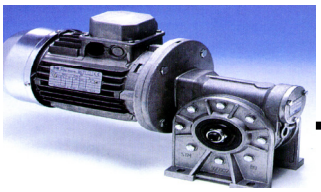


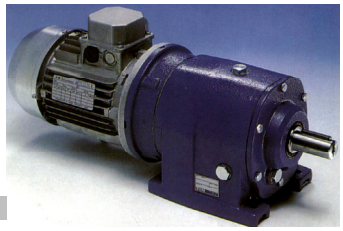
TRANSMISIONES

TRANSMISIONES

- Reductores y Motorreductores

- M o t o r e s

- Variadores de Velocidad



2013

ABACtransmisiones S.R.L.

Marcos Sastre 4796 - Buenos Aires - Argentina

Telefax:(54-11) 4566-3609 // 4648-2034

E-MAIL: abac@abactransmisiones.com.ar

INDICE

REDUCTORES STM

ABAC*transmisiones S.R.L.*
Marcos Sastre 4796 - Buenos Aires - Argentina
Telefax:(54-11) 4566-3609 // 4648-2034
E-MAIL: abac@abactransmisiones.com.ar

RIDUTTORI – MOTORIDUTTORI ORTOGONALI

OM, OR, OC, ROC

OM

OR

ROC

HIGH TECH line

La progettazione di questi riduttori è stata impostata su una struttura monolitica particolarmente rigida che permette l'applicazione di elevati carichi.
Carcasse e flange sono realizzate in ghisa meccanica GG200 - GG250 ISO 185 ad eccezione dei tipi grandezza 63 e 71 realizzati in alluminio SG-AlSi UNI 1706.
La lavorazione di tutte le carcasse avviene su moderni centri di lavoro a controllo numerico che permette di ottenere la massima precisione costruttiva.
L'albero di entrata è realizzato in acciaio 39NiCrMo3 UNI EN 10083 bonificato; quello in uscita in acciaio C40 UNI 5332. Tutti gli ingranaggi sono realizzati in acciaio 18NiCrMo5 UNI 7846 cementati, temprati e rettificati per migliorarne il rendimento e la silenziosità anche sotto carico.

The design of this series of gearboxes has been set up on a very rigid monolithic structure enabling the application of heavy loads.
Housings and flanges are manufactured in engineering cast iron GG200 - GG250 ISO 185, except for size 63 and 71, made of aluminium SG-AlSi UNI 1706.
All the housings working takes place in numerical control working centres, that ensure the maximum constructive accuracy.
The input shaft is made spring tempered steel 39NiCrMo3 UNI EN 10083; the output shaft is made of steel C40 UNI 5332. All gears are made of steel 18NiCrMo5 UNI 7846, previously casehardened, hardened and rectified to improve efficiency and quietness even under load.

Der Entwicklung dieser Getriebeserie wurde eine monolithische Gehäusestruktur zugrunde gelegt.
Mit Ausnahme der Modelle 63 und 71, bei denen aufgrund der kleinen Baugröße Aluminium SG-AlSi UNI 1706 verwendet wird, sind alle Gehäuse und Flansche aus Maschinenguß GG200 - GG250 ISO 185.
Die Bearbeitung der Gehäuse erfolgt auf modernsten, numerisch gesteuerten Fertigungsmaschinen, wodurch eine hohe Fertigungsgenauigkeit und-qualität erzielt wird. Die Antriebswelle besteht aus einsatzgehärtetem und vergütetem 39NiCrMo3 Stahl UNI EN 10083, die Abtriebswelle aus C40 Stahl UNI 5332. Alle Zahnräder sind aus 18NiCrMo5 Stahl UNI 7846, gehärtet, einsatzgehärtet und geschliffen.
Dies ermöglicht einen hohen Wirkung-sgrad sowie einen geräuscharmen Lauf auch unter Last.
Alle Kegelradgetriebe und-Getriebemotoren besitzen drei Unterse- tzungsstufen.

OR 63

Kg 10.5

ir	n_1 = 2800 min^{-1}				n_1 = 1400 min^{-1}				n_1 = 900 min^{-1}				n_1 = 500 min^{-1}				IEC
	n_2	T_{2M}	P	RD	n_2	T_{2M}	P	RD	n_2	T_{2M}	P	RD	n_2	T_{2M}	P	RD	
	min^{-1}	Nm	kW	%	min^{-1}	Nm	kW	%	min^{-1}	Nm	kW	%	min^{-1}	Nm	kW	%	
7.9	354	140	5.8	90	177	170	3.5	90	114	190	2.5	90	63	200	1.5	90	
10.3	272	150	4.7	90	136	185	2.9	90	88	200	2.0	90	49	215	1.2	90	
11.5	244	155	4.4	90	122	190	2.7	90	78	205	1.9	90	44	220	1.1	90	
13.3	211	175	4.3	90	105	220	2.7	90	68	235	1.9	90	38	245	1.1	90	
14.8	189	180	4.0	90	94	220	2.4	90	61	240	1.7	90	34	250	0.99	90	
17.2	163	185	3.5	90	82	220	2.1	90	52	245	1.5	90	29	255	0.86	90	112 B5
19.5	143	190	3.2	90	72	230	1.9	90	46	245	1.3	90	26	255	0.77	90	112 B14
23.7	118	220	3.0	90	59	240	1.6	90	38	260	1.1	90	21	270	0.66	90	100 B5
27.5	102	225	2.7	90	51	240	1.4	90	33	260	1.0	90	18.2	270	0.57	90	100 B14
31.2	90	230	2.4	90	45	240	1.3	90	29	260	0.88	90	16.0	270	0.50	90	
35.8	78	230	2.1	90	39	250	1.1	90	25	260	0.76	90	14.0	270	0.44	90	90 B5
44.6	63	230	1.7	90	31	250	0.90	90	20	260	0.61	90	11.2	270	0.35	90	90 B14
52.4	53	230	1.4	90	27	250	0.79	90	17.2	260	0.52	90	9.5	270	0.30	90	
69.0	41	230	1.1	90	20	250	0.58	90	13.0	260	0.39	90	7.2	270	0.23	90	80 B5
79.5	35	230	0.94	90	17.6	250	0.51	90	11.3	260	0.34	90	6.3	270	0.20	90	80 B14
90.6	31	200	0.72	90	15.4	230	0.41	90	9.9	250	0.29	90	5.5	265	0.17	90	
103.8	27	200	0.63	90	13.5	235	0.37	90	8.7	250	0.25	90	4.8	265	0.15	90	71 B5
129.3	22	200	0.51	90	10.8	240	0.30	90	7.0	260	0.21	90	3.9	270	0.12	90	
151.9	18.4	205	0.44	90	9.2	245	0.26	90	5.9	260	0.18	90	3.3	280	0.11	90	63 B5
200.1	14.0	210	0.34	90	7.0	250	0.20	90	4.5	260	0.14	90	2.5	280	0.08	90	
243.3	11.5	230	0.31	90	5.8	250	0.17	90	3.7	270	0.12	90	2.1	290	0.07	90	
280.4	10.0	230	0.27	90	5.0	250	0.15	90	3.2	280	0.10	90	1.8	290	0.06	90	
346.4	8.1	230	0.22	90	4.0	250	0.12	90	2.6	280	0.08	90	1.4	290	0.05	90	

