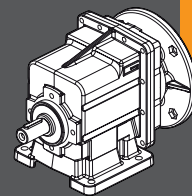
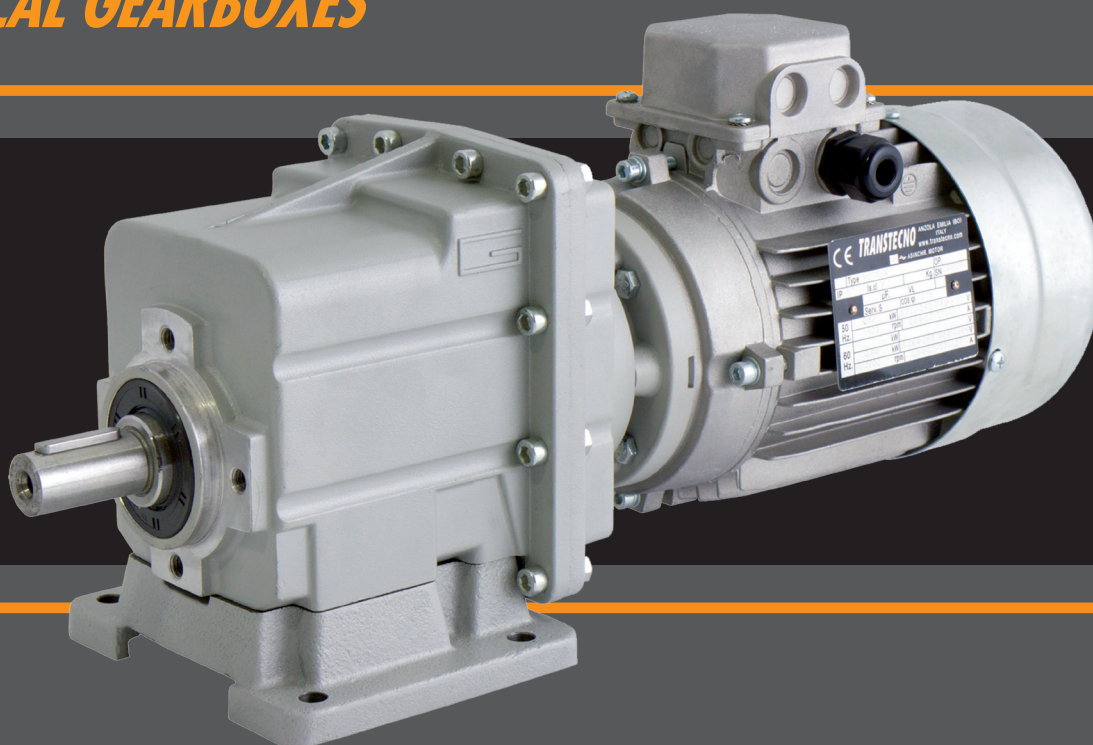


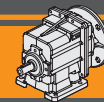
TRANSTECNO[®]
THE MODULAR GEARMOTOR

CMG



ЦИЛИНДРИЧЕСКИЕ РЕДУКТОРЫ
HELICAL GEARBOXES

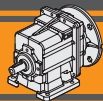




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Этот раздел заменяет все предыдущие версии и обновления. Если Вы получили каталог не через наших дистрибьюторов - не гарантируется, что этот каталог самой последней версии. Самая свежая версия всегда доступна на нашем сайте www.transtecno.com

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**CMG****ЦИЛИНДРИЧЕСКИЕ РЕДУКТОРЫ**
HELICAL GEARBOXES**Технические характеристики**

Высокая степень модульности редукторов серии CMG дает возможность выбора необходимых присоединительных фланцев и лап.

Основные характеристики:

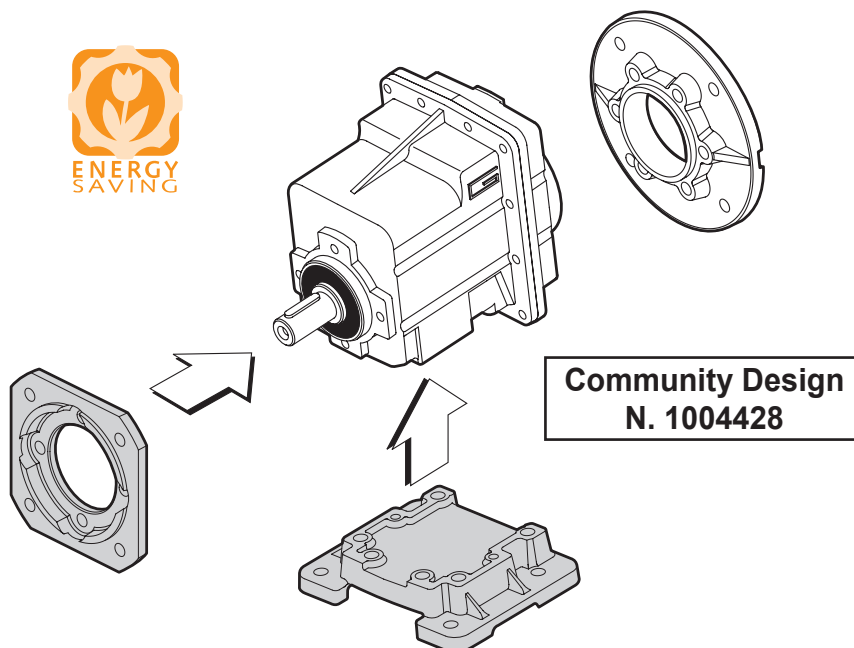
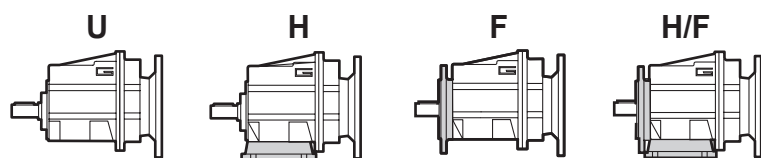
- Литой алюминиевый корпус со входными фланцами для габаритов 00, 01, 02, 03 и 04 и чугунный - для 05.
- Чугунные лапы и выходные фланцы.
- Шлифованные закаленные цилиндрические шестерни.
- Синтетическая долговечная смазка.

Technical features

The high degree of modularity is a design feature of CMG helical gearboxes range. It is possible to set up the version required using flanges or feet.

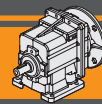
The main features of CMG range are:

- Die-cast aluminum housings and input flanges for sizes 00, 01, 02, 03 and 04. Cast iron housing on size 05;
- Cast iron feet and output flanges;
- Ground-hardened helical gears;
- Permanent synthetic oil long-life lubrication.

**Маркировка****Classification**

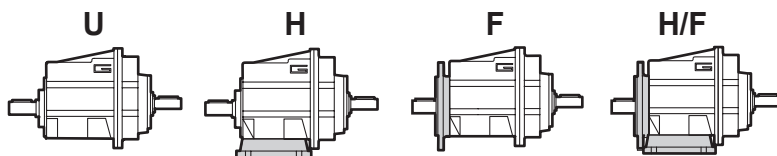
РЕДУКТОР/GEARBOX

CMG	01	2	H65	9.81	D20	71	B14	B3
Тип Type	Габарит Size	Количество ступеней Stages	Версия Version	Передаточное число Ratio	Выходной вал Output shaft	IEC 	Тип фланца Version	Монтажная позиция Mounting position
CMG	00 01 02 03 04 05	2 3	U... H... F... H.../F...	См. таблицы see tables	См. таблицы see tables	56.. — 112..	B5 B14	B3-B5 B8 B6 B7 V5-V1 V6-V3



Маркировка

Classification



CMG

РЕДУКТОР / GEARBOX

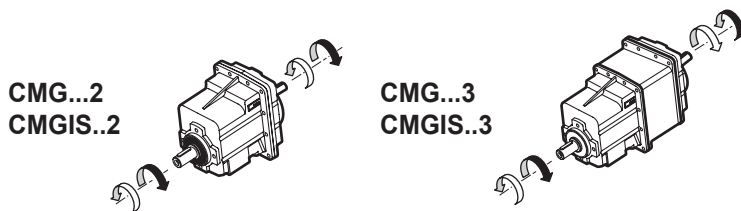
CMGIS	01	2	U	9.81	D20	B3
Тип Type	Габарит Size	Количество ступеней Stages	Версия Version	Передаточное число Ratio	Albero uscita Output shaft	Монтажная позиция Mounting position
CMGIS	01 02 03 04 05	2 3	U... H... F... H.../F...	см. таблицы see tables	см. таблицы see tables	B3-B5 B8 B6 B7 V5-V1 V6-V3

МОТОР / MOTOR

0.75kW	4p	3ph	50Hz	T1
Мощность Power	Кол-во полюсов Poles	Кол-во фаз Phases	Частота Frequency	Позиция клеммной коробки Terminal box pos.
vedi tabella see tables	2p 4p 6p 8p	1ph 3ph	50Hz 60Hz	T1 (Std) T4 T2 T3

Направление вращения

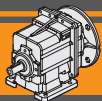
Direction of rotation



Обозначения

Symbols

n_1 [min ⁻¹]	Скорость на входе / Input speed
n_2 [min ⁻¹]	Скорость на выходе / Output speed
i	Передаточное отношение / Ratio
P_1 [kW]	Входная мощность / Input power
M_2 [Nm]	Номинальный вых. момент при мощности P_1 / Output torque referred to P_1
Pn_1 [kW]	Номинальная входная мощность / Nominal input power
Mn_2 [Nm]	Номинальный вых. момент при мощности Pn_1 / Nominal output torque referred to Pn_1
sf	Сервис фактор / Service factor
R_2 [N]	Радиальная нагрузка / Permitted output radial load
A_2 [N]	Осевая нагрузка / Permitted output axial load

**CMG****ЦИЛИНДРИЧЕСКИЕ РЕДУКТОРЫ**
HELICAL GEARBOXES**Смазка**

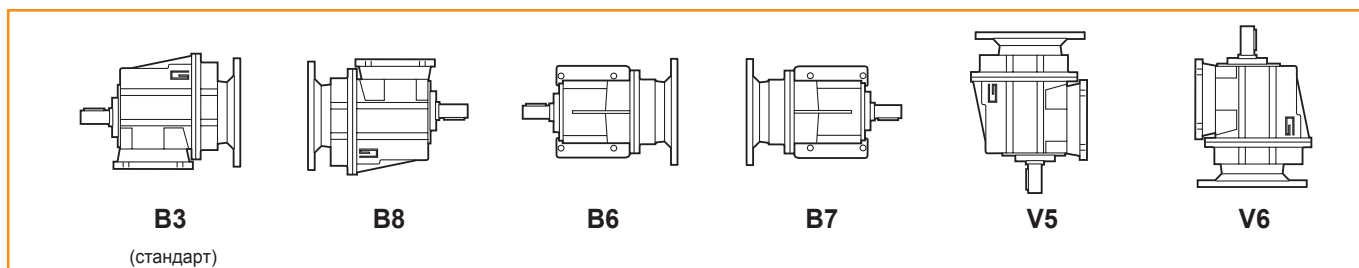
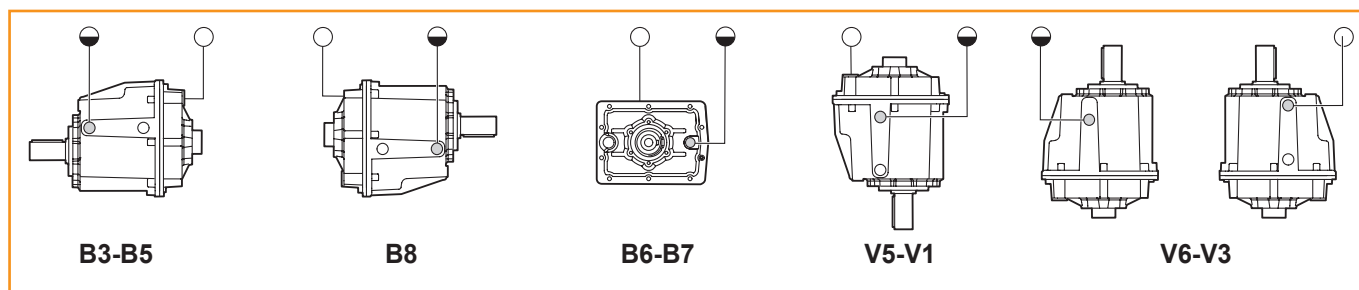
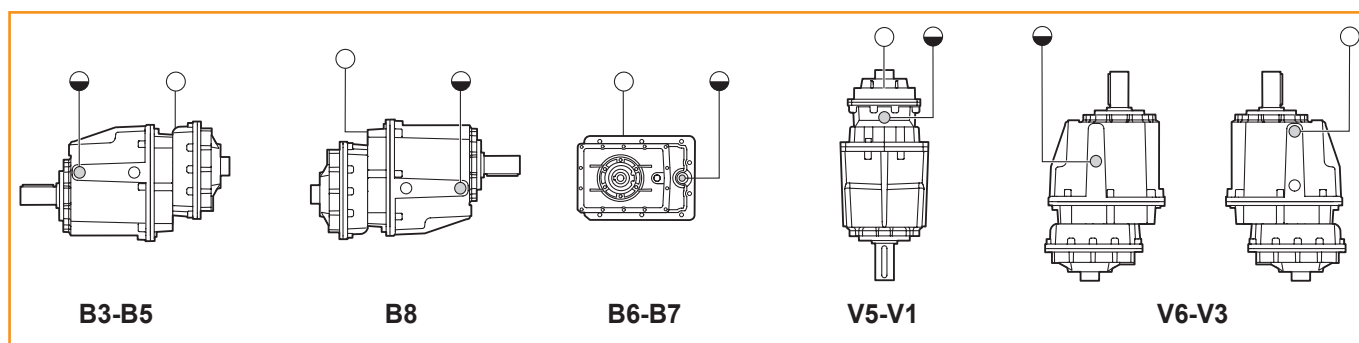
Долговечная синтетическая смазка (коэффициент вязкости 320) дает возможность применять габариты 00, 01, 02, 03 и 04 во всех монтажных позициях и исключает необходимость обслуживания редукторов.

