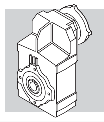
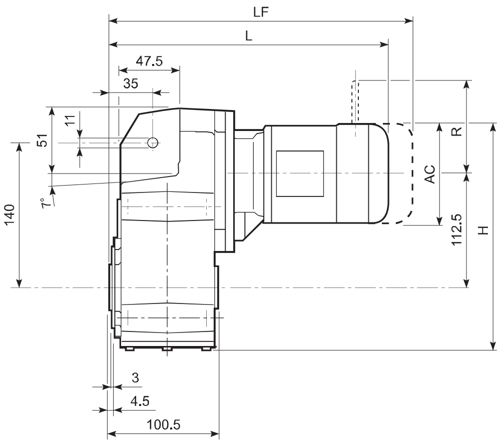
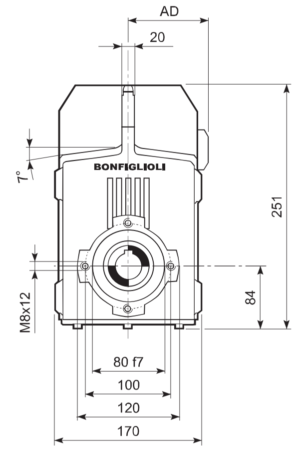


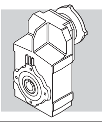
62 DIMENSIONES

F 10...M/ME

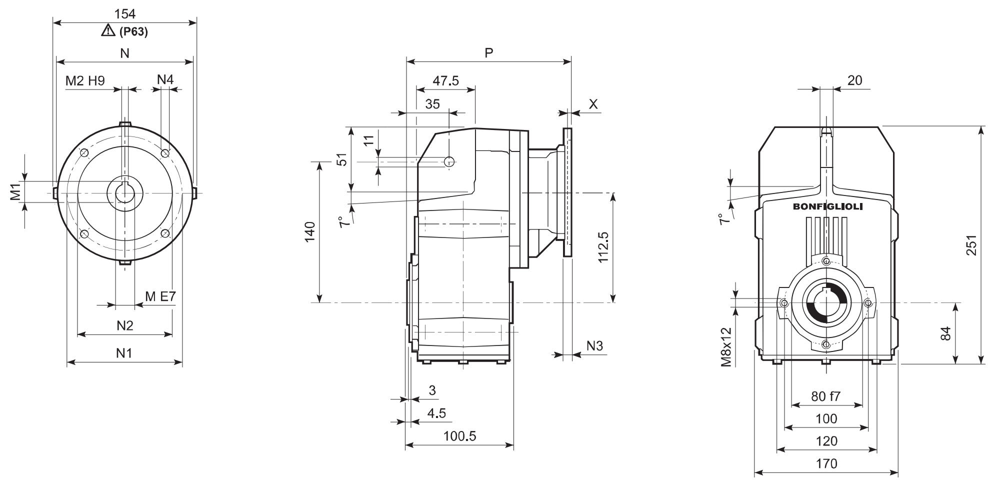




								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
F 10 2	**S05**	**M05**	121	220.5	311.5	95	12	377.5	13	96	122	116	95
F 10 2	**S1**	**M1**	138	265.5	340.5	108	14	401.5	17	103	135	124	108
F 10 2	**S2**	**ME2S**	156	274.5	369.5	119	18	—	—	—	—	—	—
F 10 2	**S3**	**ME3S**	195	294	412.5	142	22	—	—	—	—	—	—
F 10 2	**S3**	**ME3L**	195	294	444.5	142	24	—	—	—	—	—	—

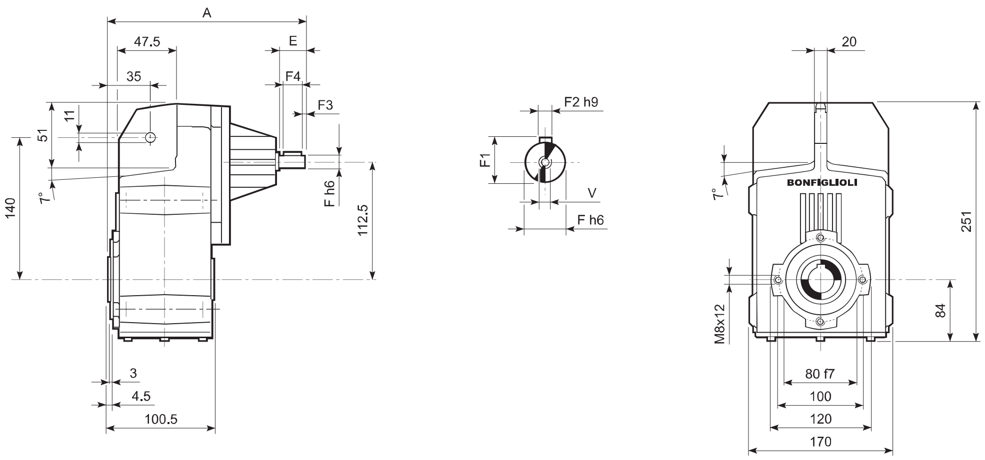


F 10...P(IEC)

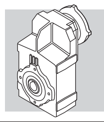


		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 10 2	**P63**	11	12.8	4	140	115	95	—	M8x19	4	185.5	8
F 10 2	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	185.5	8
F 10 2	**P80**	19	21.8	6	200	165	130	—	M10x12	4	205	9
F 10 2	**P90**	24	27.3	8	200	165	130	—	M10x12	4	205	9
F 10 2	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	215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

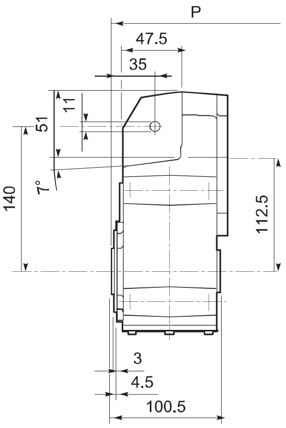
F 10...HS

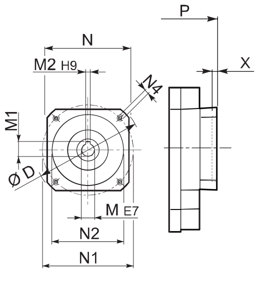


		A	E	F	F1	F2	F3	F4	V	Kg
F 10 2	**HS**	192	40	16	18	5	2.5	35	M6x16	7.5

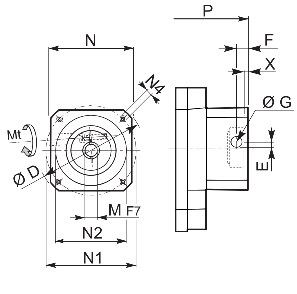


F 10...SK / SC





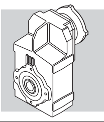
SK...



SC...

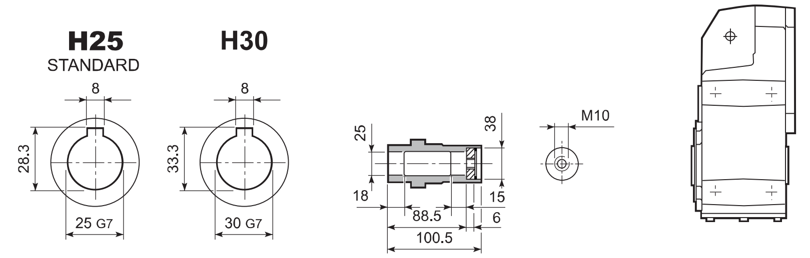
		D	M	M1	M2	N	N1	N2	N4	X	P	Kg
F 10 2	**SK 60A**	102	11	12.8	4	82	75	60	M5x10	3.5	157	8
F 10 2	**SK 60B**	102	14	16.3	5	82	75	60	M5x10	4	164	8
F 10 2	**SK 80A**	115	14	16.3	5	90	100	80	M6x12	4	164	8
F 10 2	**SK 80C**	120	19	21.8	6	96	100	80	M6x12	4	205	9
F 10 2	**SK 95A**	130	14	16.3	5	102	115	95	M8x12	4	205	9
F 10 2	**SK 95B**	130	19	21.8	6	102	115	95	M8x12	4	205	9
F 10 2	**SK 95C**	130	24	27.3	8	102	115	95	M8x12	4	205	9
F 10 2	**SK 110A**	150	19	21.8	6	120	130	110	M8x12	5	205	9
F 10 2	**SK 110B**	150	24	27.3	8	120	130	110	M8x12	5	205	9

			Mt	D	E	F	G	M	N	N1	N2	N4	X	P	Kg
F 10 2	**SC 60A**	M6	15 Nm	102	7	12.5	12.5	11	82	75	60	M5x10	4	184	8
F 10 2	**SC 60B**	M6	15 Nm	102	7	12.5	12.5	14	82	75	60	M5x10	4	184	9
F 10 2	**SC 80A**	M6	15 Nm	115	6	12.5	12.5	14	90	100	80	M6x12	4	184	9
F 10 2	**SC 80C**	M6	15 Nm	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	228.5	10
F 10 2	**SC 95A**	M6	15 Nm	130	16.5	15	17.75	14	102	115	95	M8x16	4	228.5	10
F 10 2	**SC 95B**	M6	15 Nm	130	16.5	15	17.75	19	102	115	95	M8x16	4	228.5	10
F 10 2	**SC 95C**	M6	15 Nm	130	16.5	15	17.75	24	102	115	95	M8x16	4	228.5	10
F 10 2	**SC 110A**	M6	15 Nm	150	16.5	16	17.75	19	120	130	110	M8x16	5	228.5	11
F 10 2	**SC 110B**	M6	15 Nm	150	16.5	16	17.75	24	120	130	110	M8x16	5	228.5	11

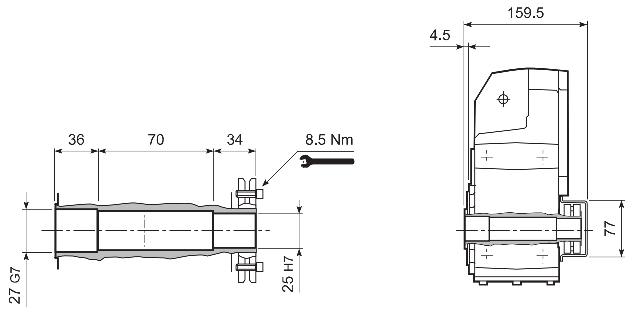


F 10

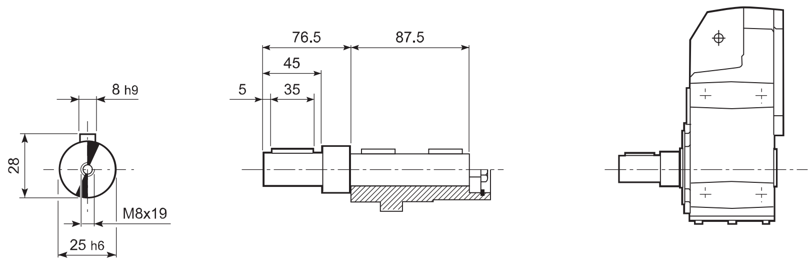
F 10...H



F 10...S

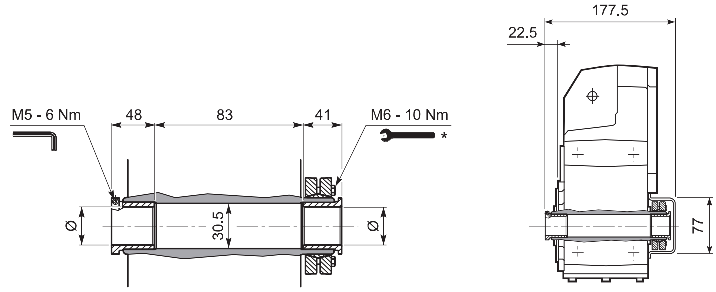


F 10...R

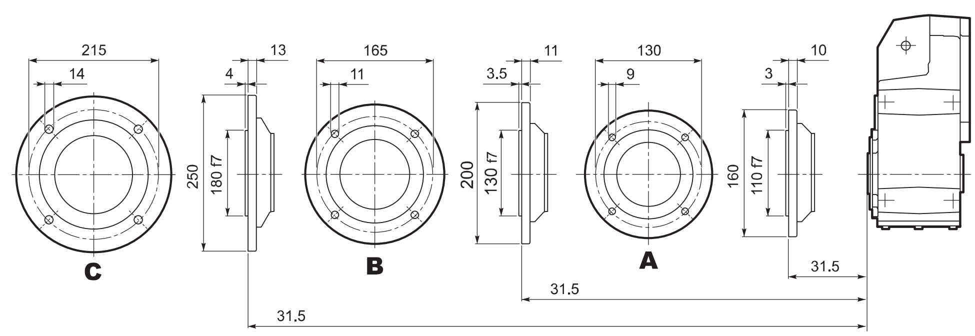


F 10...QF

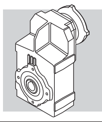
	Ø
QF25	25
QF30	30



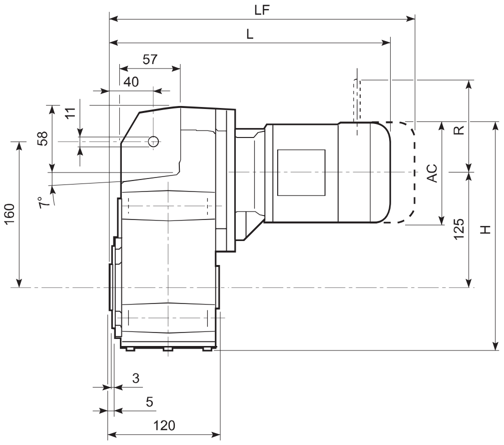
F 10...F...

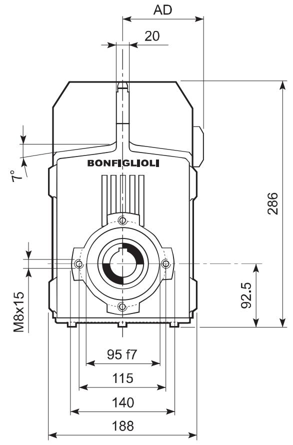


* Atenerse a las INSTRUCIONES DE MONTAJE suministradas con el reductor.

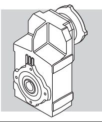


F 20...M/ME

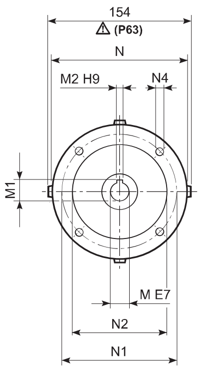


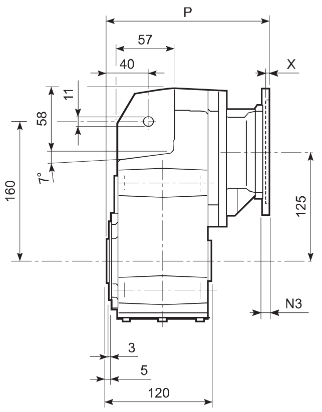


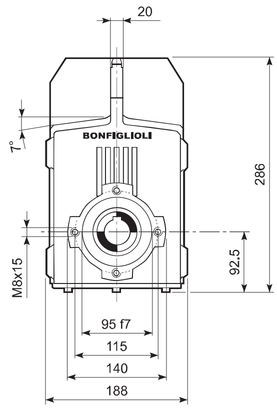
								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
F 20 2	S05	M05	121	278.2	323.5	95	15	389.5	17	96	122	116	95
F 20 2	S1	M1	138	286.7	352.5	108	17	413.5	20	103	135	124	108
F 20 2	S2	ME2S	156	295.7	381.5	119	21	—	—	—	—	—	—
F 20 2	S3	ME3S	195	315.2	424.5	142	26	—	—	—	—	—	—
F 20 2	S3	ME3L	195	315.2	456.5	142	33	—	—	—	—	—	—
F 20 3	S05	M05	121	278.2	379	95	17	445	18	96	122	116	95
F 20 3	S1	M1	138	286.7	408	108	19	469	21	103	135	124	108
F 20 3	S2	ME2S	156	295.7	437	119	22	—	—	—	—	—	—
F 20 3	S3	ME3S	195	315.2	480	142	27	—	—	—	—	—	—
F 20 3	S3	ME3L	195	315.2	512	142	34	—	—	—	—	—	—



F 20...P(IEC)

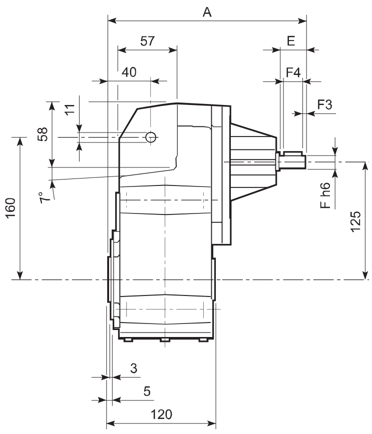


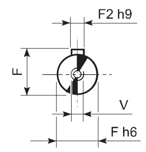


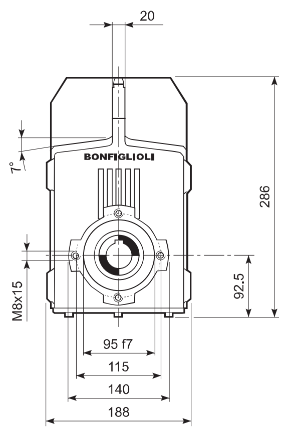


		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 20 2	**P63**	11	12.8	4	140	115	95	—	M8x19	4	197.5	12
F 20 2	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	197.5	12
F 20 2	**P80**	19	21.8	6	200	165	130	—	M10x12	4	217	13
F 20 2	**P90**	24	27.3	8	200	165	130	—	M10x12	4	217	12
F 20 2	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5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

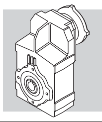
F 20...HS



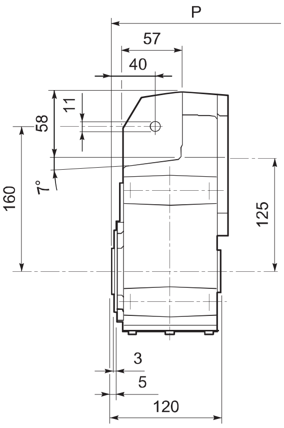


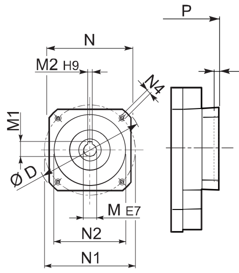


		A	E	F	F1	F2	F3	F4	V	Kg
F 20 2	**HS**	247.5	40	19	21.5	6	2.5	35	M6x16	11.5
F 20 3		260	40	16	18	5	2.5	35	M6x16	12.4

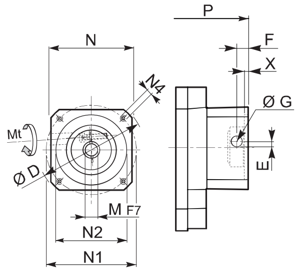


F 20...SK / SC





SK...