OR 71

Kg 18.0

ir	n_1 = 2800 min^{-1}				n_1 = 1400 min^{-1}				n_1 = 900 min^{-1}				n_1 = 500 min^{-1}				IEC
	n_2	T_{2M}	P	RD	n_2	T_{2M}	P	RD	n_2	T_{2M}	P	RD	n_2	T_{2M}	P	RD	
	min^{-1}	Nm	kW	%	min^{-1}	Nm	kW	%	min^{-1}	Nm	kW	%	min^{-1}	Nm	kW	%	
6.9	408	220	10.4	90	204	270	6.4	90	131	294	4.5	90	73	296	2.5	90	
8.4	333	250	9.7	90	167	300	5.8	90	107	312	3.9	90	59	313	2.1	90	
9.9	282	260	8.5	90	141	320	5.2	90	91	350	3.7	90	50	350	2.0	90	
11.4	246	280	8.0	90	123	340	4.9	90	79	380	3.5	90	44	435	2.2	90	
13.9	201	320	7.5	90	100	400	4.7	90	65	440	3.3	90	36	490	2.1	90	
16.5	170	330	6.5	90	85	400	4.0	90	55	440	2.8	90	30	500	1.7	90	
18.7	150	330	5.8	90	75	410	3.6	90	48	460	2.6	90	27	560	1.8	90	
22.9	122	350	5.0	90	61	430	3.1	90	39	490	2.2	90	22	585	1.5	90	
27.1	103	375	4.5	90	52	460	2.8	90	33	525	2.0	90	18.5	597	1.3	90	
30.6	92	375	4.0	90	46	460	2.5	90	29	525	1.8	90	16.4	597	1.1	90	
37.1	76	375	3.3	90	38	460	2.0	90	24	525	1.5	90	13.5	597	0.94	90	112 B5
42.6	66	375	2.9	90	33	460	1.8	90	21	525	1.3	90	11.7	597	0.81	90	112 B14
49.3	57	375	2.5	90	28	460	1.5	90	18.2	525	1.1	90	10.1	599	0.70	90	100 B5
53.4	52	375	2.3	90	26	460	1.4	90	16.9	525	1.0	90	9.4	602	0.66	90	100 B14
57.9	48	375	2.1	90	24	460	1.3	90	15.5	525	0.95	90	8.6	604	0.60	90	
76.1	37	375	1.6	90	18.4	460	0.98	90	11.8	525	0.72	90	6.6	610	0.47	90	90 B5
87.4	32	375	1.4	90	16.0	460	0.86	90	10.3	525	0.63	90	5.7	612	0.41	90	90 B14
98.6	28	375	1.2	90	14.2	460	0.76	90	9.1	525	0.56	90	5.1	614	0.36	90	
107.6	26	375	1.1	90	13.0	460	0.70	90	8.4	525	0.51	90	4.6	598	0.32	90	80 B5
123.5	23	375	1.0	90	11.3	460	0.60	90	7.3	525	0.45	90	4.0	608	0.28	90	80 B14
143.1	19.6	375	0.86	90	9.8	460	0.52	90	6.3	525	0.38	90	3.5	618	0.25	90	
154.8	18.1	375	0.79	90	9.0	460	48	90	5.8	525	0.35	90	3.2	621	0.23	90	71 B5
168.0	16.7	375	0.73	90	8.3	460	0.44	90	5.4	525	0.33	90	3.0	622	0.22	90	
179.6	15.6	375	0.68	90	7.8	460	0.42	90	5.0	513	0.30	90	2.8	555	0.18	90	63 B5
193.6	14.5	375	0.63	90	7.2	460	0.39	90	4.6	516	0.28	90	2.6	558	0.17	90	
209.4	13.4	375	0.58	90	6.7	460	0.36	90	4.3	522	0.26	90	2.4	567	0.16	90	
220.8	12.7	375	0.55	90	6.3	460	0.34	90	4.1	525	0.25	90	2.3	625	0.17	90	
253.4	11.0	375	0.48	90	5.5	460	0.29	90	3.6	525	0.22	90	2.0	625	0.15	90	
286.0	9.8	375	0.43	90	4.9	460	0.26	90	3.1	525	0.19	90	1.7	625	0.12	90	
298.8	9.4	375	0.41	90	4.7	460	0.25	90	3.0	525	0.18	90	1.7	590	0.12	90	
342.9	8.2	375	0.36	90	4.1	460	0.22	90	2.6	525	0.16	90	1.5	607	0.11	90	
387.0	7.2	375	0.31	90	3.6	460	0.19	90	2.3	525	0.14	90	1.3	618	0.09	90	

