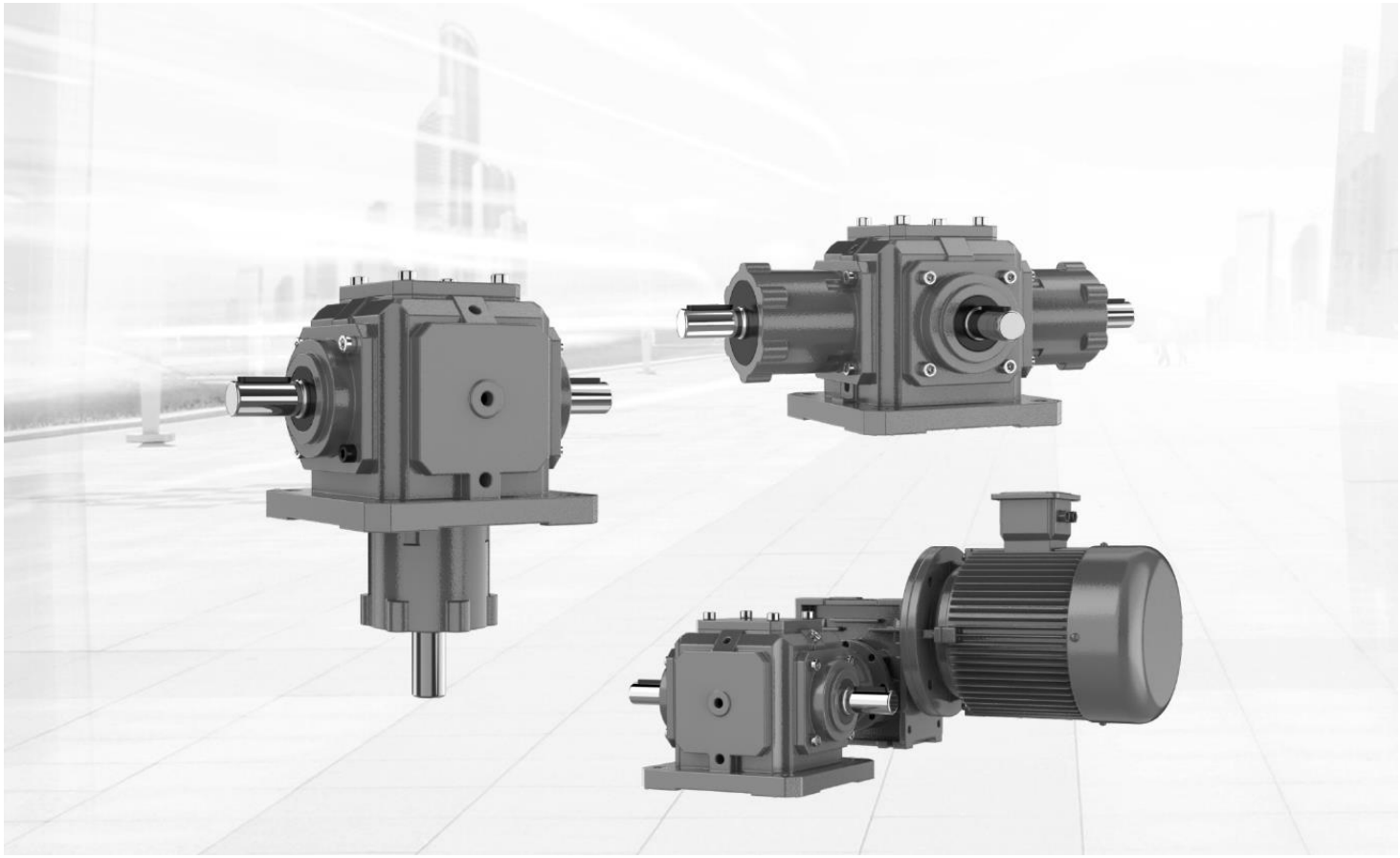
СИСТЕМЫ ЭЛЕКТРОПРИВОДА

2022

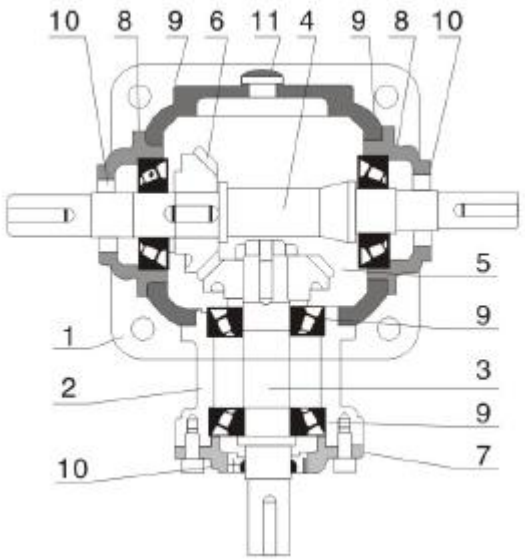
Конические редукторы со спиральным зубчатым зацеплением серии Т



Конические редукторы со спиральным зубчатым зацеплением серии Т.

Редукторы серии Т производятся в исполнении с одним входным валом, двумя входными валами с односторонним выходным валом и двухсторонним выходным валом.

Передаточные отношения: 1:1 / 1,5:1 / 2:1 / 2,5:1 / 3:1 / 4:1 / 5:1



1. Корпус
2. Корпус с входным валом
3. Выходной вал
4. Входной вал
5. Коническая шестерня
6. Коническая шестерня
7. Посадка подшипника входного вала
8. Посадка подшипника выходного вала
9. Подпишник
10. Уплотнительное кольцо
11. Датчик уровня масла

Система обозначения

T6 - 1:1 – 1- LR - B3

T6 – габарит

1:1 – передаточное отношение

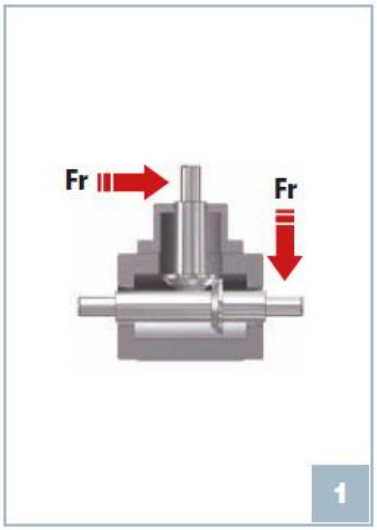
1-LR – модификация редуктора

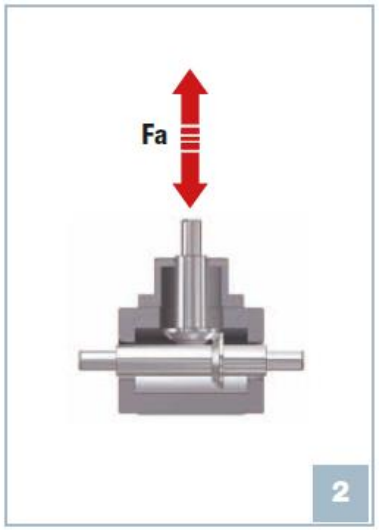
B3 – монтажное положение

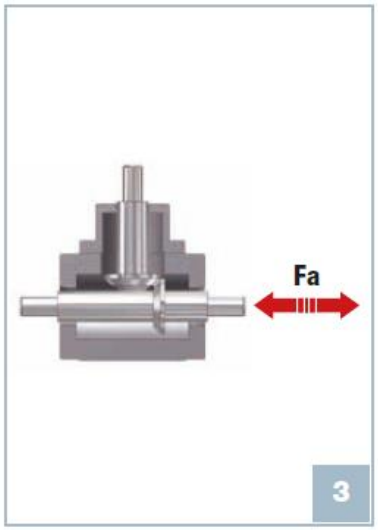
Вес редуктора

Type	T2	T4	T6	T7	T8	T10	T12	T16	T20	T25
m (kg)	2	10	21	32	49	78	124	188	297	488

Радиальные и осевые нагрузки (H).