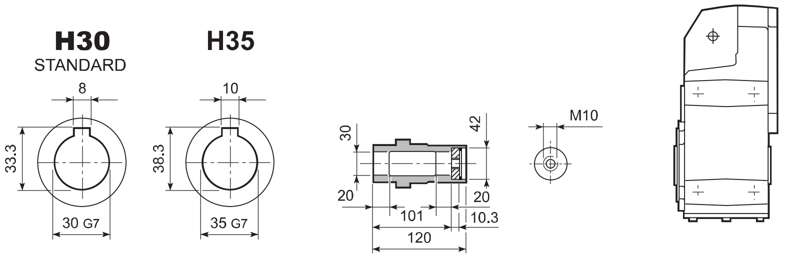
SC...

											2x		3x	
		D	M	M1	M2	N	N1	N2	N4	X	P	Kg	P	Kg
F 20 2/3	SK 60A	102	11	12.8	4	82	75	60	M5x10	3.5	169	11	224.5	12
F 20 2/3	SK 60B	102	14	16.3	5	82	75	60	M5x10	4	176	12	231.5	13
F 20 2/3	SK 80A	115	14	16.3	5	90	100	80	M6x12	4	217	12	231.5	13
F 20 2/3	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	217	13	272.5	14
F 20 2/3	SK 95A	130	14	16.3	5	102	115	95	M8x12	4	217	13	272.5	14
F 20 2/3	SK 95B	130	19	21.8	6	102	115	95	M8x12	4	217	13	272.5	14
F 20 2/3	SK 95C	130	24	27.3	8	102	115	95	M8x12	4	217	13	272.5	14
F 20 2/3	SK 110A	150	19	21.8	6	120	130	110	M8x12	5	217	13	272.5	14
F 20 2/3	SK 110B	150	24	27.3	8	120	130	110	M8x12	5	217	13	272.5	14

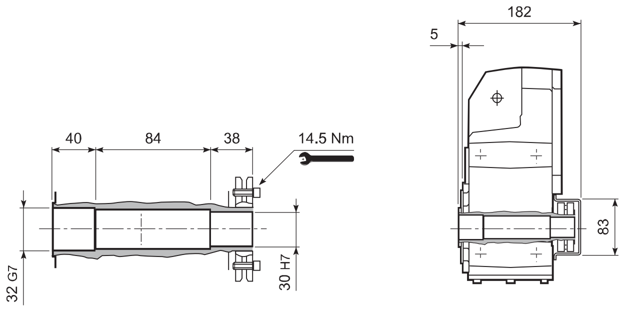
														2x		3x	
			Mt	D	E	F	G	M	N	N1	N2	N4	X	P	Kg	P	Kg
F 20 2/3	SC 60A	M6	15 Nm	102	7	12.5	12.5	11	82	75	60	M5x10	4	196	12	251.5	13
F 20 2/3	SC 60B	M6	15 Nm	102	7	12.5	12.5	14	82	75	60	M5x10	4	196	13	251.5	14
F 20 2/3	SC 80A	M6	15 Nm	115	6	12.5	12.5	14	90	100	80	M6x12	4	196	13	251.5	14
F 20 2/3	SC 80C	M6	15 Nm	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	240.5	14	296	15
F 20 2/3	SC 95A	M6	15 Nm	130	16.5	15	17.75	14	102	115	95	M8x16	4	240.5	14	296	15
F 20 2/3	SC 95B	M6	15 Nm	130	16.5	15	17.75	19	102	115	95	M8x16	4	240.5	14	296	15
F 20 2/3	SC 95C	M6	15 Nm	130	16.5	15	17.75	24	102	115	95	M8x16	4	240.5	14	296	15
F 20 2/3	SC 110A	M6	15 Nm	150	16.5	16	17.75	19	120	130	110	M8x16	5	240.5	15	296	16
F 20 2/3	SC 110B	M6	15 Nm	150	16.5	16	17.75	24	120	130	110	M8x16	5	240.5	15	296	16

F 20

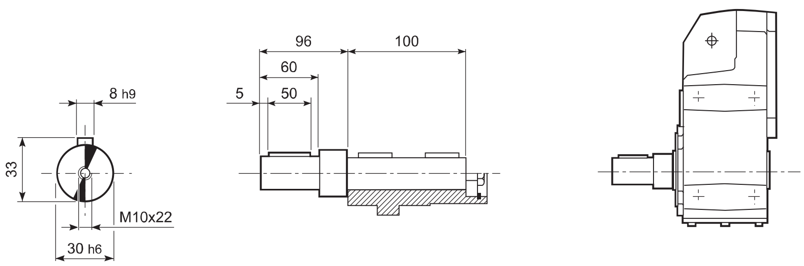
F 20...H



F 20...S

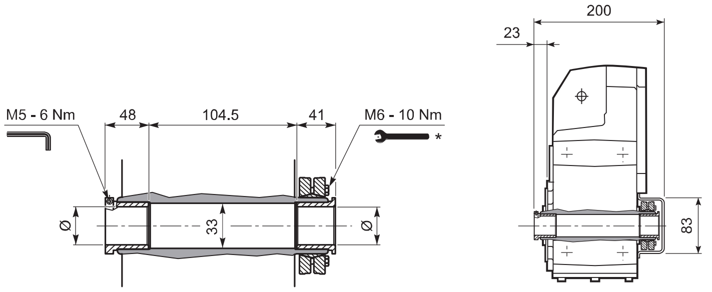


F 20...R

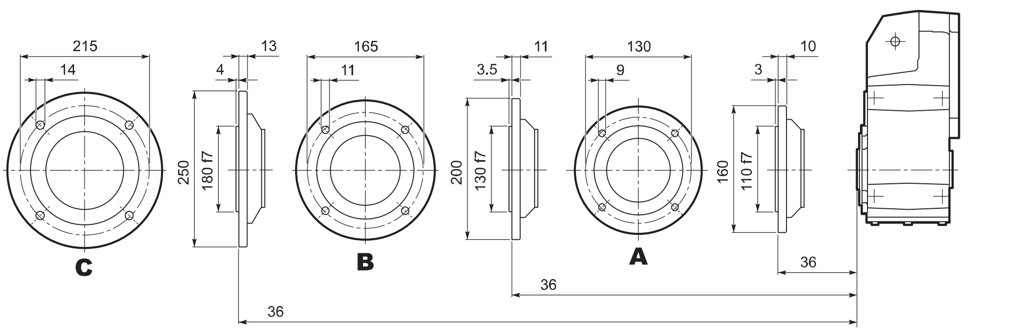


F 20...QF

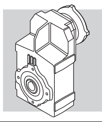
	Ø
QF25	25
QF30	30



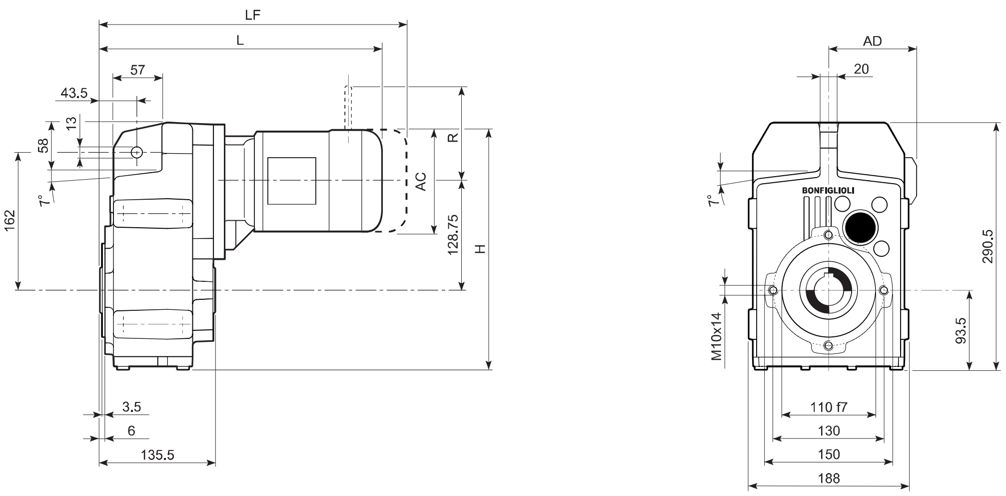
F 20...F...



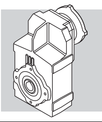
* Atenerse a las INSTRUCIONES DE MONTAJE suministradas con el reductor.



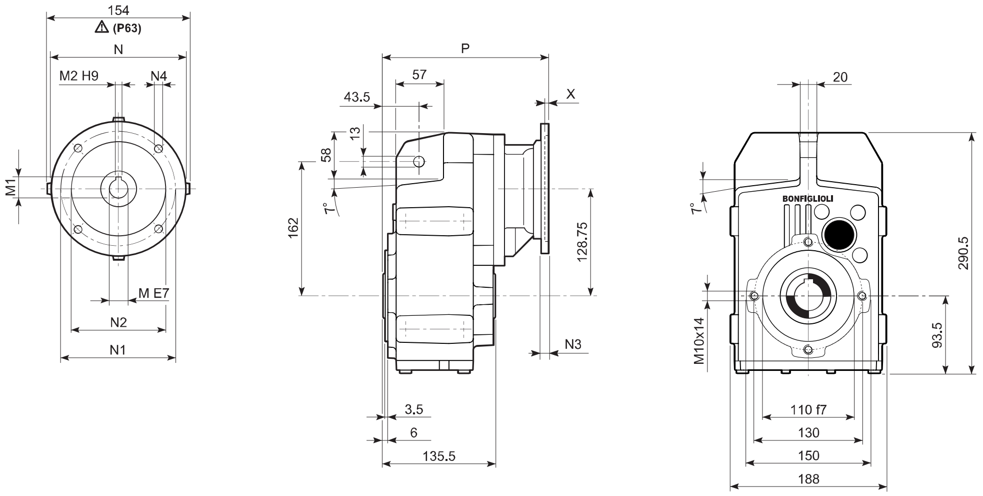
F 25...M/ME



								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
F 25 2/3	S05	M05	121	283	339	95	15	405	17	96	122	116	95
F 25 2/3	S1	M1	138	291.5	368	108	17	429	20	103	135	124	108
F 25 2/3	S2	ME2S	156	300.5	397	119	21	—	—	—	—	—	—
F 25 2/3	S3	ME3S	195	320	440	142	26	—	—	—	—	—	—
F 25 2/3	S3	ME3L	195	320	472	142	33	—	—	—	—	—	—
F 25 4	S05	M05	121	283	394.5	95	17	460.5	18	96	122	116	95
F 25 4	S1	M1	138	291.5	423.5	108	19	484.5	21	103	135	124	108
F 25 4	S2	ME2S	156	300.5	452.5	119	22	—	—	—	—	—	—
F 25 4	S3	ME3S	195	320	495.5	142	27	—	—	—	—	—	—
F 25 4	S3	ME3L	195	320	527.5	142	34	—	—	—	—	—	—

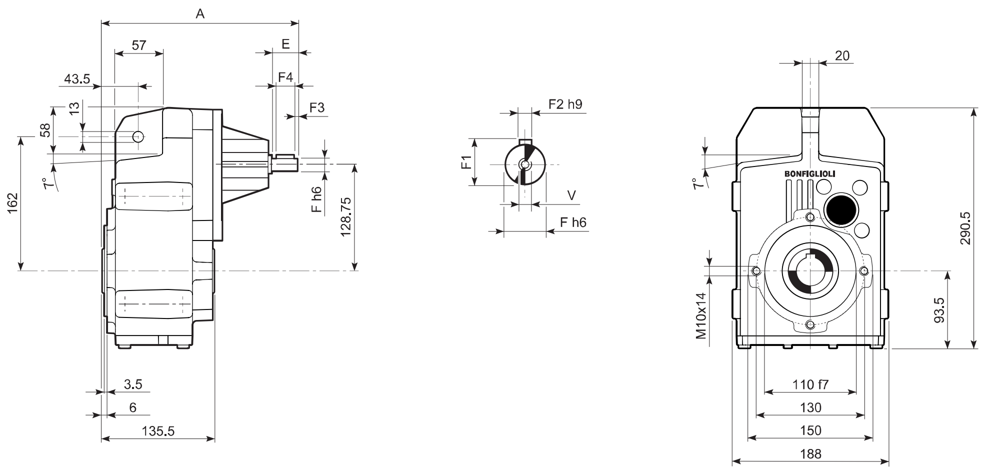


F 25...P(IEC)

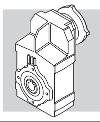


		M	M1	M2	N	N1	N2	N3	N4	X	P	
F 25 2/3	**P63**	11	12.8	4	140	115	95	—	M8x19	4	213	12
F 25 2/3	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	213	12
F 25 2/3	**P80**	19	21.8	6	200	165	130	—	M10x12	4	232.5	13
F 25 2/3	**P90**	24	27.3	8	200	165	130	—	M10x12	4	232.5	13
F 25 2/3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	242.5	16
F 25 2/3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	242.5	16
F 25 4	**P63**	11	12.8	4	140	115	95	—	M8x19	4	268.5	13
F 25 4	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	268.5	13
F 25 4	**P80**	19	21.8	6	200	165	130	—	M10x12	4	288	14
F 25 4	**P90**	24	27.3	8	200	165	130	—	M10x12	4	288	14
F 25 4	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	298	18
F 25 4	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	298	18

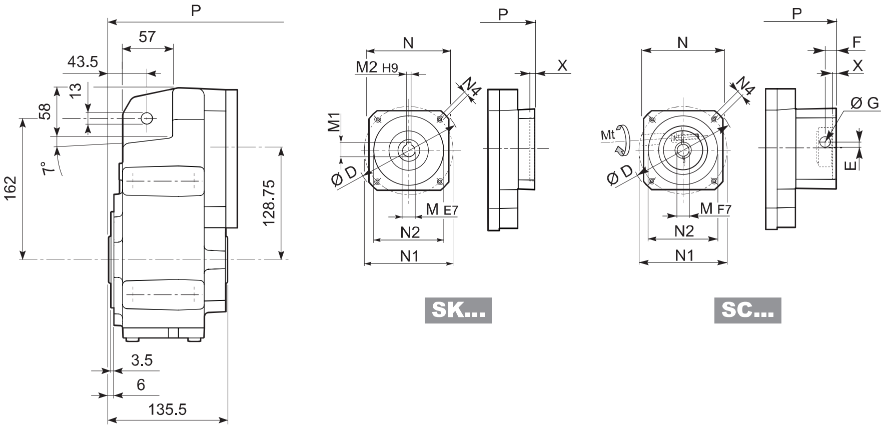
F 25...HS



		A	E	F	F1	F2	F3	F4	V	
F 25 2	**HS**	263	40	19	21.5	6	2.5	35	M6x16	11.5
F 25 3		263	40	19	21.5	6	2.5	35	M6x16	11.5
F 25 4		275.5	40	16	18	5	2.5	35	M6x16	12.5

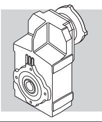


F 25...SK / SC



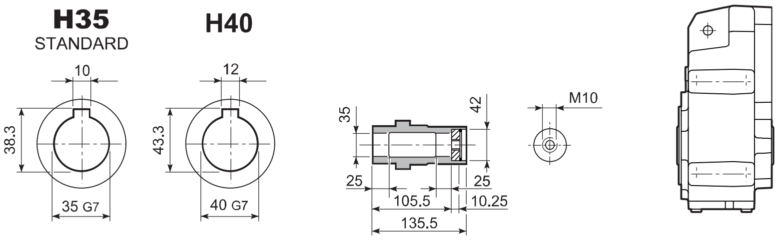
											2/3x		4x	
		D	M	M1	M2	N	N1	N2	N4	X	P	Kg	P	Kg
F 25 2/3/4	SK 60A	102	11	12.8	4	82	75	60	M5x10	3.5	184.5	11	240	12
F 25 2/3/4	SK 60B	102	14	16.3	5	82	75	60	M5x10	4	191.5	12	247	13
F 25 2/3/4	SK 80A	115	14	16.3	5	90	100	80	M6x12	4	191.5	12	247	13
F 25 2/3/4	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	232.5	13	288	14
F 25 2/3/4	SK 95A	130	14	16.3	5	102	115	95	M8x12	4	232.5	13	288	14
F 25 2/3/4	SK 95B	130	19	21.8	6	102	115	95	M8x12	4	232.5	13	288	14
F 25 2/3/4	SK 95C	130	24	27.3	8	102	115	95	M8x12	4	232.5	13	288	14
F 25 2/3/4	SK 110A	150	19	21.8	6	120	130	110	M8x12	5	232.5	13	288	14
F 25 2/3/4	SK 110B	150	24	27.3	8	120	130	110	M8x12	5	232.5	13	288	14