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OR 90

44.0

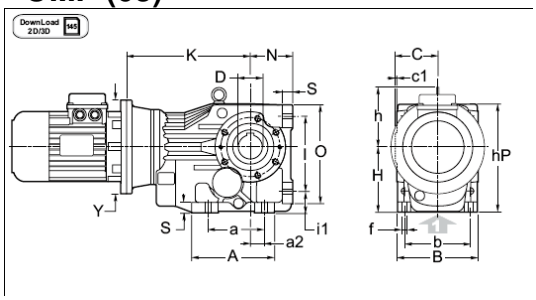
ir	n_1 = 2800 min^{-1}				n_1 = 1400 min^{-1}				n_1 = 900 min^{-1}				n_1 = 500 min^{-1}				IEC
	n_2 min^{-1}	T_{2M} Nm	P kW	RD %	n_2 min^{-1}	T_{2M} Nm	P kW	RD %	n_2 min^{-1}	T_{2M} Nm	P kW	RD %	n_2 min^{-1}	T_{2M} Nm	P kW	RD %	
7.2	388	325	14.7	90	194	430	9.7	90	125	457	6.6	90	69	545	4.4	90	
9.0	310	350	12.6	90	155	450	8.1	90	100	490	5.7	90	55	586	3.7	90	
10.1	276	357	11.5	90	138	500	8.0	90	89	550	5.7	90	49	600	3.4	90	
11.5	244	400	11.4	90	122	520	7.4	90	79	560	5.1	90	44	613	3.1	90	
13.0	215	406	10.2	90	108	540	6.8	90	69	570	4.6	90	38	613	2.7	90	
14.0	200	528	12.3	90	100	590	6.9	90	64	740	5.5	90	36	850	3.6	90	
15.7	178	570	11.8	90	89	720	7.5	90	57	780	5.2	90	32	950	3.5	90	
17.7	158	570	10.5	90	79	750	6.8	90	51	820	4.9	90	28	950	3.1	90	
20.1	139	610	9.9	90	70	790	6.4	90	45	870	4.6	90	25	950	2.8	90	
23.0	122	640	9.1	90	61	820	5.8	90	39	900	4.1	90	22	950	2.4	90	
25.7	109	700	8.9	90	55	900	5.8	90	35	980	4.0	90	19.5	1122	2.5	90	
28.8	97	740	8.4	90	49	910	5.2	90	31	1040	3.8	90	17.3	1122	2.3	90	132 B5 132 B14
32.5	86	740	7.4	90	43	910	4.6	90	28	1040	3.4	90	15.4	1122	2.0	90	
36.9	76	740	6.5	90	38	910	4.0	90	24	1040	2.9	90	13.5	1122	1.8	90	112 B5 112 B14
42.2	66	740	5.7	90	33	910	3.5	90	21	1040	2.5	90	11.9	1122	1.6	90	
45.2	62	740	5.3	90	31	910	3.3	90	19.9	1040	2.4	90	11.1	1122	1.4	90	100 B5 100 B14
52.4	53	740	4.6	90	27	910	2.9	90	17.2	1040	2.1	90	9.5	1122	1.2	90	
59.5	47	740	4.0	90	24	910	2.5	90	15.1	1040	1.8	90	8.4	1122	1.1	90	90 B5 90 B14
73.3	38	740	3.3	90	19.1	910	2.0	90	12.3	1040	1.5	90	6.8	1122	0.89	90	
80.7	35	740	3.0	90	17.4	910	1.8	90	11.2	1040	1.4	90	6.2	1122	0.81	90	80 B5 80 B14
92.5	30	740	2.6	90	15.1	910	1.6	90	9.7	1040	1.2	90	5.4	1122	0.70	90	
94.4	30	740	2.6	90	14.8	910	1.6	90	9.5	1040	1.1	90	5.3	1122	0.69	90	71 B5
106.7	26	740	2.2	90	13.1	910	1.4	90	8.4	1040	1.0	90	4.7	1122	0.61	90	
122.3	23	740	2.0	90	11.4	910	1.2	90	7.4	1040	0.90	90	4.1	1122	0.54	90	
131.1	21	740	1.8	90	10.7	910	1.1	90	6.9	1040	0.83	90	3.8	1122	0.50	90	
151.9	18.4	740	1.6	90	9.2	910	0.97	90	5.9	1040	0.71	90	3.3	1122	0.43	90	
165.2	16.9	740	1.5	90	8.5	910	0.90	90	5.4	1040	0.65	90	3.0	1122	0.39	90	
212.6	13.2	740	1.1	90	6.6	910	0.70	90	4.2	1040	0.51	90	2.4	1122	0.31	90	
234.1	12.0	740	1.0	90	6.0	910	0.64	90	3.8	1040	0.46	90	2.1	1122	0.27	90	
268.3	10.4	740	0.90	90	5.2	910	0.55	90	3.4	1040	0.41	90	1.9	1122	0.25	90	
294.9	9.5	740	0.82	90	4.7	910	0.50	90	3.1	1040	0.38	90	1.7	1122	0.22	90	
309.6	9.0	740	0.77	90	4.5	910	0.48	90	2.9	1040	0.35	90	1.6	1122	0.21	90	
338.1	8.3	740	0.71	90	4.1	910	0.43	90	2.7	1040	0.33	90	1.5	1122	0.20	90	
390.0	7.2	740	0.62	90	3.6	910	0.38	90	2.3	1040	0.28	90	1.3	1122	0.17	90	