Для 05 габарита кол-во смазки зависит от монтажной позиции.

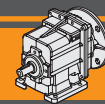
Lubrication

Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use sizes 00, 01, 02, 03 and 04 in all mounting positions; for this reason they can be installed in any assembly position and do not require maintenance. For size 05 lubrication depends on assembly position.

CMG CMGIS	Количество смазки (литры) / Oil quantity (litres)					
	B3	B8	B6	B7	V5	V6
002				0.18		
012				0.32		
013				0.94		
022				0.32		
023				0.94		
032				0.7		
033				1.8		
042				0.7		
043				1.8		
052	2.6	2	2.3	2.3	2.6	3.3
053	3.2	2.6	2.9	2.9	4.9	4.7

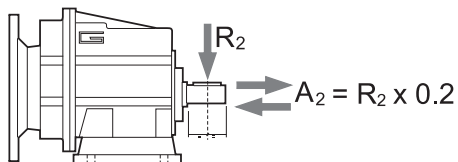
 На весь срок эксплуатации
Life lubrication
Монтажная позиция / Mounting positions**CMG 002-012-013-022-023-032-033-042-043****CMG 052****CMG 053**

○ Сапун и заливное отверстие / Breather and filling plug
 ● Контроль уровня масла / Oil level plug



Радиальные нагрузки

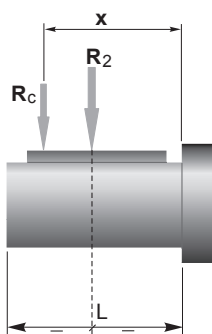
Radial loads



n ₂ [об/мин]	R ₂ [N]					
	CMG 00	CMG 01	CMG 02	CMG 03	CMG 04	CMG 05
700	416	764	1529	1987	2379	3556
600	437	805	1609	2092	2504	3744
500	465	855	1710	2223	2661	3979
400	501	921	1842	2395	2866	4286
250	586	1077	2154	2801	3353	5013
180	653	1323	2554	3321	3897	5853
150	748	1406	2714	3529	4244	6392
120	806	1631	3467	3801	4572	7388
100	958	1842	3684	4507	5234	7851
80	1032	1984	3969	5042	5991	8963
60	1136	2184	4368	5549	6594	10483
40	1300	2500	5000	6500	8000	12000
10	1300	2500	5000	6500	8000	12000

Если суммарная радиальная нагрузка не приходится на центр выходного вала, необходимо рассчитать её по формуле:

When the resulting radial load is not applied on the centre line of the shaft it is necessary to calculate the effective load with the following formula:

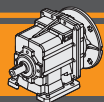


	CMG 00	CMG 01	CMG 02	CMG 03	CMG 04	CMG 05
a	73	104	117	132	150	180
b	53	84	92	102	115	140
R _{2MAX}	1300	2500	5000	6500	8000	12000

$$R_c = \frac{R_2 \cdot a}{(b + x)} \leq R_{2MAX}$$

a, b = значения из таблицы
a, b = values given in the table

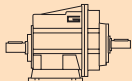
$$R \leq R_c$$

**CMG****ЦИЛИНДРИЧЕСКИЕ РЕДУКТОРЫ**
HELICAL GEARBOXES

Таблицы выбора

 n_1 1400 об/мин

Technical data

	n_2 [об/мин]	Mn_2 [Нм]	Pn_1 [кВт]	i
-----------------------------------------------------------------------------------	-------------------	----------------	-----------------	-----

CMGIS 002

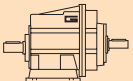
279	40	1.2	5.03
230	40	1.0	6.10
187	40	0.82	7.49
156	50	0.85	8.99
138	50	0.75	10.16
116	50	0.63	12.07
105	70	0.80	13.40
92.5	70	0.71	15.14
77.1	70	0.59	18.17
64.9	70	0.50	21.58
59.6	70	0.45	23.51
55.8	70	0.43	25.10
51.7	70	0.39	27.08
43.1	70	0.33	32.49
33.3	70	0.25	42.04
31.2	70	0.24	44.89
28.7	70	0.22	48.86

CMGIS 012

367	60	2.4	3.82
302	60	2.0	4.63
246	60	1.6	5.69
181	80	1.6	7.72
153	80	1.3	9.17
143	80	1.2	9.81
122	100	1.3	11.50
118	100	1.3	11.90
101	120	1.3	13.80
95.7	120	1.3	14.62
78.4	120	1.0	17.86
73.4	120	1.0	19.07
70.6	120	0.9	19.83
59.4	120	0.8	23.56
47.4	120	0.6	29.56
39.5	120	0.5	35.47
30.5	120	0.4	45.89
28.6	120	0.4	49.00
26.3	120	0.3	53.33

CMGIS 013

22.1	120	0.30	63.22
18.6	120	0.25	75.08
15.7	120	0.21	89.17
12.4	120	0.17	113.05
10.4	120	0.14	134.27
8.1	120	0.11	173.72
6.9	120	0.09	202.16
5.4	120	0.07	261.57
4.6	120	0.06	304.00
3.6	120	0.05	393.33

	n_2 [об/мин]	Mn_2 [Нм]	Pn_1 [кВт]	i
-----------------------------------------------------------------------------------	-------------------	----------------	-----------------	-----

CMGIS 022

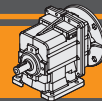
383	100	4.2	3.66
316	100	3.4	4.43
257	100	2.8	5.45
190	120	2.5	7.39
159	120	2.1	8.78
141	120	1.8	9.93
127	200	2.8	11.01
116	200	2.5	12.05
106	200	2.3	13.21
94.6	200	2.1	14.81
81.9	160	1.4	17.10
76.7	160	1.3	18.26
69.7	200	1.5	20.08
58.7	200	1.3	23.85
46.8	200	1.0	29.93
39.0	200	0.9	35.91
30.1	200	0.7	46.46
28.2	200	0.6	49.61
25.9	200	0.6	54.00

CMGIS 023

21.9	200	0.49	64.01
18.4	200	0.41	76.02
15.5	200	0.35	90.29
12.2	200	0.27	114.46
10.3	200	0.23	135.95
8.0	200	0.18	175.89
6.8	200	0.15	204.69
5.3	200	0.12	264.84
4.5	200	0.10	307.80
3.5	200	0.08	398.25

CMGIS 032

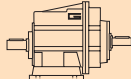
374	150	6.1	3.74
311	150	5.1	4.50
255	150	4.2	5.48
222	180	4.4	6.31
177	180	3.5	7.93
154	180	3.0	9.08
128	180	2.5	10.93
111	250	3.0	12.60
105	250	2.9	13.30
91.5	280	2.8	15.30
76.9	280	2.3	18.21
72.8	280	2.2	19.24
66.2	280	2.0	21.15
56.0	300	1.8	24.99
45.8	300	1.5	30.57
40.9	300	1.3	34.20
36.2	300	1.2	38.63
31.7	300	1.0	44.18
27.3	300	0.9	51.30
23.0	300	0.8	60.80



Таблицы выбора

n_1 1400 об/мин

Technical data

	n_2 [об/мин]	Mn_2 []	Pn_1 []	i
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CMGIS 033

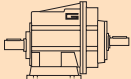
19.2	300	0.64	72.83
14.4	300	0.48	97.45
12.1	300	0.40	115.74
9.9	300	0.33	140.81
8.0	300	0.27	174.26
6.2	300	0.21	225.47
5.3	300	0.18	262.05
4.3	300	0.14	325.79
3.7	300	0.12	378.64

CMGIS 042

374	230	9.4	3.74
311	230	7.8	4.50
255	230	6.4	5.48
222	260	6.3	6.31
177	260	5.0	7.93
154	280	4.7	9.08
128	280	3.9	10.93
111	350	4.2	12.60
105	350	4.0	13.30
91.5	420	4.2	15.30
76.9	420	3.5	18.21
72.8	420	3.3	19.24
56.0	500	3.1	24.99
45.8	500	2.5	30.57
40.9	500	2.2	34.20
36.2	500	2.0	38.63
31.7	500	1.7	44.18
27.3	500	1.5	51.30
23.0	480	1.2	60.80

CMGIS 043

19.2	500	1.1	72.83
14.4	500	0.80	97.45
12.1	500	0.67	115.74
9.9	500	0.55	140.81
8.0	500	0.45	174.26
6.2	500	0.35	225.47
5.3	500	0.30	262.05
4.3	500	0.24	325.79
3.7	500	0.21	378.64

	n_2 [об/мин]	Mn_2 []	Pn_1 []	i
-----------------------------------------------------------------------------------	-------------------	---------------	---------------	-----

CMGIS 052

371	410	16.6	3.78
292	410	13.0	4.80
241	410	10.8	5.82
210	470	10.7	6.68
167	470	8.6	8.37
153	510	8.5	9.16
141	510	7.9	9.90
120	630	8.3	11.64
106	630	7.3	13.25
99.2	750	8.1	14.11
86.4	750	7.1	16.20
68.9	750	5.6	20.31
58.3	900	5.7	24.02
43.6	900	4.3	32.13
30.2	900	3.0	46.31
26.1	900	2.6	53.74

CMGIS 053

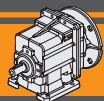
21.7	900	2.18	64.48
18.7	900	1.87	74.96
17.3	900	1.73	81.07
16.2	900	1.63	86.24
12.9	900	1.29	108.43
10.9	900	1.09	128.84
8.1	900	0.81	172.32
7.5	900	0.75	186.17
6.5	900	0.65	216.19
5.6	900	0.56	248.99
4.8	900	0.49	289.15

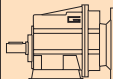

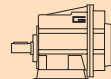

Примечание:

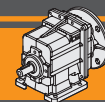
Pn_1 - входная механическая мощность, которую необходимо понизить для предотвращения возникновения перегрева. Для получения более детальной информации свяжитесь, пожалуйста, с техническим отделом.

Note:

Pn_1 is an input mechanical power which must be reduced by the heating factor in order to get the relevant one. For more details please contact our Technical Service.

