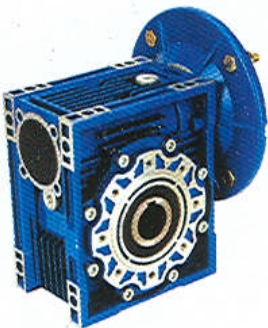
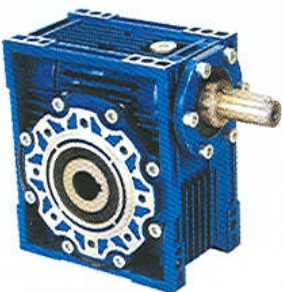
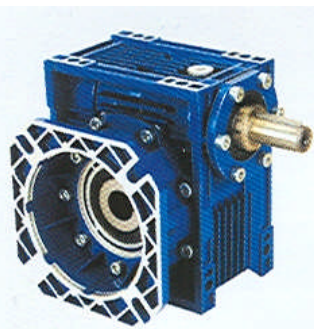
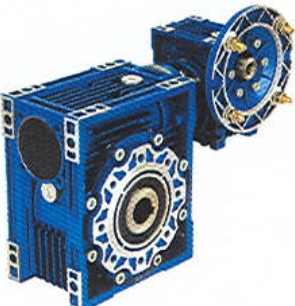
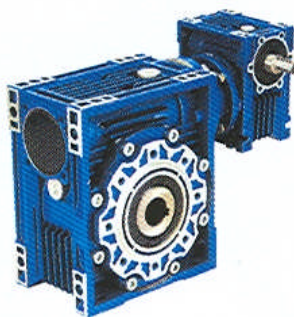
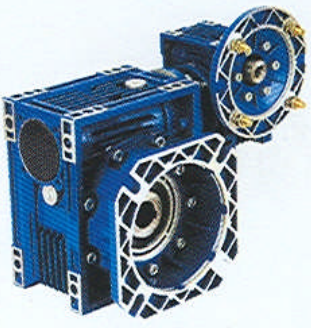
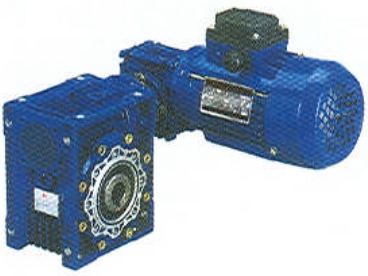
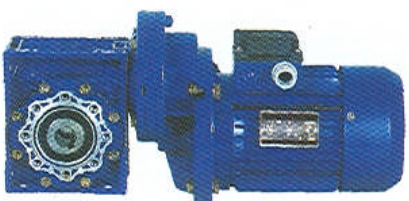
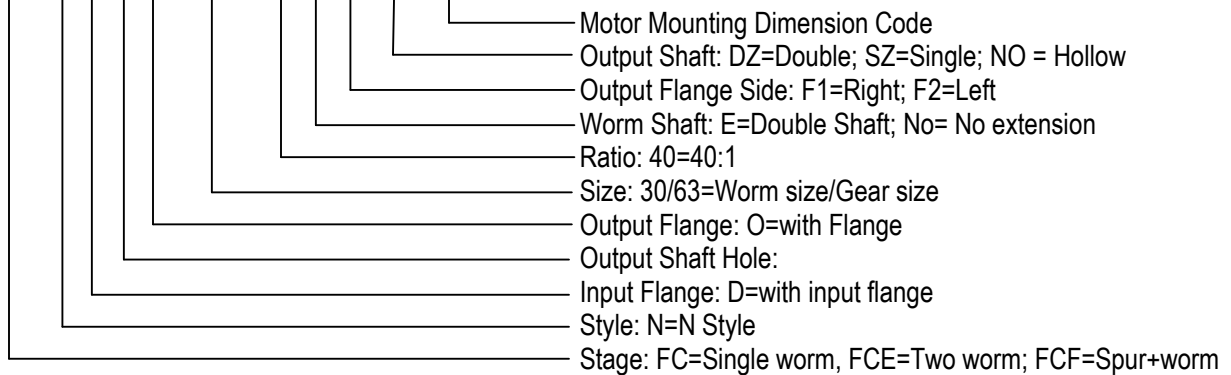


FC Series Worm Gear Reducers:

FCNDK Ratio: 7.5~100 	FCNK Ratio: 7.5~100 	FCNDKO Ratio: 7.5~100 
FCNKO Ratio: 7.5~100 	FCENDK Ratio: 100~3000 	FCENK Ratio: 100~3000 
FCENDKO Ratio: 100~3000 	FCENKO Ratio: 100~3000 	FCENDK Ratio: 100~3000 
FCFNDK Ratio: 72.6~317 	FCPK Ratio: 7 ~ 100 	FCPDK Ratio: 7 ~ 100 

● **Product Code Number:**

FC(E) N D K O 30/(63) 40 E F1 SZ 63B5



● **Single Stage FCN Series**

Available Sizes:

Center Distance (mm)	25	30	40	50	63	75	90	110	130	150
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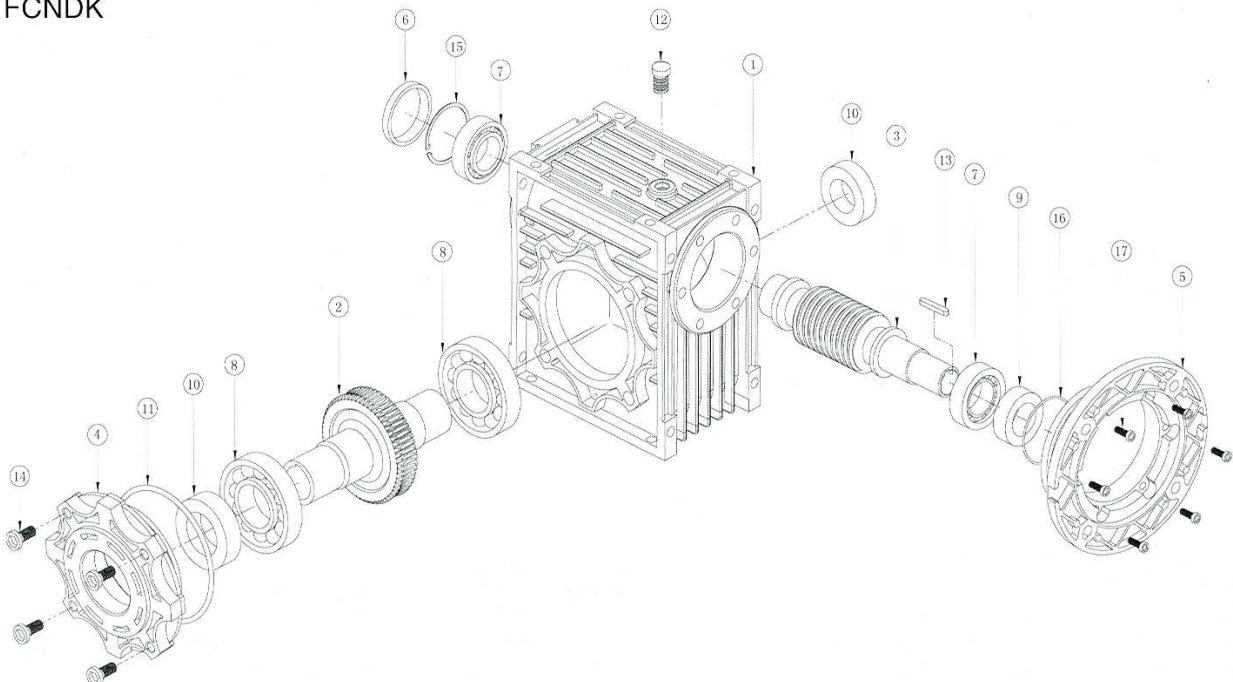
Reduction Ratio:

7.5	10	15	20	25	30	40	50	60	80	100
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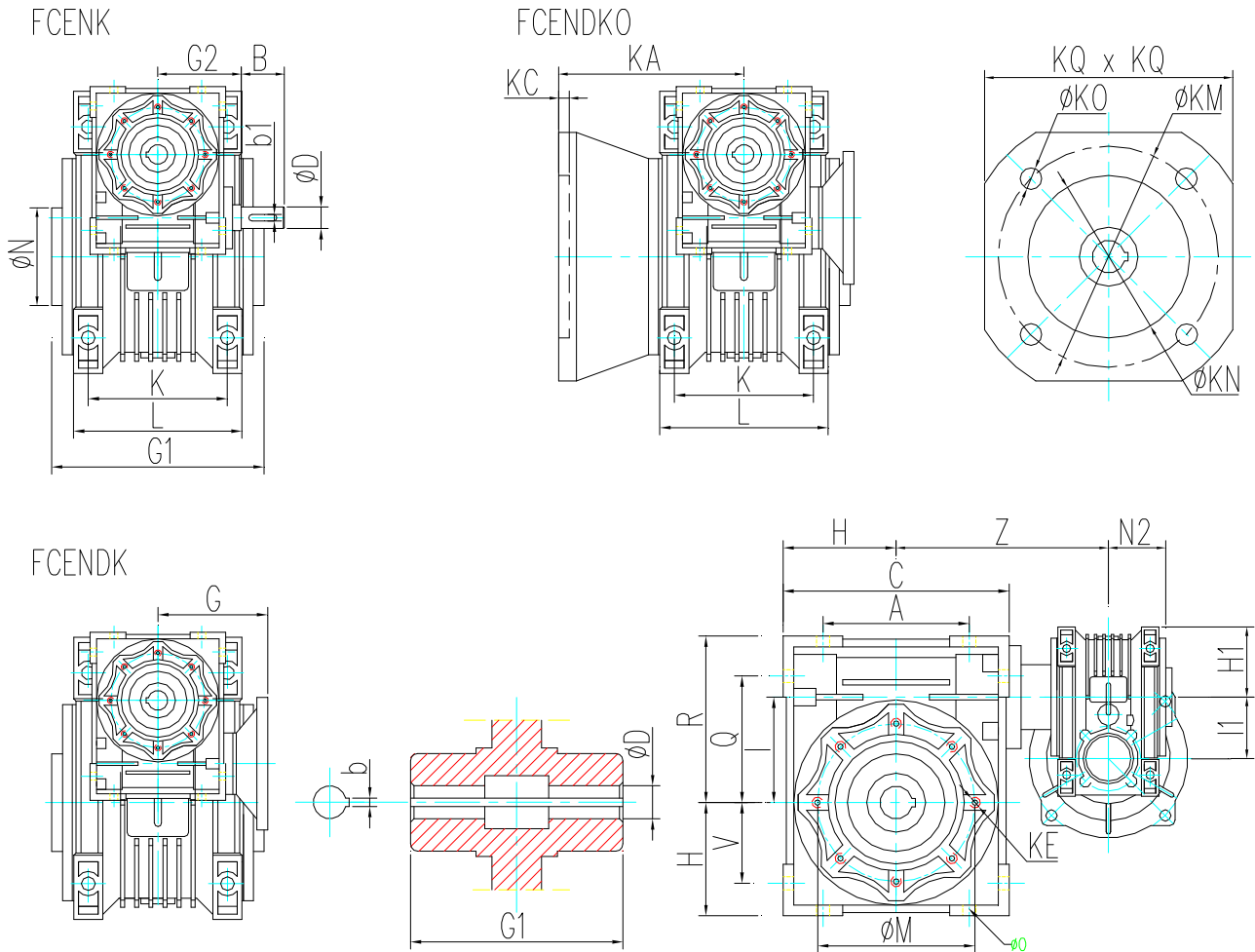
Assembly Drawing:

#	Parts	#	Parts	#	Parts
1	Body	7	Bearing	13	Key
2	Worm wheel	8	Bearing	14	Screw
3	Worm Shaft	9	Oil Seal	15	Snap Ring
4	End Bell	10	Oil Seal	16	O-ring
5	Flange	11	O-ring	17	Screw
6	Seal Cover	12	Oil Plug		