iN	n 1 (r/min)	T2		T4		T6		T7		T8		T10		T12		T16		T20		T25	
		Fr	Fa	Fr	Fa	Fr	Fa	Fr	Fa	Fr	Fa	Fr	Fa	Fr	Fa	Fr	Fa	Fr	Fa	Fr	Fa
1:1	1450	265	216	833	951	1911	2450	2450	3136	3234	3381	4165	4508	5096	5586	10633	10976				
	1150	323	235	882	1029	2058	2597	2744	3234	3479	3626	4459	4851	5488	6076	11368	11760	15386	15608		
	870	402	255	960	1127	2205	2842	2989	3381	3773	3969	4851	5292	5880	6566	12446	12740	16660	17150	24794	25480
	580	549	214	1078	1323	2499	3185	3381	3822	4263	4459	5488	5880	6713	7301	14014	14504	18816	19404	28028	28910
	400	637	353	1372	1715	3185	3528	4018	4900	4851	5978	6272	7056	7742	8134	15680	16170	21070	21756	31360	32340
	300	696	392	1519	1960	3430	3528	4410	5537	5243	6958	6713	7987	8232	9065	17150	17640	23422	24108	34300	35280
	200	784	441	1911	1960	3430	3528	5096	6272	7889	8820	8575	9604	9261	10290	19600	19894	25970	26754	38612	39788
	100	980	588	1911	1960	3430	3528	5096	6272	8428	8820	9996	11760	11368	12593	22540	22540	28420	32928	39200	49000
	10	980	588	1911	1960	3430	3528	5096	6272	8428	8820	9996	11760	11858	14504	22540	22540	28420	33320	39200	49000
1.5:1 2:1 2.5:1 3:1	1450			1078	1960	2548	2842	3430	5390	4361	7987	5194	9212	5978	10486	5978	12152	7693	14602		
	1150			1078	1960	3038	3087	40687	5978	5096	8820	6174	10486	7252	12152	6419	13083	8771	17934	12985	24647
	870			1078	1960	3430	3332	4753	6076	6076	8820	7448	11760	8869	14504	6958	14210	9506	19453	13573	29400
	580			1078	1960	3430	3528	5096	6174	7644	8820	9555	11760	11466	14504	7840	16072	10780	22001	15680	33222
	400			1078	1960	3430	3528	5096	6272	8428	8820	9996	11760	11858	14504	8820	17934	12005	24598	17542	37142
	300			1078	1960	3430	3528	5096	6272	8428	8820	9996	11760	11858	14504	9604	19600	13132	27342	19159	40474
	200			1078	1960	3430	3528	5096	6272	8428	8820	9996	11760	11858	14504	10829	22148	14798	30282	21658	45766
	100			1078	1960	3430	3528	5096	6272	8428	8820	9996	11760	11858	14504	13328	2540	18228	33320	26656	49000
	10			1078	1960	3430	3528	5096	6270	8428	8820	9996	11760	11858	14504	22540	22540	28420	33320	39200	49000

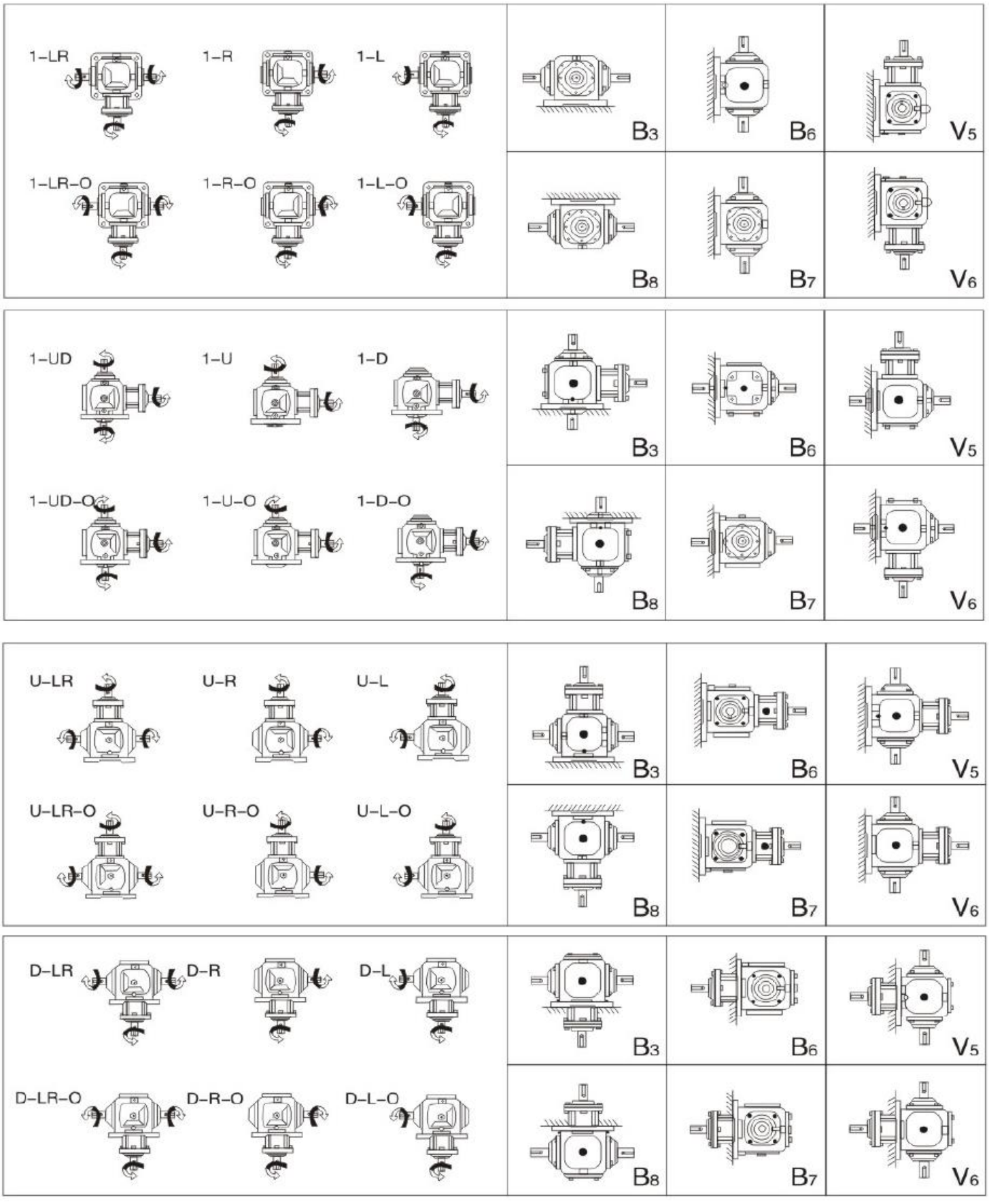
i	n1 (r/min)	T2		T4		T6		T7		T8	
		M_{N2} (N · m)	P_{N1} (Kw)	M_{N2} (N · m)	P_{N1} (Kw)	M_{N2} (N · m)	P_{N1} (Kw)	M_{N2} (N · m)	P_{N1} (Kw)	M_{N2} (N · m)	P_{N1} (Kw)
1:1	1450	11.6	1.79	31.9	4.94	96.0	14.9	142	22.0	294	45.6
	1150	11.7	1.43	34.1	4.19	103	12.7	150	18.4	305	37.5
	870	12.1	1.12	37.2	3.46	113	10.5	164	15.2	312	29.0
	580	12.1	0.747	39.5	2.45	119	7.35	184	11.4	319	19.8
	400	12.3	0.524	40.2	1.72	122	5.20	195	8.34	326	14.0
	300	12.3	0.396	40.5	1.30	123	3.93	198	6.35	331	10.6
	200	12.4	0.226	41.2	0.880	124	2.66	201	4.30	338	7.23
	100	12.7	0.136	41.9	0.448	127	1.36	206	2.20	346	3.70
	10	13.0	0.014	43.0	0.046	132	0.141	214	0.228	361	0.386
1.5:1	1450					117	12.1	145	15.0	185	19.1
	1150					122	9.96	147	12.0	188	15.4
	870					123	7.66	150	9.30	191	11.8
	580					126	5.23	153	6.32	197	8.14
	400					128	3.66	155	4.41	200	5.70
	300					129	2.77	157	3.35	203	4.34
	200					131	1.87	160	2.28	204	2.91
	100					134	0.957	163	1.16	210	1.49
	10					139	0.099	169	0.12	218	0.155
2:1	1450	12.1	0.94	42.8	3.32	102	7.90	137	10.6	180	14.0
	1150	12	0.74	43.4	2.67	104	6.39	139	8.55	183	11.3
	870	12	0.56	43.8	2.04	105	4.88	141	6.56	187	8.70
	580	11.9	0.37	44.4	1.38	108	3.34	144	4.47	191	5.92
	400	12.2	0.26	45.1	0.96	109	2.33	146	3.12	194	4.15
	300	11.9	0.19	45.5	0.73	110	1.76	148	2.37	196	3.14
	200	12.2	0.13	46.1	0.49	111	1.18	149	1.59	198	2.12
	100	11.2	0.06	46.6	0.25	114	0.608	152	0.812	202	1.08
	10	28.1	0.015	48.5	0.026	116	0.062	157	0.084	209	0.122
2.5:1	1450					96.2	5.97	113	6.99	184	11.4
	1150					97.2	4.78	115	5.64	185	9.11
	870					99.0	3.68	3116	4.30	188	7.00
	580					100.0	2.48	118	2.92	192	4.76
	400					100.9	1.73	120	2.05	195	3.34
	300					102.9	1.32	121	1.55	197	2.53
	200					103.9	0.888	123	1.05	200	1.71
	100					104.9	0.448	123	0.528	203	0.867
	10					107.8	0.046	126	0.054	208	0.089
3:1	1450					93.6	4.84	105	5.42	159	8.20
	1150					94.8	3.88	106	4.34	160	6.55
	870					95.9	2.97	108	3.34	163	5.04
	580					97.6	2.02	109	2.25	166	3.42
	400					99.0	1.41	111	1.58	168	2.39
	300					100	1.07	111	1.18	169	1.80
	200					100	0.712	113	0.803	171	1.22
	100					102	0.363	115	0.409	173	0.618
	10					104	0.037	118	0.042	179	0.064
4:1	1450					80.6	3.12	93.4	3.62	124	4.80
	1150					81.5	2.50	94.3	2.90	125	3.83
	870					82.4	1.92	95.9	2.23	127	2.95
	580					84.1	1.30	96.9	1.50	129	2.00
	400					85.1	0.91	98.7	1.05	131	1.40
	300					86.1	0.69	98.3	0.79	131	1.05
	200					86.0	0.46	101	0.54	134	0.71
	100					87.7	0.23	101	0.27	135	0.36
	10					89.3	0.02	101	0.03	140	0.04
5:1	1450					52.0	1.61	57.4	1.78	68.7	2.13
	1150					52.5	1.29	58.0	1.43	69.2	1.70
	870					53.2	0.99	59.0	1.10	70.4	1.31
	580					54.2	0.67	59.6	0.74	71.7	0.89
	400					52.9	0.47	60.7	0.52	72.6	0.62
	300					55.5	0.36	60.4	0.39	72.9	0.47
	200					55.4	0.24	61.7	0.26	74.1	0.32
	100					56.5	0.12	62.9	0.13	75.1	0.16
	10					57.6	0.01	64.5	0.01	77.8	0.02