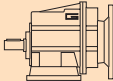

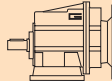

**CMG****ЦИЛИНДРИЧЕСКИЕ РЕДУКТОРЫ**
HELICAL GEARBOXES**Таблицы выбора****Technical data**

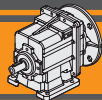
P ₁ [кВт]	n ₂ [об/мин]	M ₂ [Нм]	sf	i			P ₁ [кВт]	n ₂ [об/мин]	M ₂ [Нм]	sf	i			
0.06							0.12							
56A4 (1400 об/мин)	279	2	20.3	5.03	CMG002	B5/B14	63A4 (1400 об/мин)	22.1	49	2.5	63.22	CMG013	B5	
	230	2	16.7	6.10		B5/B14		18.6	58	2.1	75.08		B5	
	187	3	13.6	7.49		B5/B14		15.7	69	1.7	89.17		B5	
	156	4	14.2	8.99		B5/B14		12.4	87	1.4	113.05		B5	
	138	4	12.5	10.16		B5/B14		10.4	103	1.2	134.27		B5	
	116	5	10.5	12.07		B5/B14		8.1	134	0.9	173.72		B5	
	105	5	13.3	13.40		B5/B14		6.9	156	0.8	202.16		B5	
	92.5	6	11.8	15.14		B5/B14		5.4	201	0.6	261.57		B5	
	77.1	7	9.8	18.17		B5/B14		4.6	234	0.5	304.00		B5	
	64.9	8	8.3	21.58		B5/B14		3.6	303	0.4	393.33		B5	
	59.6	9	7.6	23.51		B5/B14		CMG023	21.9	49	4.1		64.01	B5
	55.8	10	7.1	25.10		B5/B14			18.4	58	3.4		76.02	B5
	51.7	11	6.6	27.08		B5/B14			15.5	69	2.9		90.29	B5
	43.1	13	5.5	32.49		B5/B14			12.2	88	2.3		114.46	B5
	33.3	17	4.2	42.04		B5/B14			10.3	105	1.9		135.95	B5
	31.2	18	4.0	44.89		B5/B14			8.0	135	1.5		175.89	B5
	28.7	19	3.6	48.86		B5/B14			6.8	157	1.3		204.69	B5
					5.3	204	1.0		264.84	B5				
					4.5	237	0.8		307.80	B5				
					3.5	306	0.7		398.25	B5				
56B4 (1400 об/мин)	279	3	13.5	5.03	CMG002	B5/B14	63B4 (1400 об/мин)	19.2	56	5.4	72.83	CMG033	B5	
	230	4	11.1	6.10		B5/B14		14.4	75	4.0	97.45		B5	
	187	4	9.1	7.49		B5/B14		12.1	89	3.4	115.74		B5	
	156	5	9.4	8.99		B5/B14		9.9	108	2.8	140.81		B5	
	138	6	8.3	10.16		B5/B14		8.0	134	2.2	174.26		B5	
	116	7	7.0	12.07		B5/B14		6.2	173	1.7	225.47		B5	
	105	8	8.9	13.40		B5/B14		5.3	202	1.5	262.05		B5	
	92.5	9	7.8	15.14		B5/B14		4.3	251	1.2	325.79		B5	
	77.1	11	6.5	18.17		B5/B14		3.7	291	1.0	378.64		B5	
	64.9	13	5.5	21.58		B5/B14		CMG043	19.2	56	8.9		72.83	B5
	59.6	14	5.1	23.51		B5/B14			14.4	75	6.7		97.45	B5
	55.8	15	4.7	25.10		B5/B14			12.1	89	5.6		115.74	B5
	51.7	16	4.4	27.08		B5/B14			9.9	108	4.6		140.81	B5
	43.1	19	3.7	32.49		B5/B14			8.0	134	3.7		174.26	B5
	33.3	25	2.8	42.04		B5/B14			6.2	173	2.9		225.47	B5
	31.2	26	2.6	44.89		B5/B14			5.3	202	2.5		262.05	B5
	28.7	29	2.4	48.86		B5/B14			4.3	251	2.0		325.79	B5
					3.7	291	1.7		378.64	B5				
0.12							0.18							
63A4 (1400 об/мин)	279	4	10.1	5.03	CMG002	B5/B14	63B4 (1400 об/мин)	279	6	6.8	5.03	CMG002	B5/B14	
	230	5	8.3	6.10		B5/B14		230	7	5.6	6.10		B5/B14	
	187	6	6.8	7.49		B5/B14		187	9	4.5	7.49		B5/B14	
	156	7	7.1	8.99		B5/B14		156	11	4.7	8.99		B5/B14	
	138	8	6.3	10.16		B5/B14		138	12	4.2	10.16		B5/B14	
	116	9	5.3	12.07		B5/B14		116	14	3.5	12.07		B5/B14	
	105	11	6.7	13.40		B5/B14		105	16	4.4	13.40		B5/B14	
	92.5	12	5.9	15.14		B5/B14		92.5	18	3.9	15.14		B5/B14	
	77.1	14	4.9	18.17		B5/B14		77.1	21	3.3	18.17		B5/B14	
	64.9	17	4.1	21.58		B5/B14		64.9	25	2.8	21.58		B5/B14	
	59.6	18	3.8	23.51		B5/B14		59.6	28	2.5	23.51		B5/B14	
	55.8	20	3.5	25.10		B5/B14		55.8	30	2.4	25.10		B5/B14	
	51.7	21	3.3	27.08		B5/B14		51.7	32	2.2	27.08		B5/B14	
	43.1	26	2.7	32.49		B5/B14		43.1	38	1.8	32.49		B5/B14	
	33.3	33	2.1	42.04		B5/B14		33.3	50	1.4	42.04		B5/B14	
	31.2	35	2.0	44.89		B5/B14		31.2	53	1.3	44.89		B5/B14	
	28.7	38	1.8	48.86		B5/B14		28.7	58	1.2	48.86		B5/B14	
63B4 (1400 об/мин)	59.4	19	6.5	23.56	CMG012	B5								
	47.4	23	5.2	29.56		B5								
	39.5	28	4.3	35.47		B5								
	30.5	36	3.3	45.89		B5								
	28.6	39	3.1	49.00		B5								
	26.3	42	2.9	53.33		B5								

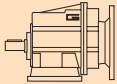

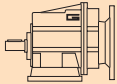



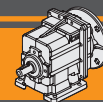
Таблицы выбора

Technical data

P ₁ [кВт]	n ₂ [об/мин]	M ₂ [Нм]	sf	i			P ₁ [кВт]	n ₂ [об/мин]	M ₂ [Нм]	sf	i		
0.18							0.25						
63B4 (1400 об/мин)	78.4	21	5.7	17.86	CMG012	B5	71A4 (1400 об/мин)	367	6	9.6	3.82	CMG012	B5/B14
	73.4	22	5.3	19.07		B5		302	8	7.9	4.63		B5/B14
	70.6	23	5.1	19.83		B5		246	9	6.4	5.69		B5/B14
	59.4	28	4.3	23.56		B5		181	13	6.3	7.72		B5/B14
	47.4	35	3.4	29.56		B5		153	15	5.3	9.17		B5/B14
	39.5	42	2.9	35.47		B5		143	16	5.0	9.81		B5/B14
	30.5	54	2.2	45.89		B5		122	19	5.3	11.50		B5/B14
	28.6	58	2.1	49.00		B5		118	19	5.1	11.90		B5/B14
	26.3	63	1.9	53.33		B5		101	23	5.3	13.80		B5/B14
								95.7	24	5.0	14.62		B5/B14
	22.1	73	1.6	63.22	CMG013	B5		78.4	29	4.1	17.86		B5/B14
	18.6	87	1.4	75.08		B5		73.4	31	3.8	19.07		B5/B14
	15.7	103	1.2	89.17		B5		70.6	32	3.7	19.83		B5/B14
	12.4	130	0.9	113.05		B5		59.4	39	3.1	23.56		B5/B14
								47.4	48	2.5	29.56		B5/B14
	21.9	74	2.7	64.01	CMG023	B5		39.5	58	2.1	35.47		B5/B14
	18.4	88	2.3	76.02		B5		30.5	75	1.6	45.89		B5/B14
	15.5	104	1.9	90.29		B5		28.6	80	1.5	49.00		B5/B14
	12.2	132	1.5	114.46		B5		26.3	87	1.4	53.33		B5/B14
	10.3	157	1.3	135.95		B5							
	8.0	203	1.0	175.89		B5		22.1	101	1.2	63.22	CMG013	B5/B14
	6.8	236	0.8	204.69		B5		18.6	120	1.0	75.08		B5/B14
								15.7	143	0.8	89.17		B5/B14
	19.2	84	3.6	72.83	CMG033	B5						CMG022	B5/B14
	14.4	112	2.7	97.45		B5		383	6	16.7	3.66		B5/B14
	12.1	134	2.2	115.74		B5		316	7	13.8	4.43		B5/B14
	9.9	163	1.8	140.81		B5		257	9	11.2	5.45		B5/B14
	8.0	201	1.5	174.26		B5		189	12	9.9	7.39		B5/B14
	6.2	260	1.2	225.47		B5		160	14	8.4	8.78		B5/B14
	5.3	302	1.0	262.05		B5		141	16	7.4	9.93		B5/B14
								127	18	11.1	11.01		B5/B14
	19.2	84	5.9	72.83	CMG043	B5		116	20	10.1	12.05		B5/B14
	14.4	112	4.4	97.45		B5		106	22	9.2	13.21		B5/B14
	12.1	134	3.7	115.74		B5		94.6	24	8.3	14.81		B5/B14
	9.9	163	3.1	140.81		B5		81.9	28	5.7	17.10		B5/B14
	8.0	201	2.5	174.26		B5		76.7	30	5.4	18.26		B5/B14
	6.2	260	1.9	225.47		B5		69.7	33	6.1	20.08		B5/B14
	5.3	302	1.7	262.05		B5		58.7	39	5.1	23.85		B5/B14
	4.3	376	1.3	325.79		B5		46.8	49	4.1	29.93		B5/B14
	3.7	437	1.1	378.64		B5		39.0	59	3.4	35.91		B5/B14
								30.1	76	2.6	46.46		B5/B14
								28.2	81	2.5	49.61		B5/B14
								25.9	88	2.3	54.00		B5/B14
0.25													
71A4 (1400 об/мин)	279	8	4.9	5.03	CMG002	B5/B14		21.9	103	1.9	64.01	CMG023	B5/B14
	230	10	4.0	6.10		B5/B14		18.4	122	1.6	76.02		B5/B14
	187	12	3.3	7.49		B5/B14		15.5	145	1.4	90.29		B5/B14
	156	15	3.4	8.99		B5/B14		12.2	183	1.1	114.46		B5/B14
	138	17	3.0	10.16		B5/B14		10.3	218	0.9	135.95		B5/B14
	116	20	2.5	12.07		B5/B14							
	105	22	3.2	13.40		B5/B14		31.7	72	4.1	44.18	CMG032	B5
	92.5	25	2.8	15.14		B5/B14		27.3	84	3.6	51.30		B5
	77.1	30	2.4	18.17		B5/B14							
	64.9	35	2.0	21.58		B5/B14		19.2	117	2.6	72.83	CMG033	B5/B14
	59.6	38	1.8	23.51		B5/B14		14.4	156	1.9	97.45		B5/B14
	55.8	41	1.7	25.10		B5/B14		12.1	186	1.6	115.74		B5/B14
	51.7	44	1.6	27.08		B5/B14		9.9	226	1.3	140.81		B5/B14
	43.1	53	1.3	32.49		B5/B14		8.0	279	1.1	174.26		B5/B14
	33.3	69	1.0	42.04		B5/B14		6.2	361	0.8	225.47		B5/B14
	31.2	73	1.0	44.89		B5/B14							
	28.7	80	0.9	48.86		B5/B14							

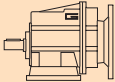

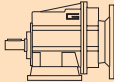

**CMG****ЦИЛИНДРИЧЕСКИЕ РЕДУКТОРЫ**
HELICAL GEARBOXES**Таблицы выбора****Technical data**

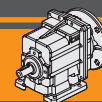
P ₁ [кВт]	n ₂ [об/мин]	M ₂ [Нм]	sf	i			P ₁ [кВт]	n ₂ [об/мин]	M ₂ [Нм]	sf	i		
0.25							0.37						
71A4 (1400 об/мин)	19.2	117	4.3	72.83	CMG043	B5/B14	71B4 (1400 об/мин)	383	9	11.3	3.66	CMG022	B5/B14
	14.4	156	3.2	97.45		B5/B14		316	11	9.3	4.43		B5/B14
	12.1	186	2.7	115.74		B5/B14		257	13	7.6	5.45		B5/B14
	9.9	226	2.2	140.81		B5/B14		189	18	6.7	7.39		B5/B14
	8.0	279	1.8	174.26		B5/B14		160	21	5.6	8.78		B5/B14
	6.2	361	1.4	225.47		B5/B14		141	24	5.0	9.93		B5/B14
	5.3	420	1.2	262.05		B5/B14		127	27	7.5	11.01		B5/B14
	4.3	522	1.0	325.79		B5/B14		116	29	6.8	12.05		B5
	3.7	607	0.8	378.64		B5/B14		106	32	6.2	13.21		B5
								94.6	36	5.6	14.81		B5/B14
	21.7	103	8.7	64.48		B5		81.9	41	3.9	17.10		B5/B14
	18.7	120	7.5	74.96		B5		76.7	44	3.6	18.26		B5/B14
	17.3	130	6.9	81.07		B5		69.7	49	4.1	20.08		B5/B14
	16.2	138	6.5	86.24		B5		58.7	58	3.5	23.85		B5/B14
	12.9	174	5.2	108.43		B5		46.8	73	2.8	29.93		B5/B14
	10.9	207	4.4	128.84		B5		39.0	87	2.3	35.91		B5/B14
71B4 (1400 об/мин)	8.1	276	3.3	172.32	CMG053	B5		30.1	113	1.8	46.46	CMG023	B5/B14
	7.5	298	3.0	186.17		B5		28.2	120	1.7	49.61		B5/B14
	6.5	347	2.6	216.19		B5		25.9	131	1.5	54.00		B5/B14
	5.6	399	2.3	248.99		B5							
	4.8	464	1.9	289.15		B5		21.9	152	1.3	64.01		B5/B14
								18.4	180	1.1	76.02		B5/B14
								15.5	214	0.9	90.29		B5/B14
								374	9	16.5	3.74	CMG032	B5
	230	15	2.7	6.10		B5/B14		311	11	13.7	4.50		B5
	187	18	2.2	7.49		B5/B14		255	13	11.3	5.48		B5
	156	22	2.3	8.99		B5/B14		222	15	11.8	6.31		B5
	138	25	2.0	10.16		B5/B14		177	19	9.4	7.93		B5
	116	29	1.7	12.07		B5/B14		154	22	8.2	9.08		B5
	105	32	2.2	13.40		B5/B14		128	26	6.8	10.93		B5
	92.5	37	1.9	15.14		B5/B14		111	31	8.2	12.60		B5
	77.1	44	1.6	18.17		B5/B14		105	32	7.8	13.30		B5
	64.9	52	1.3	21.58		B5/B14		91.5	37	7.6	15.30		B5
	59.6	57	1.2	23.51		B5/B14		76.9	44	6.3	18.21		B5
	55.8	61	1.2	25.10		B5/B14		72.8	47	6.0	19.24		B5
	51.7	66	1.1	27.08		B5/B14		66.2	51	5.5	21.15		B5
	43.1	79	0.9	32.49		B5/B14		56.0	61	5.0	24.99		B5
71B4 (1400 об/мин)					CMG012			45.8	74	4.0	30.57	CMG033	B5
	367	9	6.5	3.82		B5/B14		40.9	83	3.6	34.20		B5
	302	11	5.3	4.63		B5/B14		36.2	94	3.2	38.63		B5
	246	14	4.4	5.69		B5/B14		31.7	107	2.8	44.18		B5
	181	19	4.3	7.72		B5/B14		27.3	124	2.4	51.30		B5
	153	22	3.6	9.17		B5/B14		23.0	147	2.0	60.80		B5
	143	24	3.4	9.81		B5/B14							
	122	28	3.6	11.50		B5/B14		19.2	173	1.7	72.83		B5/B14
	118	29	3.5	11.90		B5/B14		14.4	231	1.3	97.45		B5/B14
	101	33	3.6	13.80		B5/B14		12.1	275	1.1	115.74		B5/B14
	95.7	35	3.4	14.62		B5/B14		9.9	334	0.9	140.81		B5/B14
	78.4	43	2.8	17.86		B5/B14						CMG043	B5/B14
	73.4	46	2.6	19.07		B5/B14		19.2	173	2.9	72.83		B5/B14
	70.6	48	2.5	19.83		B5/B14		14.4	231	2.2	97.45		B5/B14
	59.4	57	2.1	23.56		B5/B14		12.1	275	1.8	115.74		B5/B14
	47.4	72	1.7	29.56		B5/B14		9.9	334	1.5	140.81		B5/B14
	39.5	86	1.4	35.47		B5/B14		8.0	413	1.2	174.26		B5/B14
	30.5	111	1.1	45.89		B5/B14		6.2	535	0.9	225.47		B5/B14
	28.6	119	1.0	49.00		B5/B14							
71B4 (1400 об/мин)	26.3	129	0.9	53.33	CMG013	B5/B14							
	22.1	150	0.8	63.22		B5/B14							