														2/3x		4x	
			Mt	D	E	F	G	M	N	N1	N2	N4	X	P	Kg	P	Kg
F 25 2/3/4	SC 60A	M6	15 Nm	102	7	12.5	12.5	11	82	75	60	M5x10	4	211.5	12	267	13
F 25 2/3/4	SC 60B	M6	15 Nm	102	7	12.5	12.5	14	82	75	60	M5x10	4	211.5	13	267	14
F 25 2/3/4	SC 80A	M6	15 Nm	115	6	12.5	12.5	14	90	100	80	M6x12	4	211.5	13	267	14
F 25 2/3/4	SC 80C	M6	15 Nm	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	256	14	311.5	15
F 25 2/3/4	SC 95A	M6	15 Nm	130	16.5	15	17.75	14	102	115	95	M8x16	4	256	14	311.5	15
F 25 2/3/4	SC 95B	M6	15 Nm	130	16.5	15	17.75	19	102	115	95	M8x16	4	256	14	311.5	15
F 25 2/3/4	SC 95C	M6	15 Nm	130	16.5	15	17.75	24	102	115	95	M8x16	4	256	14	311.5	15
F 25 2/3/4	SC 110A	M6	15 Nm	150	16.5	16	17.75	19	120	130	110	M8x16	5	256	15	311.5	16
F 25 2/3/4	SC 110B	M6	15 Nm	150	16.5	16	17.75	24	120	130	110	M8x16	5	256	15	311.5	16

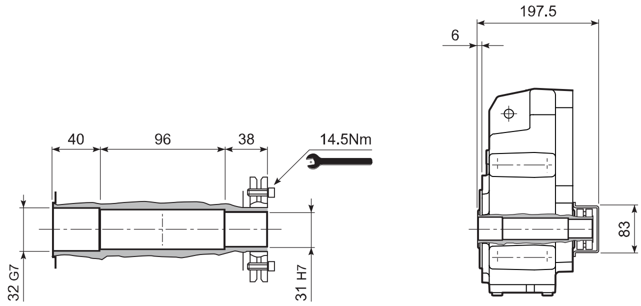


F 25

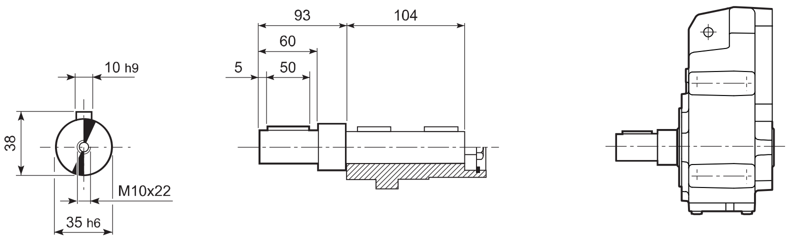
F 25...H



F 25...S

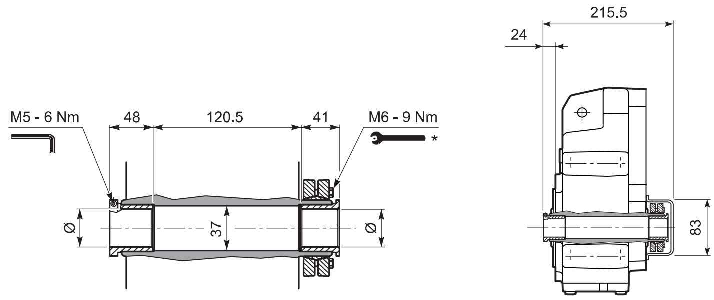


F 25...R

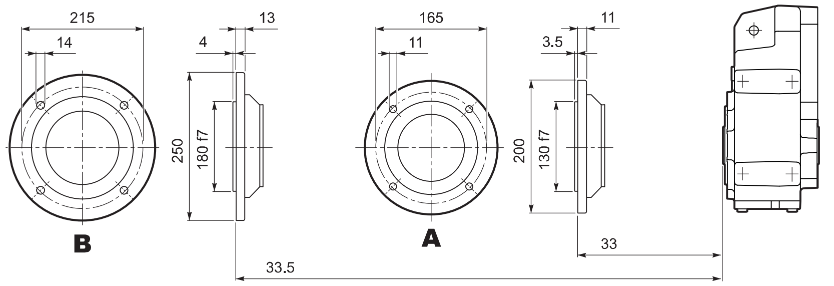


F 25...QF

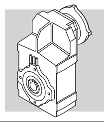
	Ø
QF30	30
QF32	32



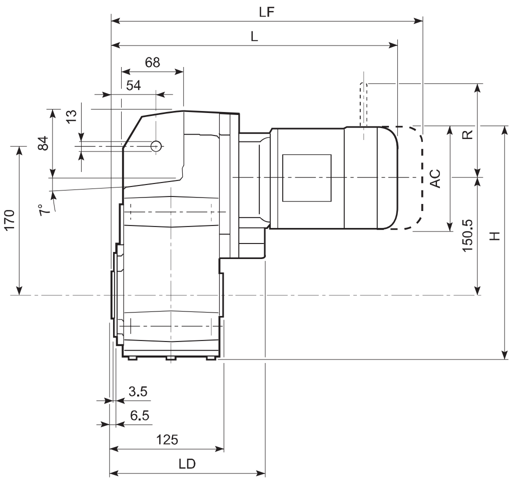
F 25...F...

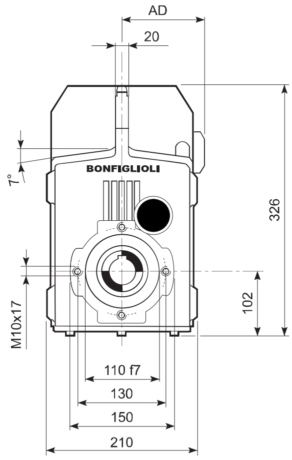


* Atenerse a las INSTRUCIONES DE MONTAJE suministradas con el reductor.

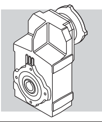


F 31...M/ME

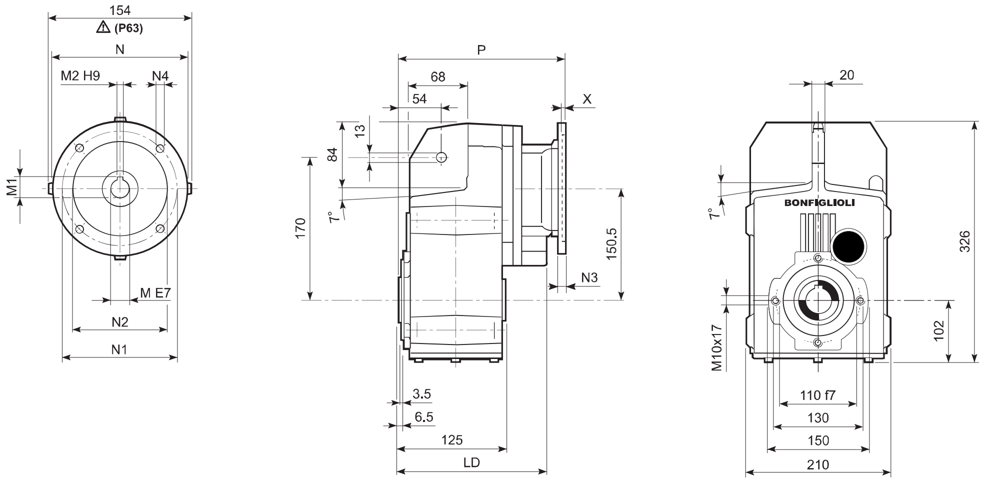




									M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
F 31 2/3	S1	M1	138	321.3	380.5	183.5	108	22	441.5	25	103	135	124	108
F 31 2/3	S2	ME2S	156	330.3	409.5	195.5	119	26	—	—	—	—	—	—
F 31 2/3	S3	ME3S	195	349.8	452.5	205.5	142	31	—	—	—	—	—	—
F 31 2/3	S3	ME3L	195	349.8	484.5	205.5	142	40	—	—	—	—	—	—
F 31 2/3	S4	ME4	258	381.3	592.5	—	193	72	—	—	—	—	—	—
F 31 2/3	S4	ME4LA	258	381.3	592.5	—	193	78	—	—	—	—	—	—
F 31 4	S05	M05	121	312.8	409	—	95	20	475	22	96	122	116	95
F 31 4	S1	M1	138	321.3	438	—	108	22	499	25	103	135	124	108
F 31 4	S2	ME2S	156	330.3	467	—	119	26	—	—	—	—	—	—
F 31 4	S3	ME3S	195	349.8	510	—	142	31	—	—	—	—	—	—
F 31 4	S3	ME3L	195	349.8	542	—	142	41	—	—	—	—	—	—

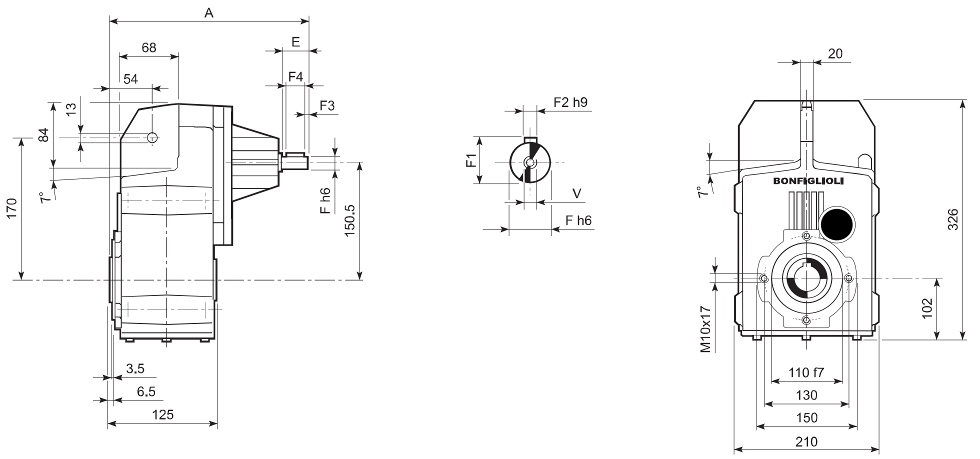


F 31...P(IEC)

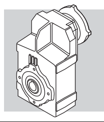


		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 31 2/3	**P63**	195.5	11	12.8	4	140	115	95	—	M8x19	4	225.5	17
F 31 2/3	**P71**	195.5	14	16.3	5	160	130	110	—	M8x16	4.5	225.5	17
F 31 2/3	**P80**	205.5	19	21.8	6	200	165	130	—	M10x12	4	245	18
F 31 2/3	**P90**	205.5	24	27.3	8	200	165	130	—	M10x12	4	245	17
F 31 2/3	**P100**	205.5	28	31.3	8	250	215	180	—	M12x16	4.5	255	21
F 31 2/3	**P112**	205.5	28	31.3	8	250	215	180	—	M12x16	4.5	255	21
F 31 2/3	**P132**	—	38	41.3	10	300	265	230	—	14	5	291.5	24
F 31 4	**P63**	—	11	12.8	4	140	115	95	—	M8x19	4	283	17
F 31 4	**P71**	—	14	16.3	5	160	130	110	—	M8x16	4.5	283	17
F 31 4	**P80**	—	19	21.8	6	200	165	130	—	M10x12	4	302.5	18
F 31 4	**P90**	—	24	27.3	8	200	165	130	—	M10x12	4	302.5	18
F 31 4	**P100**	—	28	31.3	8	250	215	180	—	M12x16	4.5	312.5	22
F 31 4	**P112**	—	28	31.3	8	250	215	180	—	M12x16	4.5	312.5	22

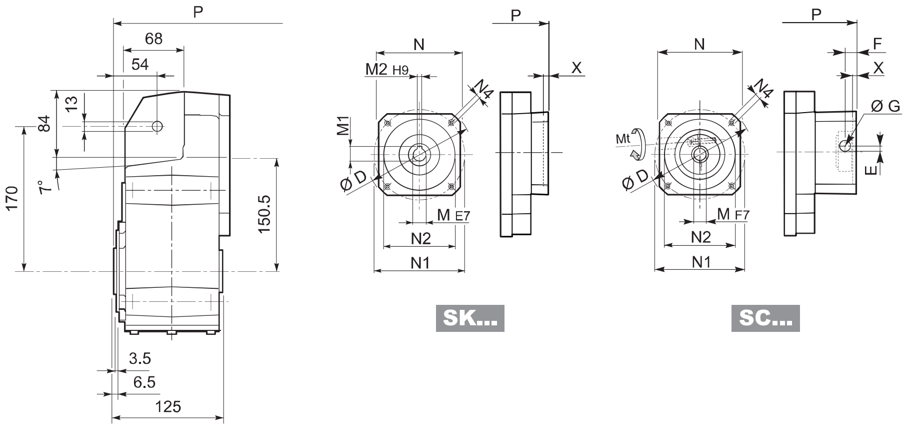
F 31...HS



		A	E	F	F1	F2	F3	F4	V	Kg
F 31 2		275.5	40	19	21.5	6	2.5	35	M6x16	16.7
F 31 3	**HS**	275.5	40	19	21.5	6	2.5	35	M6x16	16.7
F 31 4		290	40	16	18	5	2.5	35	M6x16	16.5



F 31...SK / SC

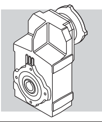


SK...

SC...

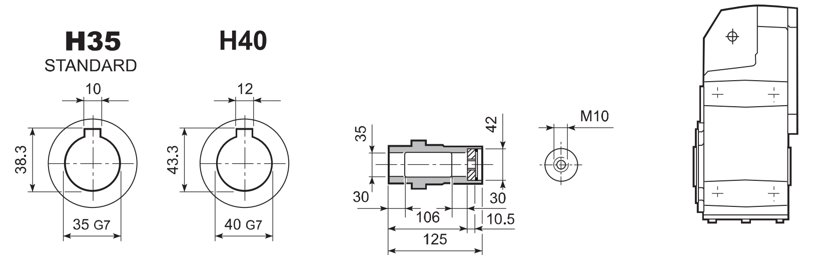
		D	M	M1	M2	N	N1	N2	N4	X	2/3x P	2/3x Kg	4x P	4x Kg
F 31 2/3/4	SK 60A	102	11	12.8	4	82	75	60	M5x10	3.5	197	16	254.5	16
F 31 2/3/4	SK 60B	102	14	16.3	5	82	75	60	M5x10	4	204	17	261.5	17
F 31 2/3/4	SK 80A	115	14	16.3	5	90	100	80	M6x12	4	204	17	261.5	17
F 31 2/3/4	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	245	18	302.5	18
F 31 2/3/4	SK 95A	130	14	16.3	5	102	115	95	M8x12	4	245	18	302.5	18
F 31 2/3/4	SK 95B	130	19	21.8	6	102	115	95	M8x12	4	245	18	302.5	18
F 31 2/3/4	SK 95C	130	24	27.3	8	102	115	95	M8x12	4	245	18	302.5	18
F 31 2/3/4	SK 110A	150	19	21.8	6	120	130	110	M8x12	5	245	18	302.5	18
F 31 2/3/4	SK 110B	150	24	27.3	8	120	130	110	M8x12	5	245	18	302.5	18
F 31 2/3	SK 130A	188	24	27.3	8	142	165	130	M10x20	5	245	18	—	—

			Mt	D	E	F	G	M	N	N1	N2	N4	X	2/3x P	2/3x Kg	4x P	4x Kg
F 31 2/3/4	SC 60A	M6	15 Nm	102	7	12.5	12.5	11	82	75	60	M5x10	4	224	17	281.5	17
F 31 2/3/4	SC 60B	M6	15 Nm	102	7	12.5	12.5	14	82	75	60	M5x10	4	224	18	281.5	18
F 31 2/3/4	SC 80A	M6	15 Nm	115	6	12.5	12.5	14	90	100	80	M6x12	4	224	18	281.5	18
F 31 2/3/4	SC 80C	M6	15 Nm	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	268.5	19	326	19
F 31 2/3/4	SC 95A	M6	15 Nm	130	16.5	15	17.75	14	102	115	95	M8x16	4	268.5	19	326	19
F 31 2/3/4	SC 95B	M6	15 Nm	130	16.5	15	17.75	19	102	115	95	M8x16	4	268.5	19	326	19
F 31 2/3/4	SC 95C	M6	15 Nm	130	16.5	15	17.75	24	102	115	95	M8x16	4	268.5	19	326	19
F 31 2/3/4	SC 110A	M6	15 Nm	150	16.5	16	17.75	19	120	130	110	M8x16	5	268.5	20	326	20
F 31 2/3/4	SC 110B	M6	15 Nm	150	16.5	16	17.75	24	120	130	110	M8x16	5	268.5	20	326	20
F 31 2/3	SC 130A	M6	15 Nm	188	19	16	17.75	24	142	165	130	M10x20	5	268.5	21	—	—