OR 112

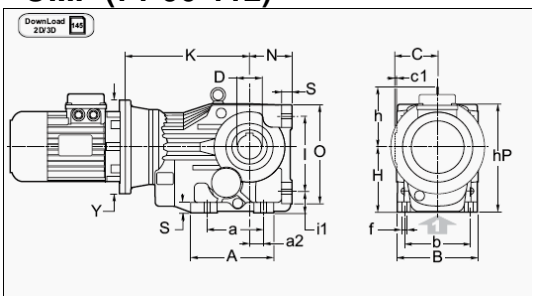
68.0

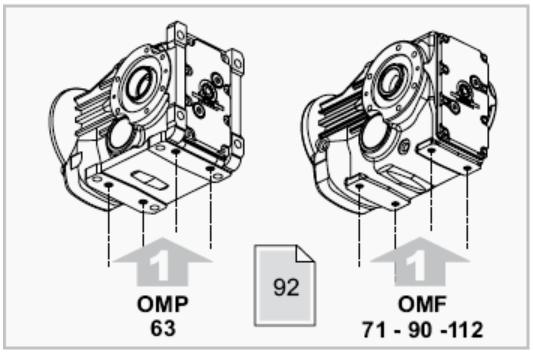
ir	n_1 = 2800 min^{-1}				n_1 = 1400 min^{-1}				n_1 = 900 min^{-1}				n_1 = 500 min^{-1}				IEC
	n_2	T_{2M}	P	RD	n_2	T_{2M}	P	RD	n_2	T_{2M}	P	RD	n_2	T_{2M}	P	RD	
	min^{-1}	Nm	kW	%	min^{-1}	Nm	kW	%	min^{-1}	Nm	kW	%	min^{-1}	Nm	kW	%	
7.7	366	540	23	90	183	670	14.3	90	118	760	10.4	90	65	800	6.1	90	
8.9	315	580	21	90	157	715	13.1	90	101	810	9.5	90	56	850	5.5	90	
11.8	238	690	19.1	90	119	850	11.8	90	77	970	8.7	90	43	1000	5.0	90	
13.1	214	720	17.9	90	107	890	11.1	90	69	1000	8.0	90	38	1050	4.6	90	
16.1	174	940	19.0	90	87	1160	11.7	90	56	1300	8.5	90	31	1400	5.0	90	
17.9	156	1000	18.2	90	78	1230	11.2	90	50	1400	8.1	90	28	1450	4.7	90	
20.9	134	1040	16.2	90	67	1280	10.0	90	43	1460	7.3	90	24	1500	4.2	90	
22.3	126	1350	19.8	90	63	1750	12.8	90	40	1850	8.6	90	22	1900	4.9	90	
23.6	119	1100	15.2	90	59	1350	9.3	90	38	1540	6.8	90	21	1500	3.7	90	
25.6	109	1130	14.3	90	55	1400	9.0	90	35	1600	6.5	90	19.5	1600	3.6	90	
29.4	95	1420	15.7	90	48	1750	9.8	90	31	1900	6.9	90	17.0	1900	3.8	90	
32.8	85	1450	14.3	90	43	1750	8.8	90	27	1900	6.0	90	15.2	1900	3.4	90	
38.2	73	1450	12.3	90	37	1750	7.5	90	24	1900	5.3	90	13.1	1900	2.9	90	
43.2	65	1450	11.0	90	32	1750	6.5	90	21	1900	4.6	90	11.6	1900	2.6	90	160 B5
46.8	60	1450	10.1	90	30	1750	6.1	90	19.2	1900	4.2	90	10.7	1900	2.4	90	132 B5
53.4	52	1450	8.8	90	26	1750	5.3	90	16.9	1900	3.7	90	9.4	1900	2.1	90	112 B5
57.2	49	1450	8.3	90	24	1750	4.9	90	15.7	1900	3.5	90	8.7	1900	1.9	90	
64.6	43	1450	7.3	90	22	1750	4.5	90	13.9	1900	3.1	90	7.7	1900	1.7	90	100 B5
77.0	36	1450	6.1	90	18.2	1750	3.7	90	11.7	1900	2.6	90	6.5	1900	1.4	90	90 B5
85.4	33	1450	5.6	90	16.4	1750	3.3	90	10.5	1900	2.3	90	5.9	1900	1.3	90	80 B5
93.9	30	1450	5.1	90	14.9	1750	3.0	90	9.6	1900	2.1	90	5.3	1900	1.2	90	
102.8	27	1450	4.6	90	13.6	1750	2.8	90	8.8	1900	1.9	90	4.9	1900	1.1	90	
110.9	25	1450	4.2	90	12.6	1750	2.6	90	8.1	1900	1.8	90	4.5	1900	0.99	90	
125.2	22	1450	3.7	90	11.2	1750	2.3	90	7.2	1900	1.6	90	4.0	1900	0.88	90	
135.6	21	1450	3.5	90	10.3	1750	2.1	90	6.6	1900	1.5	90	3.7	1900	0.82	90	
154.8	18.1	1450	3.1	90	9.0	1750	1.8	90	5.8	1900	1.3	90	3.2	1900	0.71	90	
166.0	16.9	1450	2.9	90	8.4	1750	1.7	90	5.4	1900	1.2	90	3.0	1900	0.66	90	
194.9	14.4	1450	2.4	90	7.2	1750	1.5	90	4.6	1750	0.94	90	2.6	1750	0.53	90	
223.5	12.5	1450	2.1	90	6.3	1750	1.3	90	4.0	1900	0.88	90	2.2	1900	0.49	90	
247.9	11.3	1450	1.9	90	5.6	1750	1.1	90	3.6	1900	0.80	90	2.0	1900	0.44	90	
272.4	10.3	1450	1.7	90	5.1	1750	1.0	90	3.3	1900	0.73	90	1.8	1900	0.40	90	
298.1	9.4	1450	1.6	90	4.7	1750	0.96	90	3.0	1900	0.66	90	1.7	1900	0.38	90	
342.9	8.2	1450	1.4	90	4.1	1750	0.83	90	2.6	1750	0.53	90	1.5	1750	0.31	90	
375.3	7.5	1450	1.3	90	3.7	1750	0.75	90	2.4	1750	0.49	90	1.3	1750	0.26	90	