Спирально конические редукторы

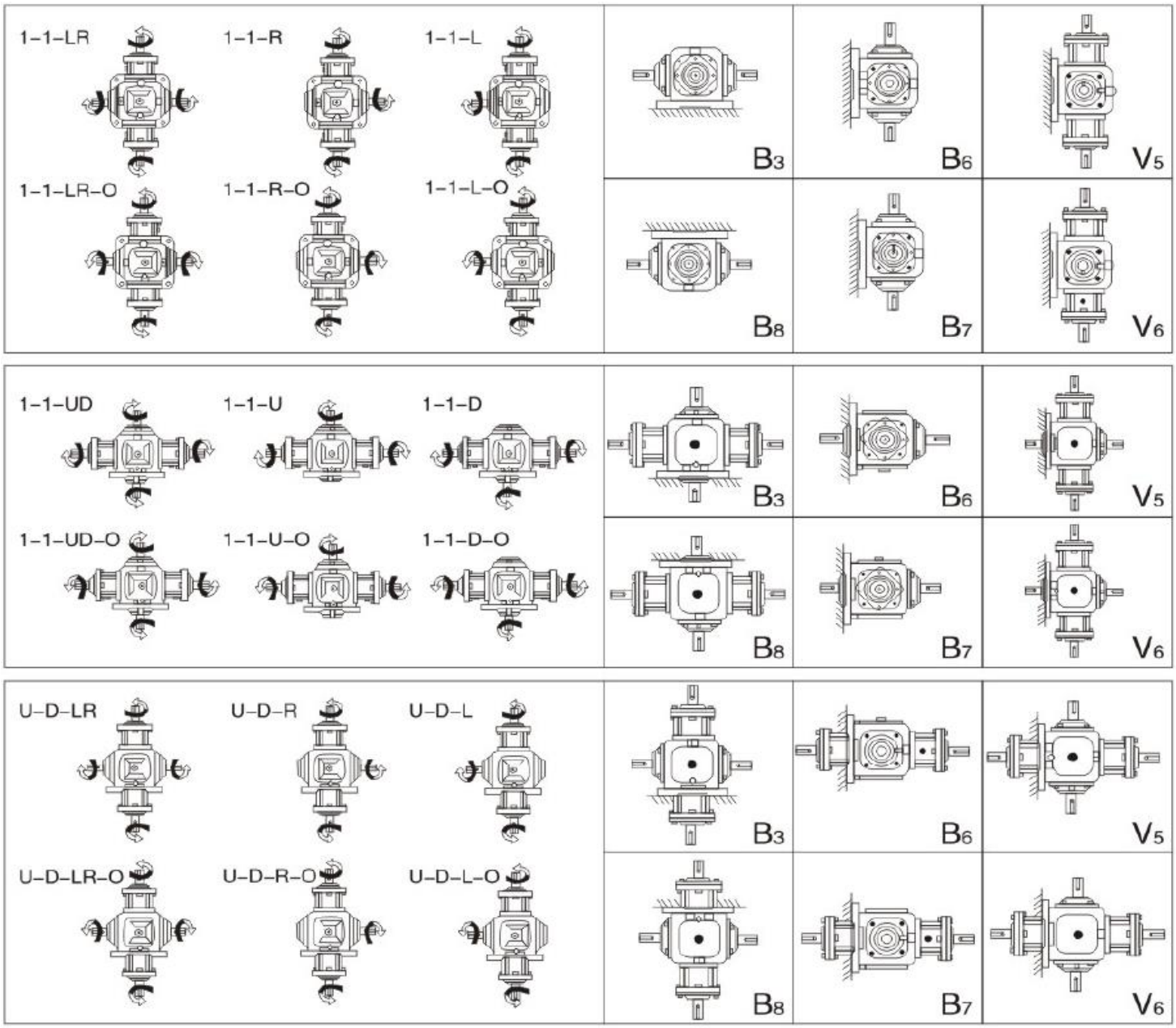
СИСТЕМЫ ЭЛЕКТРОПРИВОДА

i	n1 (r/min)	T10		T12		T16		T20		T25	
		M_{N2} (N · m)	P_{N1} (Kw)	M_{N2} (N · m)	P_{N1} (Kw)	M_{N2} (N · m)	P_{N1} (Kw)	M_{N2} (N · m)	P_{N1} (Kw)	M_{N2} (N · m)	P_{N1} (Kw)
1:1	1450	421	65.3	619	96.0	1019	163				
	1150	453	55.7	665	81.1	1098	139	1842	234		
	870	479	44.6	726	67.5	1186	114	2009	193	3489	335
	580	493	30.6	802	49.7	1343	85.9	2274	145	3940	252
	400	504	21.5	821	35.1	1499	66.1	2538	112	4410	195
	300	513	16.4	835	26.8	1637	54.1	2744	90.8	4792	159
	200	521	11.1	852	18.2	1784	39.3	3126	69.0	5390	119
	100	535	5.72	875	9.36	1842	20.3	3205	35.3	5439	60.0
	10	561	0.599	919	0.983	1940	2.14	3205	3.53	5713	6.30
1.5:1	1450	374	38.7	564	58.3						
	1150	380	31.2	601	49.2						
	870	389	24.1	656	40.7						
	580	396	16.4	699	28.9						
	400	406	11.6	711	20.3						
	300	411	8.78	724	15.5						
	200	417	5.95	736	10.5						
	100	426	3.04	754	5.37						
	10	443	0.316	785	0.56						
2:1	1450	305	23.6	516	40.0	921	73.7				
	1150	309	19.0	516	31.7	938	59.5	1578	126		
	870	315	14.6	516	24.0	958	46.0	1607	102	3146	199
	580	322	10.0	524	16.3	980	31.3	1646	79.0	3224	155
	400	328	7.02	538	11.5	1000	22.0	1695	54.2	3332	107
	300	332	5.33	543	8.71	1009	16.7	1725	38.0	3420	75.4
	200	338	3.61	551	5.89	1029	11.3	1754	39.0	3479	57.5
	100	334	1.84	563	3.01	1058	5.84	1784	19.7	3557	39.2
	10	357	0191	586	0.313	1098	0.605	1833	10.1	3646	20.1
2.5:1	1450	293	18.2	507	31.4			1921	1.06	3822	2.11
	1150	298	14.7	514	25.3						
	870	302	11.2	523	19.5						
	580	310	7.68	535	13.3						
	400	315	5.38	545	9.32						
	300	317	4.06	552	7.08						
	200	321	2.75	560	4.79						
	100	326	1.40	568	2.43						
	10	336	0.144	588	0.251						
3:1	1450	270	14.0	458	23.6	904	48.2	1529	82.3	2935	158
	1150	279	11.3	464	19.0	920	38.9	1561	66.6	3045	130
	870	279	8.66	469	14.6	940	30.1	1598	51.6	3135	101
	580	285	5.89	480	9.92	960	20.4	1644	35.4	3246	69.9
	400	288	4.11	490	6.98	978	14.4	1672	24.8	3317	49.3
	300	291	3.11	495	5.29	990	10.9	1701	18.9	3372	37.6
	200	294	2.10	501	3.57	1005	7.38	1733	12.9	3449	25.6
	100	300	1.07	510	1.82	1038	3.82	1777	6.60	3537	13.1
	10	308	0.110	527	0.188	1076	0.40	1865	0.69	3713	1.4
4:1	1450	241	9.35	434	13.8	850	34.3	1452	58.7	2798	113
	1150	246	7.54	441	13.5	865	27.7	1483	47.5	3892	92.6
	870	249	5.78	448	10.4	884	21.4	1518	36.8	2978	72.2
	580	254	3.93	456	7.07	902	14.6	1562	25.2	3084	49.8
	400	257	2.74	456	4.97	919	10.2	1588	17.7	3151	35.1
	300	259	2.08	470	3.77	930	7.8	1616	13.5	3204	26.8
	200	262	1.40	476	2.54	944	5.3	1646	9.17	3276	18.2
	100	267	0.71	485	1.30	976	2.7	1688	4.70	3360	9.36
	10	275	0.07	501	0.13	1011	0.3	1772	0.49	3527	0.98
5:1	1450	136	4.21	296	9.18	814	26.3	1391	44.9	2631	85.0
	1150	138	3.39	301	7.39	828	21.2	1420	36.4	2771	71.0
	870	140	2.60	305	5.68	847	16.4	1454	28.2	2853	55.3
	580	143	1.77	311	3.86	864	11.2	1496	19.3	2954	38.2
	400	144	1.23	318	2.72	881	7.85	1521	13.6	3018	26.9
	300	146	0.93	321	2.06	891	5.96	1548	10.3	3069	20.5
	200	148	0.63	325	1.39	905	4.03	1577	7.03	3138	14.0
	100	150	0.32	331	0.71	935	2.08	1617	3.60	3218	7.17
	10	155	0.03	342	0.07	969	0.22	1697	0.38	3378	0.75

