

COAXIAL GEARBOXES

412A-512A-612A Input Speed 1440

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_M [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{1R} [Nm]	Available B5 motor flanges				Available B14 motor flanges				Output Shaft		Ratios code	
							-B	-C	-D	-E	-F	-Q	-R	-T	-U	Ø		On request
398	3.52	3	68	1.2	3.5	80	B										2821	01
321	4.37	3	84	1.1	3.1	90	B										2818	02
252	5.56	3	107	0.9	2.7	100	B										2813	03
220	6.36	2.2	90	1.2	2.5	105	B										1921	04
191	7.33	2.2	104	1.2	2.5	120	B										2812	05
177	7.89	2.2	112	1.2	2.5	130	B										1918	06
139	10.06	2.2	143	1.2	2.5	165	B										1913	08
120	11.66	2.2	166	1.0	2.2	165	B										1713	09
106	13.26	1.5	130	1.3	1.9	165	B										1912	10
102	13.68	1.5	134	1.2	1.8	165	B										1513	25
91	15.37	1.5	151	1.1	1.6	165	B										1712	11
86	16.33	1.5	160	1.0	1.5	165	B										1313	26
78	18.04	1.5	177	0.9	1.4	165	B										1512	23
65	21.54	1.1	154	1.1	1.2	165	B										1312	14
63	22.29	1.1	160	1.0	1.1	165	B										1013	15
53	26.31	0.75	129	1.2	0.90	155	B										1310	16
47.6	29.40	0.75	144	1.1	0.86	165	B										1012	17
39	35.91	0.55	130	1.2	0.66	155	B										1010	18
36.5	38.37	0.55	139	1.2	0.66	165	B										912	19
29.9	46.87	0.55	170	0.9	0.51	155	B										910	20
27.6	50.67	0.37	123	1.1	0.41	137	B										712	21
22.6	61.89	0.37	150	1.0	0.38	155	B										710	22

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_M [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{1R} [Nm]	Available B5 motor flanges					Available B14 motor flanges				Output Shaft		Ratios code
							-C	-D	-E	-F	-G	-R	-T	-U	-V	Ø	On request	
398	3.61	5.5	127	1.2	6.6	155	B										3018	01
331	4.23	5.5	148	1.2	6.5	180	B										3016	02
279	5.01	5.5	176	1.2	6.4	210	B										3014	03
231	6.07	5.5	213	1.2	6.4	255	B										3012	04
206	6.81	5.5	239	1.3	6.7	300	B										2018	05
176	7.96	5.5	279	1.2	6.4	335	B										2016	07
148	9.45	5.5	331	1.1	5.8	360	B										2014	08
122	11.43	4	293	1.1	4.4	330	B										2012	09
100	14.00	3	270	1.3	3.9	360	B										1316	21
84	16.62	3	321	1.1	3.3	360	B										1314	11
70	20.10	2.2	286	1.2	2.5	330	B										1312	12
57	24.61	2.2	350	0.9	2.0	330	B										1112	20
47.6	29.41	1.5	288	1.2	1.9	360	B										814	14
39.3	35.58	1.5	349	0.9	1.4	330	B										812	15
34.6	40.50	1.1	290	1.1	1.2	320	B										614	16
31.7	44.23	1.1	316	0.8	0.88	255	B										810	17
28.6	49.00	1.1	351	0.9	1.0	330	B										612	18
23.0	60.90	0.75	299	0.8	0.64	255	B										610	19

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_M [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{1R} [Nm]	Available B5 motor flanges					Available B14 motor flanges				Output Shaft		Ratios code
							-C	-D	-E	-F	-G	-R	-T	-U	-V	Ø	On request	
388	3.61	7.5	171	1.1	8.0	190	B										3018	01
331	4.23	7.5	200	1.1	8.3	230	B										3016	02
279	5.01	7.5	238	1.1	7.9	260	B										3014	03
231	6.07	7.5	288	1.1	7.8	310	B										3012	04
206	6.81	7.5	323	1.1	7.9	350	B										2018	05
176	7.96	7.5	378	1.0	7.1	370	B										2016	07
148	9.45	5.5	331	1.2	6.6	410	B										2014	08
122	11.43	5.5	401	1.1	5.7	425	B										2012	09
100	14.00	4	359	1.2	4.7	435	B										1316	10
84	16.62	4	426	1.2	4.7	515	B										1314	11
70	20.10	4	515	1.0	4.0	530	B										1312	12
57	24.61	3	475	1.1	3.3	530	B										1112	20
47.6	29.41	2.2	418	1.1	2.3	450	B										814	14
39.3	35.58	2.2	506	1.0	2.3	530	B										812	15
34.6	40.50	1.1	290	1.1	1.2	320	B										614	16
31.7	44.23	1.5	433	0.9	1.4	410	B										810	17
28.6	49.00	1.1	351	1.1	1.2	400	B										612	18
23.0	60.90	1.1	436	0.9	1.0	410	B										610	19