OMP (63)

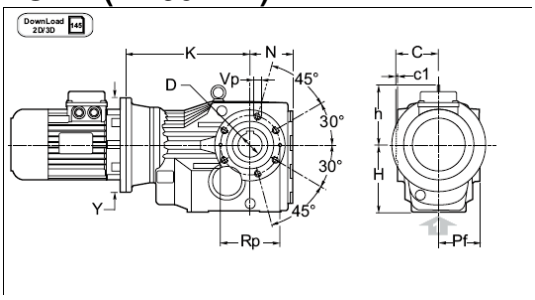


OMP (71-90-112)

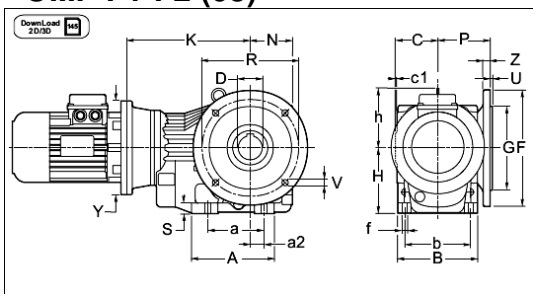




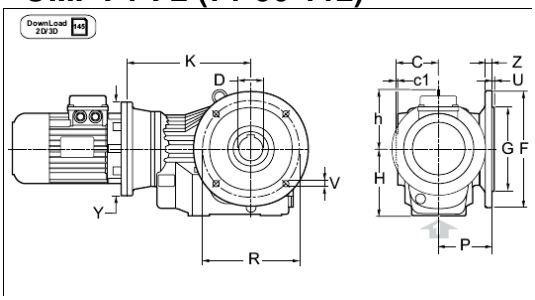
OMF (71-90-112)



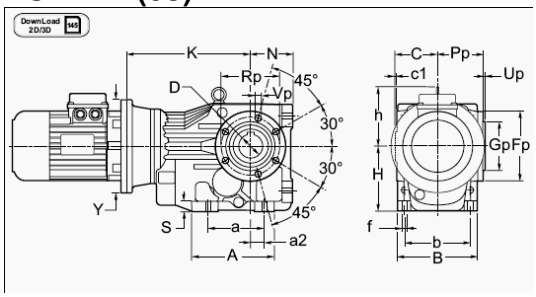
OMP F1-F2 (63)



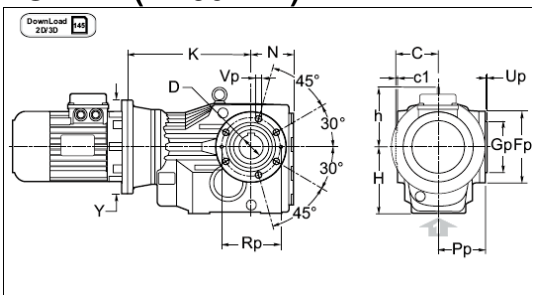
OMF F1-F2 (71-90-112)



OMP P (63)



OMF P (71-90-112)



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OM.	a	A	a2	b	B	C	c1	D H7	f	h	H	hP	l	i1	N	O	Pf	S
63	110	147	28	100	120	60	2,5	30 (25) (28)	11	100	100	170	115	32	63	150	57.5	14
71	130	165	35	120	142	75	3	35 (30) (32)	11	108	112	183	130	37	71	170	72	18
90	120	182	30	140	170	90	3.5	40 (42) (45) (48)	14	129	140	232	160	45	90	212	86.5	22
112	150	215	40	165	200	105	4	50 (55)	17.5	151	180	294	200	56	112	264	101	25

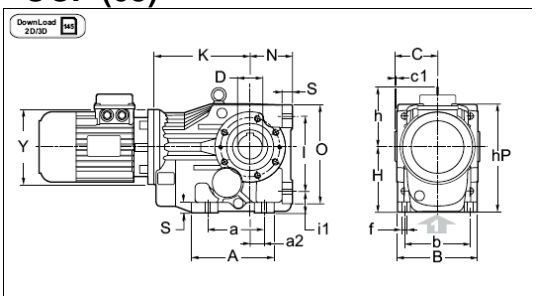
OM.	Gp g6	Fp	Pp	Rp	Up	Vp		F	G g6	P	R	U	V	Z
63	80	105	69	90	3	N°6 M6x12	F1	160	110	84	130	3.5	N°4 ϕ 9	10
							F2	-	-		-	-	-	-
71	80	120	83	100	3	N°6 M8x15	F1	200	130	100	165	3.5	N°4 ϕ 11	12
							F2	160	110		130	3.5	N°4 ϕ 9x5	10
90	105	150	98.5	125	3.5	N°6 M12x18	F1	250	180	113	215	4	N°4 ϕ 13.5	15
							F2	-	-		-	-	-	-
112	125	175	115	150	3.5	N°6 M14x18	F1	300	230	142	265	4	N°4 ϕ 13.5	16
							F2	-	-		-	-	-	-