Модификация редуктора.



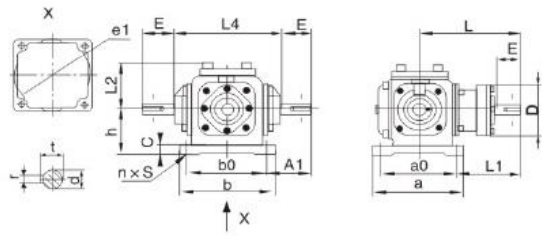
Спирально конические редукторы



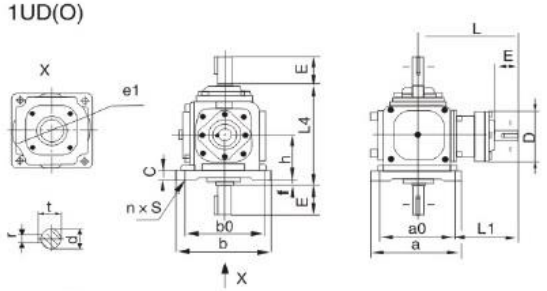
Спирально конические редукторы

T2–T16

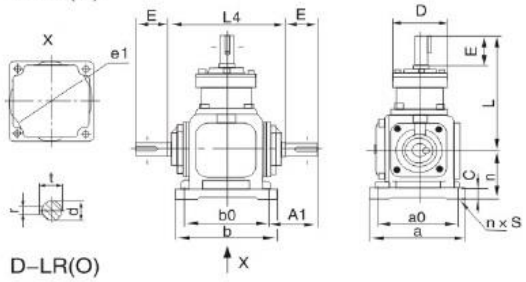
1–LR–(O)



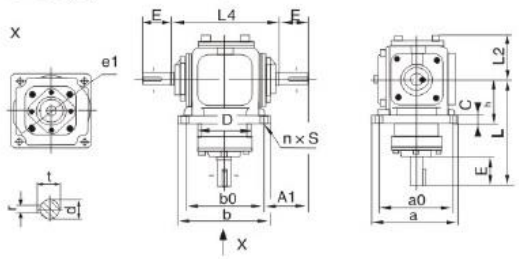
1UD(O)



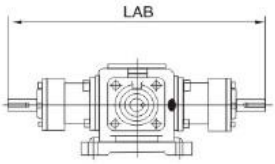
U–LR(O)



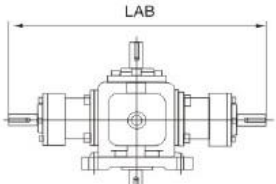
D–LR(O)



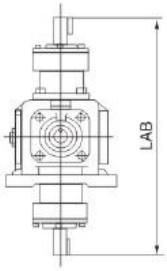
1–1–LR(O)



1–1–UD(O)

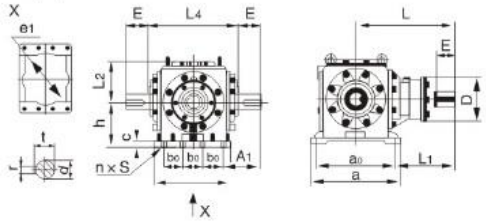


U–D–LR(O)

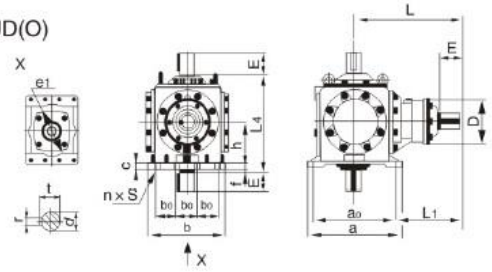


T20–T25

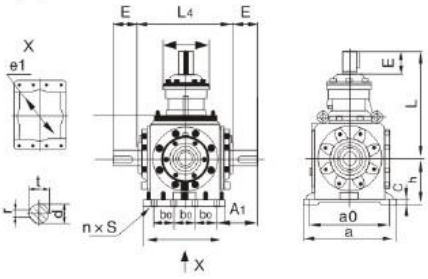
1–LR–(O)



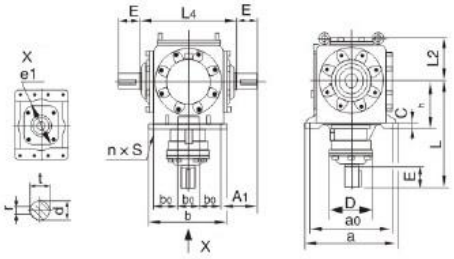
1UD(O)

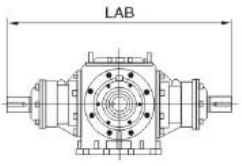


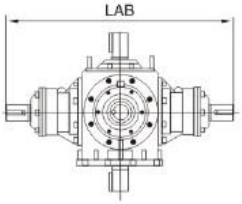
U–LR(O)

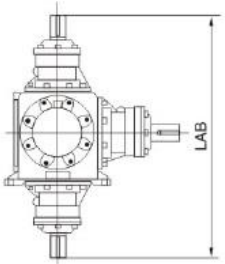


D–LR(O)









	T2	T4	T6	T7	T8	T10	T12	T16	T20	T25
A1	48	53.5	81	88	110.5	120	130	150	195	235
a	100	155	190	210	235	285	340	390	490	580
a0	84	125	152	174	195	240	290	330	430	520
b	100	155	190	210	235	285	340	390	410	480
b0	84	125	152	174	195	240	290	330	110	130
C	10	17	17	20	23	25	32	40	32	35
D	58	76	115	125	159	155	168	193	220	270
d(h7)	15	19	25	32	40	45	50	60	72	85
E	33	38	50	62	75	90	100	105	105	130
e1(h8)×深	94×3	155×5	190×5	220×5	250×85	305×5	370×5	420×7	360×10	430×10
f	5	2	17	13	18	10	0	10	10	10
h	52	76	90	100	115	140	175	200	245	290
L	124	180	222	265	308	360	415	455	545	660
L1	82	117.5	146	178	210.5	340	270	290	330	400
L2	52	76	87	99	114.5	133	160	186	217	255
L4	114	156	214	226	266	300	350	420	510	600
LAB	/	360	444	530	616	720	830	/	/	/
n	4	4	4	4	4	4	4	4	8	8
r	5	6	8	10	12	14	14	18	20	22
S	9	10.5	14	14	14	16	21	25	21	24
t	17	21.5	28	35	43	48.5	53.5	64	76.5	90