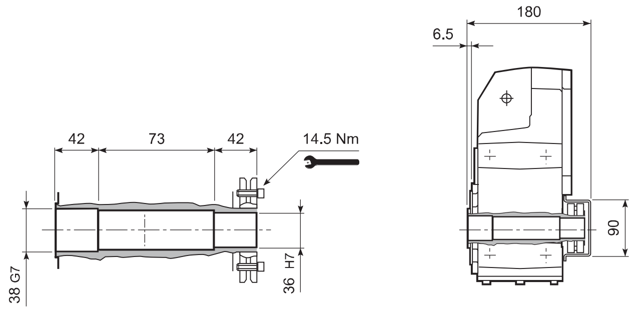


F 31

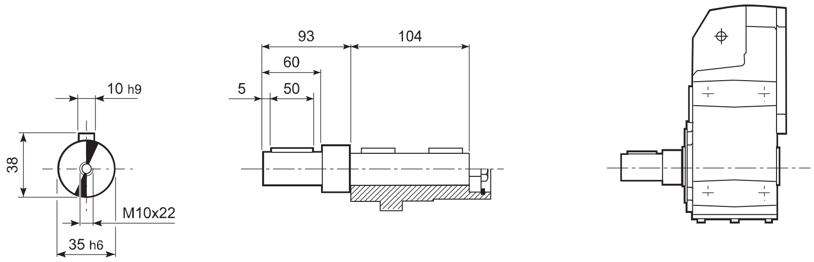
F 31...H



F 31...S

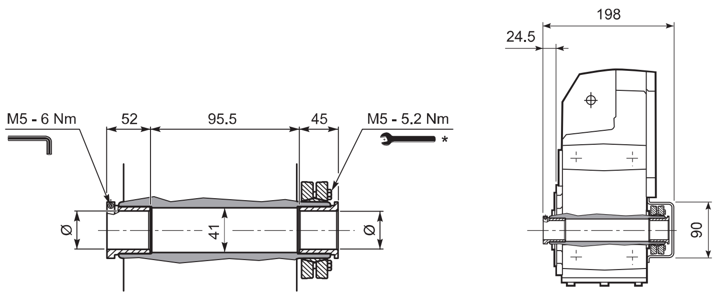


F 31...R

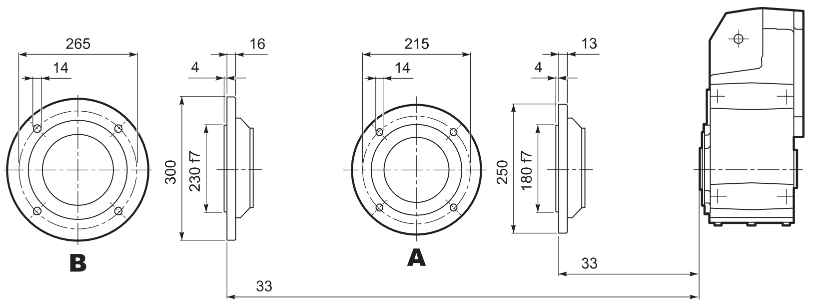


F 31...QF

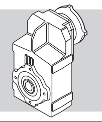
	Ø
QF35	35
QF40	40



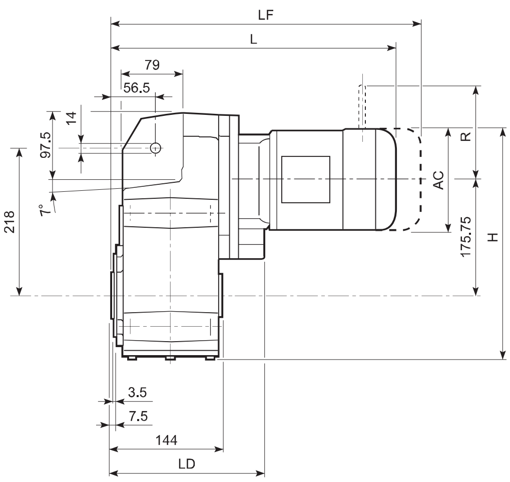
F 31...F...

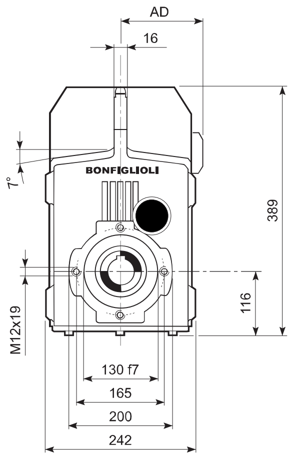


* Atenerse a las INSTRUCIONES DE MONTAJE suministradas con el reductor.

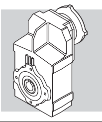


F 41...M/ME

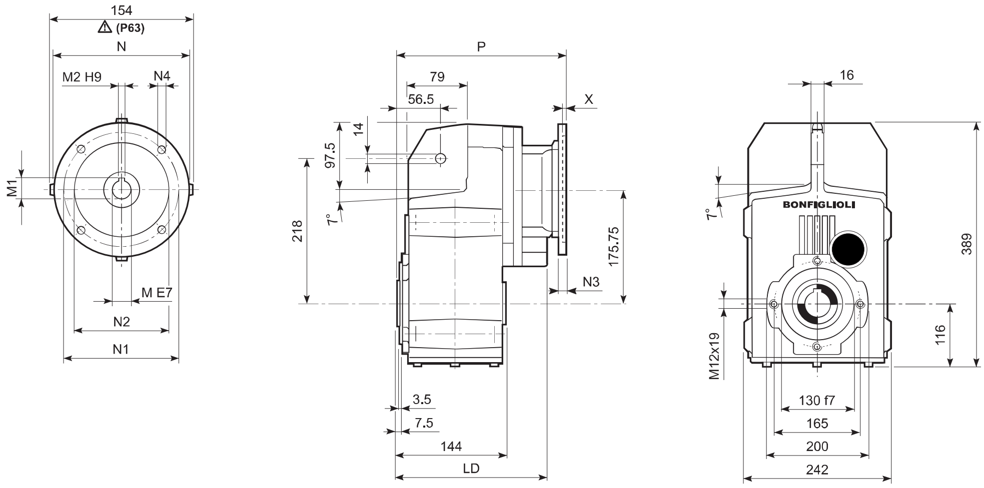




									M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
F 41 2/3	S1	M1	138	360.8	401	199.5	108	46	462	48	103	135	124	108
F 41 2/3	S2	ME2S	156	369.8	430	215	119	49	—	—	—	—	—	—
F 41 2/3	S3	ME3S	195	389.3	473	231	142	54	—	—	—	—	—	—
F 41 2/3	S3	ME3L	195	389.3	505	231	142	64	—	—	—	—	—	—
F 41 2/3	S4	ME4	258	420.8	613	—	193	96	—	—	—	—	—	—
F 41 2/3	S4	ME4LB	258	420.8	648	—	193	104	—	—	—	—	—	—
F 41 4	S05	M05	231	352.3	433.5	—	95	45	499.5	46	96	122	116	95
F 41 4	S1	M1	138	360.8	462.5	—	108	47	523.5	49	103	135	124	108
F 41 4	S2	ME2S	156	369.8	491.5	—	119	50	—	—	—	—	—	—
F 41 4	S3	ME3S	195	389.3	534.5	—	142	55	—	—	—	—	—	—
F 41 4	S3	ME3L	195	389.3	566.5	—	142	65	—	—	—	—	—	—

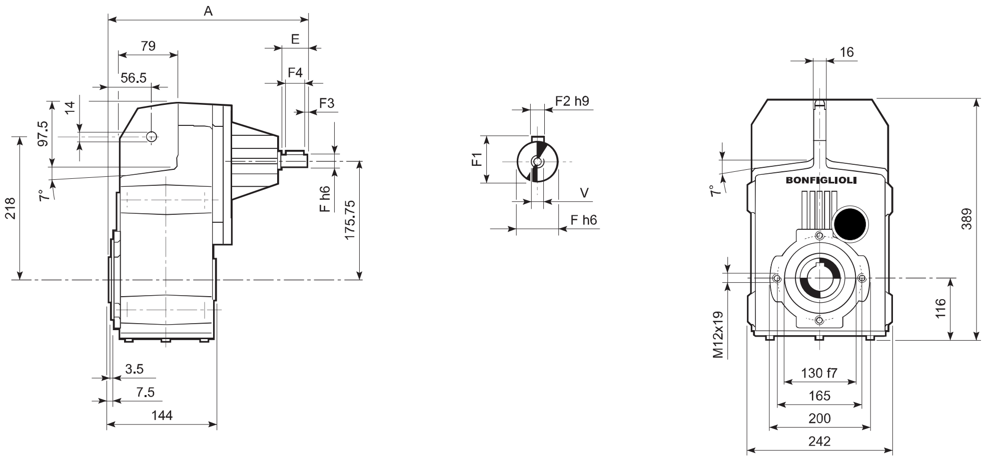


F 41...P(IEC)

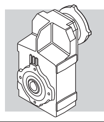


		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 41 2/3	P63	215	11	12.8	4	140	115	95	—	M8x19	4	246	42
F 41 2/3	P71	215	14	16.3	5	160	130	110	—	M8x16	4.5	246	42
F 41 2/3	P80	231	19	21.8	6	200	165	130	—	M10x12	4	265.5	43
F 41 2/3	P90	231	24	27.3	8	200	165	130	—	M10x12	4	265.5	43
F 41 2/3	P100	231	28	31.3	8	250	215	180	—	M12x16	4.5	275.5	47
F 41 2/3	P112	231	28	31.3	8	250	215	180	—	M12x16	4.5	275.5	47
F 41 2/3	P132	—	38	41.3	10	300	265	230	16	14	5	312	50
F 41 4	P63	—	11	12.8	4	140	115	95	—	M8x19	4	307.5	44
F 41 4	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	307.5	44
F 41 4	P80	—	19	21.8	6	200	165	130	—	M10x12	4	327	45
F 41 4	P90	—	24	27.3	8	200	165	130	—	M10x12	4	327	45
F 41 4	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	337	49
F 41 4	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	337	49

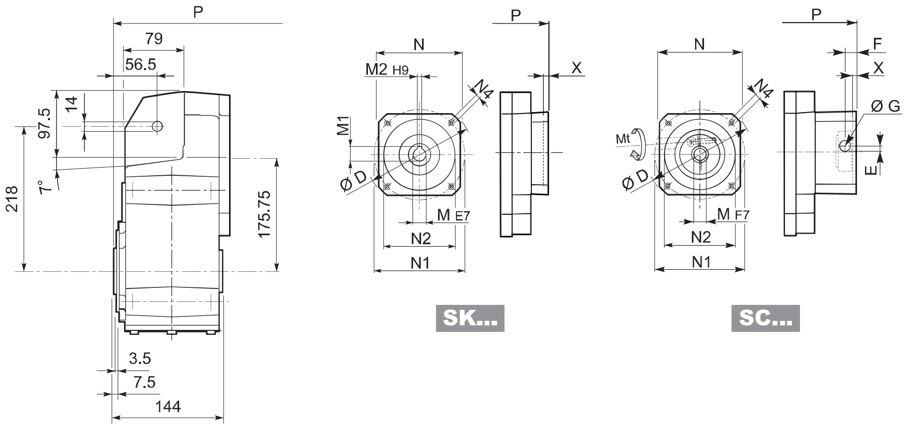
F 41...HS



		A	E	F	F1	F2	F3	F4	V	Kg
F 41 2	HS	335.5	50	24	27	8	2.5	45	M8x19	44.9
F 41 3		335.5	50	24	27	8	2.5	45	M8x19	46.4
F 41 4		357.5	40	19	21.5	6	2.5	35	M6x16	43.5

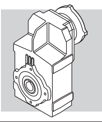


F 41...SK / SC



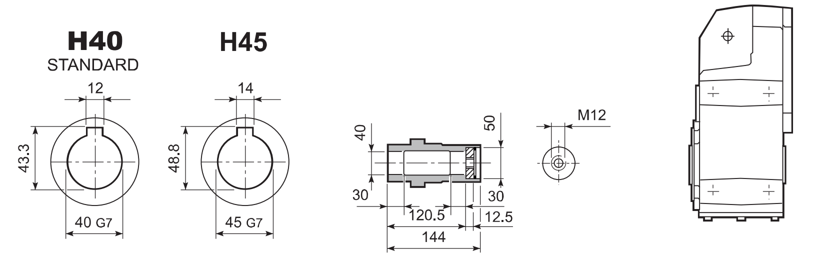
		D	M	M1	M2	N	N1	N2	N4	X	2/3x P	2/3x Kg	4x P	4x Kg
F 41 4	**SK 60A**	102	11	12.8	4	82	75	60	M5x10	3.5	—	—	279	43
F 41 4	**SK 60B**	102	14	16.3	5	82	75	60	M5x10	4	—	—	286	44
F 41 4	**SK 80A**	115	14	16.3	5	90	100	80	M6x12	4	—	—	286	44
F 41 2/3	**SK 80B**	120	14	16.3	5	96	100	80	M6x12	4	265.5	43	—	—
F 41 2/3/4	**SK 80C**	120	19	21.8	6	96	100	80	M6x12	4	265.5	43	327	45
F 41 2/3/4	**SK 95A**	130	14	16.3	5	102	115	95	M8x12	4	265.5	43	327	45
F 41 2/3/4	**SK 95B**	130	19	21.8	6	102	115	95	M8x12	4	265.5	43	327	45
F 41 2/3/4	**SK 95C**	130	24	27.3	8	102	115	95	M8x12	4	265.5	43	327	45
F 41 2/3/4	**SK 110A**	150	19	21.8	6	120	130	110	M8x12	5	265.5	43	327	45
F 41 2/3/4	**SK 110B**	150	24	27.3	8	120	130	110	M8x12	5	265.5	43	327	45
F 41 2/3	**SK 130A**	188	24	27.3	8	142	165	130	M10x20	5	265.5	45	—	—
F 41 2/3	**SK 130B**	189	32	35.3	10	160	165	130	M10x20	5	312	47	—	—
F 41 2/3	**SK 180A**	240	32	35.3	10	192	215	180	M12x19	5	312	47	—	—
F 41 2/3	**SK 180B**	240	38	41.3	10	192	215	180	M12x19	5	312	47	—	—

			Mt	D	E	F	G	M	N	N1	N2	N4	X	2/3x P	2/3x Kg	4x P	4x Kg
F 41 4	**SC 60A**	M6	15 Nm	102	7	12.5	12.5	11	82	75	60	M5x10	4	—	—	306	44
F 41 4	**SC 60B**	M6	15 Nm	102	7	12.5	12.5	14	82	75	60	M5x10	4	—	—	306	45
F 41 4	**SC 80A**	M6	15 Nm	115	6	12.5	12.5	14	90	100	80	M6x12	4	—	—	306	45
F 41 2/3	**SC 80B**	M6	15 Nm	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	289	44	—	—
F 41 2/3/4	**SC 80C**	M6	15 Nm	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	289	44	350.5	46
F 41 2/3/4	**SC 95A**	M6	15 Nm	130	16.5	15	17.75	14	102	115	95	M8x16	4	289	44	350.5	46
F 41 2/3/4	**SC 95B**	M6	15 Nm	130	16.5	15	17.75	19	102	115	95	M8x16	4	289	44	350.5	46
F 41 2/3/4	**SC 95C**	M6	15 Nm	130	16.5	15	17.75	24	102	115	95	M8x16	4	289	44	350.5	46
F 41 2/3/4	**SC 110A**	M6	15 Nm	150	16.5	16	17.75	19	120	130	110	M8x16	5	289	45	350.5	47
F 41 2/3/4	**SC 110B**	M6	15 Nm	150	16.5	16	17.75	24	120	130	110	M8x16	5	289	45	350.5	47
F 41 2/3	**SC 130A**	M6	15 Nm	188	19	16	17.75	24	142	165	130	M10x20	5	289	46	—	—
F 41 2/3	**SC 130B**	M8	36 Nm	189	20	17	17.75	32	160	165	130	M10x20	5	335	50	—	—
F 41 2/3	**SC 180A**	M8	36 Nm	240	20	17.5	17.75	32	192	215	180	M12x24	5	339	50	—	—
F 41 2/3	**SC 180B**	M8	36 Nm	240	20	17.5	17.75	38	192	215	180	M12x24	5	339	50	—	—