OM.	IEC	63		71		90		112	
		Y	K	Y	K	Y	K	Y	K
	B5	140	193	140	217	160	249	200	304
		160	193	160	217	200	264	250	319
		200	213	200	237	250	274	300	340
		250	223	250	247	300	300	350	370
	B14	120	213	120	237	120	264	-	-
		140	213	140	237	140	264	-	-
		160	223	160	247	160	274	-	-
		-	-	-	-	200	300	-	-

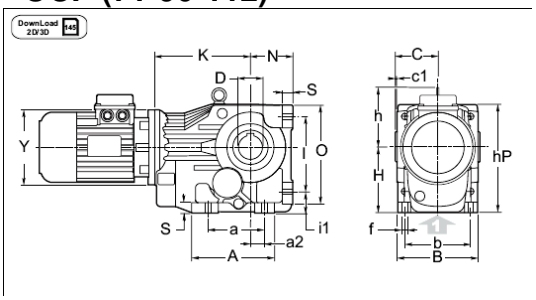
Dimensioni riduttori
Dimensions gearboxes
Abmessungen Getriebes

OC

OCP (63)



OCP (71-90-112)



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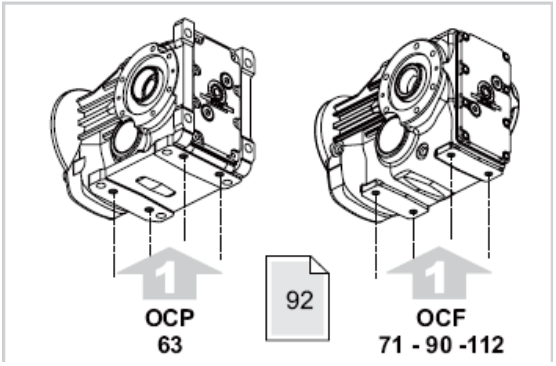
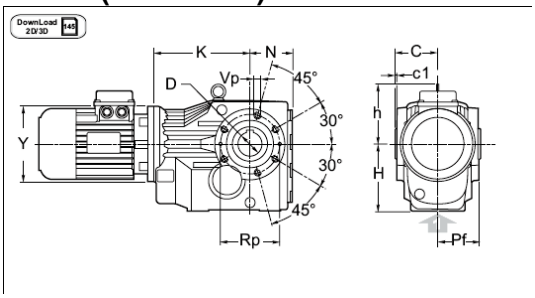
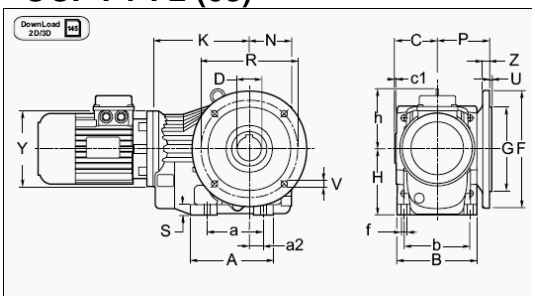


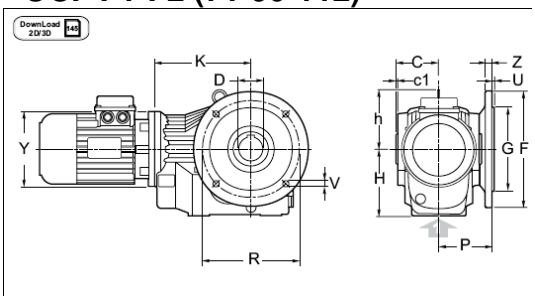
OCF (71-90-112)



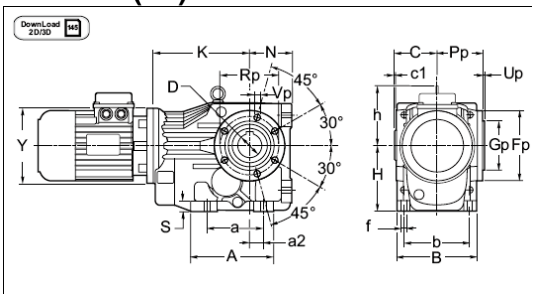
OCP F1-F2 (63)



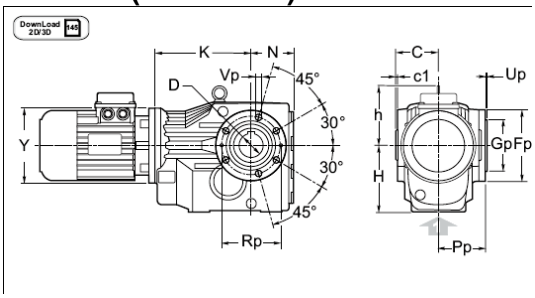
OCF F1-F2 (71-90-112)



OCP P (63)



OCF P (71-90-112)



OC.	a	A	a2	b	B	C	c1	D H7	f	h	H	hP	l	i1	N	O	Pf	S
63	110	147	28	100	120	60	2,5	30 (25) (28)	11	100	100	170	115	32	63	150	57.5	14
71	130	165	65	120	142	75	3	35 (30) (32)	11	108	112	183	130	37	71	170	72	18
90	120	182	430	140	170	90	3.5	40 (42) (45) (48)	14	129	140	232	160	45	90	212	86.5	22
112	150	215	40	165	200	105	4	50 (55)	17.5	151	180	294	200	55	112	264	101	25