FCNDK

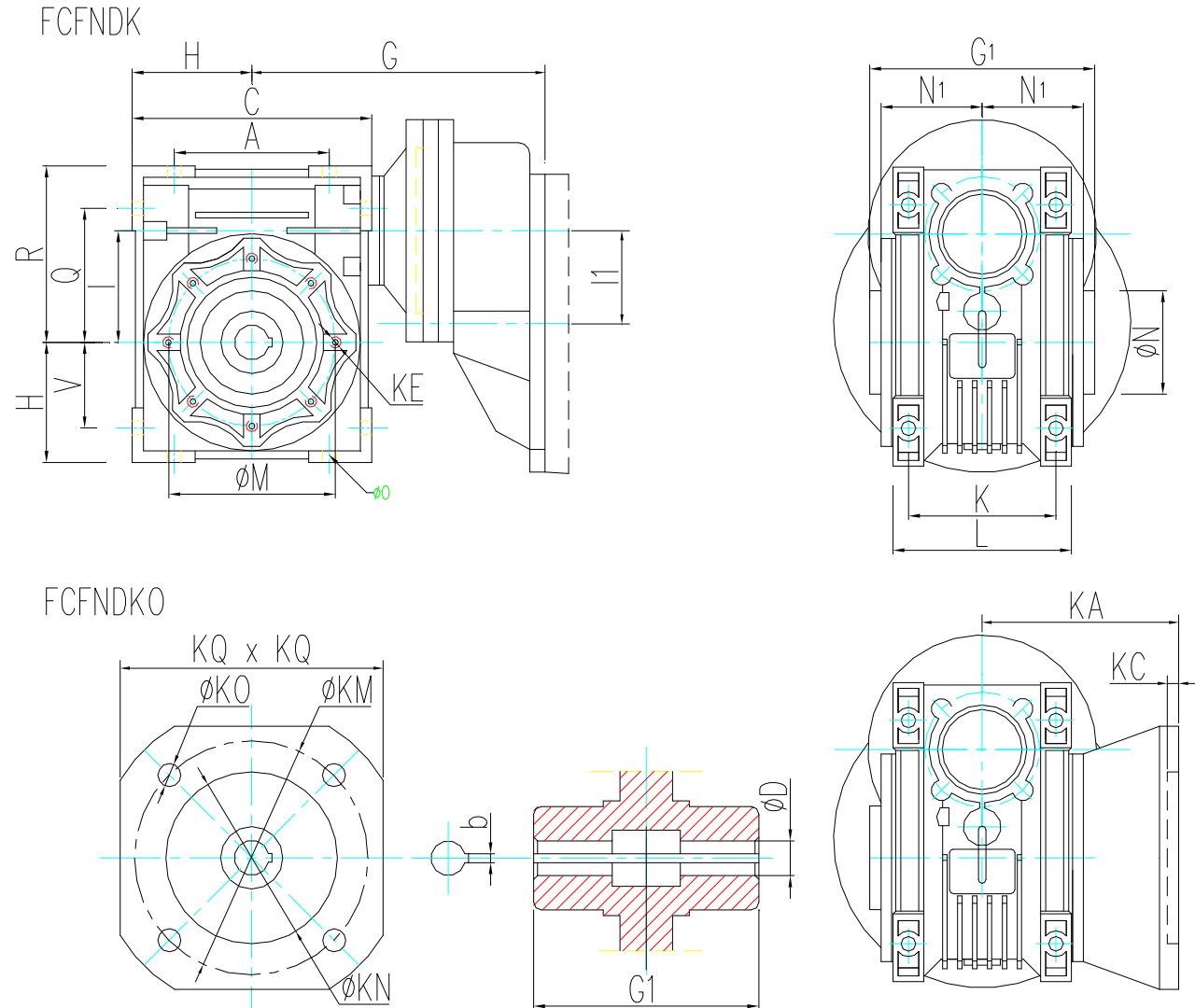


● Double Stage FCEN (Worm-Worm) Series Mounting Dimensions:



Size		A	B	C	D	D1	E	G	G1	G2	H	H1	L	M	N	N2	O	P	Q	R	V	Z	K	KA	KC	KE	KM	KN	KO	KQ	b	b1	kg
I1	I																																
25	30	54	-	80	14	-	97	45	63		40	35	56	65	55	22.5	6.5	75	44	57	27	100	44	54.5	4	M6	68	50	6.5	70	5	-	2.1
25	40	70	-	100	18	-	122	45	78		50	35	71	75	60	22.5	6.5	87	55	71.5	35	115	60	67	4	M6	87	60	9	95	6	-	3.2
30	40	70	20	100	18	9	122	55	78	51	50	40	71	75	60	29	6.5	87	55	71.5	35	120	60	67	4	M6	87	60	9	95	6	3	3.9
30	50	80	20	120	25	9	144	55	92	51	60	40	85	85	70	29	8.5	100	64	84	40	130	70	90	5	M8	90	70	11	110	8	3	5.0
30	63	100	20	144	25	9	174	55	112	51	72	40	103	95	80	29	8.5	110	80	102	50	145	85	82	6	M8	150	115	11	142	8	3	7.8
40	75	120	23	172	28	11	205	70	120	60	86	50	112	115	95	36.5	11	140	93	119	60	165	90	111	-	M8	165	130	14	170	8	4	12
40	90	140	23	208	35	11	238	70	140	60	103	50	130	130	110	36.5	13	160	102	135	70	182	100	111	-	M10	175	152	14	200	10	4	16
50	110	170	30	253	42	14	295	80	155	74	128	60	144	165	130	43.5	14	200	125	168	85	225	115	131	-	M10	230	170	14	260	12	5	39
63	130	200	40	293	45	19	335	95	170	90	148	72	155	215	180	53	16	250	140	188	100	245	120	140	-	M12	255	180	16	290	14	6	55
63	150	240	40	340	50	19	400	95	200	90	170	72	185	215	180	53	18	250	180	230	120	275	145	155	-	M12	255	180	16	290	14	6	93

Double Stage FCFN (Worm-Spur) Series Mounting Dimensions:



SIZE		A	C	D	G	G1	H	L	M	N	N1	O	Q	R	V	K	KA	KC	KE	KM	KN	KO	KP	KQ	b	kg
I	H																									
40	63	70	100	18	123	78	50	71	75	60	37	6.5	55	72	35	60	67	4	M6	87	60	9	110	95	6	3.9
50	63	80	120	25	133	92	60	85	85	70	44	8.5	64	84	40	70	90	5	M8	90	70	11	125	110	8	5.2
50	71	80	120	25	143	92	60	85	85	70	44	8.5	64	84	40	70	90	5	M8	90	70	11	125	110	8	5.8
63	63	100	144	25	148	112	72	103	95	80	53	8.5	80	102	50	85	82	6	M8	150	115	11	180	142	8	7.9
63	71	100	144	25	158	112	72	103	95	80	53	8.5	80	102	50	85	82	6	M8	150	115	11	180	142	8	8.5
75	71	120	172	28	176	120	86	112	115	95	57	11	93	119	60	90	111	6	M8	165	130	14	200	170	8	11
75	80	120	172	28	186	120	86	112	115	95	57	11	93	119	60	90	111	6	M8	165	130	14	200	170	8	13
90	71	140	208	35	193	140	103	130	130	110	67	13	102	135	70	100	111	6	M10	175	152	14	210	200	10	15
90	80	140	208	35	203	140	103	130	130	110	67	13	102	135	70	100	111	6	M10	175	152	14	210	200	10	17
110	80	170	253	42	233	155	128	144	165	130	74	14	125	168	85	115	131	6	M10	230	170	14	280	260	12	39
130	80	200	253	45	253	170	148	155	215	180	81	16	140	188	100	120	140	6	M12	235	180	16	320	290	14	52

FCN Series Worm Gear Reducer Mounting Dimensions:

Motor Mounting Dimensions	Input Power (kW)	IEC	B5				B14		
		Frame	D	N	M	P	N	M	P
	0.06/0.09	56	9	80	100	120	50	65	80
	0.12/0.18	63	11	95	115	140	60	75	90
	0.25/0.37	71	14	110	130	160	70	85	105
	0.55/0.75	80	19	130	165	200	80	100	120
	1.1/1.5/1.8	90	24	130	165	200	95	115	140
	2.2/3.0	100	28	180	215	250	110	130	160
	4	112	28	180	215	250	110	130	160
	5.5/7.5	132	38	230	265	300			
	11/15	165	42	250	300	350			

Torque Arm	Size	K ₁	G	KG	KH	R
	25	70	14	17.5	8	15
	30	85	14	24	8	15
	40	100	14	31.5	10	18
	50	100	14	38.5	10	18
	63	150	14	49	10	18
	75	200	25	47.5	20	30
	90	200	25	57.5	20	30
	110	250	30	62	25	35
	130	250	30	69	25	35
	150	250	30	84	25	35

Double Worm Shaft	Size	G	d	B	f	b	t
	30	45	9	20	-	3	10.2
	40	53	11	23	-	4	12.5
	50	64	14	30	M6	5	16
	63	75	19	40	M6	6	21.5
	75	90	24	50	M8	8	27
	90	108	24	50	M8	8	27
	110	135	28	60	M10	8	31
	130	155	30	80	M10	8	33
	150	175	35	80	M12	10	38