Таблицы выбора

Technical data

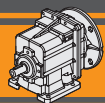
P ₁ [кВт]	n ₂ [об/мин]	M ₂ [Нм]	sf	i			P ₁ [кВт]	n ₂ [об/мин]	M ₂ [Нм]	sf	i				
0.37							0.55								
71B4 (1400 об/мин)	21.7	153	5.9	64.48	CMG053	B5	80A4 (1400 об/мин)	21.9	226	0.9	64.01	CMG023	B5/B14		
	18.7	178	5.1	74.96		B5		CMG032	B5/B14						
	17.3	192	4.7	81.07		B5			B5/B14						
	16.2	205	4.4	86.24		B5			B5/B14						
	12.9	257	3.5	108.43		B5			B5/B14						
	10.9	306	2.9	128.84		B5			B5/B14						
	8.1	409	2.2	172.32		B5			B5/B14						
	7.5	442	2.0	186.17		B5			B5/B14						
	6.5	513	1.8	216.19		B5			B5/B14						
80A4 (1400 об/мин)	5.6	591	1.5	248.99	B5	B5/B14	111	45	5.5	12.60	B5/B14	B5/B14			
	4.8	686	1.3	289.15	B5	B5/B14	105	48	5.2	13.30	B5/B14	B5/B14			
	279	18	2.2	5.03	CMG002	B5/B14	91.5	55	5.1	15.30	B5/B14	B5/B14			
		230	22	1.8		6.10	B5/B14	76.9	66	4.3	18.21	B5/B14	B5/B14		
		187	27	1.5		7.49	B5/B14	72.8	69	4.0	19.24	B5/B14	B5/B14		
		156	32	1.5		8.99	B5/B14	66.2	76	3.7	21.15	B5/B14	B5/B14		
		138	37	1.4		10.16	B5/B14	56.0	90	3.3	24.99	B5/B14	B5/B14		
		116	43	1.2		12.07	B5/B14	45.8	110	2.7	30.57	B5/B14	B5/B14		
		105	48	1.5		13.40	B5/B14	40.9	123	2.4	34.20	B5/B14	B5/B14		
		92.5	55	1.3		15.14	B5/B14	36.2	139	2.2	38.63	B5/B14	B5/B14		
		77.1	65	1.1		18.17	B5/B14	31.7	159	1.9	44.18	B5/B14	B5/B14		
		64.9	78	0.9		21.58	B5/B14	27.3	185	1.6	51.30	B5/B14	B5/B14		
		59.6	85	0.8		23.51	B5/B14	23.0	219	1.4	60.80	B5/B14	B5/B14		
		367	14	4.4		3.82	CMG012	B5/B14	19.2	257	1.2	72.83	CMG033	B5/B14	
			302	17		3.6		4.63	B5/B14	14.4	344	0.9		97.45	B5/B14
			246	20		2.9		5.69	B5/B14	23.0	219	2.2	60.80	CMG042	B5/B14
			181	28		2.9		7.72	B5/B14	19.2	257	1.9	72.83	CMG043	B5/B14
			153	33		2.4		9.17	B5/B14	14.4	344	1.5	97.45		B5/B14
	143		35	2.3	9.81	B5/B14		12.1	408	1.2	115.74	B5/B14			
	122		41	2.4	11.50	B5/B14		9.9	497	1.0	140.81	B5/B14			
	118		43	2.3	11.90	B5/B14		9.9	497	1.0	140.81	B5/B14			
	101		50	2.4	13.80	B5/B14		8.0	615	0.8	174.26	B5/B14			
	95.7		53	2.3	14.62	B5/B14		26.1	194	4.6	53.74	CMG052	B5/B14		
	78.4		64	1.9	17.86	B5/B14			21.7	227	4.0		64.48	CMG053	B5/B14
	73.4		69	1.7	19.07	B5/B14			18.7	264	3.4	74.96	B5/B14		
	70.6		71	1.7	19.83	B5/B14			17.3	286	3.1	81.07	B5/B14		
	59.4		85	1.4	23.56	B5/B14			17.3	286	3.1	81.07	B5/B14		
	47.4		106	1.1	29.56	B5/B14			16.2	304	3.0	86.24	B5/B14		
39.5	128		0.9	35.47	B5/B14	12.9		382	2.4	108.43	B5/B14				
383	13	7.6	3.66	CMG022	B5/B14	10.9	454	2.0	128.84	B5/B14	B5/B14				
	316	16	6.3		4.43	B5/B14	8.1	608	1.5	172.32	B5/B14	B5/B14			
	257	20	5.1		5.45	B5/B14	7.5	657	1.4	186.17	B5/B14	B5/B14			
	189	27	4.5		7.39	B5/B14	6.5	762	1.2	216.19	B5/B14	B5/B14			
	160	32	3.8		8.78	B5/B14	5.6	878	1.0	248.99	B5/B14	B5/B14			
	141	36	3.4		9.93	B5/B14	4.8	1020	0.9	289.15	B5/B14	B5/B14			
	127	40	5.0		11.01	B5/B14									
	116	43	4.6		12.05	B5/B14									
	106	48	4.2		13.21	B5/B14									
	94.6	53	3.8		14.81	B5/B14									
	81.9	62	2.6		17.10	B5/B14									
	76.7	66	2.4		18.26	B5/B14									
	69.7	72	2.8		20.08	B5/B14									
	58.7	86	2.3		23.85	B5/B14									
	46.8	108	1.9		29.93	B5/B14									
	39.0	129	1.5		35.91	B5/B14									
30.1	167	1.2	46.46	B5/B14											
28.2	179	1.1	49.61	B5/B14											
25.9	194	1.0	54.00	B5/B14											



Таблицы выбора

Technical data

P ₁ [кВт]	n ₂ [об/мин]	M ₂ [Нм]	sf	i			P ₁ [кВт]	n ₂ [об/мин]	M ₂ [Нм]	sf	i		
1.1							1.5						
90S4 (1400 об/мин)	374	27	5.6	3.74	CMG032	B5/B14	90L4 (1400 об/мин)	367	38	1.6	3.82	CMG012	B5/B14
	311	32	4.6	4.50		B5/B14		302	45	1.3	4.63		B5/B14
	255	39	3.8	5.48		B5/B14		246	56	1.1	5.69		B5/B14
	222	45	4.0	6.31		B5/B14		181	76	1.1	7.72		B5/B14
	177	57	3.2	7.93		B5/B14		153	90	0.9	9.17		B5/B14
	154	65	2.8	9.08		B5/B14							
	128	79	2.3	10.93		B5/B14		383	36	2.8	3.66	CMG022	B5/B14
	111	91	2.8	12.60		B5/B14		316	44	2.3	4.43		B5/B14
	105	96	2.6	13.30		B5/B14		257	54	1.9	5.45		B5/B14
	91.5	110	2.5	15.30		B5/B14		189	73	1.7	7.39		B5/B14
	76.9	131	2.1	18.21		B5/B14		160	86	1.4	8.78		B5/B14
	72.8	139	2.0	19.24		B5/B14		141	98	1.2	9.93		B5/B14
	66.2	152	1.8	21.15		B5/B14		116	118	1.7	12.05		B5/B14
	56.0	180	1.7	24.99		B5/B14		106	130	1.5	13.21		B5/B14
	45.8	220	1.4	30.57		B5/B14		94.6	145	1.4	14.81		B5/B14
	40.9	246	1.2	34.20		B5/B14		69.7	197	1.0	20.08		B5/B14
	36.2	278	1.1	38.63		B5/B14		58.7	234	0.9	23.85		B5/B14
	31.7	318	0.9	44.18		B5/B14							
	374	27	8.5	3.74	CMG042	B5/B14		374	37	4.1	3.74	CMG032	B5/B14
	311	32	7.1	4.50		B5/B14		311	44	3.4	4.50		B5/B14
	255	39	5.8	5.48		B5/B14		255	54	2.8	5.48		B5/B14
	222	45	5.7	6.31		B5/B14		222	62	2.9	6.31		B5/B14
	177	57	4.6	7.93		B5/B14		177	78	2.3	7.93		B5/B14
	154	65	4.3	9.08		B5/B14		154	89	2.0	9.08		B5/B14
	128	79	3.6	10.93		B5/B14		128	107	1.7	10.93		B5/B14
	111	91	3.9	12.60		B5/B14		111	124	2.0	12.60		B5/B14
	105	96	3.7	13.30		B5/B14		105	131	1.9	13.30		B5/B14
	91.5	110	3.8	15.30		B5/B14		91.5	150	1.9	15.30		B5/B14
	76.9	131	3.2	18.21		B5/B14		76.9	179	1.6	18.21		B5/B14
	72.8	139	3.0	19.24		B5/B14		72.8	189	1.5	19.24		B5/B14
	66.2	152	2.8	21.15		B5/B14		66.2	208	1.3	21.15		B5/B14
	56.0	180	2.8	24.99		B5/B14		56.0	245	1.2	24.99		B5/B14
	45.8	220	2.3	30.57		B5/B14		45.8	300	1.0	30.57		B5/B14
	40.8	247	2.0	34.30		B5/B14		40.9	336	0.9	34.20		B5/B14
	36.2	278	1.8	38.63		B5/B14		36.2	379	0.8	38.63		B5/B14
	31.7	318	1.6	44.18		B5/B14							
	27.3	370	1.4	51.30		B5/B14		374	37	6.3	3.74	CMG042	B5/B14
	23.0	438	1.1	60.80		B5/B14		311	44	5.2	4.50		B5/B14
								255	54	4.3	5.48		B5/B14
	19.2	514	1.0	72.83	CMG043	B5/B14		222	62	4.2	6.31		B5/B14
								177	78	3.3	7.93		B5/B14
	371	27	15.1	3.78	CMG052	B5/B14		154	89	3.1	9.08		B5/B14
	292	35	11.9	4.80		B5/B14		128	107	2.6	10.93		B5/B14
	241	42	9.8	5.82		B5/B14		111	124	2.8	12.60		B5/B14
	210	48	9.8	6.68		B5/B14		105	131	2.7	13.30		B5/B14
	167	60	7.8	8.37		B5/B14		91.5	150	2.8	15.30		B5/B14
	153	66	7.7	9.16		B5/B14		76.9	179	2.3	18.21		B5/B14
	141	71	7.1	9.90		B5/B14		72.8	189	2.2	19.24		B5/B14
	120	84	7.5	11.64		B5/B14		56.0	245	2.0	24.99		B5/B14
	106	95	6.6	13.25		B5/B14		45.8	300	1.7	30.57		B5/B14
	99.2	102	7.4	14.11		B5/B14		40.9	336	1.5	34.20		B5/B14
	86.4	117	6.4	16.20		B5/B14		36.2	379	1.3	38.63		B5/B14
	68.9	146	5.1	20.31		B5/B14		31.7	434	1.2	44.18		B5/B14
	58.3	173	5.2	24.02		B5/B14		27.3	504	1.0	51.30		B5/B14
	43.6	231	3.9	32.13		B5/B14							
	30.2	334	2.7	46.31		B5/B14							
	26.1	387	2.3	53.74		B5/B14							
	21.7	455	2.0	64.48	CMG053	B5/B14							
	18.7	529	1.7	74.96		B5/B14							
	17.3	572	1.6	81.07		B5/B14							
	16.2	608	1.5	86.24		B5/B14							
	12.9	765	1.2	108.43		B5/B14							
	10.9	909	1.0	128.84		B5/B14							

**CMG****ЦИЛИНДРИЧЕСКИЕ РЕДУКТОРЫ**
HELICAL GEARBOXES

Таблицы выбора

Technical data

P ₁ [кВт]	n ₂ [об/мин]	M ₂ [Нм]	sf	i		
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1.5