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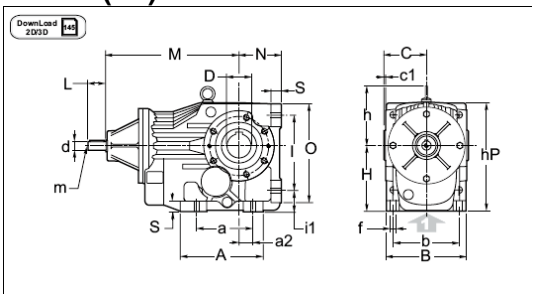
OC.	Gp g6	Fp	Pp	Rp	Up	Vp		F	G g6	P	R	U	V	Z
63	80	105	69	90	3	N°6 M6x12	F1	160	110	84	130	3.5	N°4 ϕ 9	10
							F2	-	-		-	-	-	-
71	80	120	83	100	3	N°6 M8x15	F1	200	130	100	165	3.5	N°4 ϕ 11	12
							F2	160	110		130	3.5	N°4 ϕ 9x5	10
90	105	150	98.5	125	3.5	N°6 M12x18	F1	250	180	113	215	4	N°4 ϕ 13.5	15
							F2	-	-		-	-	-	-
112	125	175	115	150	3.5	N°6 M14x18	F1	300	230	142	265	4	N°4 ϕ 13.5	16
							F2	-	-		-	-	-	-

OC.	63		71		90		112	
	Y	K	Y	K	Y	K	Y	K
	140	154	140	178	160	205	200	252

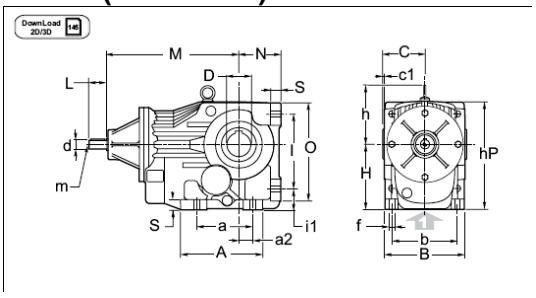
Dimensioni riduttori
Dimensions gearboxes
Abmessungen Getriebes

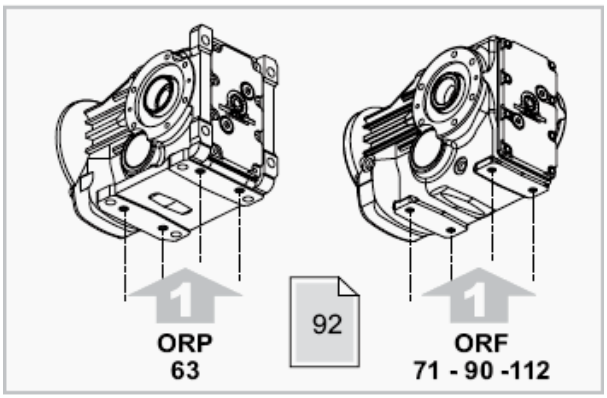
OR

ORP (63)

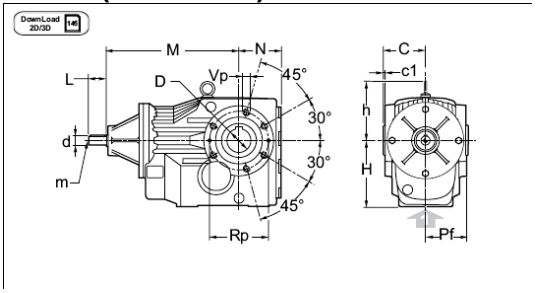


ORP (71-90-112)





ORF (71-90-112)



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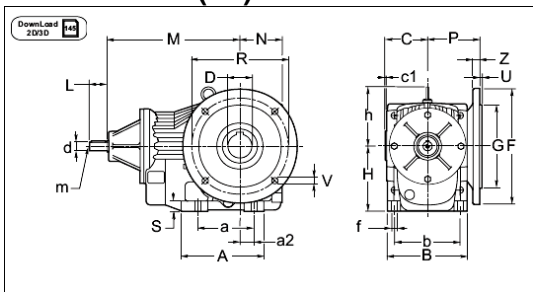
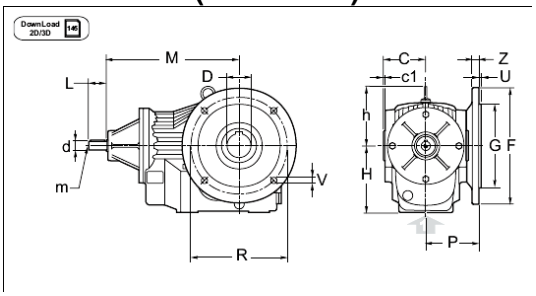
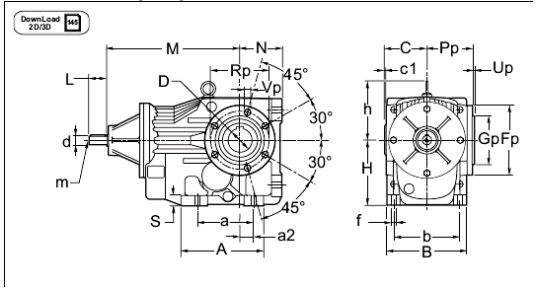
ORP F1-F2 (63)



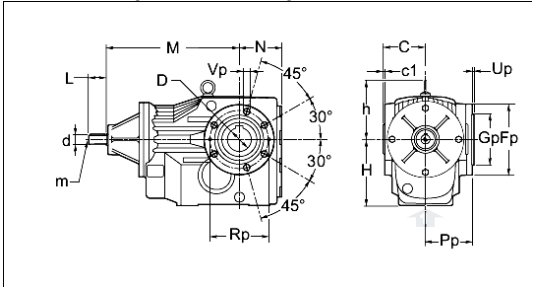
ORF F1-F2 (71-90-112)



ORP P (63)



ORF P (71-90-112)