412A

512A

612A

FROM 0.18kw to 45kw



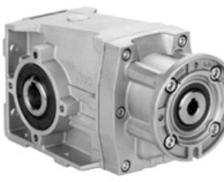
Worm gearboxes
0.18kW to 7.5kW
14mm to 42mm shaft



Square worm gearboxes
0.09kW to 15kW
14mm to 50mm shaft



Aluminium In-line helical gearboxes
0.25kW to 7.5kW
14mm to 35mm shaft



Aluminium helical bevel gearboxes
0.09kW to 5.5kW
20mm to 35mm shaft



Cast Iron In-line helical gearboxes
0.18kW to 45kW
30mm to 70mm shaft



Cast Iron helical bevel gearboxes
1.1kW to 45kW
40mm to 70mm shaft

THE HYDROMEC FAMILY IN AUSTRALIA



Manufactured in Italy
HYDRO·MEC



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Kewdale WA 6105
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Smithfield NSW 2164
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Wingfield SA 5013
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Bunbury Bearings
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Ph: (08) 9144 2333

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Coopers Plains Linear dept
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INDONESIA
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Wingfield Linear dept
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Collie
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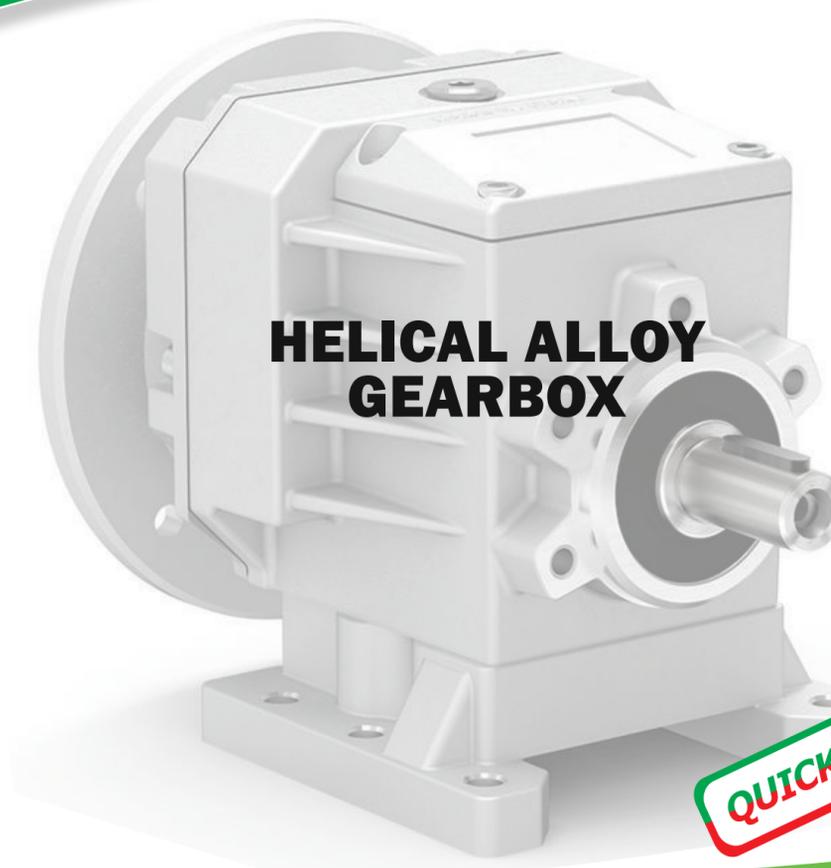
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HELICAL ALLOY GEARBOX