90L4 (1400 об/мин)	371	37	11.1	3.78	CMG052	B5/B14
	292	47	8.7	4.80		B5/B14
	241	57	7.2	5.82		B5/B14
	210	66	7.2	6.68		B5/B14
	167	82	5.7	8.37		B5/B14
	153	90	5.7	9.16		B5/B14
	141	97	5.2	9.90		B5/B14
	120	114	5.5	11.64		B5/B14
	106	130	4.8	13.25		B5/B14
	99.2	139	5.4	14.11		B5/B14
	86.4	159	4.7	16.20		B5/B14
	68.9	199	3.8	20.31		B5/B14
	58.3	236	3.8	24.02		B5/B14
	43.6	316	2.9	32.13		B5/B14
	30.2	455	2.0	46.31		B5/B14
	26.1	528	1.7	53.74		B5/B14
	21.7	620	1.5	64.48	CMG053	B5/B14
	18.7	721	1.2	74.96		B5/B14
	17.3	780	1.2	81.07		B5/B14
	16.2	829	1.1	86.24		B5/B14
	12.9	1043	0.9	108.43		B5/B14

1.85

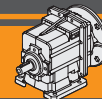
90LB4 (1400 об/мин)	367	46	1.3	3.82	CMG012	B5/B14
	302	56	1.1	4.63		B5/B14
	383	44	2.3	3.66	CMG022	B5/B14
	316	54	1.9	4.43		B5/B14
	257	66	1.5	5.45		B5/B14
	189	90	1.3	7.39		B5/B14
	160	106	1.1	8.78		B5/B14
	141	120	1.0	9.93		B5/B14
	116	146	1.4	12.05		B5/B14
	106	160	1.2	13.21		B5/B14
	94.6	179	1.1	14.81		B5/B14
	374	45	3.3	3.74	CMG032	B5/B14
	311	55	2.7	4.50		B5/B14
	255	66	2.3	5.48		B5/B14
	222	76	2.4	6.31		B5/B14
	177	96	1.9	7.93		B5/B14
	154	110	1.6	9.08		B5/B14
	128	132	1.4	10.93		B5/B14
	111	153	1.6	12.60		B5/B14
	105	161	1.6	13.30		B5/B14
	91.5	185	1.5	15.30		B5/B14
	76.9	221	1.3	18.21		B5/B14
	72.8	233	1.2	19.24		B5/B14
	66.2	256	1.1	21.15		B5/B14
	56.0	303	1.0	24.99		B5/B14
	45.8	370	0.8	30.57		B5/B14
	374	45	5.1	3.74	CMG042	B5/B14
	311	55	4.2	4.50		B5/B14
	255	66	3.5	5.48		B5/B14
	222	76	3.4	6.31		B5/B14
	177	96	2.7	7.93		B5/B14
	154	110	2.5	9.08		B5/B14
	128	132	2.1	10.93		B5/B14
	111	153	2.3	12.60		B5/B14
	105	161	2.2	13.30		B5/B14
	91.5	185	2.3	15.30		B5/B14
	76.9	221	1.9	18.21		B5/B14
	72.8	233	1.8	19.24		B5/B14

1.85

90LB4 (1400 об/мин)	56.0	303	1.7	24.99	CMG042	B5/B14
	45.8	370	1.3	30.57		B5/B14
	40.9	414	1.2	34.20		B5/B14
	36.2	468	1.1	38.63		B5/B14
	31.7	535	0.9	44.18		B5/B14
	27.3	621	0.8	51.30		B5/B14
	371	46	9.0	3.78	CMG052	B5/B14
	292	58	7.1	4.80		B5/B14
	241	70	5.8	5.82		B5/B14
	210	81	5.8	6.68		B5/B14
	167	101	4.6	8.37		B5/B14
	153	111	4.6	9.16		B5/B14
	141	120	4.3	9.90		B5/B14
	120	141	4.5	11.64		B5/B14
	106	160	3.9	13.25		B5/B14
	99.2	171	4.4	14.11		B5/B14
	86.4	196	3.8	16.20		B5/B14
	68.9	246	3.0	20.31		B5/B14
	58.3	291	3.1	24.02		B5/B14
	43.6	389	2.3	32.13		B5/B14
	30.2	561	1.6	46.31		B5/B14
	26.1	651	1.4	53.74		B5/B14
	21.7	765	1.2	64.48	CMG053	B5/B14
	18.7	889	1.0	74.96		B5/B14
	17.3	962	0.9	81.07		B5/B14
	16.2	1023	0.9	86.24		B5/B14

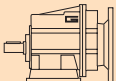

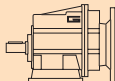

2.2

100LA4 (1400 об/мин)	374	54	2.8	3.74	CMG032	B5/B14
	311	65	2.3	4.50		B5/B14
	255	79	1.9	5.48		B5/B14
	222	91	2.0	6.31		B5/B14
	177	114	1.6	7.93		B5/B14
	154	131	1.4	9.08		B5/B14
	128	157	1.1	10.93		B5/B14
	111	182	1.4	12.60		B5/B14
	105	192	1.3	13.30		B5/B14
	91.5	220	1.3	15.30		B5/B14
	76.9	262	1.1	18.21		B5/B14
	72.8	277	1.0	19.24		B5/B14
	66.2	305	0.9	21.15		B5/B14
	56.0	360	0.8	24.99		B5/B14
	374	54	4.3	3.74	CMG042	B5/B14
	311	65	3.5	4.50		B5/B14
	255	79	2.9	5.48		B5/B14
	222	91	2.9	6.31		B5/B14
	177	114	2.3	7.93		B5/B14
	154	131	2.1	9.08		B5/B14
	128	157	1.8	10.93		B5/B14
	111	182	1.9	12.60		B5/B14
	105	192	1.8	13.30		B5/B14
	91.5	220	1.9	15.30		B5/B14
	76.9	262	1.6	18.21		B5/B14
	72.8	277	1.5	19.24		B5/B14
	56.0	360	1.4	24.99		B5/B14
	45.8	440	1.1	30.57		B5/B14
	40.8	494	1.0	34.30		B5/B14
	36.2	557	0.9	38.63		B5/B14

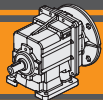
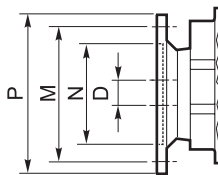


Таблицы выбора

Technical data

P ₁ [кВт]	n ₂ [об/мин]	M ₂ [Нм]	sf	i			P ₁ [кВт]	n ₂ [об/мин]	M ₂ [Нм]	sf	i				
2.2							4								
100LA4 (1400 об/мин)	371	54	7.5	3.78	CMG052	B5/B14	112M4 (1400 об/мин)	374	98	1.5	3.74	CMG032	B5/B14		
	292	69	5.9	4.80		B5/B14		311	118	1.3	4.50		B5/B14		
	241	84	4.9	5.82		B5/B14		255	144	1.0	5.48		B5/B14		
	210	96	4.9	6.68		B5/B14		222	165	1.1	6.31		B5/B14		
	167	121	3.9	8.37		B5/B14		177	208	0.9	7.93		B5/B14		
	153	132	3.9	9.16		B5/B14		CMG042	374	98	2.3	3.74	B5/B14		
	141	143	3.6	9.90		B5/B14			311	118	1.9	4.50	B5/B14		
	120	168	3.8	11.64		B5/B14			255	144	1.6	5.48	B5/B14		
	106	191	3.3	13.25		B5/B14			222	165	1.6	6.31	B5/B14		
	99.2	203	3.7	14.11		B5/B14			177	208	1.3	7.93	B5/B14		
	86.4	233	3.2	16.20		B5/B14			154	238	1.2	9.08	B5/B14		
	68.9	293	2.6	20.31		B5/B14			128	286	1.0	10.93	B5/B14		
	58.3	346	2.6	24.02		B5/B14			111	330	1.1	12.60	B5/B14		
	43.6	463	1.9	32.13		B5/B14			105	348	1.0	13.30	B5/B14		
	30.2	667	1.3	46.31		B5/B14			91.5	401	1.0	15.30	B5/B14		
	26.1	774	1.2	53.74		B5/B14			76.9	477	0.9	18.21	B5/B14		
	21.7	910	1.0	64.48	CMG053	B5/B14			72.8	504	0.8	19.24	B5/B14		
									56.0	655	0.8	24.99	B5/B14		
									CMG052	371	99	4.1	3.78	B5/B14	
292	126	3.3	4.80	B5/B14											
241	152	2.7	5.82	B5/B14											
210	175	2.7	6.68	B5/B14											
167	219	2.1	8.37	B5/B14											
153	240	2.1	9.16	B5/B14											
141	259	2.0	9.90	B5/B14											
120	305	2.1	11.64	B5/B14											
106	347	1.8	13.25	B5/B14											
99.2	370	2.0	14.11	B5/B14											
86.4	424	1.8	16.20	B5/B14											
68.9	532	1.4	20.31	B5/B14											
58.3	629	1.4	24.02	B5/B14											
43.6	842	1.1	32.13	B5/B14											

3																	
100LB4 (1400 об/мин)	374	74	2.0	3.74	CMG032	B5/B14	132S4 (1400 об/мин)	371	136	3.0	3.78	CMG052	B5				
	311	88	1.7	4.50		B5/B14		292	173	2.4	4.80		B5				
	255	108	1.4	5.48		B5/B14		241	210	2.0	5.82		B5				
	222	124	1.5	6.31		B5/B14		210	241	2.0	6.68		B5				
	177	156	1.2	7.93		B5/B14		167	302	1.6	8.37		B5				
	154	178	1.0	9.08		B5/B14		153	330	1.5	9.16		B5				
	128	215	0.8	10.93		B5/B14		141	357	1.4	9.90		B5				
	111	248	1.0	12.60		B5/B14		120	419	1.5	11.64		B5				
	105	261	1.0	13.30		B5/B14		106	477	1.3	13.25		B5				
	91.5	301	0.9	15.30		B5/B14		99.2	508	1.5	14.11		B5				
	CMG042	374	74	3.1	3.74	B5/B14		86.4	583	1.3	16.20		B5				
		311	88	2.6	4.50	B5/B14		68.9	731	1.0	20.31		B5				
		255	108	2.1	5.48	B5/B14		58.3	865	1.0	24.02		B5				
		222	124	2.1	6.31	B5/B14		5.5									
		177	156	1.7	7.93	B5/B14		132MA4	371	185	2.2	3.78	CMG052	B5			
		154	178	1.6	9.08	B5/B14			292	236	1.7	4.80		B5			
		128	215	1.3	10.93	B5/B14			241	286	1.4	5.82		B5			
		111	248	1.4	12.60	B5/B14			210	328	1.4	6.68		B5			
		105	261	1.3	13.30	B5/B14			167	411	1.1	8.37		B5			
		91.5	301	1.4	15.30	B5/B14			153	450	1.1	9.16		B5			
		76.9	358	1.2	18.21	B5/B14			141	486	1.0	9.90		B5			
		72.8	378	1.1	19.24	B5/B14			120	572	1.1	11.64		B5			
		56.0	491	1.0	24.99	B5/B14			106	651	1.0	13.25		B5			
		45.8	601	0.8	30.57	B5/B14			99.2	693	1.1	14.11		B5			
		CMG052	371	74	5.5	3.78			B5/B14	86.4	796	0.9		16.20	B5		
			292	94	4.3	4.80			B5/B14	7.5							
			241	114	3.6	5.82			B5/B14	132MA4	371	185		2.2	3.78	CMG052	B5
			210	131	3.6	6.68			B5/B14		292	236		1.7	4.80		B5
			167	164	2.9	8.37		B5/B14	241		286	1.4	5.82	B5			
	153		180	2.8	9.16	B5/B14		210	328		1.4	6.68	B5				
	141		195	2.6	9.90	B5/B14		167	411		1.1	8.37	B5				
	120		229	2.8	11.64	B5/B14		153	450		1.1	9.16	B5				
	106		260	2.4	13.25	B5/B14		141	486		1.0	9.90	B5				
	99.2		277	2.7	14.11	B5/B14		120	572		1.1	11.64	B5				
	86.4		318	2.4	16.20	B5/B14		106	651		1.0	13.25	B5				
	68.9		399	1.9	20.31	B5/B14		99.2	693		1.1	14.11	B5				
	58.3		472	1.9	24.02	B5/B14		86.4	796		0.9	16.20	B5				
43.6	631		1.4	32.13	B5/B14	7.5											
30.2	910		1.0	46.31	B5/B14	132MA4	371	185	2.2		3.78	CMG052	B5				
26.1	1056		0.9	53.74	B5/B14		292	236	1.7		4.80		B5				
							241	286	1.4	5.82	B5						
							210	328	1.4	6.68	B5						
							167	411	1.1	8.37	B5						
							153	450	1.1	9.16	B5						
							141	486	1.0	9.90	B5						
							120	572	1.1	11.64	B5						
							106	651	1.0	13.25	B5						
							99.2	693	1.1	14.11	B5						
							86.4	796	0.9	16.20	B5						