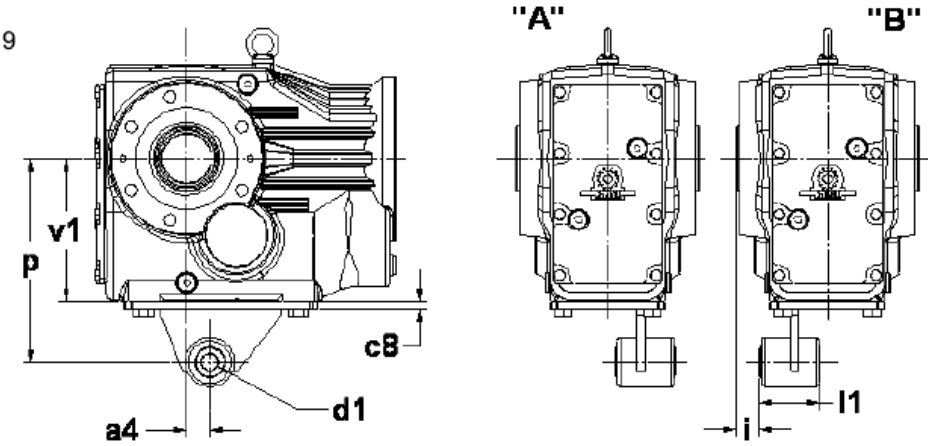
OR.	a	A	a2	b	B	C	c1	D H7	d j6	f	h	H	hP	l	i1	L	m	M	N	O	Pf	S
63	110	147	28	100	120	60	2,5	30 (25) (28)	16	11	100	100	170	115	32	40	M6	170	63	150	57.5	14
71	130	165	35	120	142	75	3	35 (30) (32)	16	11	108	112	183	130	37	40	M6	246	71	170	72	18
90	120	182	30	140	170	90	3.5	40 (42) (45) (48)	19	14	129	140	232	160	45	40	M6	283	90	212	86.5	22
112	150	215	40	165	200	105	4	50 (55)	24	17.5	151	180	294	200	55	50	M8	328	112	264	101	25

OR.	Gp g6	Fp	Pp	Rp	Up	Vp		F	G g6	P	R	U	V	Z
63	80	105	69	90	3	N°6 M6x12	F1	160	110	84	130	3.5	N°4 ϕ 9	10
							F2	-	-		-	-	-	-
71	80	120	83	100	3	N°6 M8x15	F1	200	130	100	165	3.5	N°4 ϕ 11	12
							F2	160	110		130	3.5	N°4 ϕ 9x5	10
90	105	150	98.5	125	3.5	N°6 M12x18	F1	250	180	113	215	4	N°4 ϕ 13.5	15
							F2	-	-		-	-	-	-
112	125	175	115	150	3.5	N°6 M14x18	F1	300	230	142	265	4	N°4 ϕ 13.5	16
							F2	-	-		-	-	-	-

ACCESORIOS

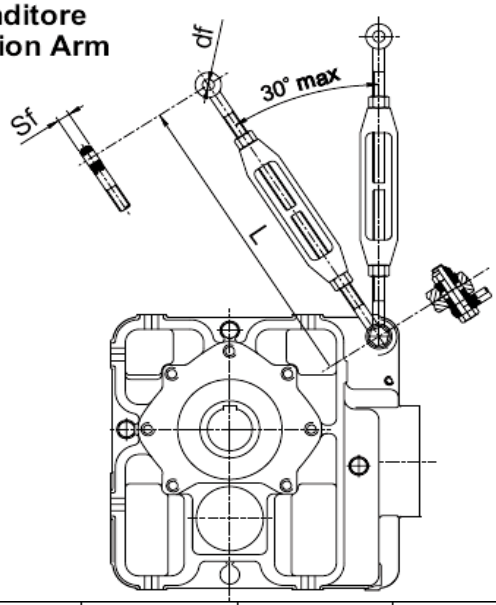
BRAZO DE REACCION

Fig. 3.19



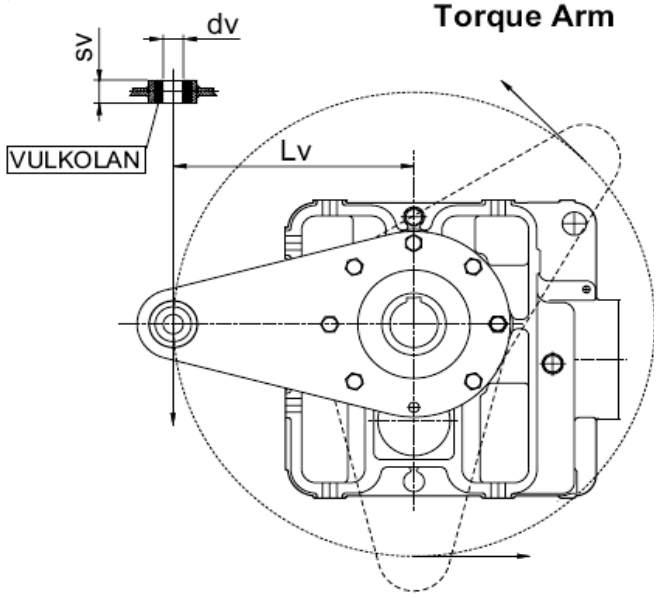
OM - OC - OR	a4	c8	i	p	v1	d1	l1	viti
63	23.5	6	20	140	100	10 ± 0.1	36	N° 4TE M10x30 + N° 4 DADI
71	30	6	20	160	112	10 ± 0.1	36	N° 4TE M10x25
90	45	8	25	200	140	16 ± 0.1	60	N° 4TE M12x25
112	52.5	10	25	250	180	16 ± 0.1	60	N° 4TE M16x30

Tenditore
Tension Arm



ROC	df	sf	L
125	16	17	420 - 520
140	16	17	420 - 520
160	20	24	540 - 640
180	20	24	540 - 640
200	24	30	540 - 640

Torque Arm



ROC	dv	sv	Lv
125	25	30	300
140	25	30	350
160	35	35	400
180	35	35	450
200	35	35	450

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