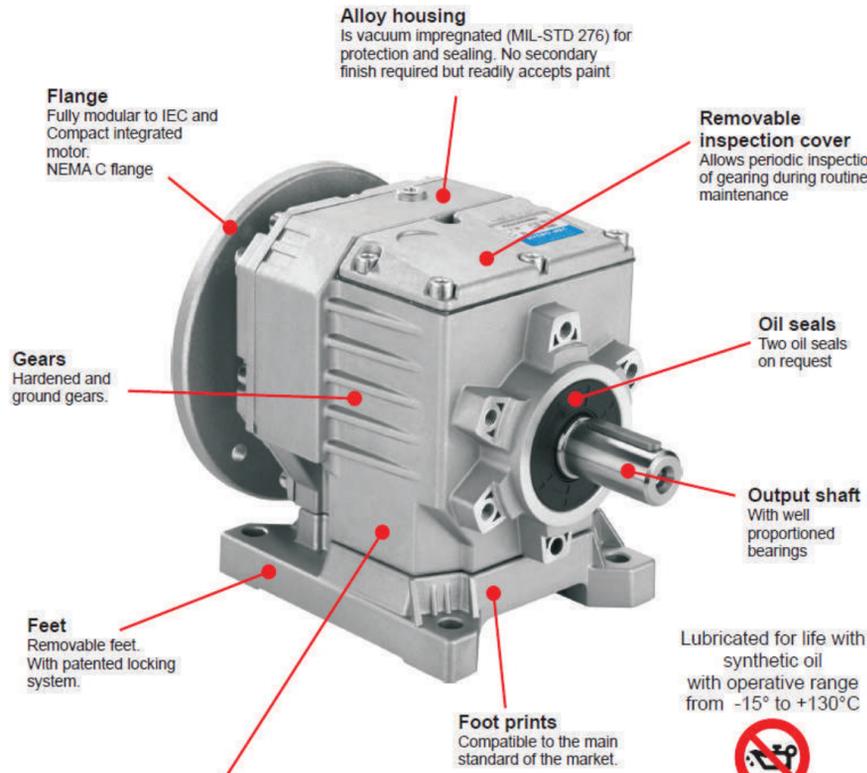
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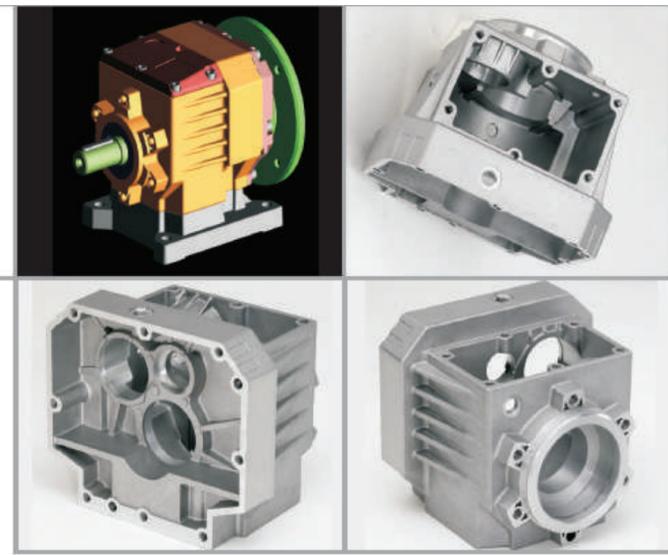


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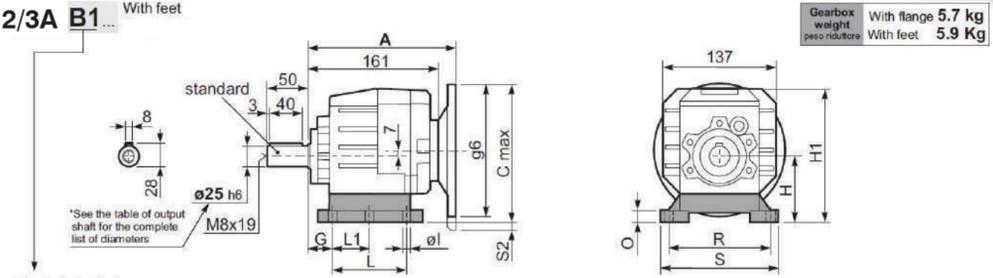
Modular & Compact



Single-piece aluminum alloy housing
Combines light weight with high tensile strength. Precision machined for alignment of bearings and gearing



412/3A B1... With feet



Feet / piedini

Feet Code	Market reference	G	H	R	L	L1	S	H1	O	øl	S2 only with motor flange	B5 max. Flange	kit code
B1	112	18	85	110	87	50	130	167.5	15	-	80/90B5 100/112B5	-	KC35.9.021
B2	212/3	18	100	130	107.5	60	155	182.5	17	11	18 100/112B5	-	KC40.9.025
S1	17	18	75	110	90+110	50	145	155.5	15	9	18 80/90B5 43 100/112B5	-	KC40.9.022
S2	27	25	90	110	130	-	145	172.5	20	9	3 80/90B5 28 100/112B5	-	KC40.9.024
H2	022-223	25	100	110	115	-	145	182.5	20	9	18 100/112B5	-	KC40.9.026
M1	42/3	25	80	110+120	85	-	145	162.5	15	9	13 80/90B5 38 100/112B5	-	KC40.9.023