**CMG****ЦИЛИНДРИЧЕСКИЕ РЕДУКТОРЫ**
HELICAL GEARBOXES**Соединительные адаптеры для моторов IEC****IEC Motor adapters**

		IEC	N	M	P	D	i (передаточное число / ratio)																	
		5.03 6.1 7.49 8.99 10.16 12.07 13.4 15.14 18.17 21.58 23.51 25.1 27.08 32.49 42.04 44.89 48.86																						
CMG002	80B5	130	165	200	19																			
	80B14	80	100	120																				
	71B5	110	130	160	14																			
	71B14	70	85	105																				
	63B5	95	115	140	11																			
	63B14	60	75	90																				
	56B5	80	100	120	9																			
	56B14	50	65	80																				
						3.82	4.63	5.69	7.72	9.17	9.81	11.50	11.90	13.80	14.62	17.86	19.07	19.83	23.56	29.56	35.47	45.89	49.00	53.33
CMG012	90 B5	130	165	200	24																			
	90 B14	95	115	140																				
	80 B5	130	165	200	19																			
	80 B14	80	100	120																				
	71 B5	110	130	160	14																			
	71 B14	70	85	105																				
	63 B5	95	115	140	11																			
						63.22	75.08		89.17		113.05		134.27		173.72		202.16		261.57		304.00		393.33	
CMG013	90 B5	130	165	200	24																			
	90 B14	95	115	140																				
	80 B5	130	165	200	19																			
	80 B14	80	100	120																				
	71 B5	110	130	160	14																			
	71 B14	70	85	105																				
	63 B5	95	115	140	11																			
						3.66	4.43	5.45	7.39	8.78	9.93	11.01	12.05	13.21	14.81	17.10	18.26	20.08	23.85	29.93	35.91	46.46	49.61	54.00
CMG022	90 B5	130	165	200	24																			
	90 B14	95	115	140																				
	80 B5	130	165	200	19																			
	80 B14	80	100	120																				
	71 B5	110	130	160	14																			
	71 B14	70	85	105																				
	63 B5	95	115	140	11																			
						64.01	76.02		90.29		114.46		135.95		175.89		204.69		264.84		307.80		398.25	
CMG023	90 B5	130	165	200	24																			
	90 B14	95	115	140																				
	80 B5	130	165	200	19																			
	80 B14	80	100	120																				
	71 B5	110	130	160	14																			
	71 B14	70	85	105																				
	63 B5	95	115	140	11																			

ВНИМАНИЕ

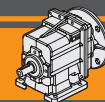
Цветом выделены возможные варианты соединений редукторов с моторами в зависимости от габарита редуктора и его передаточного числа.

B/BS = Необходимо применение переходной втулки.

N.B.

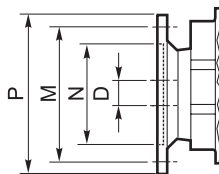
Highlighted areas indicate motor inputs available on each size of unit.

B/BS = Metal shaft sleeve.



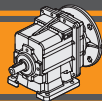
Соединительные адаптеры для моторов IEC

IEC Motor adapters



CMG

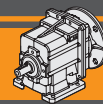
		IEC	N	M	P	D	i (передаточное число / ratio)																			
							3.74	4.50	5.48	6.31	7.93	9.08	10.93	12.60	13.30	15.30	18.21	19.24	21.15	24.99	30.57	34.20	38.63	44.18	51.30	60.80
CMG032	100/112B5	180	215	250	28																					
	100/112B14	110	130	160																						
	90 B5	130	165	200	24																					
	90 B14	95	115	140																						
	80 B5	130	165	200	19																					
	80 B14	80	100	120																						
	71 B5	110	130	160	14	B																				
						3.74	4.50	5.48	6.31	7.93	9.08	10.93	12.60	13.30	15.30	18.21	19.24	24.99	30.57	34.20	38.63	44.18	51.30	60.80		
CMG042	100/112B5	180	215	250	28																					
	100/112B14	110	130	160																						
	90 B5	130	165	200	24																					
	90 B14	95	115	140																						
	80 B5	130	165	200	19																					
	80 B14	80	100	120																						
	71 B5	110	130	160	14	B																				
						72.83		97.45		115.74		140.81		174.26		225.47		262.05		325.79		378.64				
CMG033 CMG043	90 B5	130	165	200	24																					
	90 B14	95	115	140																						
	80 B5	130	165	200	19																					
	80 B14	80	100	120																						
	71 B5	110	130	160	14																					
	71 B14	70	85	105																						
	63 B5	95	115	140	11																					
						3.78	4.80	5.82	6.68	8.37	9.16	9.90	11.64	13.25	14.11	16.20	20.31	24.02	32.13	46.31	53.74					
CMG052	132 B5	230	265	300	38																					
	100/112B5	180	215	250	28																					
	100/112B14	110	130	160																						
	90 B5	130	165	200	24	B																				
	90 B14	95	115	140																						
	80 B5	130	165	200	19	BS																				
						64.48	74.96	81.07	86.24	108.43	128.84	172.32	186.17	216.19	248.99	289.15										
CMG053	100/112B5	180	215	250	28																					
	100/112B14	110	130	160																						
	90 B5	130	165	200	24																					
	90 B14	95	115	140																						
	80 B5	130	165	200	19																					
	80 B14	80	100	120																						
	71 B5	110	130	160	14	B																				

**CMG****ЦИЛИНДРИЧЕСКИЕ РЕДУКТОРЫ**
HELICAL GEARBOXES**Габаритные размеры****Dimensions**

CMG CMGIS	A	B	I	j	LM	LR	Входной вал / Input shaft					Выходной вал / Output shaft					Bec/ Weight [кг]	
							D ₁ h6	E ₁	F ₁	G ₁	T ₁	D ₂ h6	E ₂	F ₂	G ₂	T ₂	CMG	CMGIS
002	92	81.5	0	44	143 ¹⁾ 153 ²⁾	140	14	30	5	M6	16	16 20	40	5 6	M6	18 22.5	2.9 ¹⁾ 3.2 ²⁾	3.0
012	124	93	6.5	45	195	187	16	40	5	M6	18	20	40	6	M6	22.5	5.3	5.0
013		112	43		268	260											7.8	7.5
022	124	98	11.5	45	205	197	16	40	5	M6	18	25	50	8	M8	28	6.2	5.9
023		117	48		278	270											8.7	8.4
032	156	118	5	70	237	229.5	19	40	6	M6	21.5	30	60	8	M10	33	11.3	11.2
033			41.5		303	295	16		5		18						13.6	13.3
042	156	128	15	70	250	242.5	19	40	6	M6	21.5	35	70	10	M12	38	13.2	13.1
043			51.5		316	308	16		5		18						15.5	15.2
052	190	157	20	88	307.5	286.5	28	60	8	M10	31	40	80	12	M16	43	37.5	37.8
053			68		380	373	19	40	6	M6	21.5						42.0	42.3

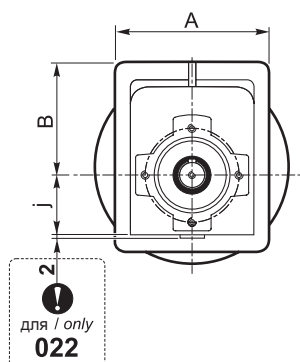
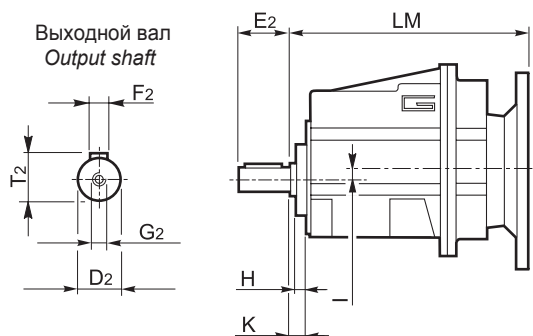
1) IEC 63/71, 2) IEC 80

Версия U / U Version						
CMG CMGIS	H	K	L	M	N f7	O
002	2.5	11	78	64	50	n°5 M6x14
012 013	8.5	13.5	95	76	60	n°4 M8x15
022 023	8.5	13.5	95	76	60	n°4 M8x15
032 033	9	15	127	110	90	n°6 M8x19
042 043	9	15	127	110	90	n°6 M8x19
052 053	10	16	160	135	110	n°6 M10x22

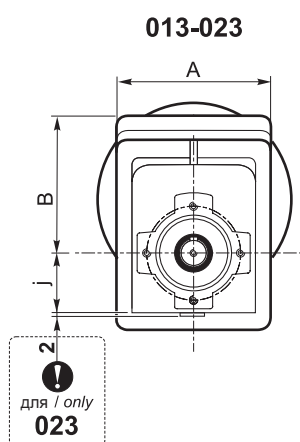
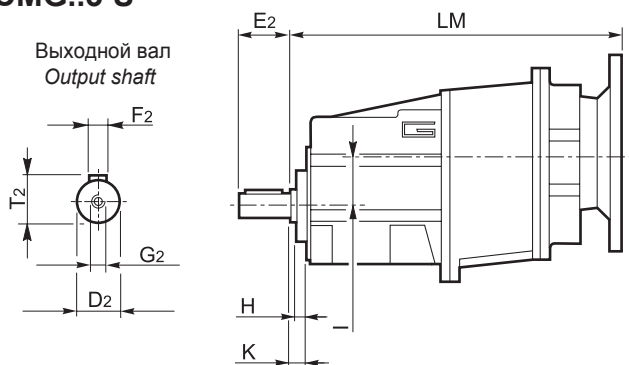


CMG..U

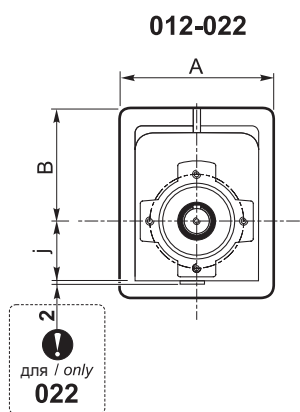
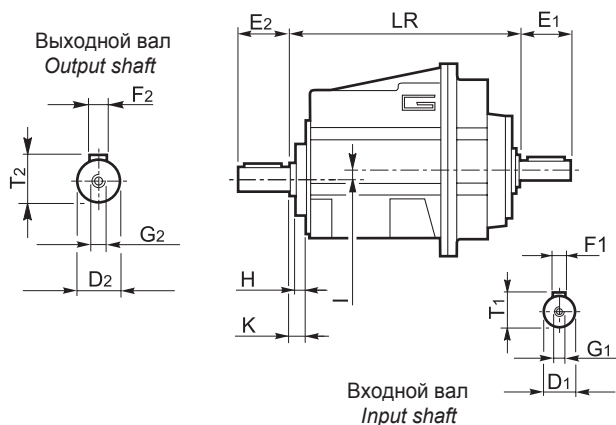
CMG..2 U



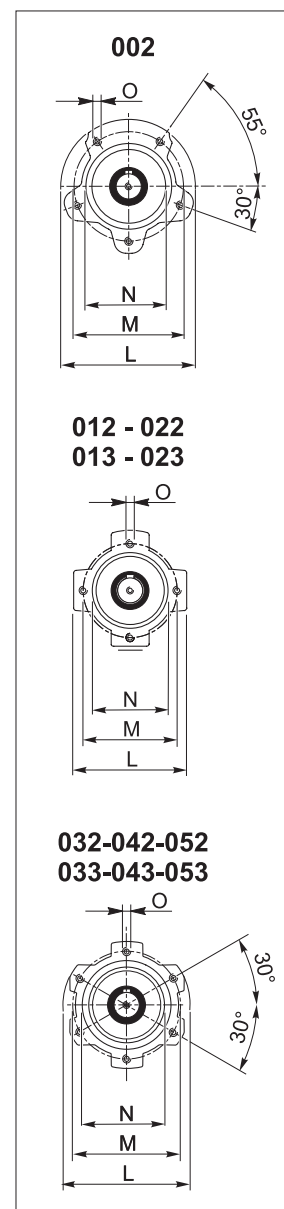
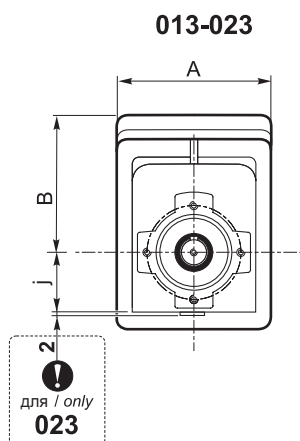
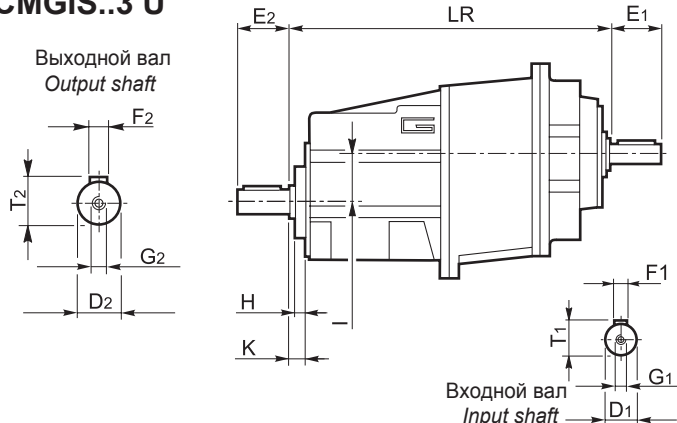
CMG..3 U