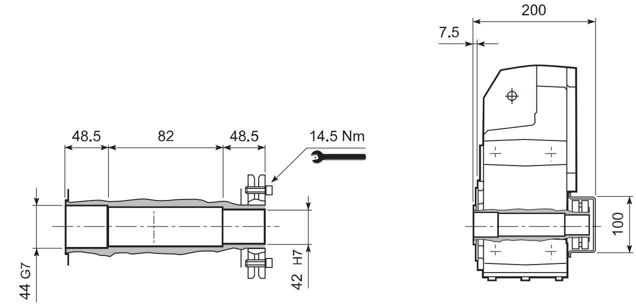


F 41

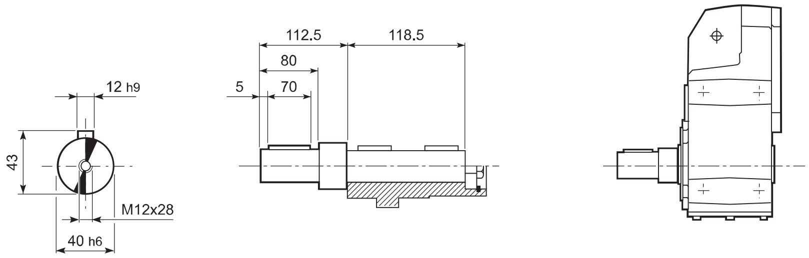
F 41...H



F 41...S

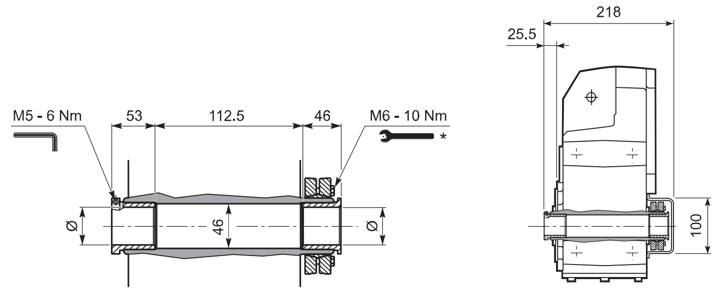


F 41...R

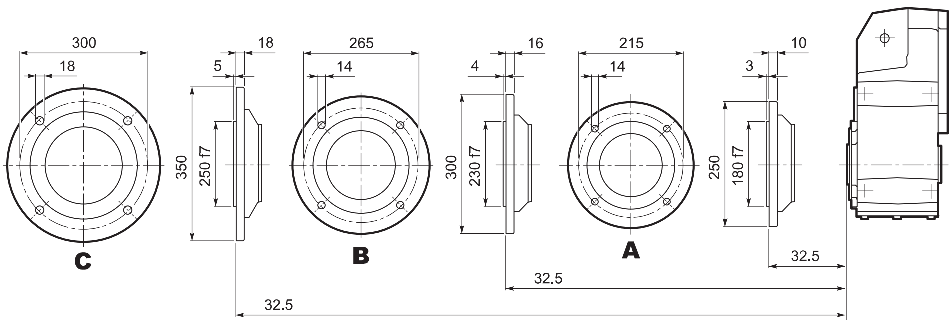


F 41...QF

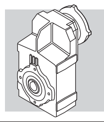
	Ø
QF42	42
QF45	45



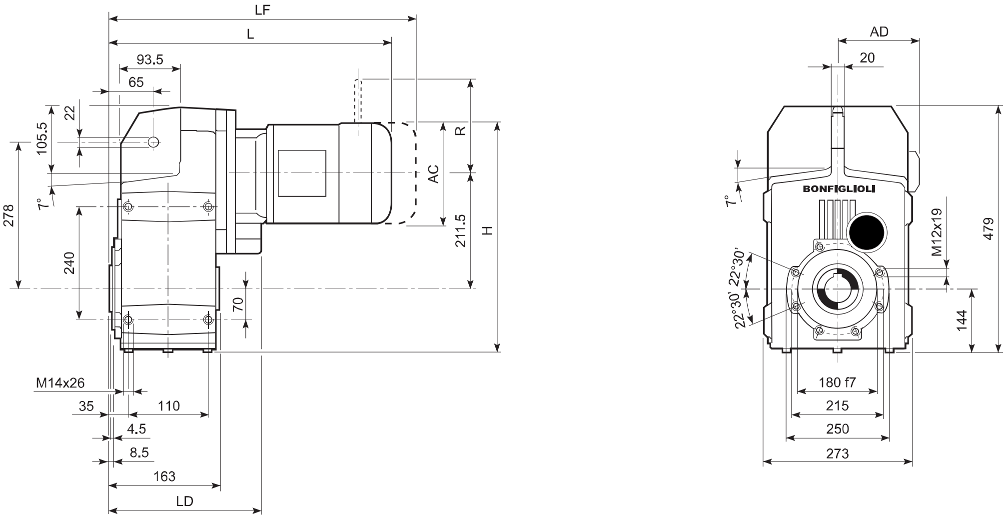
F 41...F...



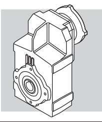
* Atenerse a las INSTRUCIONES DE MONTAJE suministradas con el reductor.



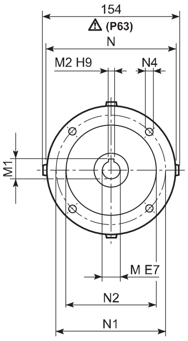
F 51...M/ME

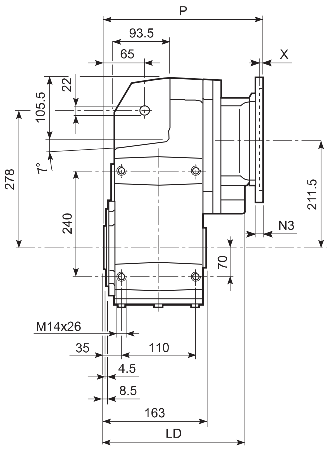


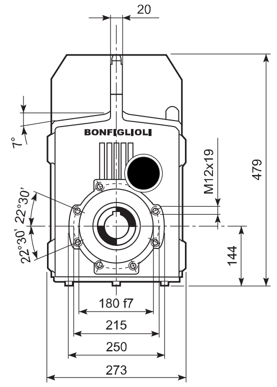
									M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
F 51 2/3	**S1**	**M1**	138	424	423	—	108	73	484	76	103	135	124	108
F 51 2/3	**S2**	**ME2S**	156	433	452	238	119	73	—	—	—	—	—	—
F 51 2/3	**S3**	**ME3S**	195	452.5	495	253	142	77	—	—	—	—	—	—
F 51 2/3	**S3**	**ME3L**	195	452.5	527	253	142	87	—	—	—	—	—	—
F 51 2/3	**S4**	**ME4**	258	484	635	238	193	119	—	—	—	—	—	—
F 51 2/3	**S4**	**ME4LB**	258	484	670	238	193	127	—	—	—	—	—	—
F 51 2/3	**S5**	**ME5S**	310	510	721.5	—	245	153	—	—	—	—	—	—
F 51 2/3	**S5**	**ME5L**	310	510	765.5	—	245	169	—	—	—	—	—	—
F 51 4	**S1**	**M1**	138	424	494.5	—	108	75	555.5	78	103	135	124	108
F 51 4	**S2**	**ME2S**	156	433	523.5	—	119	79	—	—	—	—	—	—
F 51 4	**S3**	**ME3S**	195	452.5	566.5	—	142	84	—	—	—	—	—	—
F 51 4	**S3**	**ME3L**	195	452.5	598.5	—	142	93	—	—	—	—	—	—



F 51...P(IEC)

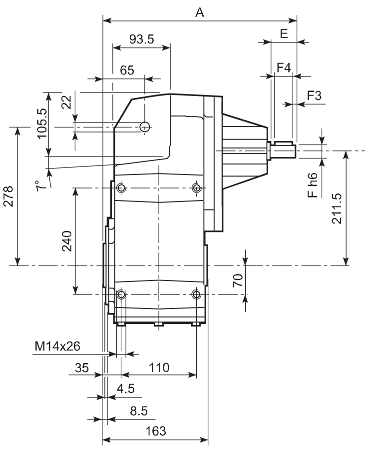


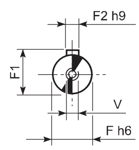


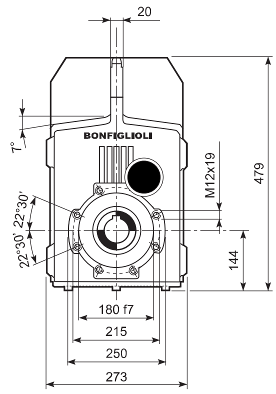


		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 51 2/3	**P63**	238	11	12.8	4	140	115	95	—	M8x19	4	268	65
F 51 2/3	**P71**	238	14	16.3	5	160	130	110	—	M8x16	4.5	268	65
F 51 2/3	**P80**	253	19	21.8	6	200	165	130	—	M10x12	4	287.5	67
F 51 2/3	**P90**	253	24	27.3	8	200	165	130	—	M10x12	4	287.5	67
F 51 2/3	**P100**	238	28	31.3	8	250	215	180	—	M12x16	4.5	297.5	71
F 51 2/3	**P112**	238	28	31.3	8	250	215	180	—	M12x16	4.5	297.5	71
F 51 2/3	**P132**	238	38	41.3	10	300	265	230	16	14	5	334	74
F 51 2/3	**P160**	—	42	45.3	12	350	300	250	23	18	5.5	384.5	78
F 51 2/3	**P180**	—	48	51.8	14	350	300	250	23	18	5.5	384.5	78
F 51 4	**P63**	—	11	12.8	4	140	115	95	—	M8x19	4	339.5	70
F 51 4	**P71**	—	14	16.3	5	160	130	110	—	M8x16	4.5	339.5	70
F 51 4	**P80**	—	19	21.8	6	200	165	130	—	M10x12	4	359	71
F 51 4	**P90**	—	24	27.3	8	200	165	130	—	M10x12	4	359	71
F 51 4	**P100**	—	28	31.3	8	250	215	180	—	M12x16	4.5	369	75
F 51 4	**P112**	—	28	31.3	8	250	215	180	—	M12x16	4.5	369	75
F 51 4	**P132**	—	38	41.3	10	300	265	230	16	14	5	405.5	78

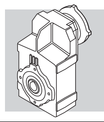
F 51...HS



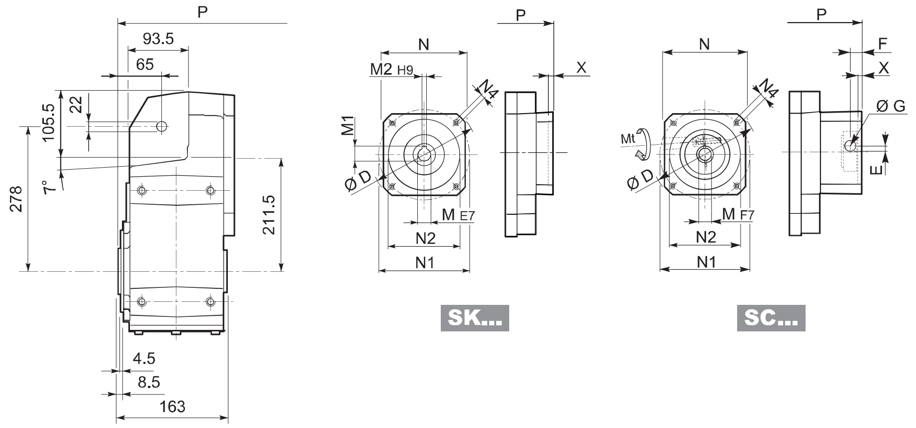




		A	E	F	F1	F2	F3	F4	V	Kg
F 51 2	**HS**	357.5	50	24	27	8	2.5	45	M8x19	65
F 51 3		357.5	50	24	27	8	2.5	45	M8x19	68
F 51 4		389.5	40	19	21.5	6	2.5	35	M6x16	70

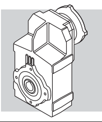


F 51...SK / SC



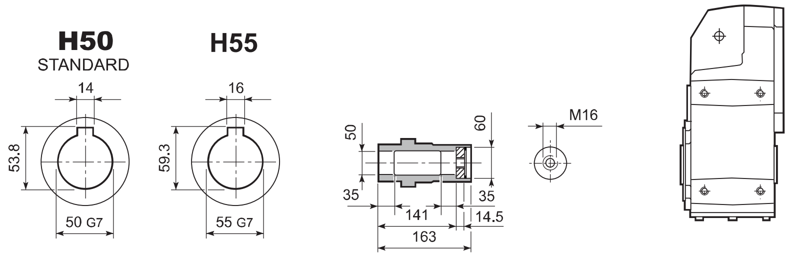
											2/3x		4x	
		D	M	M1	M2	N	N1	N2	N4	X	P	Kg	P	Kg
F 51 2/3	SK 80B	120	14	16.3	5	96	100	80	M6x12	4	287.5	67	—	—
F 51 2/3/4	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	287.5	67	359	71
F 51 2/3/4	SK 95A	130	14	16.3	5	102	115	95	M8x12	4	287.5	67	359	71
F 51 2/3/4	SK 95B	130	19	21.8	6	102	115	95	M8x12	4	287.5	67	359	71
F 51 2/3/4	SK 95C	130	24	27.3	8	102	115	95	M8x12	4	287.5	67	359	71
F 51 2/3/4	SK 110A	150	19	21.8	6	120	130	110	M8x12	5	287.5	67	359	71
F 51 2/3/4	SK 110B	150	24	27.3	8	120	130	110	M8x12	5	287.5	67	359	71
F 51 2/3/4	SK 130A	188	24	27.3	8	142	165	130	M10x20	5	287.5	69	359	73
F 51 2/3	SK 130B	189	32	35.3	10	160	165	130	M10x20	5	334	75	—	—
F 51 2/3	SK 180A	240	32	35.3	10	192	215	180	M12x19	5	334	75	—	—
F 51 2/3	SK 180B	240	38	41.3	10	192	215	180	M12x19	5	334	75	—	—

															2/3x		4x	
			Mt	D	E	F	G	M	N	N1	N2	N4	X	P	Kg	P	Kg
F 51 2/3	SC 80B	M6	15 Nm	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	311	70	—	—
F 51 2/3/4	SC 80C	M6	15 Nm	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	311	70	382.5	74
F 51 2/3/4	SC 95A	M6	15 Nm	130	16.5	15	17.75	14	102	115	95	M8x16	4	311	70	382.5	74
F 51 2/3/4	SC 95B	M6	15 Nm	130	16.5	15	17.75	19	102	115	95	M8x16	4	311	70	382.5	74
F 51 2/3/4	SC 95C	M6	15 Nm	130	16.5	15	17.75	24	102	115	95	M8x16	4	311	70	382.5	74
F 51 2/3/4	SC 110A	M6	15 Nm	150	16.5	16	17.75	19	120	130	110	M8x16	5	311	71	382.5	75
F 51 2/3/4	SC 110B	M6	15 Nm	150	16.5	16	17.75	24	120	130	110	M8x16	5	311	71	382.5	75
F 51 2/3/4	SC 130A	M6	15 Nm	188	19	16	17.75	24	142	165	130	M10x20	5	311	72	382.5	76
F 51 2/3	SC 130B	M8	36 Nm	189	20	17	17.75	32	160	165	130	M10x20	5	357	75	—	—
F 51 2/3	SC 180A	M8	36 Nm	240	20	17.5	17.75	32	192	215	180	M12x24	5	361	75	—	—
F 51 2/3	SC 180B	M8	36 Nm	240	20	17.5	17.75	38	192	215	180	M12x24	5	361	75	—	—

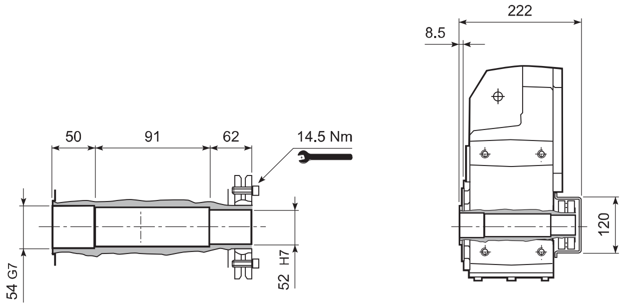


F 51

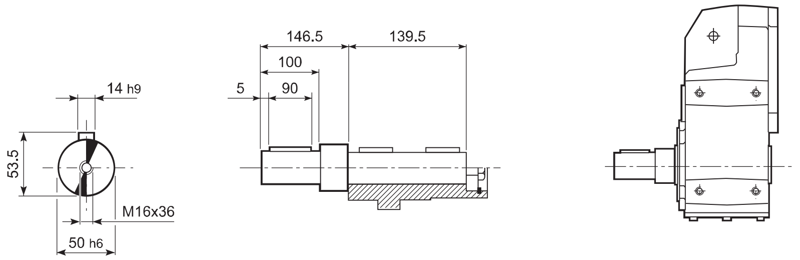
F 51...H



F 51...S

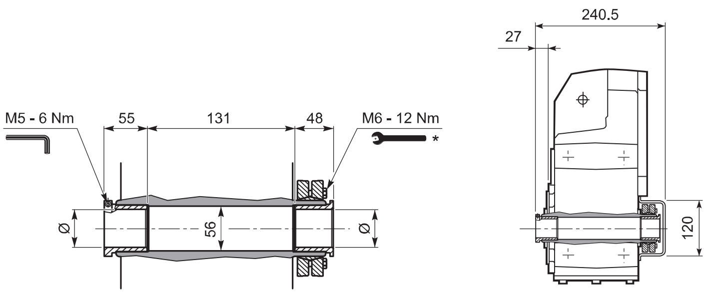


F 51...R

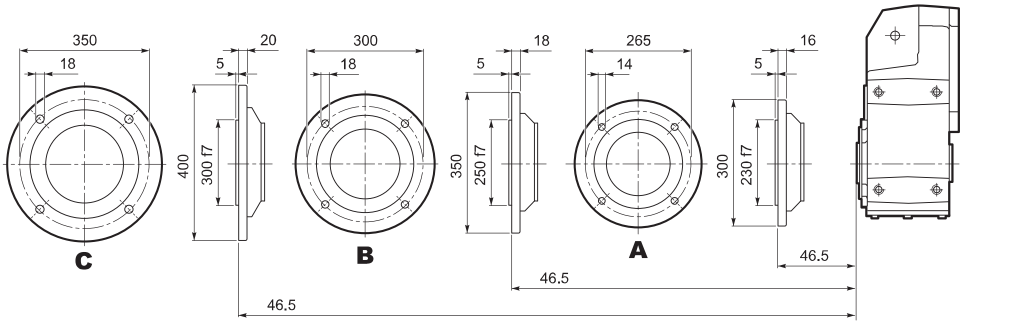


F 51...QF

	Ø
QF50	50
QF55	55

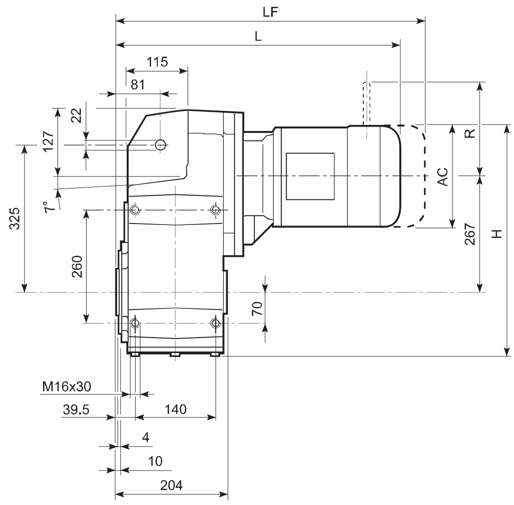


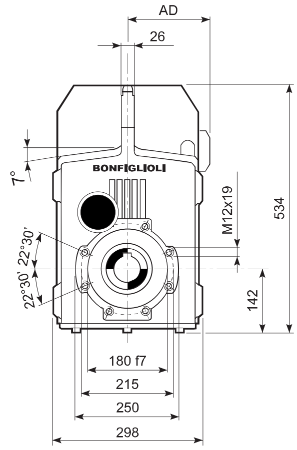
F 51...F...



