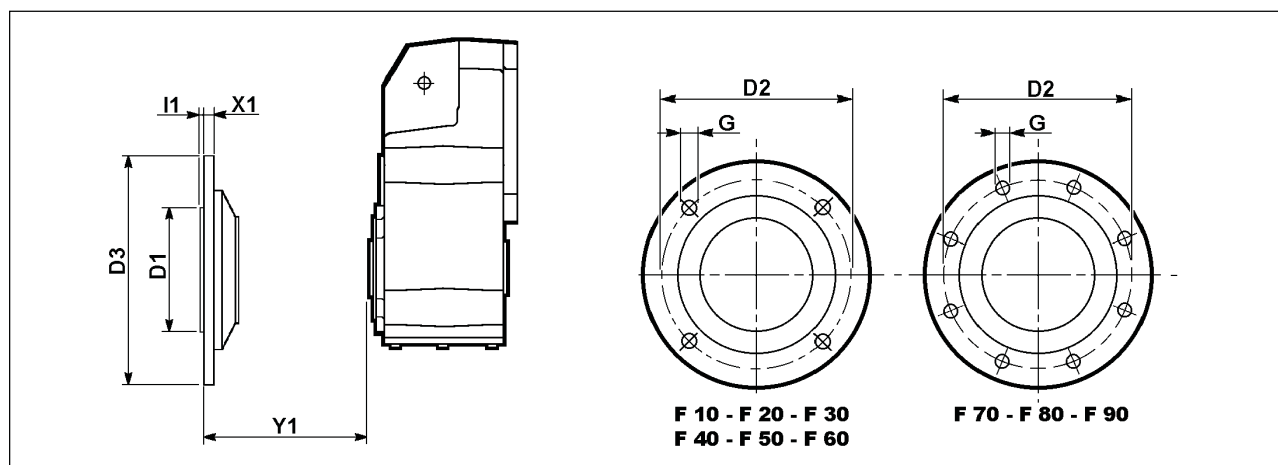
### Flansche

Auf dem Ausgang der Untersetzungsgetriebe kann ein Flansch montiert werden, der je nach Abmessungen verschiedene Baugrößen (A,B,C) haben kann. Es handelt sich dabei um ein Zubehörteil, das auf Verlangen geliefert wird, die Abmessungen der drei Flanschtypen werden in der Tabelle B21 angegeben.

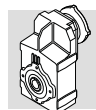
### Brides

Les réducteurs peuvent être dotés à la sortie d'une bride, qui peut présenter différentes configurations (A,B,C) selon les dimensions. Cet accessoire est fourni sur demande. Les caractéristiques de trois types de bride sont indiquées dans le tableau (B21).

(B21)



		D1	D2	D3	G	I1	X1	Y1
F 10	FA	110	130	160	9	3	10	31.5
	FB	130	165	200	11	3.5	11	31.5
	FC	180	215	250	14	4	13	31.5
F 20	FA	110	130	160	9	3	10	36
	FB	130	165	200	11	3.5	11	36
	FC	180	215	250	14	4	13	36
F 30	FA	180	215	250	14	4	13	33
	FB	230	265	300	14	4	16	33
F 40	FA	180	215	250	14	4	13	32.5
	FB	230	265	300	14	4	16	32.5
	FC	250	300	350	18	5	18	32.5
F 50	FA	230	265	300	14	4	13	46.5
	FB	250	300	350	18	5	18	46.5
	FC	300	350	400	18	5	20	46.5
F 60	FA	230	265	300	14	4	13	45
	FB	250	300	350	18	5	18	45
	FC	300	350	400	18	5	20	45
F 70	FA	350	400	450	18	5	22	67.5
	FB	450	500	550	18	5	24	67.5
F 80	FA	350	400	450	18	5	22	70
	FB	450	500	550	18	5	24	70
F 90	FA	450	500	550	18	5	24	74