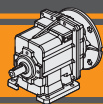


CMGIS..2 U



CMGIS..3 U



**CMG****ЦИЛИНДРИЧЕСКИЕ РЕДУКТОРЫ**
HELICAL GEARBOXES**Габаритные размеры****Dimensions**

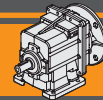
CMG CMGIS	A	B	I	LM	LR	Входной фланец / Input shaft					Выходной фланец / Output shaft					*Вес / Weight [кг]	
						D ₁ h6	E ₁	F ₁	G ₁	T ₁	D ₂ h6	E ₂	F ₂	G ₂	T ₂	CMG	CMGIS
002	92	81.5	0	143 ¹⁾ 153 ²⁾	140	14	30	5	M6	16	16 20	40	5 6	M6	18 22.5	2.9 ¹⁾ 3.2 ²⁾	3.0
012	124	93	6.5	195	187	16	40	5	M6	18	20	40	6	M6	22.5	5.3	5.0
013		112	43	268	260											7.8	7.5
022	124	98	11.5	205	197	16	40	5	M6	18	25	50	8	M8	28	6.2	5.9
023		117	48	278	270											8.7	8.4
032	156	118	5	237	229.5	19	40	6	M6	21.5	30	60	8	M10	33	11.3	11.2
033			41.5	303	295	16		5		18						13.6	13.3
042	156	128	15	250	242.5	19	40	6	M6	21.5	35	70	10	M12	38	13.2	13.1
043			51.5	316	308	16		5		18						15.5	15.2
052	190	157	20	307.5	286.5	28	60	8	M10	31	40	80	12	M16	43	37.5	37.8
053			68	380	373	19										42.0	42.3

1) IEC 63/71, 2) IEC 80

* Версия U / U Version

Версия H / H Version										
CMG CMGIS	P	Q	R	S	U	V	X	Z	Лапы / Foot	
									Тип / Type	Вес / Weight [кг]
002	18	60	80	9	100	10	60	120	H60	0.2
	18	80	104	9	110 - 120	10	75	145	H75	0.3
	18	50 - 87	110	9	110	10	85	135	H85	0.4
012 013	20	85	108	9	115	12	65	139	H65	0.7
	18	80	118	9	110	12	75	140	H75	1.0
	25	85	120	9	120	12	80	140	H80	1.1
	18	50 - 87	118	9	110	12	85	130	H85	1.2
	25	130	154	9	110	12	90	135	H90	1.5
	18	60 - 107.5	135	11	130	12	100	155	H100	1.7
022 023	20	85	108	9	115	12	65	139	H65	0.7
	18	80	118	9	110	12	75	140	H75	1.0
	25	85	120	9	120	12	80	140	H80	1.1
	18	50 - 87	118	9	110	12	85	130	H85	1.2
	25	130	154	9	110	12	90	135	H90	1.5
	18	60 - 107.5	135	11	130	12	100	155	H100	1.7
032 033	30	105	136	14	160	14	95	194	H95	1.5
	30	100	150	11	150	14	110	185	H110	1.9
	18	70			160					
	30	165	195	14	135	14	115	170	H115	2.2
	35	110	160	14	170	14	120	210	H120	2.6
042 043	30	105	136	14	160	14	95	194	H95	1.5
	30	100	150	11	150	14	110	185	H110	1.9
	18	70			160					
	30	165	195	14	135	14	115	170	H115	2.2
	35	110	160	14	170	14	120	210	H120	2.6
052 053	35	145	200	18	200	22	120	239	H120	3.5
	35	205	244	18	170	22	140	219	H140	4.3
	25	110 156	199	18	225	22	155	264	H155	5.1

Предпочтительно / Preferred

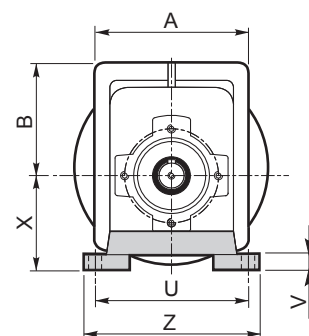
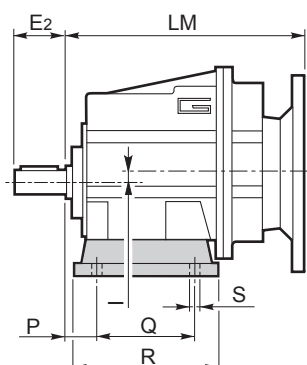
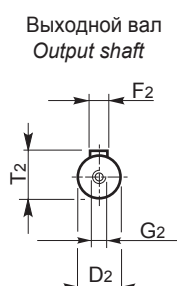


Габаритные размеры

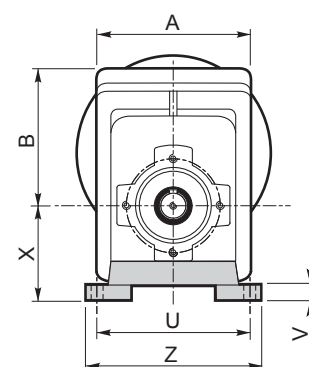
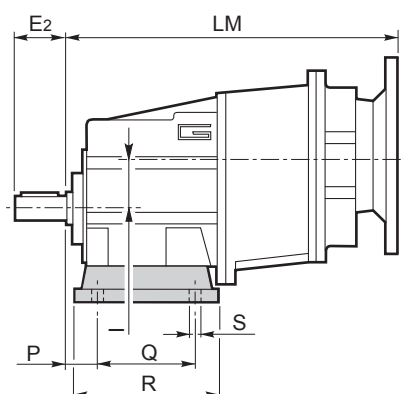
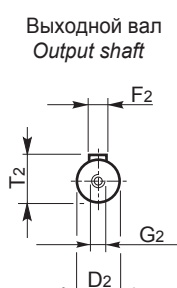
Dimensions

CMG..H

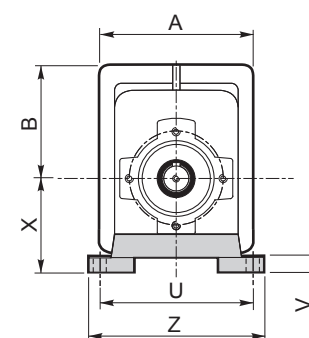
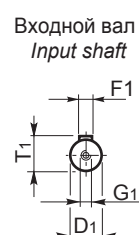
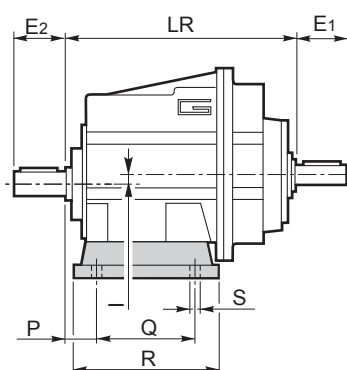
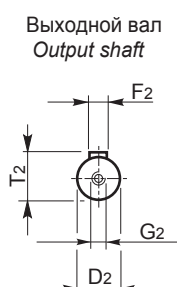
CMG..2 H..



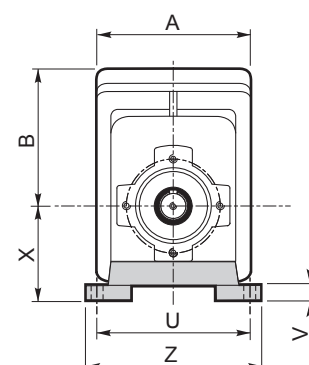
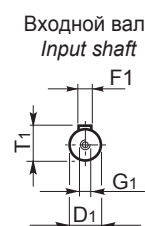
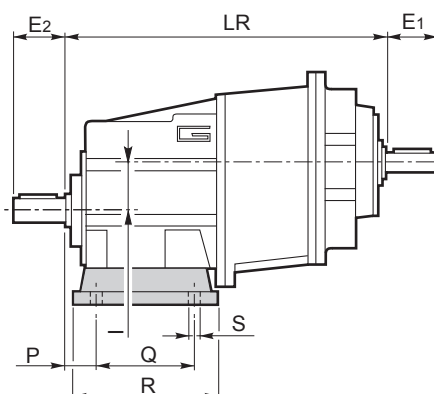
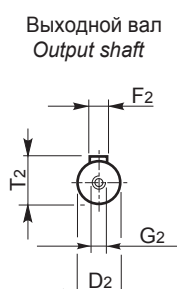
CMG..3 H..

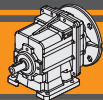


CMGIS..2 H..



CMGIS..3 H..



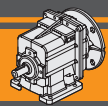
**CMG****ЦИЛИНДРИЧЕСКИЕ РЕДУКТОРЫ**
HELICAL GEARBOXES**Габаритные размеры****Dimensions**

CMG CMGIS	A	B	I	LM	LR	Входной вал / Input shaft					Выходной вал / Output shaft					*Вес / Weight [кг]	
						D ₁ h6	E ₁	F ₁	G ₁	T ₁	D ₂ h6	E ₂	F ₂	G ₂	T ₂	CMG	CMGIS
002	92	81.5	0	143 ¹⁾ 153 ²⁾	140	14	30	5	M6	16	16 20	40	5 6	M6	18 22.5	2.9 ¹⁾ 3.2 ²⁾	3.0
012	124	93	6.5	195	187	16	40	5	M6	18	20	40	6	M6	22.5	5.3	5.0
013		112	43	268	260											7.8	7.5
022	124	98	11.5	205	197	16	40	5	M6	18	25	50	8	M8	28	6.2	5.9
023		117	48	278	270											8.7	8.4
032	156	118	5	237	229.5	19	40	6	M6	21.5	30	60	8	M10	33	11.3	11.2
033			41.5	303	295	16		5		18						13.6	13.3
042	156	128	15	250	242.5	19	40	6	M6	21.5	35	70	10	M12	38	13.2	13.1
043			51.5	316	308	16		5		18						15.5	15.2
052	190	157	20	307.5	286.5	28	60	8	M10	31	40	80	12	M16	43	37.5	37.8
053			68	380	373	19										42.0	42.3

¹⁾ IEC 63/71, ²⁾ IEC 80

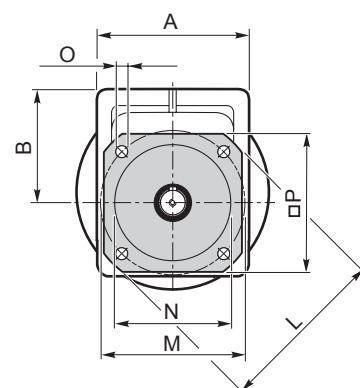
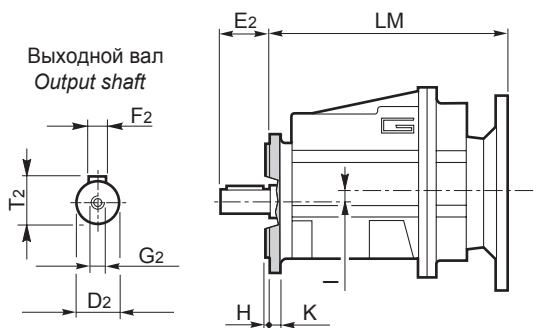
* Версия U / U Version

Версия F / F Version									
CMG CMGIS	H	K	L	M	N f7	O	P	Фланец / Flange	
								Тип / Type	Вес / Weight [кг]
002	3.5	7	105	85	70	6.5	90	F105	0.1
	3.5	8	120	100	80	7	100	F120	0.2
	3.5	8	140	115	95	9	115	F140	0.2
012 013	3	9	120	100	80	9	106	F120	0.5
	3.5	9	140	115	95	9	115	F140	0.8
	3.5	9	160	130	110	9	126	F160	1.1
	3.5	11	200	165	130	11	165	F200	1.8
022 023	3	9	120	100	80	9	106	F120	0.5
	3.5	9	140	115	95	9	115	F140	0.8
	3.5	9	160	130	110	9	126	F160	1.1
	3.5	11	200	165	130	11	165	F200	1.8
032 033	3.5	11	160	130	110	9	140	F160	1.0
	3.5	11	200	165	130	11	165	F200	1.8
	4	13	250	215	180	14	215	F250	2.9
042 043	3.5	11	160	130	110	9	140	F160	1.0
	3.5	11	200	165	130	11	165	F200	1.8
	4	13	250	215	180	14	215	F250	2.9
052 053	4	13	250	215	180	14	215	F250	2.9
	4	13	300	265	230	14	265	F300	4.4

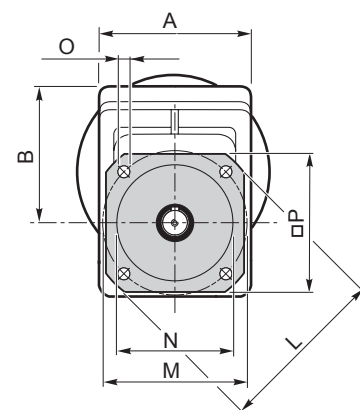
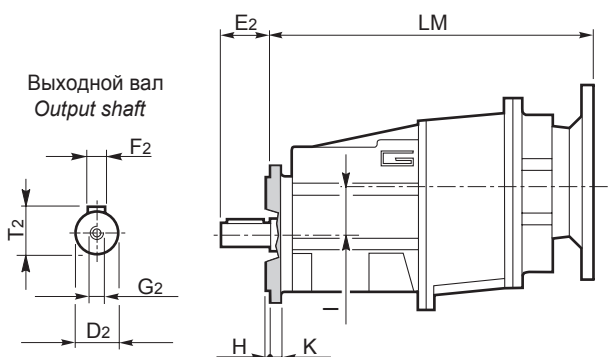


CMG..F

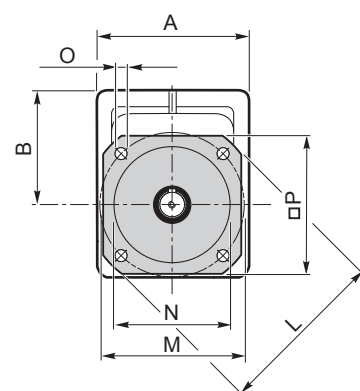
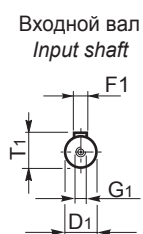
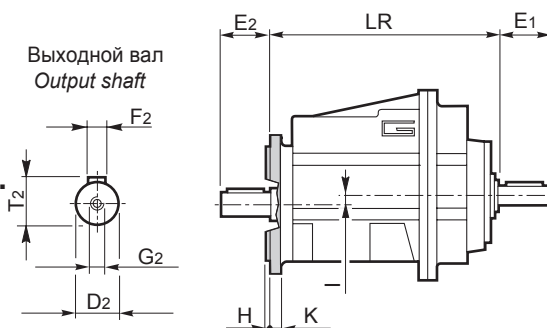
CMG..2 F..