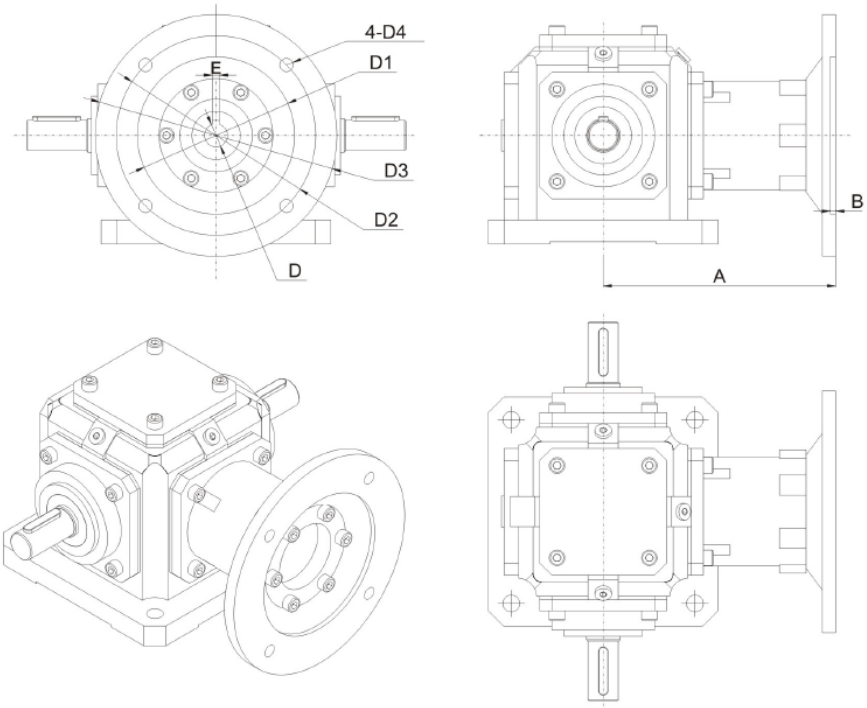
При передаточном отношении 4:1 и 5:1 размер выходного вала не меняется, размер входного вала указан в таблице ниже:

		T6	T7	T8	T10	T12	T16	T20	T25
4:1	d(h7)	19	22	28	32	36	50	55	70
	E	38	50	62	62	75	100	105	105
	L	210	265	310	362	415	465	560	660
	L1	134	178	212.5	242	270	300	345	400
	LAB	420	530	620	724	830	/	/	/
	r	6	6	8	10	10	14	16	20
	t	21.5	24.5	31	35	39	53.5	59	74.5
5:1	d(h7)	19	22	28	32	36	42	50	60
	E	38	50	62	62	75	90	100	105
	L	210	265	310	362	415	465	555	670
	L1	134	178	212.5	242	270	300	340	410
	LAB	420	530	620	724	830	/	/	/
	r	6	6	8	10	10	12	14	18
	t	21.5	24.5	31	35	39	45	53.5	64

Редуктор в исполнении с фланцем под двигатель.

DT4 – 1:1 – LR – O – B3 + 71B5

DT4 – тип редуктора
1:1 – передаточное отношение
LR – O – модификация
B3 – монтажное исполнение
71B5 – обозначение размера входного фланца

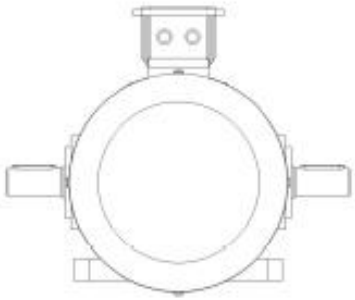


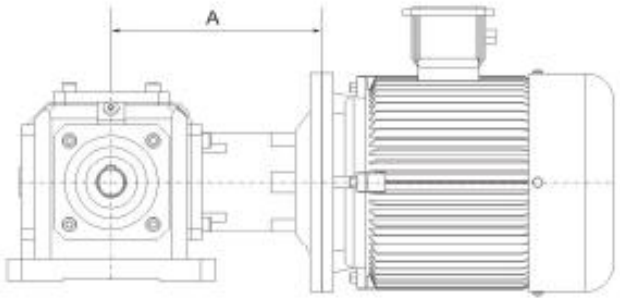
Model	Parameter								
	Input	A	B	D	D1	D2	D3	D4	E
DT4	71B5	154	7	14	110	130	160	9	5
	71B14	154	6	14	70	85	105	6.6	5
	80B5	154	7	19	130	165	200	11	6
	80B14	154	4	19	80	100	120	6.6	6
DT6	80B5	192.5	4.5	19	130	165	200	11	6
	80B14	192.5	6	19	80	100	120	6.6	6
	90B5	192.5	4.5	24	130	165	200	11	8
	90B14	192.5	6	24	95	115	140	9	8
DT7	90B5	231	4.5	24	130	165	200	11	8
	90B14	231	6	24	95	115	140	9	8
	100B5	231	6	28	180	215	250	13.5	8
	100B14	231	7	28	110	130	160	9	8
DT8	100B5	273	6	28	180	215	250	13	8
	112B5	273	6	28	180	215	250	13	8
DT10	112B5	307	6	28	180	215	250	13	8
	132B5	307	6	38	230	265	300	13	10

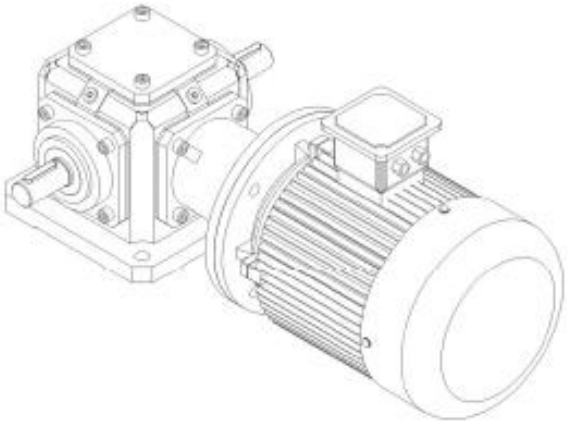
Редуктор с электродвигателем.

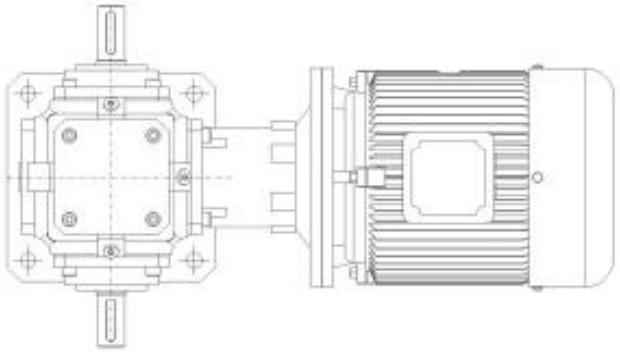
DT4 – 1:1 – LR – O – B3 + 0,37kW/4P/B14

DT4 – тип редуктора
1:1 – передаточное отношение
LR – O – модификация
B3 – монтажное исполнение
0,37kW/4P/B14 – обозначение двигателя







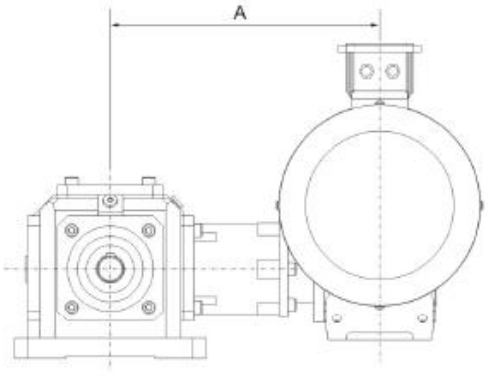


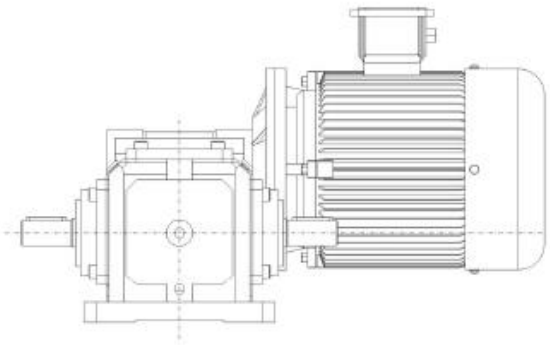
DT Series model	+	Optional motor power (4–pole motor)				A
DT4	+	0.25KW	0.37KW	0.55KW	0.75KW	154
DT6	+	0.55KW	0.75KW	1.1KW	1.5KW	192.5
DT7	+	1.1KW	1.5KW	2.2KW	3KW	231
DT8	+	2.2KW	3KW	4KW		273
DT10	+	3KW	4KW	5.5KW	7.5KW	307