**Albero lento sporgente**

**Output shaft extension**

**Herausragende Aufsteckabtriebswelle**

**Arbre lent saillant**

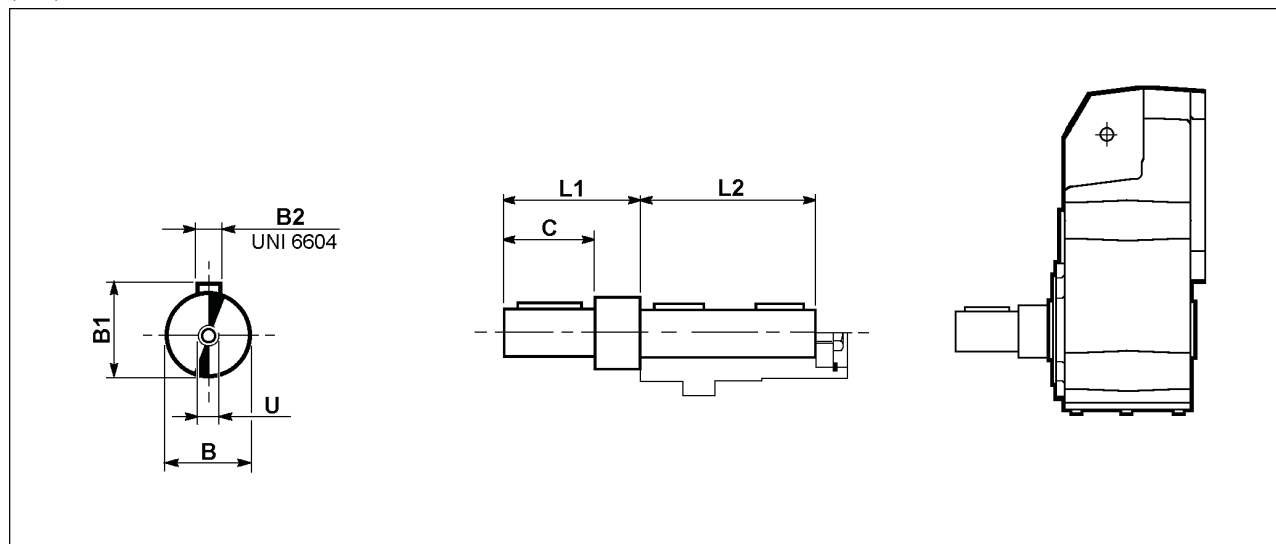
La tabella (B22) riporta le dimensioni degli alberi lenti sporgenti forniti, a richiesta, come accessori con i riduttori serie F.

The table (B22) shows the dimensions of the output shaft extensions which are supplied, on request, as accessories to the F series gearboxes.

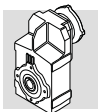
In der Tabelle (B22) werden die Abmessungen der Aufsteckabtriebswelle angegeben, die auf Verlangen als Zubehörteile mit den Untersetzungsgetrieben der Serie F geliefert werden

Le tableau (B22) indique les dimensions des arbres lents saillants fournis, sur demande, comme accessoires avec les réducteurs de la série F.

(B22)



	<b>B h6</b>	<b>B1</b>	<b>B2</b>	<b>C</b>	<b>L1</b>	<b>L2</b>	<b>U</b>
<b>F 10</b>	25	28	8	45	76.5	87.5	M8
<b>F 20</b>	30	33	8	60	96	100	M10
<b>F 30</b>	35	38	10	60	93	104	M10
<b>F 40</b>	40	43	12	80	112.5	118.5	M12
<b>F 50</b>	50	53.5	14	100	146.5	139.5	M16
<b>F 60</b>	60	64	18	120	165	180	M16
<b>F 70</b>	80	85	22	130	197.5	229.5	M20
<b>F 80</b>	90	95	25	170	240	272	M20
<b>F 90</b>	100	106	28	210	284	333	M24



### 32 - PERNO MACCHINA

Nel realizzare l'albero condotto che si accoppierà con il riduttore consigliamo di utilizzare acciaio di buona qualità e di realizzare le dimensioni come suggerito nello schema seguente. Sugeriamo inoltre di completare il montaggio con un dispositivo che realizza il bloccaggio assiale dell'albero (non illustrato). Il numero e la dimensione del/dei relativi fori filettati all'estremità dell'albero saranno determinati dalle diverse esigenze applicative.

### 32 - CUSTOMER' SHAFT

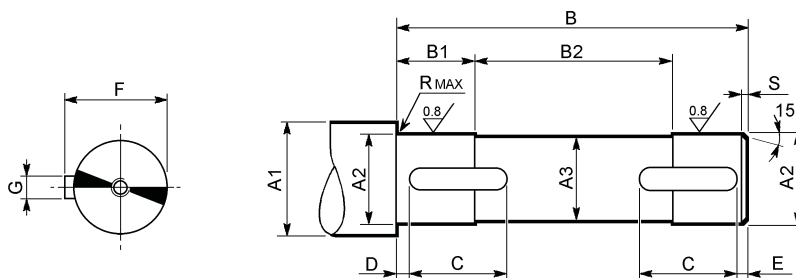
*Pivot of driven equipment should be made from high grade alloy steel. Table below shows recommended dimensions for the Customer to consider when designing mating shaft. A device retaining the shaft axially is also recommended (not shown). The number and size of relative tapped holes at shaft end depend on application requirements.*