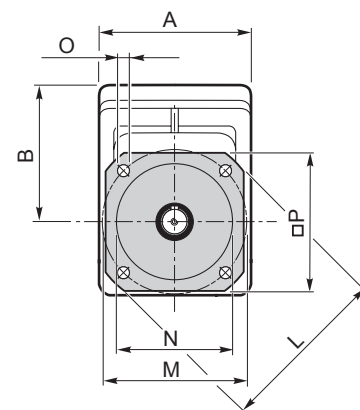
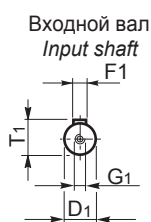
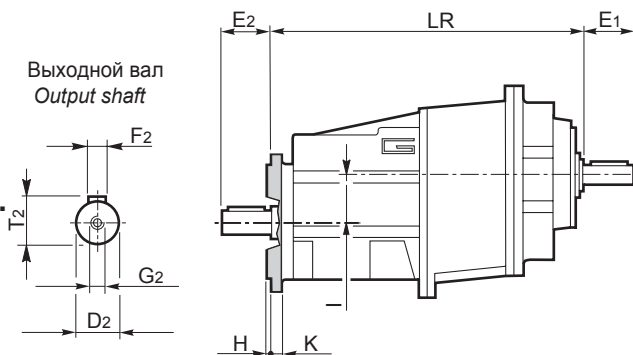
CMG..3 F..

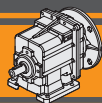


CMGIS..2 F..



CMGIS..3 F..



**CMG****ЦИЛИНДРИЧЕСКИЕ РЕДУКТОРЫ**
HELICAL GEARBOXES**Габаритные размеры****Dimensions**

CMG CMGIS	A	B	I	LM	LR	Входной вал / Input shaft					Выходной вал / Output shaft					*Вес / Weight [кг]	
						D ₁ h6	E ₁	F ₁	G ₁	T ₁	D ₂ h6	E ₂	F ₂	G ₂	T ₂	CMG	CMGIS
002	92	81.5	0	143 ¹⁾ 153 ²⁾	140	14	30	5	M6	16	16 20	40	5 6	M6	18 22.5	2.9 ¹⁾ 3.2 ²⁾	3.0
012	124	93	6.5	195	187	16	40	5	M6	18	20	40	6	M6	22.5	5.3	5.0
013		112	43	268	260											7.8	7.5
022	124	98	11.5	205	197	16	40	5	M6	18	25	50	8	M8	28	6.2	5.9
023		117	48	278	270											8.7	8.4
032	156	118	5	237	229.5	19	40	6	M6	21.5	30	60	8	M10	33	11.3	11.2
033			41.5	303	295	16		5		18						13.6	13.3
042	156	128	15	250	242.5	19	40	6	M6	21.5	35	70	10	M12	38	13.2	13.1
043			51.5	316	308	16		5		18						15.5	15.2
052	190	157	20	307.5	286.5	28	60	8	M10	31	40	80	12	M16	43	37.5	37.8
053			68	380	373	19		6		21.5						42.0	42.3

¹⁾ IEC 63/71, ²⁾ IEC 80

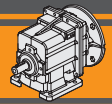
* Версия U / U Version

Версия H / H Version										Возможные комбинации H/F Possible combinations H/F							
CMG CMGIS	P	Q	R	S	U	V	X	Z	Лапы / Foot		F105	F120	F140	F160	F200	F250	F300
									Тип Type	Вес / Weight [кг]							
002	18	60	80	9	100	10	60	120	H60	0.2	•	•	•				
	18	80	104	9	110 - 120	10	75	145	H75	0.3	•	•	•				
	18	50 - 87	110	9	110	10	85	135	H85	0.4	•	•	•				
012 013	20	85	108	9	115	12	65	139	H65	0.7		•	•				
	18	80	118	9	110	12	75	140	H75	1.0		•	•	•			
	25	85	120	9	120	12	80	140	H80	1.1		•	•	•			
	18	50 - 87	118	9	110	12	85	130	H85	1.2		•	•	•			
	25	130	154	9	110	12	90	135	H90	1.5		•	•	•	•		
022 023	18	60 - 107.5	135	11	130	12	100	155	H100	1.7		•	•	•	•		
	20	85	108	9	115	12	65	139	H65	0.7		•	•				
	18	80	118	9	110	12	75	140	H75	1.0		•	•	•			
	25	85	120	9	120	12	80	140	H80	1.1		•	•	•			
	18	50 - 87	118	9	110	12	85	130	H85	1.2		•	•	•			
032 033	25	130	154	9	110	12	90	135	H90	1.5		•	•	•	•		
	18	60 - 107.5	135	11	130	12	100	155	H100	1.7		•	•	•	•		
	30	105	136	14	160	14	95	194	H95	1.5				•	•		
	30	100	150	11	150	14	110	185	H110	1.9				•	•		
	18	70	160		160												
042 043	30	165	195	14	135	14	115	170	H115	2.2				•	•	•	
	35	110	160	14	170	14	120	210	H120	2.6				•	•	•	
	30	105	136	14	160	14	95	194	H95	1.5				•	•		
	30	100	150	11	150	14	110	185	H110	1.9				•	•		
	18	70	160		160												
052 053	35	110	160	14	170	14	120	210	H120	2.6				•	•	•	
	35	145	199	18	200	22	120	239	H120	3.5						•	
	35	205	244	18	170	22	140	219	H140	4.3						•	•
	25	110	199	18	225	22	155	264	H155	5.1						•	•
	156																

Предпочтительно / Preferred

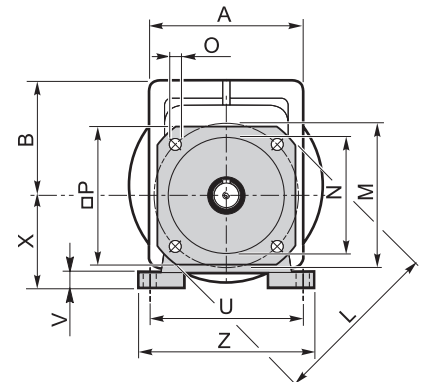
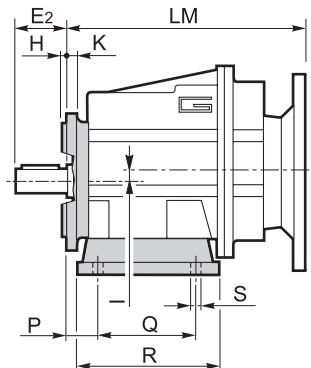
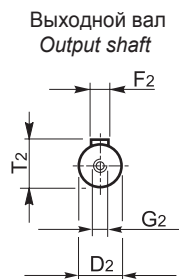
• Возможные комбинации H/F / Possible combinations H/F

Версия F / F Version										Фланец / Flange	
CMG CMGIS	H	K	L	M	N f7	O	P			Тип / Type	Вес / Weight [кг]
002	3.5	7	105	85	70	6.5	90			F105	0.1
	3.5	8	120	100	80	7	100			F120	0.2
	3.5	8	140	115	95	9	115			F140	0.2
012 013	3	9	120	100	80	9	106			F120	0.5
	3.5	9	140	115	95	9	115			F140	0.8
	3.5	9	160	130	110	9	126			F160	1.1
	3.5	11	200	165	130	11	165			F200	1.8
022 023	3	9	120	100	80	9	106			F120	0.5
	3.5	9	140	115	95	9	115			F140	0.8
	3.5	9	160	130	110	9	126			F160	1.1
	3.5	11	200	165	130	11	165			F200	1.8
032 033	3.5	11	160	130	110	9	140			F160	1.0
	3.5	11	200	165	130	11	165			F200	1.8
	4	13	250	215	150	14	215			F250	2.9
042 043	3.5	11	160	130	110	9	140			F160	1.0
	3.5	11	200	165	130	11	165			F200	1.8
	4	13	250	215	150	14	215			F250	2.9
052	4	13	250	215	150	14	215			F250	2.9
053	4	13	300	265	230	14	265			F300	4.4

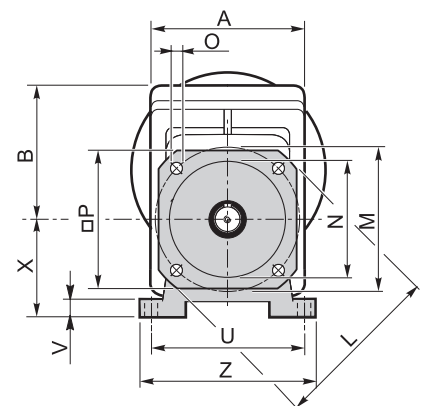
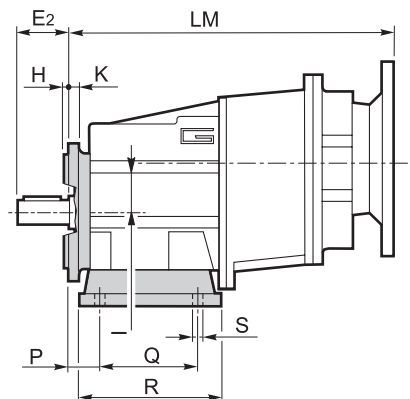
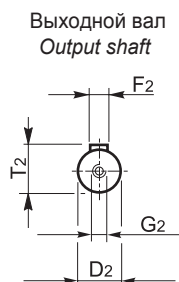


CMG..H../F..

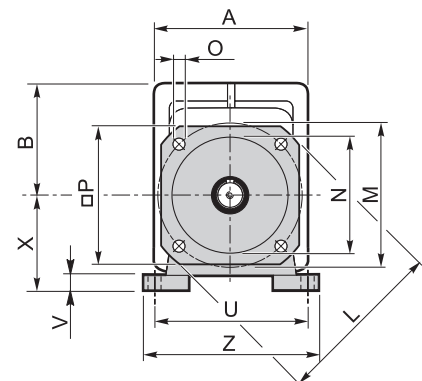
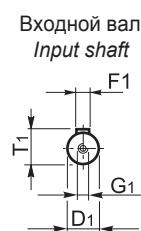
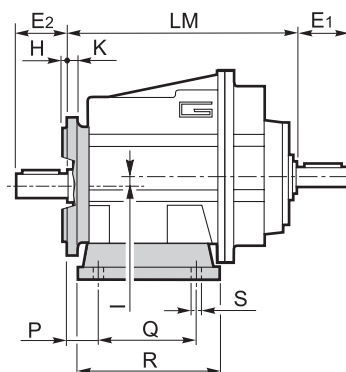
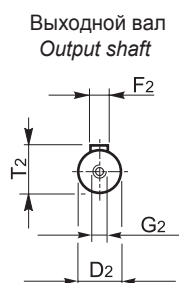
CMG..2 H../F..



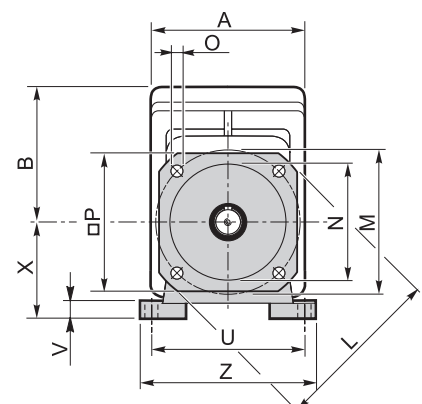
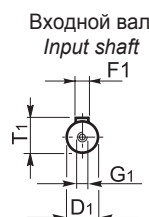
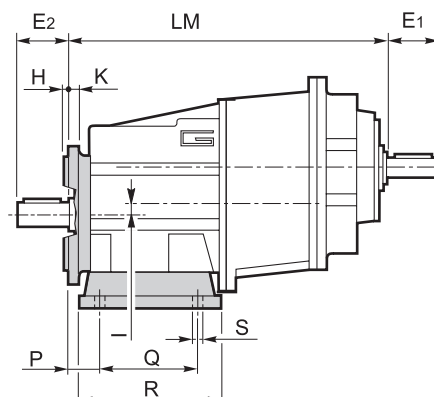
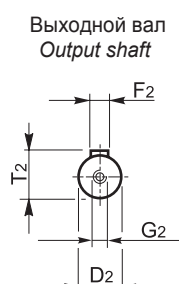
CMG..3 H../F..



CMGIS..2 H../F..



CMGIS..3 H../F..





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