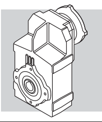
* Atenerse a las INSTRUCIONES DE MONTAJE suministradas con el reductor.

F 60...M/ME

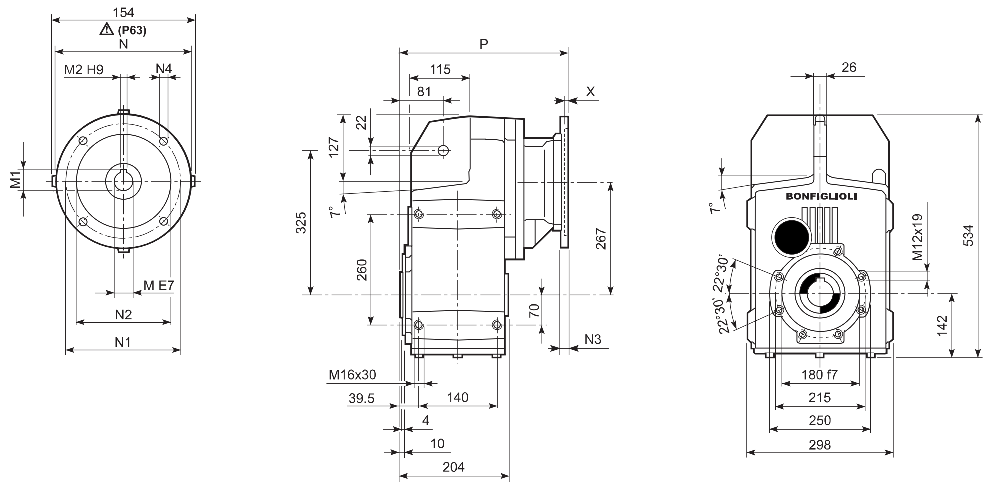




								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
F 60 3	**S2**	**ME2S**	156	487	486.5	119	114	—	—	—	—	—	—
F 60 3	**S3**	**ME3S**	195	506.5	529.5	142	114	—	—	—	—	—	—
F 60 3	**S3**	**ME3L**	195	506.5	561.5	142	124	—	—	—	—	—	—
F 60 3	**S4**	**ME4**	258	538	669.5	193	156	—	—	—	—	—	—
F 60 3	**S4**	**ME4LB**	258	538	704.5	193	164	—	—	—	—	—	—
F 60 3	**S5**	**ME5S**	310	564	756	245	184	—	—	—	—	—	—
F 60 3	**S5**	**ME5L**	310	564	800	245	200	—	—	—	—	—	—
F 60 4	**S1**	**M1**	138	478	528	108	113	589	116	103	135	124	108
F 60 4	**S2**	**ME2S**	156	487	557	119	117	—	—	—	—	—	—
F 60 4	**S3**	**ME3S**	195	506.5	600	142	122	—	—	—	—	—	—
F 60 4	**S3**	**ME3L**	195	506.5	632	142	131	—	—	—	—	—	—
F 60 4	**S4**	**ME4**	258	538	740	193	156	—	—	—	—	—	—
F 60 4	**S4**	**ME4LB**	258	538	775	193	164	—	—	—	—	—	—

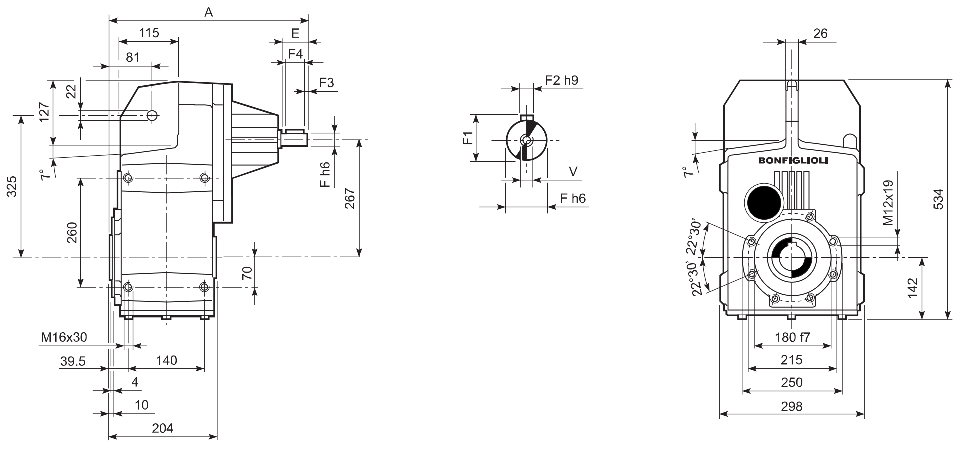


F 60...P(IEC)

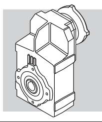


		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 60 3	**P63**	11	12.8	4	140	115	95	—	M8x19	4	302.5	103
F 60 3	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	302.5	103
F 60 3	**P80**	19	21.8	6	200	165	130	—	M10x12	4	322	104
F 60 3	**P90**	24	27.3	8	200	165	130	—	M10x12	4	322	104
F 60 3	**P100**	28	31.3	8	250	215	180	—	M12x16	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

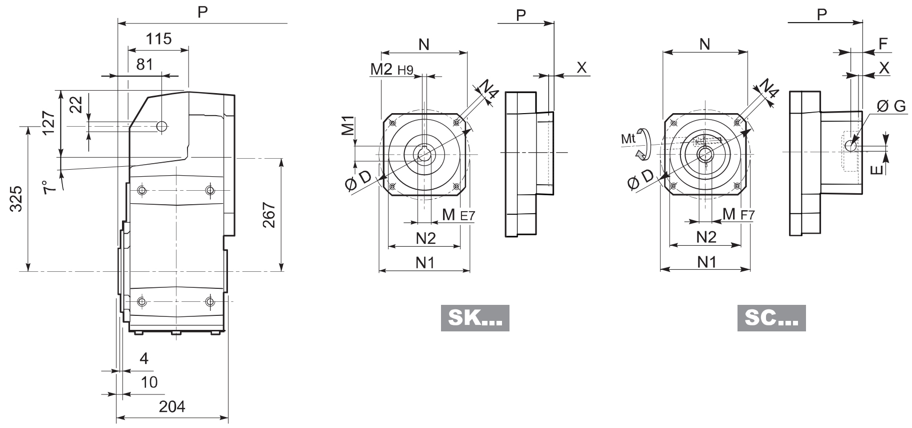
F 60...HS



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

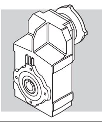


F 60...SK / SC



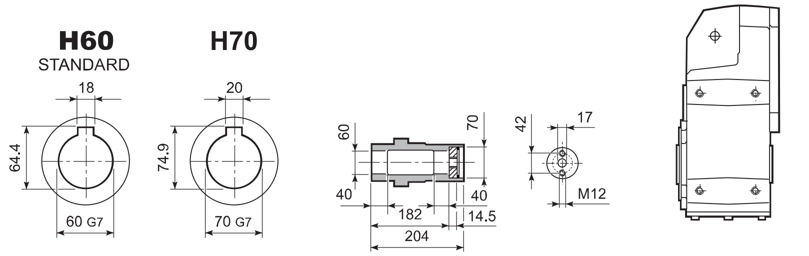
											2/3x		4x	
		D	M	M1	M2	N	N1	N2	N4	X	P	Kg	P	Kg
F 60 4	**SK 80B**	120	14	16.3	5	96	100	80	M6x12	4	—	—	392.5	109
F 60 3/4	**SK 80C**	120	19	21.8	6	96	100	80	M6x12	4	322	106	392.5	112
F 60 3/4	**SK 95A**	130	14	16.3	5	102	115	95	M8x12	4	322	106	392.5	112
F 60 3/4	**SK 95B**	130	19	21.8	6	102	115	95	M8x12	4	322	106	392.5	112
F 60 3/4	**SK 95C**	130	24	27.3	8	102	115	95	M8x12	4	322	106	392.5	112
F 60 3/4	**SK 110A**	140	19	21.8	6	120	130	110	M8x12	5	322	106	392.5	112
F 60 3/4	**SK 110B**	140	24	27.3	8	120	130	110	M8x12	5	322	106	392.5	112
F 60 3/4	**SK 130A**	188	24	27.3	8	142	165	130	M10x20	5	322	108	392.5	112
F 60 3	**SK 130B**	189	32	35.3	10	160	165	130	M10x20	5	368.5	109	—	—
F 60 3	**SK 180A**	240	32	35.3	10	192	215	180	M12x19	5	368.5	109	—	—
F 60 3	**SK 180B**	240	38	41.3	10	192	215	180	M12x19	5	368.5	109	—	—

															2/3x		4x	
			Mt	D	E	F	G	M	N	N1	N2	N4	X	P	Kg	P	Kg
F 60 4	**SC 80B**	M6	15 Nm	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	—	—	416	113
F 60 3/4	**SC 80C**	M6	15 Nm	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	345.5	107	416	113
F 60 3/4	**SC 95A**	M6	15 Nm	130	16.5	15	17.75	14	102	115	95	M8x16	4	345.5	107	416	113
F 60 3/4	**SC 95B**	M6	15 Nm	130	16.5	15	17.75	19	102	115	95	M8x16	4	345.5	107	416	113
F 60 3/4	**SC 95C**	M6	15 Nm	130	16.5	15	17.75	24	102	115	95	M8x16	4	345.5	107	416	113
F 60 3/4	**SC 110A**	M6	15 Nm	140	16.5	16	17.75	19	120	130	110	M8x16	5	345.5	108	416	113
F 60 3/4	**SC 110B**	M6	15 Nm	140	16.5	16	17.75	24	120	130	110	M8x16	5	345.5	108	416	113
F 60 3/4	**SC 130A**	M6	15 Nm	188	19	16	17.75	24	142	165	130	M10x20	5	345.5	109	416	115
F 60 3	**SC 130B**	M8	36 Nm	189	20	17	17.75	32	160	165	130	M10x20	5	390.5	112	—	—
F 60 3	**SC 180A**	M8	36 Nm	240	20	17.5	17.75	32	192	215	180	M12x24	5	394.5	112	—	—
F 60 3	**SC 180B**	M8	36 Nm	240	20	17.5	17.75	38	192	215	180	M12x24	5	394.5	112	—	—

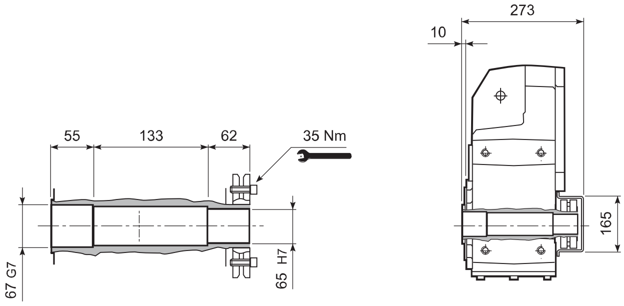


F 60

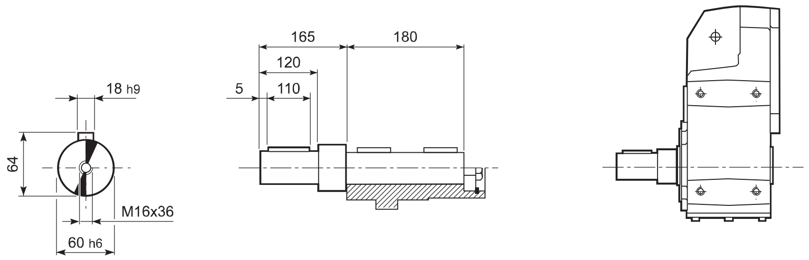
F 60...H



F 60...S

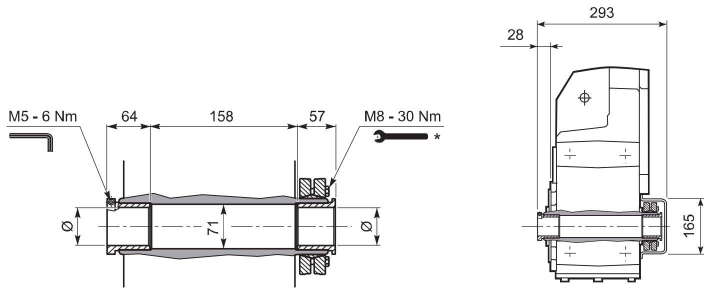


F 60...R

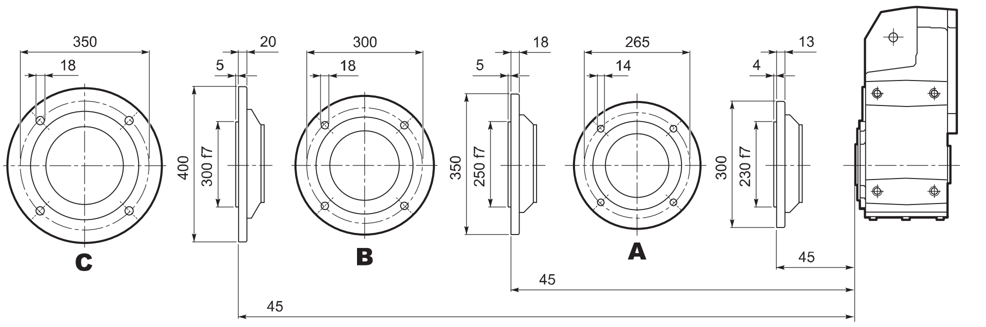


F 60...QF

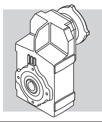
	Ø
QF60	60
QF65	65
QF70	70



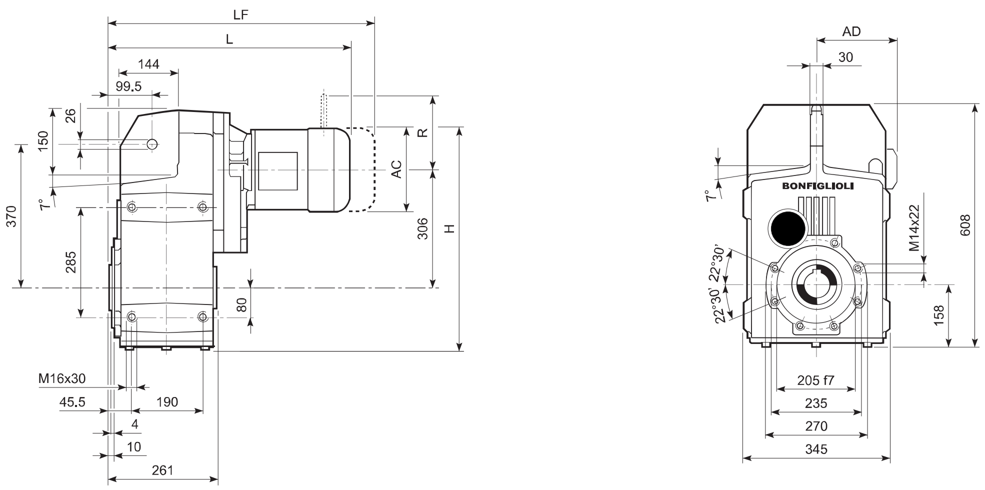
F 60...F...



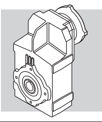
* Atenerse a las INSTRUCIONES DE MONTAJE suministradas con el reductor.