### 32 - MASCHINACHSE

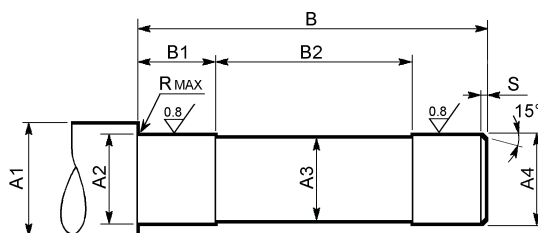
Für die mit dem Getriebe verbundene Antriebswelle, wird empfohlen, hochwertigen Stahl zu verwenden und die im folgenden Schema enthaltenen Abmessungen zu beachten. Es wird außerdem empfohlen, die Montage mit Hilfe einer Vorrichtung, die die Welle axial blockiert (nicht abgebildet), vorzunehmen. Die Anzahl und die Abmessung des/der Gewindebohrungen an den Wellenenden werden den Einsatzbedingungen gemäß festgelegt.

### 32 - ARBRE MACHINE

Pour la réalisation de l'arbre mené d'accouplement avec le réducteur, nous conseillons d'utiliser de l'acier de bonne qualité et de respecter les dimensions indiquées sur le schéma suivant. Il est recommandé de compléter le montage par un dispositif de blocage axial de l'arbre (non illustré). Le nombre et les dimensions de(s) l'orifice(s) fileté(s) correspondant(s) à l'extrémité de l'arbre sont déterminés par les différentes exigences d'application.



	A1	A2	A3	B	B1	B2	C	D	E	F	G	R	S	 UNI 6604
<b>F 10</b>	≥ 35	30 h7	29	79	15.5	48	20	2	2	33	8 h9	0.5	1.5	8x7x20 A 8x7x20 A
<b>F 20</b>	≥ 42	35 h7	34	99	18	63	22	2	2	38	10 h9	0.5	1.5	10x8x22 A 8x7x22 A
<b>F 30</b>	≥ 47	40 h7	39	104	28	48	30	2	2	43	12 h9	0.5	1.5	12x8x30 A 10x8x30 A
<b>F 40</b>	≥ 52	45 h7	44	118	27.5	63	45	2.5	2.5	49.5	14 h9	1	2.0	14x9x45 A 12x8x45 A
<b>F 50</b>	≥ 63	55 h7	54	139	33	73	50	2.5	2.5	59	16 h9	1	2.0	16x10x50 A 14x9x50 A
<b>F 60</b>	≥ 68	60 h7	59	180	38	104	70	2.5	2.5	74.5	20 h9	1	2.0	20x12x70 A 18x11x70 A
<b>F 70</b>	≥ 89	80 h7	79	229	58	113	75	3	3	85	22 h9	2.5	2.5	22x14x75 A 20x12x75 A
<b>F 80</b>	≥ 99	90 h7	89	272	78	116	100	3	3	95	25 h9	2.5	2.5	25x14x100 A 22x14x100 A
<b>F 90</b>	≥ 111	100 h7	99	333	87.5	158	110	3	3	106	28 h9	2.5	2.5	28x16x110 A 25x14x110 A



	A1	A2	A3	A4	B	B1	B2	R	S
<b>F 10</b>	≥ 36	27 h7	24	25 h6	138	34	70	0.5	1.5
<b>F 20</b>	≥ 42	32 h7	29	30 h6	160	38	84	0.5	1.5
<b>F 30</b>	≥ 50	38 h7	35	36 h6	155	40	73	1	2
<b>F 40</b>	≥ 58	44 h7	41	42 h6	177	46.5	82	1	2
<b>F 50</b>	≥ 68	54 h7	51	52 g6	201	48	91	1	2
<b>F 60</b>	≥ 84	67 h7	64	65 g6	248	53	133	1.5	2
<b>F 70</b>	≥ 104	82 h7	79	80 g6	308	78	140	2.5	2.5
<b>F 80</b>	≥ 114	92 h7	89	90 g6	365	88	177	2.5	2.5
<b>F 90</b>	≥ 126	102 h7	99	100 g6	429.5	98	221.5	2.5	2.5