Gearbox weight
peso riduttore

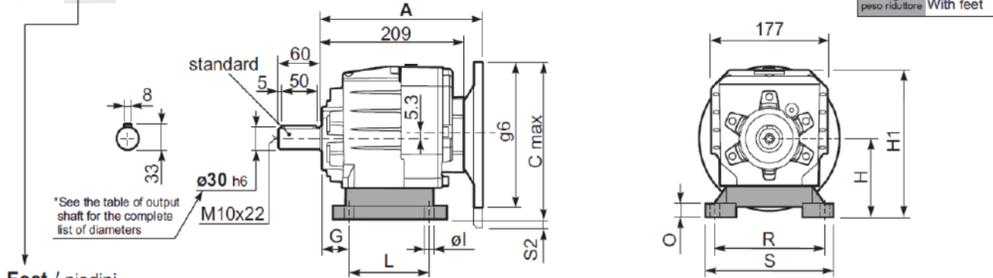
With flange 5.7 kg
With feet 5.9 Kg

Other feet are available, see our web site

A see on page bottom

Most popular types

512/3A B1... With feet



Feet / piedini

Feet Code	Market reference	G	H	R	L	S	H1	O	øl	S2 only with motor flange	B5 max. Flange	kit code
B3	312/3	18	110	160	130	190	211	20	11	10 100/112B5 35 132B5	-	KC50.9.024
B4	30/35	20	130	180	149.5	216	231	18	14	15 132B5	-	KC60.9.024
S4	47-57	30	115	135	165	170	216	25	14	5 100/112B5 30 132B5	-	KC50.9.022
H3	023-233	30	130	135	135	185	231	25	14	15 132B5	-	KC50.9.025
M2	52/3	30	110	135-150	100	190	211	18	11	10 100/112B5 35 132B5	-	KC50.9.023

Gearbox weight
peso riduttore

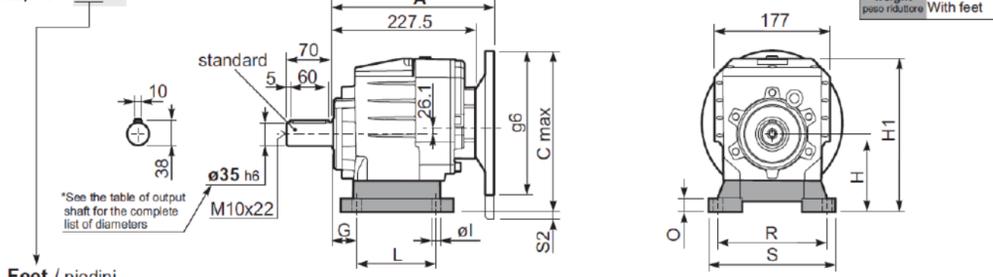
With flange 11.7 kg
With feet 11.9 Kg

Other feet are available, see our web site

A see on page bottom

Most popular types

612/3A B1... With feet



Feet / piedini

Feet Code	Market reference	G	H	R	L	S	H1	O	øl	S2 only with motor flange	B5 max. Flange	kit code
B4	412/3	20	130	180	149.5	216	242	18	14	-	-	KC60.9.024
S4	47-57	30	115	135	165	170	227	25	14	13 132B5	-	KC50.9.022
M3	62/3	35	120	170-185	110	230	232	20	14	8 132B5	-	KC60.9.023
S7	77	35	140	170	205	204	252	8	14	-	-	KC60.9.029LM
H4	024-243	35	155	170	150	225	267	30	14	-	-	KC60.9.025