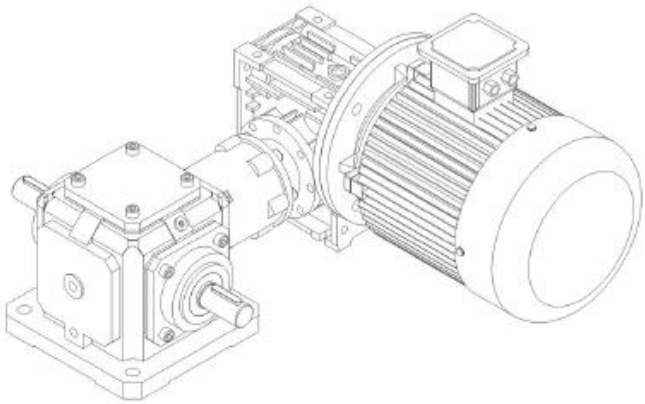
Модель с червячным редуктором и двигателем

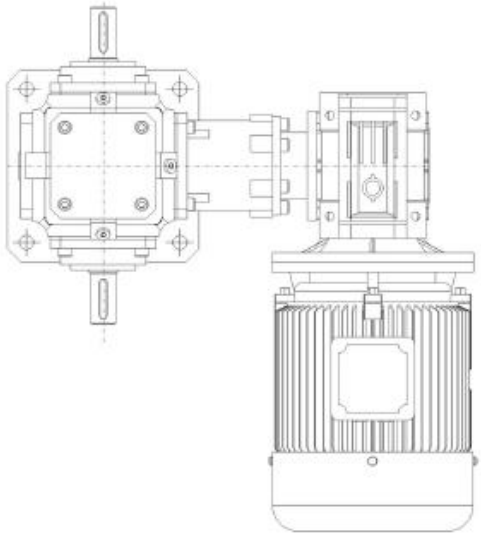
DT4 – 1:1 – LR – O – B3 + RV40 – 10 - 0,37kW/4P/B14

DT4 – тип редуктора
1:1 – передаточное отношение
LR – O – модификация
B3 – монтажное исполнение
RV040-10 - модель червячного редуктора
0,37kW/4P/B14 – обозначение двигателя









DT Series model	+	RV Series model	A
DT4	+	RV40	230.5
DT6	+	RV63	289.5
DT7	+	RV75	346
DT8	+	RV90	398
DT10	+	RV90	432

Конические редукторы со спиральным зубчатым зацеплением серии HD

Конические редукторы со спиральным зубчатым зацеплением серии HD.

Система обозначения

HD – AF – 11 - 1:1 – D

HD – тип редуктора
AF – исполнение редуктора
11 - типоразмер
1:1 – передаточное отношение
D – монтажное исполнение

Варианты исполнения:

HD – с выступающим входным и выходным валом

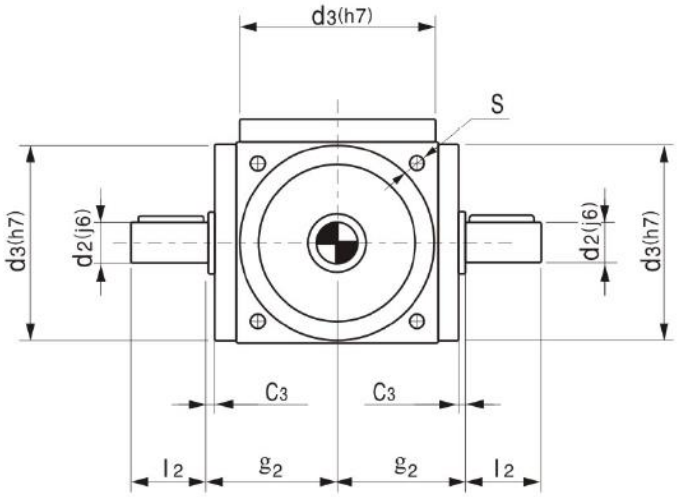
HDA – с выступающим входным валом и полым выходным валом

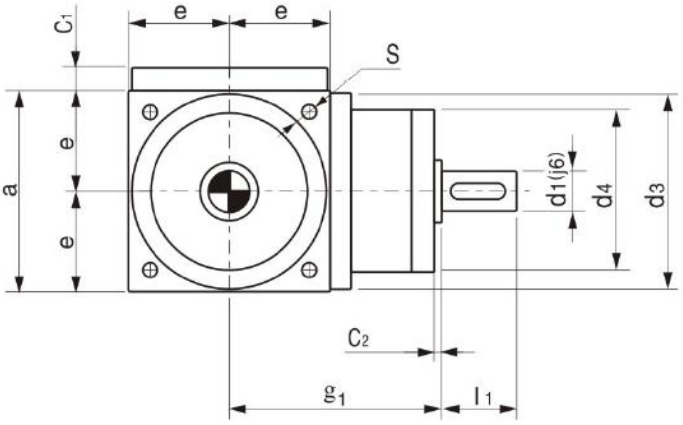
HDF – с выступающим выходным валом и входным фланцем

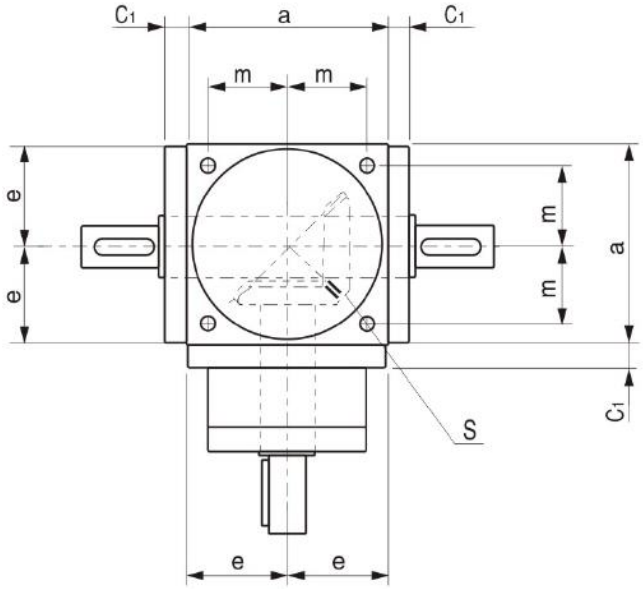
HDAF – с полым выходным валом и входным фланцем

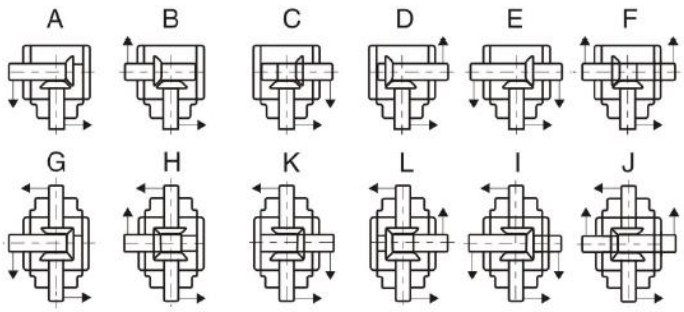
i	n_1 r/min	n_2 r/min	Box type						
			09	11	14	17	21	24	28
			Allowable input power P_N (KW)						
1	2000	2000	7.55	13.8	29.9	49.2	84	111	188
	1500	1500	6	11	23.9	39.3	67.5	90.5	156
	1000	1000	4.3	7.85	17.2	28.8	50.5	68	115
	750	750	3.4	3.15	13.4	22.8	40.8	54.5	94.2
1.5	2000	1333	5.45	9.7	16.8	33.9	70	92.5	124
	1500	1000	4.3	7.75	13.5	27.2	56.5	75.5	103
	1000	667	3.05	5.45	9.7	19.6	41.2	55.5	75.5
	750	500	2.3	4.25	7.6	15.5	33	44.5	60.5
2	2000	1000	4.2	7.95	14.1	26.2	52.4	71.5	107
	1500	750	3.35	6.3	11.1	20.8	43.2	58.5	88
	1000	500	2.35	4.45	7.85	14.9	31.4	41.9	64.5
	750	375	1.8	3.45	6.2	11.6	25.2	33.8	51
3	2000	667	2.85	5.6	10.1	18.2	34.9	52.4	73
	1500	500	2.2	4.45	7.95	14.4	27.7	41.9	58.5
	1000	333	1.5	3.1	5.6	10.1	20	30.2	42.4
	750	250	1.2	2.4	4.4	7.8	15.7	23.6	33.5
4	2000	500	2.15	3.75	6.8	10.5	23.3	37.7	47.6
	1500	375	1.65	2.9	5.3	8.4	18.5	30.2	38.5
	1000	250	1.15	2	3.75	5.9	13.4	21.7	27.5
	750	188	0.87	1.55	2.95	4.55	10.4	17.1	21.7
5	2000	400	1.4	2.95	5.05	8.05	15.9	28.9	39.4
	1500	300	1.1	2.35	3.95	6.45	12.7	23.4	31.4
	1000	200	0.75	1.6	2.75	4.5	9	16.4	22.4
	750	150	0.58	1.25	2.1	3.45	6.95	13	17.7