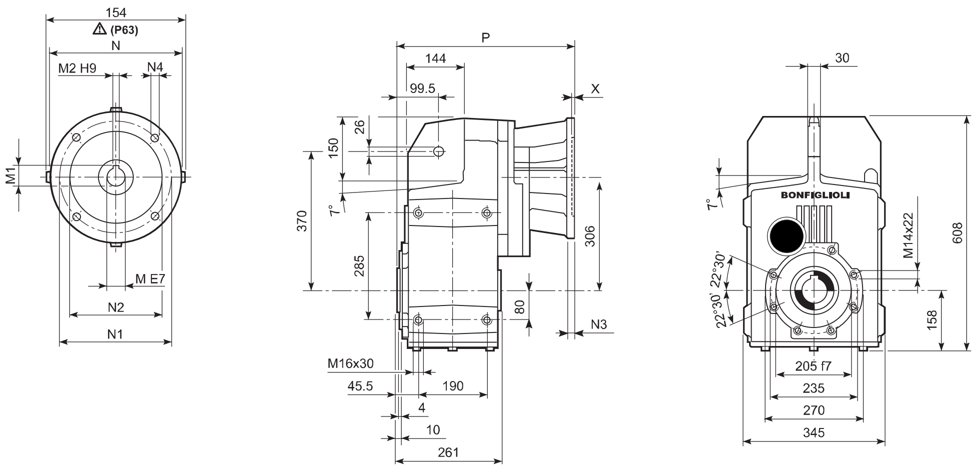
F 70...M/ME



								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
F 70 3	**S2**	**ME2S**	156	542	552	119	173	—	—	—	—	—	—
F 70 3	**S3**	**ME3S**	195	561.5	595	142	178	—	—	—	—	—	—
F 70 3	**S3**	**ME3L**	195	561.5	627	142	188	—	—	—	—	—	—
F 70 3	**S4**	**ME4**	258	593	735	193	220	—	—	—	—	—	—
F 70 3	**S4**	**ME4LB**	258	593	770	193	228	—	—	—	—	—	—
F 70 3	**S5**	**ME5SA**	310	619	821.5	245	248	—	—	—	—	—	—
F 70 3	**S5**	**ME5LA**	310	619	865.5	245	264	—	—	—	—	—	—
F 70 4	**S1**	**M1**	138	533	574	108	173	635	176	103	135	124	108
F 70 4	**S2**	**ME2S**	156	542	603	119	177	—	—	—	—	—	—
F 70 4	**S3**	**ME3S**	195	561.5	646	142	181	—	—	—	—	—	—
F 70 4	**S3**	**ME3L**	195	561.5	678	142	191	—	—	—	—	—	—
F 70 4	**S4**	**ME4**	258	593	786	193	223	—	—	—	—	—	—
F 70 4	**S4**	**ME4LB**	258	593	821	193	231	—	—	—	—	—	—

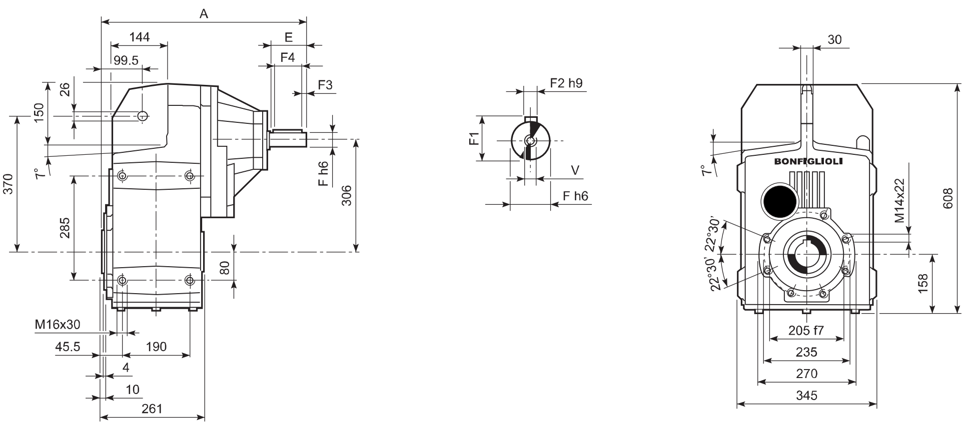


F 70...P(IEC)

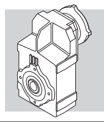


		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 70 3	**P80**	19	21.8	6	200	165	130	—	M10x12	4	387.5	167
F 70 3	**P90**	24	27.3	8	200	165	130	—	M10x12	4	387.5	167
F 70 3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	397.5	171
F 70 3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	397.5	171
F 70 3	**P132**	38	41.3	10	300	265	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...HS

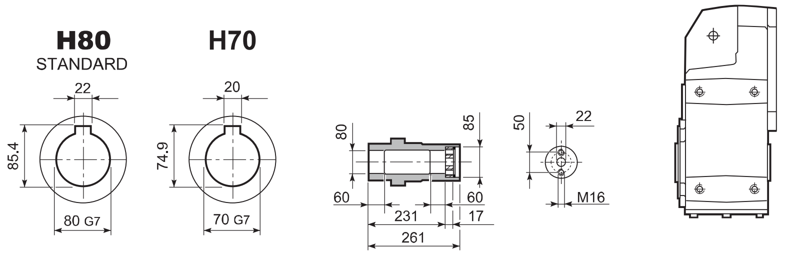


		A	E	F	F1	F2	F3	F4	V	Kg
F 70 3	**HS**	572	110	42	45	12	10	90	M12x28	186
F 70 4		508.5	50	24	27	8	2.5	45	M8x19	174

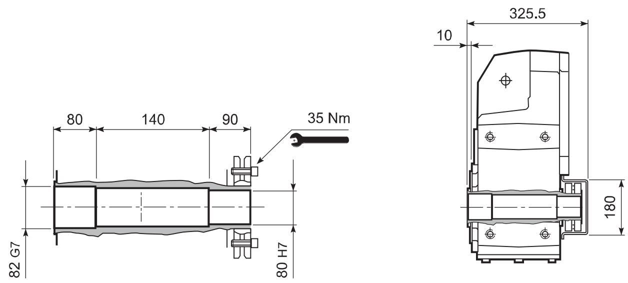


F 70

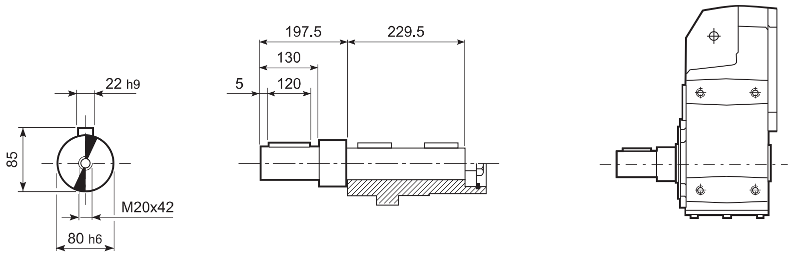
F 70...H



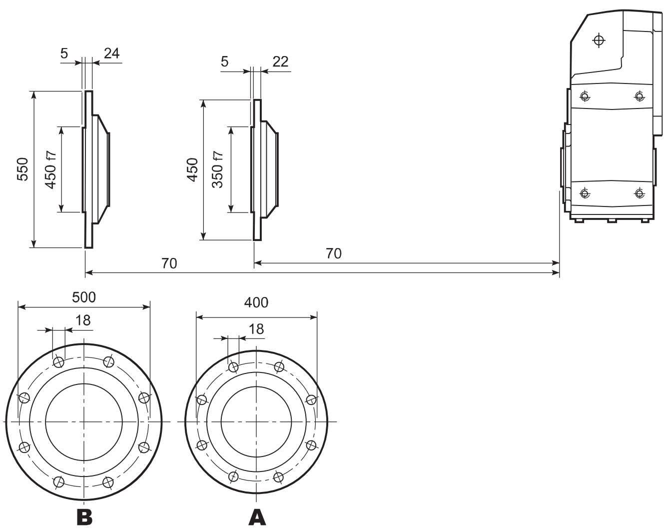
F 70...S

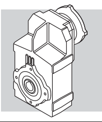


F 70...R

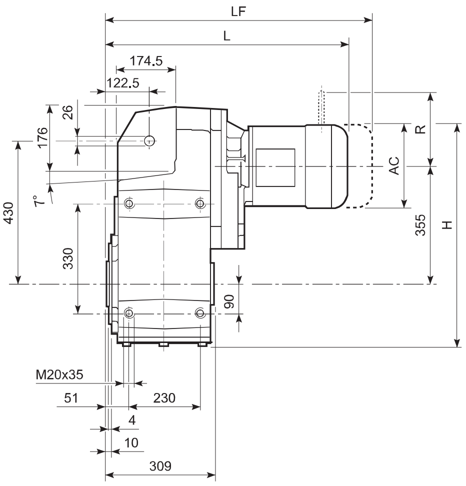


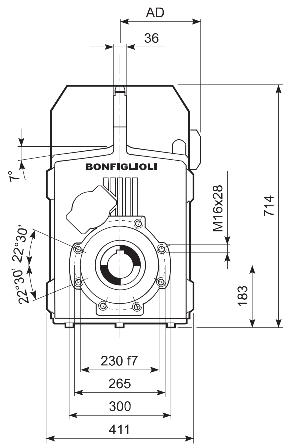
F 70...F...



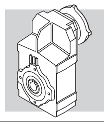


F 80...M/ME

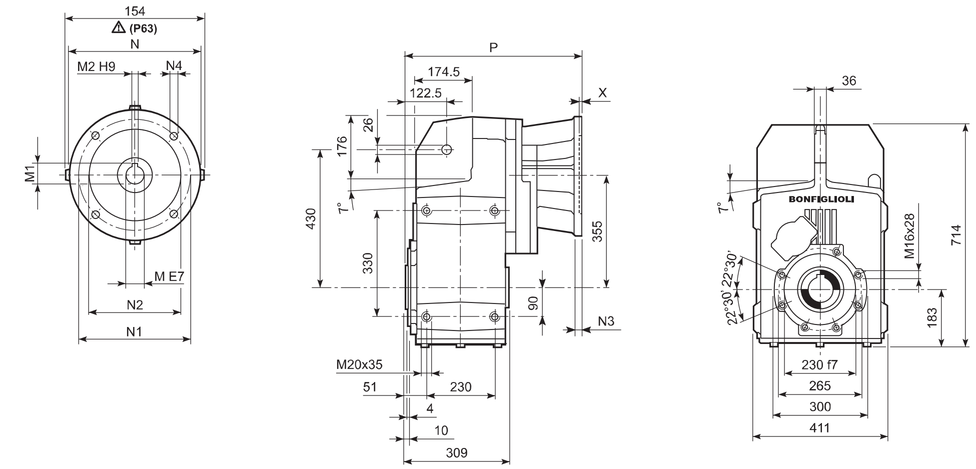




								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
F 80 3	**S3**	**ME3S**	195	635.5	653	142	266	—	—	—	—	—	—
F 80 3	**S3**	**ME3L**	195	635.5	685	142	275	—	—	—	—	—	—
F 80 3	**S4**	**ME4**	258	667	793	193	307	—	—	—	—	—	—
F 80 3	**S4**	**ME4LB**	258	667	828	193	315	—	—	—	—	—	—
F 80 3	**S5**	**ME5S**	310	693	879.5	245	335	—	—	—	—	—	—
F 80 3	**S5**	**ME5L**	310	693	923.5	245	351	—	—	—	—	—	—
F 80 4	**S1**	**M1**	138	607	644	108	262	705	265	103	135	124	108
F 80 4	**S2**	**M2S**	156	616	673	119	266	743	269	129	146	134	119
F 80 4	**S2**	**ME2S**	156	616	673	119	266	—	—	—	—	—	—
F 80 4	**S3**	**ME3S**	195	635.5	716	142	271	—	—	—	—	—	—
F 80 4	**S3**	**ME3L**	195	635.5	748	142	280	—	—	—	—	—	—
F 80 4	**S4**	**ME4**	258	667	856	193	312	—	—	—	—	—	—
F 80 4	**S4**	**ME4LB**	258	667	891	193	320	—	—	—	—	—	—

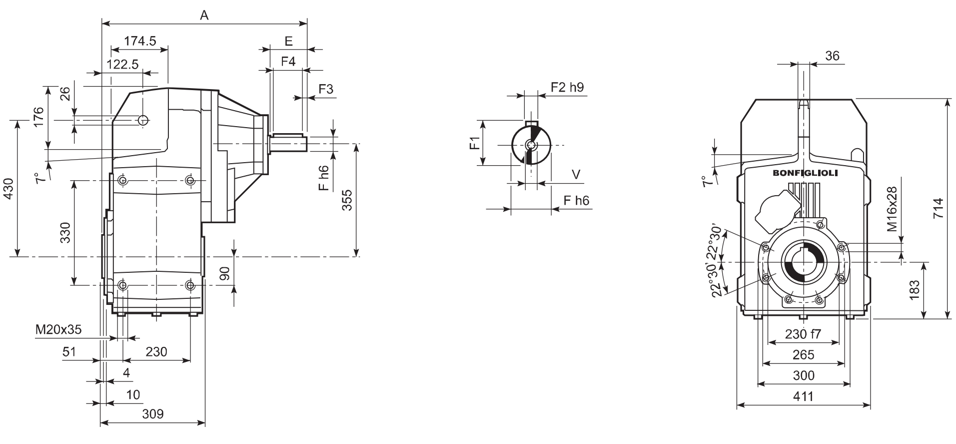


F 80...P(IEC)

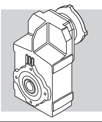


		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 80 3	P80	19	21.8	6	200	165	130	—	M10x12	4	445.5	255
F 80 3	P90	24	27.3	8	200	165	130	—	M10x12	4	445.5	255
F 80 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	455.5	259
F 80 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	455.5	259
F 80 3	P132	38	41.3	10	300	265	230	16	14	5	492	261
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	14	5	552	266

F 80...HS

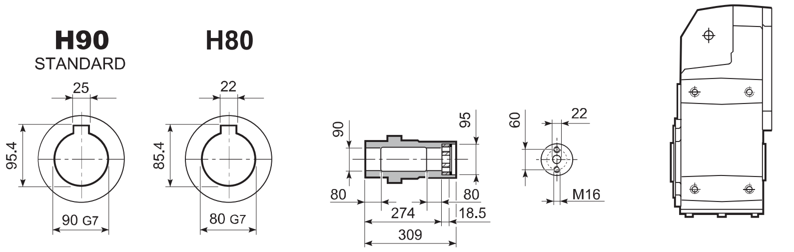


		A	E	F	F1	F2	F3	F4	V	Kg
F 80 3	HS	630	110	42	45	12	10	90	M12x28	273
F 80 4		575.5	50	24	27	8	2.5	45	M8x19	263

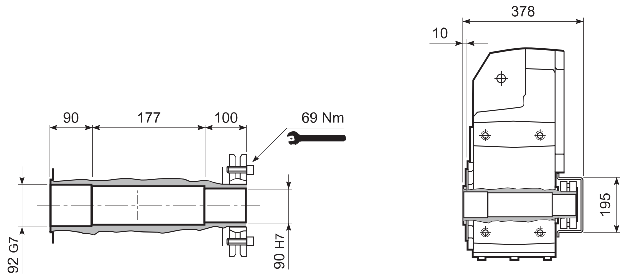


F 80

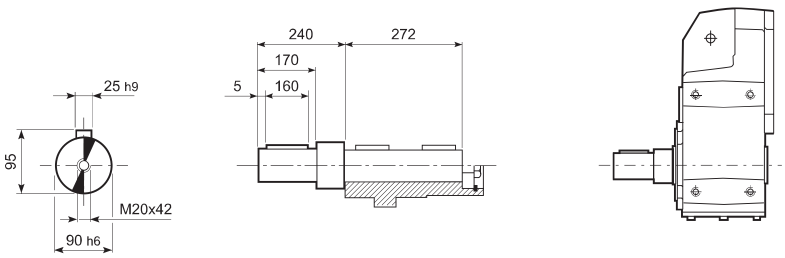
F 80...H



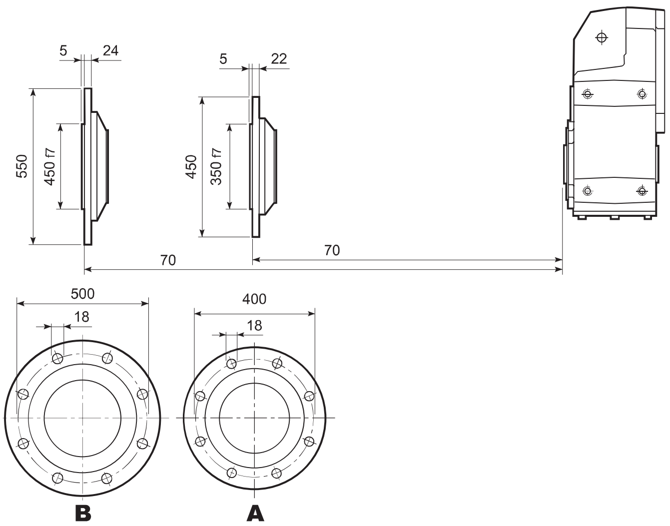
F 80...S

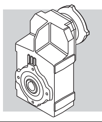


F 80...R

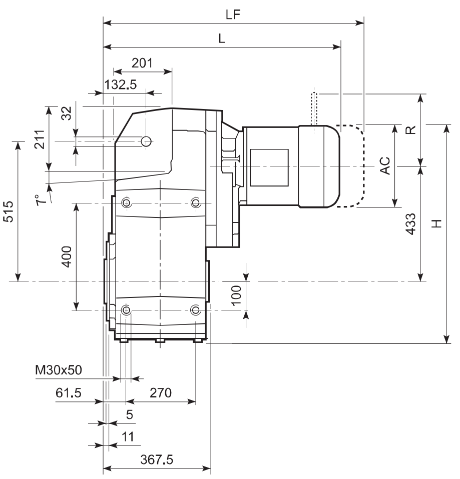


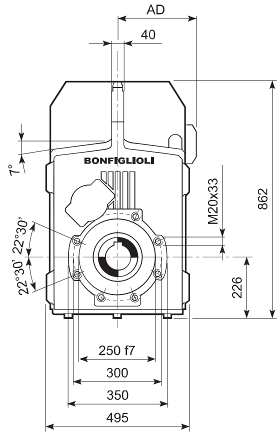
F 80...F...