Gearbox weight
peso riduttore

With flange 14.3 kg
With feet 14.7 Kg

Other feet are available, see our web site

A see on page bottom

Most popular types

413A-513A-613A Input Speed 1440

Rating - Aluminum COAXIAL GEARBOXES

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_M [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{1R} [Nm]	Available B5 motor flanges		Available B14 motor flanges			Output Shaft	Ratios code
							-B	-C	-O	-P	-Q		
36.5	38.40	0.37	91	1.8	0.67	165	63	71	C	C		171713	02
32.0	43.69	0.37	104	1.6	0.59	165			C	C		191712	03
27.6	50.64	0.37	120	1.4	0.51	165			C	C		171712	04
26.2	53.36	0.37	127	1.3	0.47	160			C	C		191710	05
22.9	61.21	0.37	145	1.2	0.43	170			C	C		191312	06
22.6	61.85	0.37	147	1.1	0.40	160			C	C		171710	07
19.7	70.95	0.37	168	1.0	0.37	170			C	C		131712	08
19.1	73.43	0.37	174	1.0	0.37	175			C	C		101713	09
18.7	74.77	0.37	177	0.9	0.33	160			C	C		191310	10
16.2	86.66	0.25	139	1.2	0.29	160			C	C		131710	11
14.5	96.85	0.25	155	1.1	0.27	170			C	C		101712	12
13.6	102.89	0.25	165	1.1	0.27	175			C	C		101313	13
11.1	126.40	0.18	155	1.1	0.21	170			C	C		101312	17
10.3	135.69	0.18	166	1.0	0.20	170			C	C		101312	15
8.4	165.74	0.12	131	1.2	0.15	160			C	C		101310	16
7.9	177.09	0.12	140	1.2	0.15	170			C	C		91312	18
6.5	216.31	0.09	136	1.2	0.12	160			C	C		91310	19

513A

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_M [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{1R} [Nm]	Available B5 motor flanges				Available B14 motor flanges			Output Shaft	Ratios code
							-B	-C	-D	-E	-Q	-R	-T		
35.2	39.79	1.5	382	0.9	1.4	360	B				C	C		191316	01
29.6	47.22	1.1	331	1.1	1.2	360	B				C	C		191314	02
25.6	54.73	1.1	384	0.9	1.0	360	B				C	C		171314	03
21.1	66.22	0.75	318	1.0	0.78	330	B				C	C		171312	04
18.3	76.69	0.75	369	1.0	0.73	360	B				C	C		131314	05
16.7	83.59	0.55	297	1.2	0.67	360	B				C	C		190814	06
15.1	92.78	0.55	329	1.0	0.55	330	B				C	C		131312	07
13.4	104.68	0.55	371	1.0	0.54	360	B				C	C		101314	08
11.9	117.22	0.37	278	1.2	0.44	330	B				C	C		170812	09
11.1	126.65	0.37	300	1.1	0.41	330	B				C	C		101312	10
10.2	136.62	0.37	324	1.1	0.41	360	B				C	C		91314	11
8.5	165.29	0.25	264	1.2	0.31	330	B				C	C		91312	12
7.8	180.40	0.25	289	1.2	0.31	360	B				C	C		71314	13
6.4	218.26	0.25	349	0.9	0.24	330	B				C	C		71312	14
5.8	241.82	0.25	387	0.9	0.23	360	B				C	C		90814	15
4.8	292.57	0.18	358	0.9	0.18	330	B				C	C		90812	16
4.4	319.32	0.18	391	0.9	0.18	360	B				C	C		70814	17
3.6	386.33	0.12	305	1.1	0.13	330	B				C	C		70812	18
2.9	480.16	0.12	380	0.7	0.08	255	B				C	C		70810	19

613A

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_M [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{1R} [Nm]	Available B5 motor flanges				Available B14 motor flanges			Output Shaft	Ratios code
							-B	-C	-D	-E	-Q	-R	-T		
35.2	39.79	1.5	382	1.1	1.7	434	B				C	C		191316	05
29.6	47.22	1.5	453	1.1	1.7	515	B				C	C		191314	06
25.6	54.73	1.5	525	1.0	1.5	515	B				C	C		171314	07
24.5	57.13	1.5	548	1.0	1.4	530	B				C	C		191312	08
21.1	66.22	1.1	484	1.1	1.2	530	B				C	C		171312	09
19.7	71.01	1.1	498	0.9	0.96	435	B				C	C		191310	10
18.3	76.69	1.1	538	1.0	1.0	515	B				C	C		131314	11
17.0	82.30	0.75	396	1.1	0.82	435	B				C	C		171310	12
16.7	83.59	0.75	402	1.1	0.82	440	B				C	C		190814	13
15.1	92.78	0.75	446	1.2	0.89	530	B				C	C		131312	14
13.4	104.68	0.75	503	1.0	0.77	515	B				C	C		101314	15
11.9	117.22	0.75	564	0.9	0.71	530	B				C	C		170812	16
11.1	126.65	0.55	449	1.2	0.65	530	B				C	C		101312	17
10.3	135.74	0.55	482	0.9	0.51	440	B				C	C		130814	18
9.6	145.68	0.37	346	1.3	0.47	435	B				C	C		170810	19
8.9	157.40	0.37	373	1.2	0.43	435	B				C	C		101310	20
8.5	165.29	0.37	392	1.3	0.50	525	B				C	C		91312	21
7.6	185.29	0.37	439	1.0	0.37	440	B				C	C		100814	22
6.8	205.43	0.37	487	0.9	0.33	435	B				C				