HD09-HD28 (i=1 - 5)





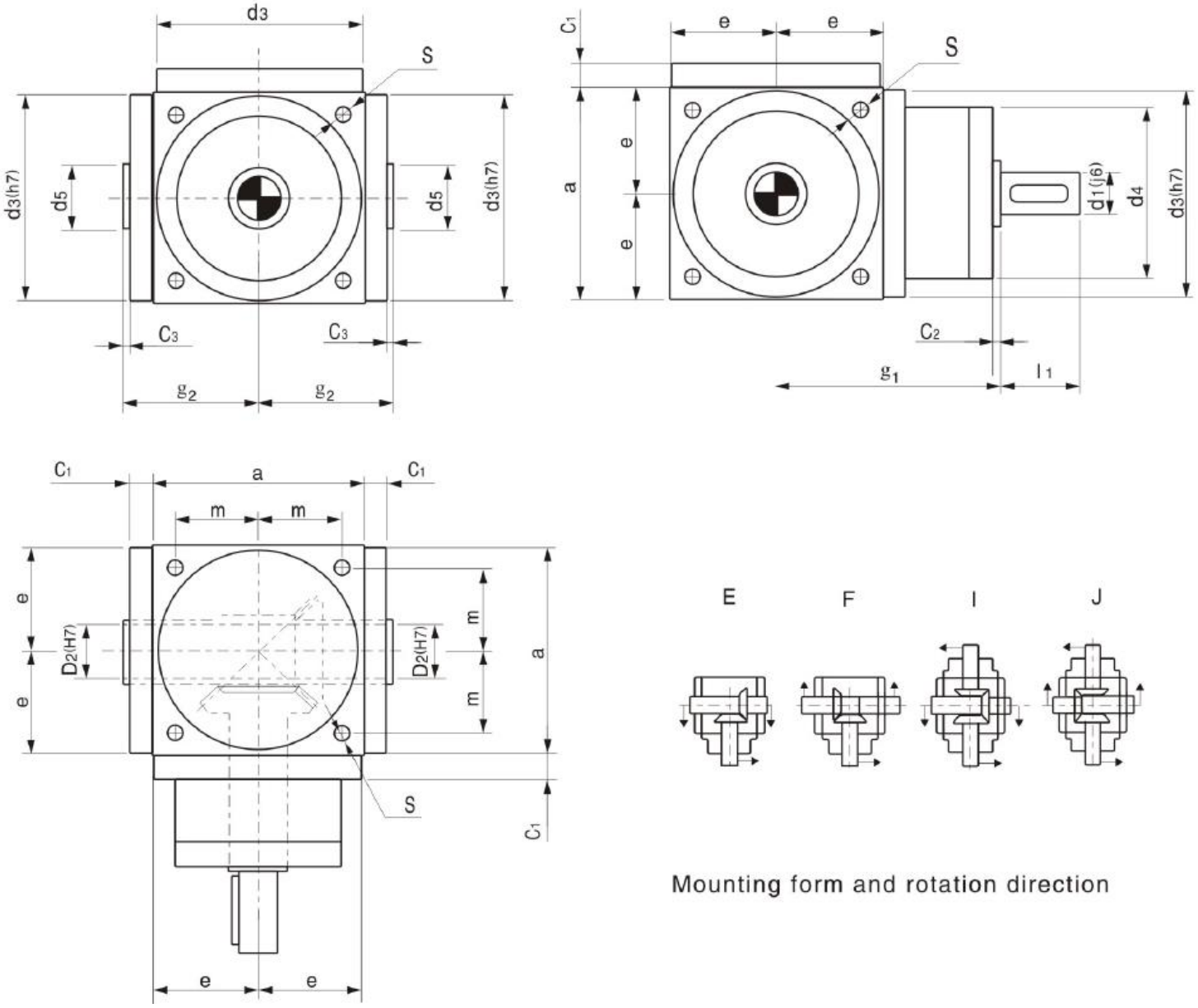




Mounting form and rotation direction

TYPE	a	C1	C2	C3	d2	l2	d3	e	g1	g2	m	S	i=1~2		i=3		i=4		i=5		i=1~3	i=4~5	Weight	Oil
													d1	l1	d1	l1	d1	l1	d1	l1	d4	d4	Kg	L
09	90	12	2	2	18	35	88	45	97	59	36	M6	18	35	16	30	11	23	11	23	72	62	6	0.2
11	110	12	2	2	22	40	108	55	112	69	44	M8	22	40	20	35	16	30	14	25	81	72	10	0.3
14	140	15	2	2	32	50	135	70	157	84	55	M10	32	50	26	45	20	35	16	30	98	81	20	0.4
17	170	15	2	3	40	60	165	85	181	103	67	M12	40	60	32	50	26	45	22	40	118	98	32	1
21	210	20	2	2	45	70	205	105	230	130	85	M16	45	70	45	70	32	50	30	50	128	110	60	2
24	240	22	2	2	48	85	235	120	280	145	95	M16	48	85	48	80	38	55	35	55	138	120	75	2.5
28	280	22	2	2	60	110	275	140	280	160	110	M16	60	110	50	80	45	70	42	70	150	135	115	3

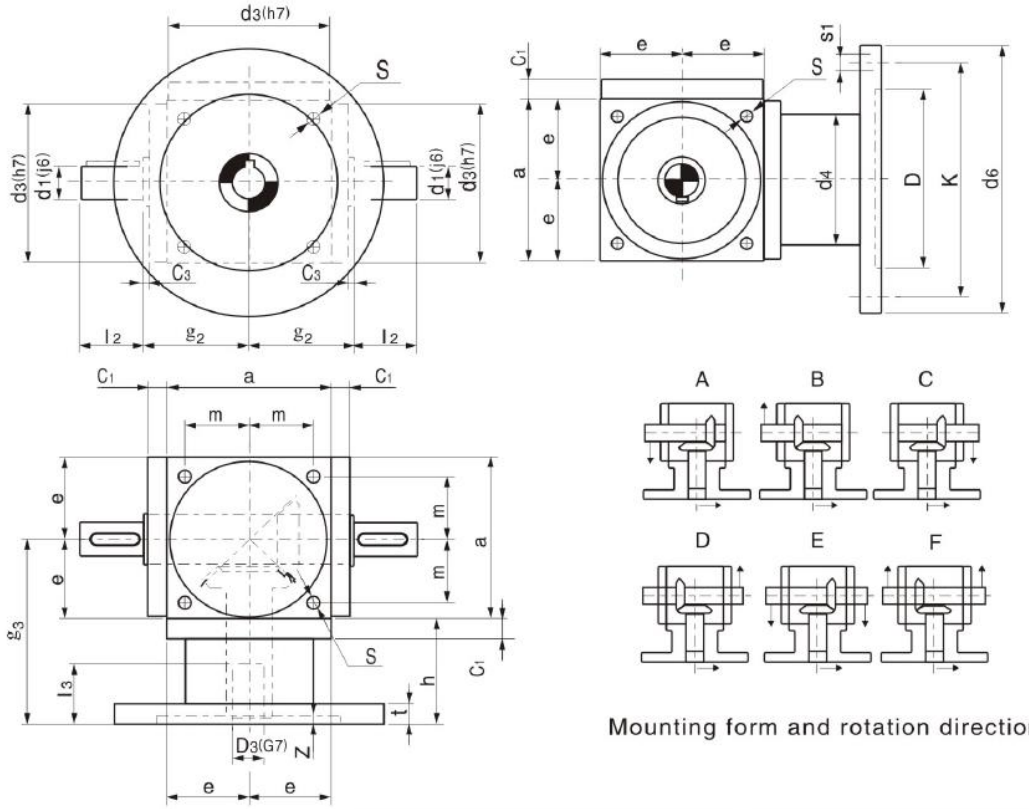
HDA09-HDA28



Mounting form and rotation direction

TYPE	a	C1	C2	C3	D2	d5	d3	e	g1	g2	m	S	i=1~2		i=3		i=4		i=5		i=1~3	i=4~5	Weight	Oil
													d1	l1	d1	l1	d1	l1	d1	l1	d4	d4	Kg	L
09	90	12	2	2	16	25	88	45	97	59	36	M6	18	35	16	30	11	23	11	23	72	62	6	0.2
11	110	12	2	2	22	35	108	55	112	69	44	M8	22	40	20	35	16	30	14	25	81	72	10	0.3
14	140	15	2	2	28	45	135	70	157	87	55	M10	32	50	26	45	20	35	16	30	98	81	20	0.4
17	170	15	2	3	38	55	165	85	181	103	67	M12	40	60	32	50	26	45	22	40	118	98	32	1
21	210	20	2	2	45	65	205	105	230	130	85	M16	45	70	45	70	32	50	30	50	128	110	60	2
24	240	22	2	2	55	75	235	120	280	145	95	M16	48	85	48	80	38	55	35	55	138	120	75	2.5
28	280	22	2	2	60	85	275	140	280	160	110	M16	60	110	50	80	45	70	42	70	150	135	115	3