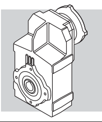


F 90...M/ME

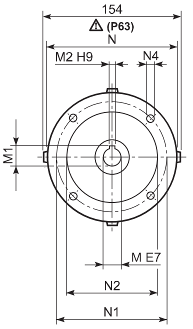


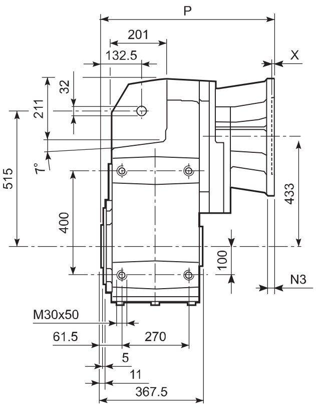


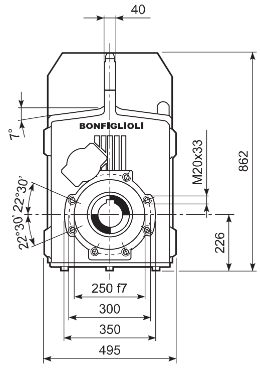
								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
F 90 3	S3	ME3S	195	756	728	142	453	—	—	—	—	—	—
F 90 3	S3	ME3L	195	756	760	142	462	—	—	—	—	—	—
F 90 3	S4	ME4	258	787.5	868	193	494	—	—	—	—	—	—
F 90 3	S5	ME5L	310	813.5	998.5	245	538	—	—	—	—	—	—
F 90 4	S2	M2S	156	736.5	768	119	456	838	460	129	146	134	119
F 90 4	S2	ME2S	156	736.5	768	119	456	—	—	—	—	—	—
F 90 4	S3	ME3S	195	756	811	142	460	—	—	—	—	—	—
F 90 4	S3	ME3L	195	756	843	142	470	—	—	—	—	—	—
F 90 4	S4	ME4	258	787.5	951	193	502	—	—	—	—	—	—
F 90 4	S4	ME4LB	258	787.5	986	193	510	—	—	—	—	—	—



F 90...P(IEC)

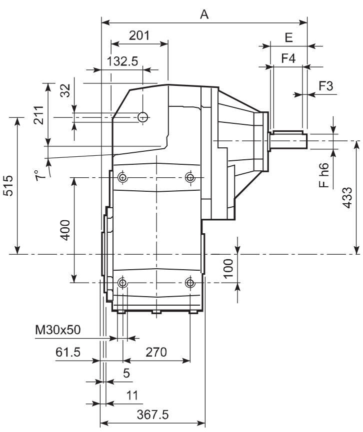


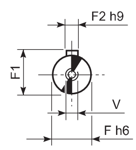


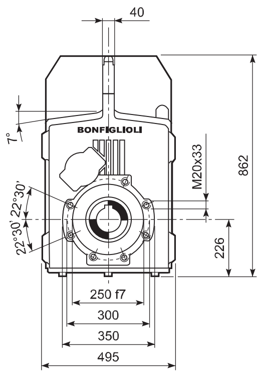


		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 90 3	**P80**	19	21.8	6	200	165	130	—	M10x12	4	520.5	442
F 90 3	**P90**	24	27.3	8	200	165	130	—	M10x12	4	520.5	442
F 90 3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	530.5	446
F 90 3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	530.5	446
F 90 3	**P132**	38	41.3	10	300	265	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

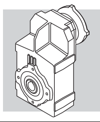
F 90...HS





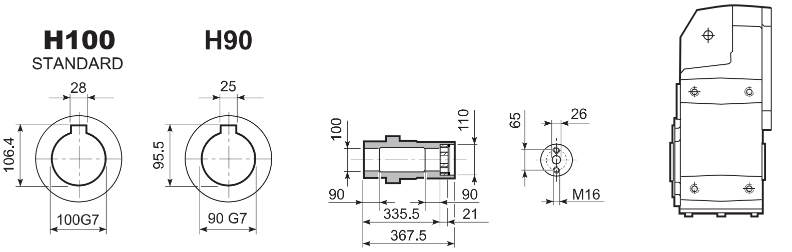


		A	E	F	F1	F2	F3	F4	V	Kg
F 90 3	**HS**	806.5	140	60	64	18	10	120	M16x36	485
F 90 4		673.5	50	24	27	8	2.5	45	M8x19	452

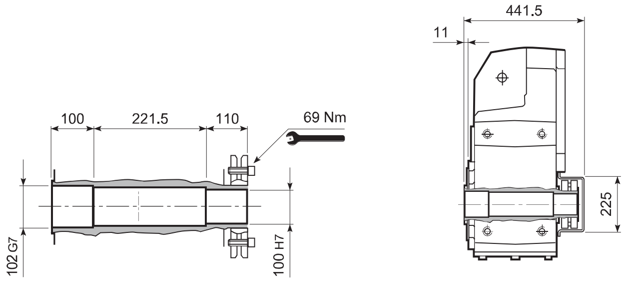


F 90

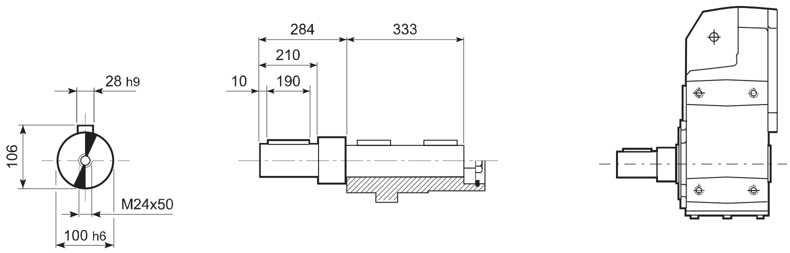
F 90...H



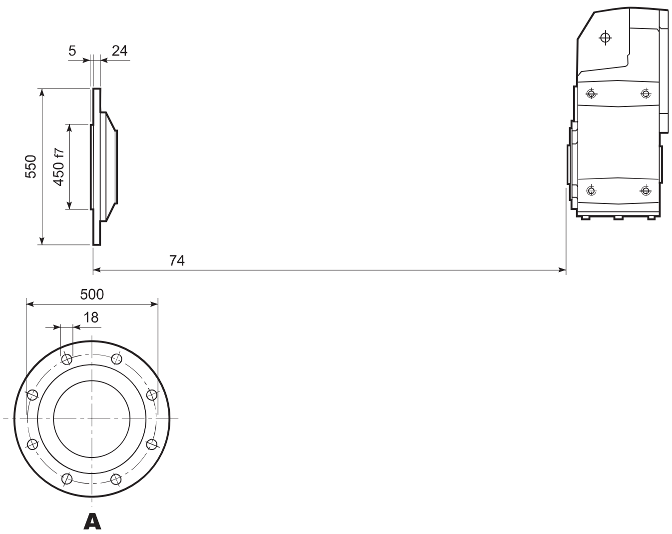
F 90...S



F 90...R



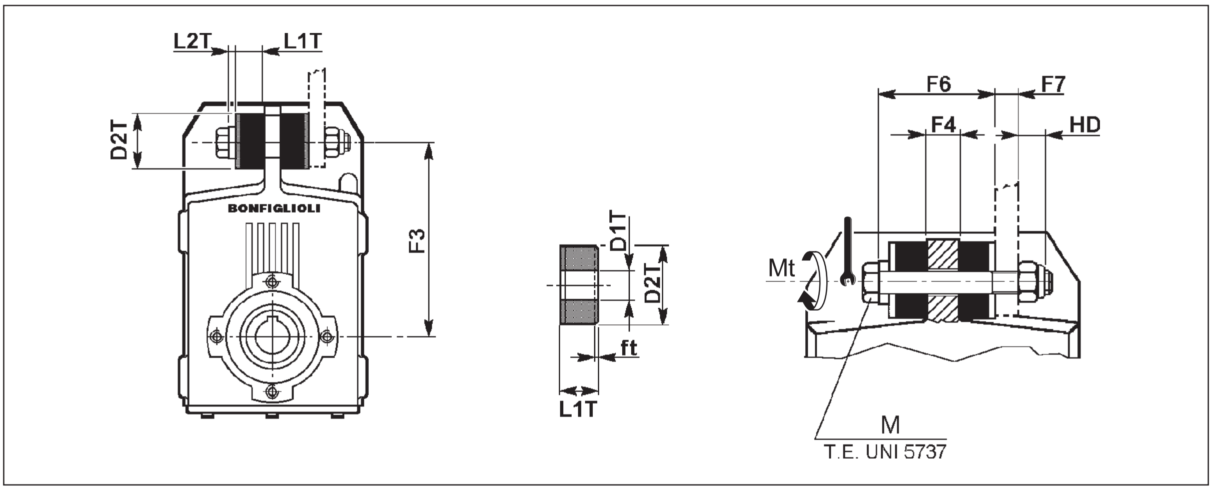
F 90...F...



63 ACCESORIOS

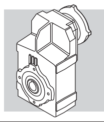
Kit de fijación para brazo de Reacción

Los reductores de la serie F pueden ser equipados, bajo pedido, de un kit de fijación para brazo de reacción (antivibratorio) que incluye los elementos necesarios para la fijación pendular (brazo de reacción excluido).
Las dimensiones se muestran en la tabla siguiente.



	F3	F4	F6	F7 (max.)	HD	L1T	L2T	D1T	D2T	M	Mt [Nm]	ft
F 10	140	20	55	10	12.3	15	5	11	30	M10x80	10	1.5
F 20	160	20	55	10	12.3	15	5	11	30	M10x80	10	1.5
F 25	162	20	65	20	14.8	20	5	12.5	40	M12x100	20	1.5
F 31	170	20	65	20	14.8	20	5	12.5	40	M12x100	20	1.5
F 41	218	16	61	24	14.8	20	5	12.5	40	M12x100	20	2.3
F 51	278	20	90	47	23	30	10	21	60	M20x160	50	3.0
F 60	325	26	96	41	23	30	10	21	60	M20x160	50	4.0
F 70	370	30	122	50	28	40	12	25	80	M24x200	100	4.0
F 80	430	36	128	44	28	40	12	25	80	M24x200	100	6.0
F 90	515	40	175	40	33.2	60	15	32	100	M30x260	200	9.0

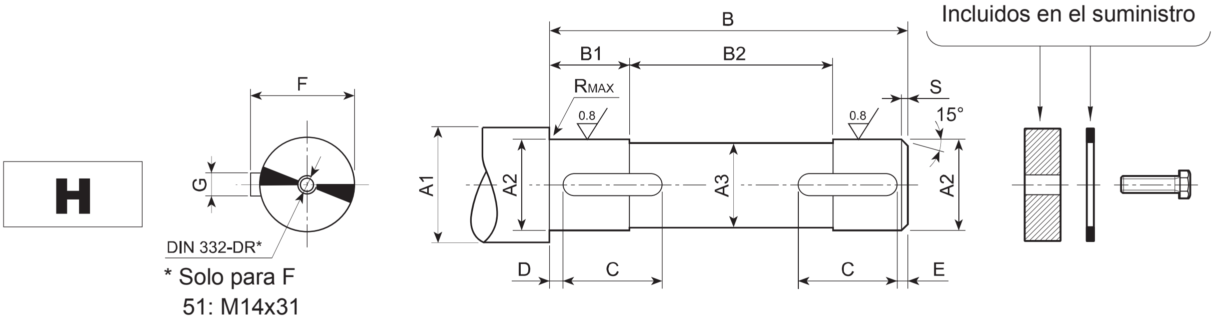
f_t = variación dimensional del disco de goma antivibración.



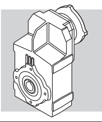
64 EJE DE LA MÁQUINA

En la construcción del eje de la máquina que ha de acoplarse al reductor se aconseja utilizar acero de buena calidad y efectuar la mecanización como se indica en el esquema siguiente.

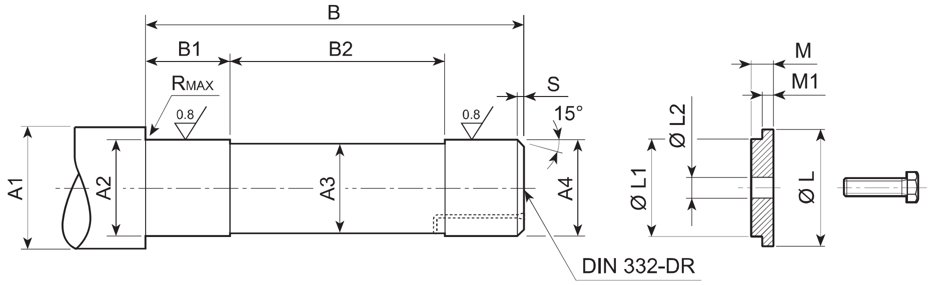
Aconsejamos, además, completar el montaje con un dispositivo que asegure la fijación axial del eje (no diseñado). La cantidad y dimensiones del/de lo/s taladro/s roscado/s en la extremidad del eje se determinará/n según las diversas exigencias de la aplicación.



	A1	A2	A3	B	B1	B2	C	D	E	F	G	R	S	UNI 6604	UNI 5739
F 10	≥ 35	30 h7	29	87.5	15.5	56.5	20	2	2	33	8 h9	0.5	1.5	8x7x20 A	M8x25
	≥ 30	25 h7	24	87.5	15.5	56.5	20	2	2	28	8 h9	0.5	1.5	8x7x20 A	
F 20	≥ 42	35 h7	34	99	18	63	22	2	2	38	10 h9	0.5	1.5	10x8x22 A	M8x30
	≥ 35	30 h7	29	99	18	63	22	2	2	33	8 h9	0.5	1.5	8x7x22 A	
F 25	≥ 47	40 h7	39	104	23	58	30	2	2	43	12 h9	0.5	1.5	12x8x30 A	M8x30
	≥ 42	35 h7	34	104	23	58	30	2	2	38	10 h9	0.5	1.5	10x8x30 A	
F 31	≥ 47	40 h7	39	104	28	48	30	2	2	43	12 h9	0.5	1.5	12x8x30 A	M8x30
	≥ 42	35 h7	34	104	28	48	30	2	2	38	10 h9	0.5	1.5	10x8x30 A	
F 41	≥ 52	45 h7	44	118	27.5	63	45	2.5	2.5	49.5	14 h9	1	2.0	14x9x45 A	M10x30
	≥ 47	40 h7	39	118	27.5	63	45	2.5	2.5	43	12 h9	1	2.0	12x8x45 A	
F 51	≥ 63	55 h7	54	139	33	73	50	2.5	2.5	59	16 h9	1	2.0	16x10x50 A	M14x45
	≥ 57	50 h7	49	139	33	73	50	2.5	2.5	53.5	14 h9	1	2.0	14x9x50 A	
F 60	≥ 78	70 h7	69	180	38	104	70	2.5	2.5	74.5	20 h9	1	2.0	20x12x70 A	M16x45
	≥ 68	60 h7	59	180	38	104	70	2.5	2.5	64	18 h9	1	2.0	18x11x70 A	
F 70	≥ 89	80 h7	79	229	58	113	75	3	3	85	22 h9	2.5	2.5	22x14x75 A	M20x55
	≥ 78	70 h7	69	229	58	113	75	3	3	74.5	20 h9	2.5	2.5	20x12x75 A	
F 80	≥ 99	90 h7	89	272	78	116	100	3	3	95	25 h9	2.5	2.5	25x14x100 A	M20x55
	v 89	80 h7	79	272	78	116	100	3	3	85	22 h9	2.5	2.5	22x14x100 A	
F 90	≥ 111	100 h7	99	333	87.5	158	110	3	3	106	28 h9	2.5	2.5	28x16x110 A	M24x65
	≥ 99	90 h7	89	333	87.5	158	110	3	3	95	25 h9	2.5	2.5	25x14x110 A	

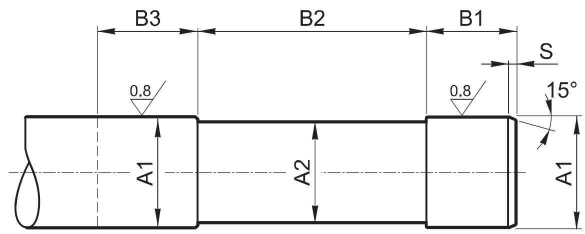


S



	A1	A2	A3	A4	B	B1	B2	R	S	L	L1	L2	M	M1	 UNI 5739
F 10	≥ 36	27 h7	24	25 h6	138	34	70	0.5	1.5	29.5	25 d9	9	7	5.5	M8x25
F 20	≥ 42	32 h7	29	30 h6	160	38	84	0.5	1.5	35.5	30 d9	9	7	5.5	M8x25
F 25	≥ 42	32 h7	30	31 h6	172	38	96	0.5	1.5	35.5	31 d9	9	7	5.5	M8x25
F 31	≥ 50	38 h7	35	36 h6	155	40	73	1	2	43	36 d9	9	7	5.5	M8x25
F 41	≥ 58	44 h7	41	42 h6	177	46.5	82	1	2	49	42 d9	11	8.5	7	M10x30
F 51	≥ 68	54 h7	51	52 g6	201	48	91	1	2	61	52 d9	18	9	7.5	M16x45
F 60	≥ 84	67 h7	64	65 g6	248	53	133	1.5	2	80	65 d9	18	9	7.5	M16x45
F 70	≥ 104	82 h7	79	80 g6	308	78	140	2.5	2.5	95	80 d9	22	13.5	12	M20x55
F 80	≥ 114	92 h7	89	90 g6	365	88	177	2.5	2.5	105	90 d9	22	13.5	12	M20x55
F 90	≥ 126	102 h7	99	100 g6	429.5	98	221.5	2.5	2.5	120	100 d9	26	20	18.5	M24x70

QF



		A1	A2	B1	B2	B3	S
F 10	**QF25**	25 h6	24	41	83	≥ 50	1.5
	QF30	30 h6	29				
F 20	**QF25**	25 h6	24	41	104.5	≥ 50	1.5
	QF30	30 h6	29				
F 25	**QF30**	30 h6	29	41	120.5	≥ 50	1.5
	QF32	32 h6	31				
F 31	**QF35**	35 h6	34	45	95.5	≥ 54	1.5
	QF40	40 h6	39				
F 41	**QF42**	42 h6	41	46	112.5	≥ 55	2
	QF45	45 h6	44				
F 51	**QF50**	50 h6	49	48	131	≥ 57	2
	QF55	55 h6	54				
F 60	**QF60**	60 h6	59	57	158	≥ 66	2.5
	QF65	65 h6	64				
	QF70	70 h6	69				