HDF09-HDF28



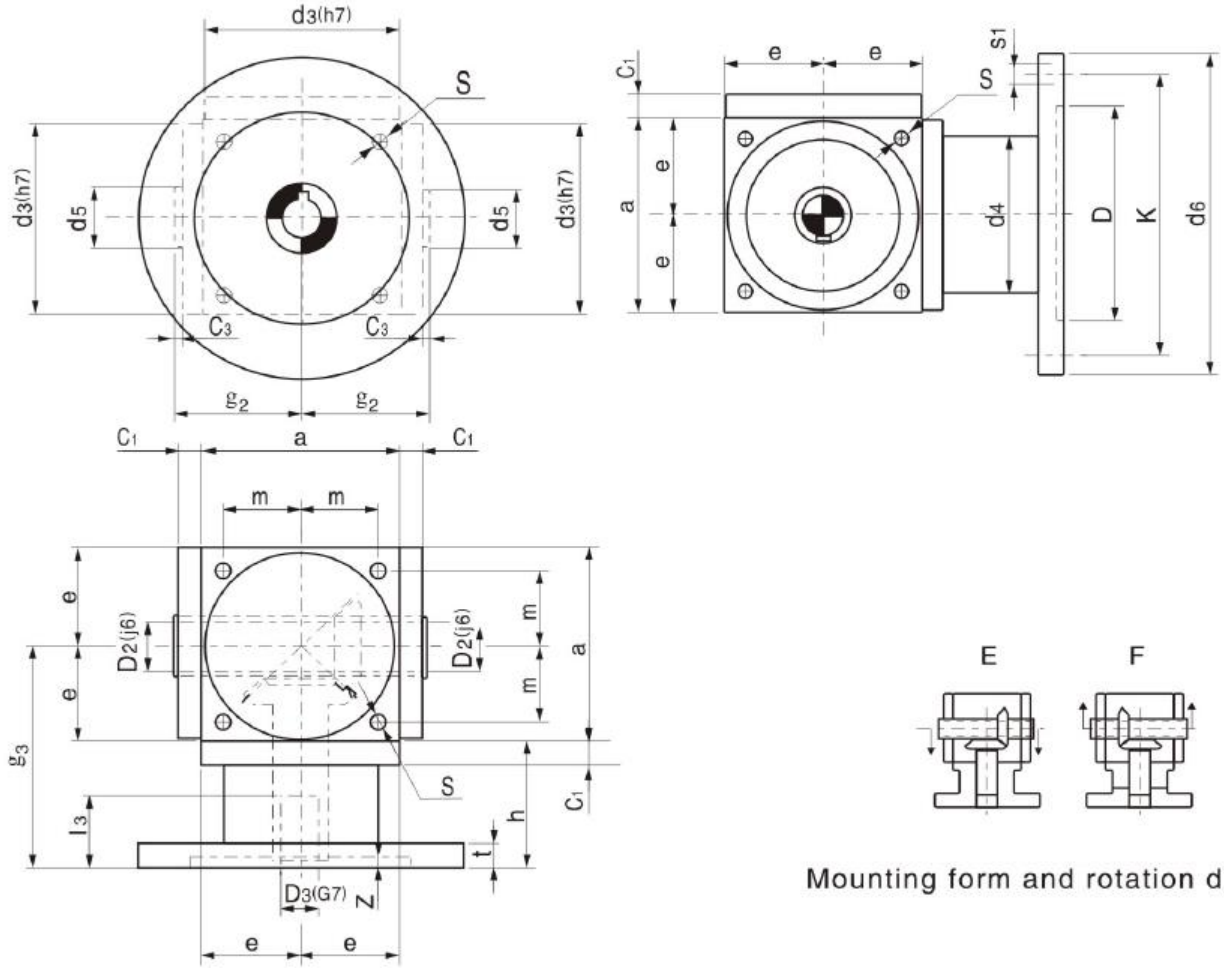
Mounting form and rotation direction

TYPE	a	C1	C3	d3	d4	d2	l2	i=1~2 D3X l3				i=3~5 D3X l3			
09	90	12	2	88	86	18	35	19X43	14X33	11X26	9X23	19X43	14X33	11X26	9X23
11	110	12	2	108	82	22	40	24X53	19X43	14X33	11X26	24X53	19X43	14X33	11X26
14	140	12	2	135	104	32	50	38X83	28X63	24X53	19X43	28X63	24X53	19X43	14X43
17	170	15	3	165	128	40	60	42X115	38X83	28X63	24X53	38X83	28X63	24X53	19X43
21	210	18	2	205	160	45	70	48X115	42X115	38X83	28X63	42X115	38X83	28X63	24X53
24	240	18	2	235	170	55	85	55X115	48X115	42X115	38X83	48X115	42X115	38X83	28X63
28	280	18	2	275	190	60	110	60X145	55X115	48X115	42X115	55X115	48X115	42X115	38X83

TYPE	e	g2	g3	h	m	S	i=1~2 d6				i=3~4 d6			
09	45	59	110	65	36	M6	200	160	140	120	200	160	140	120
11	55	69	130	75	44	M8	200	160	140	120	200	160	140	120
14	70	84	170	100	55	M10	300	250	200	160	300	250	200	160
17	85	103	215	130	67	M12	350	300	250	200	350	300	250	200
21	105	125	245	140	85	M16	350	300	250	—	350	300	250	200
24	120	140	265	145	95	M16	400	350	300	250	400	350	300	250
28	140	160	315	175	110	M16	450	400	350	300	450	400	350	

d6	D	K	S1	t	Z
120	80	100	4XM6	11	3.5
140	95	115	4XM8	11	3.5
160	110	130	4XM8	11	4
200	130	165	4XM10	14	4
250	180	215	4XM12	16	4.5
300	230	265	4XM12	16	4.5
350	250	300	4XM16	20	6
400	300	350	4XM16	20	6
450	350	400	4XM16	25	6

HDAF09-HDAF28



Mounting form and rotation direction

TYPE	a	C1	C3	d3	d4	D2	d5	i=1~2 D3X l3				i=3~5 D3X l3			
09	90	12	2	88	86	16	25	19X43	14X33	11X26	9X23	19X43	14X33	11X26	9X23
11	110	12	2	108	82	22	35	24X53	19X43	14X33	11X26	24X53	19X43	14X33	11X26
14	140	12	2	135	104	28	45	38X83	28X63	24X53	19X43	28X63	24X53	19X43	14X43
17	170	15	3	165	128	38	55	42X115	38X83	28X63	24X53	38X83	28X63	24X53	19X43
21	210	18	2	205	160	45	65	48X115	42X115	38X83	28X63	42X115	38X83	28X63	24X53
24	240	18	2	235	170	55	75	55X115	48X115	42X115	38X83	48X115	42X115	38X83	28X63
28	280	18	2	275	190	60	85	60X145	55X115	48X115	42X115	55X115	48X115	42X115	38X83

TYPE	e	g2	g3	h	m	S	i=1~2 d6				i=3~4 d6			
09	45	59	110	65	36	M6	200	160	140	120	200	160	140	120
11	55	69	130	75	44	M8	200	160	140	120	200	160	140	120
14	70	84	170	100	55	M10	300	250	200	160	300	250	200	160
17	85	103	215	130	67	M12	350	300	250	200	350	300	250	200
21	105	125	245	140	85	M16	350	300	250	—	350	300	250	200
24	120	140	265	145	95	M16	400	350	300	250	400	350	300	250
28	140	160	315	175	110	M16	450	400	350	300	450	400	350	

d6	D	K	S1	t	Z
120	80	100	4XM6	11	3.5
140	95	115	4XM8	11	3.5
160	110	130	4XM8	11	4
200	130	165	4XM10	14	4
250	180	215	4XM12	16	4.5
300	230	265	4XM12	16	4.5
350	250	300	4XM16	20	6
400	300	350	4XM16	20	6
450	350	400	4XM16	25	6