Output Shaft Dimensions:	Size	d	B	B ₁	G ₁	L	L ₁	f	b ₁	t ₁
	25	11	23	25.5	50	81	101	-	4	12.5
	30	14	30	32.5	63	102	128	M6	5	16
	40	18	40	43	78	128	164	M6	6	20.5
	50	25	50	53.5	92	153	199	M10	8	28
	63	25	50	53.5	112	173	219	M10	8	28
	75	28	60	63.5	120	192	247	M10	8	31
	90	35	80	84.5	140	234	309	M12	10	38
	110	42	80	84.5	155	249	324	M16	12	45
	130	45	80	85	170	265	340	M16	14	48.5
	150	50	82	87	200	297	374	M16	14	53.5

Performance Data of Single Stage FCN Series Worm Reducer

$$Y[\text{in-lb}]=8.85075 \times X[\text{Nm}]$$

入功率 input	型号 Size	Ratio i	Speed n ₂ (r/min)	Torque M ₂ (N.m)
0.06kw 4P n ₁ =1400/min	25	7.5	186.7	2.6
	30	7.5	186.7	2.6
	25	10	140	3.4
	30	10	140	3.4
	25	15	93.3	4.9
	30	15	93.3	4.7
	25	20	70	6.1
	30	20	70	6
	30	25	56	7
	25	30	46.7	8.2
	30	30	46.7	8
	25	40	35	10.2
	30	40	35	9.7
	25	50	28	11
	30	50	28	11.3
	40	50	28	12.7
	25	60	23.3	11
	30	60	23.3	12.5
	40	60	23.3	14.2
	30	80	17.5	12.5
	40	80	17.5	17
	40	100	14	19.2
0.09kw 4P n ₁ =1400/min	25	7.5	186.7	3.9
	30	7.5	186.7	3.9
	25	10	140	5.1
	30	10	140	5
	25	15	93.3	7.3
	30	15	93.3	7.1
	25	20	70	9.2
	30	20	70	9
	30	25	56	10.4
	25	30	46.7	12.3
	30	30	46.7	12
	25	40	35	13
	30	40	35	14.5
	30	50	28	16.9
	40	50	28	19
	30	60	23.3	16.9
	40	60	23.3	21.4
	40	80	17.5	25.5
	40	100	14	28.9
	30	7.5	186.7	5.2
0.12kw 4P n ₁ =1400/min	40	7.5	186.7	5.3
	30	10	140	6.7
	40	10	140	7
	30	15	93.3	9.5
	40	15	93.3	10.1
	30	20	70	12
	40	20	70	12.8
	30	25	56	13.9
	40	25	56	15.3
	30	30	46.7	16
	40	30	46.7	17.2
	30	40	35	17
	40	40	35	21.3
	50	40	35	21.9
	40	50	28	25.4
	50	50	28	25.8
	40	60	23.3	28.5
	50	60	23.3	29
	40	80	17.5	34.1
	50	80	17.5	34.7
	50	100	14	40.1

入功率 input	型号 Size	Ratio i	Speed n ₂ (r/min)	Torque M ₂ (N.m)
0.18kw 4P n ₁ =1400/min	30	7.5	186.7	8
	40	7.5	186.7	8
	30	10	140	8
	40	10	140	10
	30	15	93.3	10
	40	15	93.3	14
	30	20	70	15
	40	20	70	18
	30	25	56	19
	40	25	56	20
	40	30	46.7	23
	50	40	35	26
	40	40	35	32
	40	50	28	32
	50	50	28	38
	50	60	23.3	34
	50	80	17.5	53
	50	100	14	55
	40	7.5	186.7	11
	50	7.5	186.7	11
0.25kw 4P n ₁ =1400/min	40	10	140	14
	50	10	140	14
	40	15	93.3	20
	50	15	93.3	21
	40	20	70	26
	50	20	70	26
	40	25	56	31
	50	25	56	32
	40	30	46.7	36
	50	30	46.7	36
	40	40	35	44
	50	40	35	45
	50	50	28	53
	50	60	23.3	60
	50	80	17.5	65
	63	80	17.5	77
	63	100	14	85
	40	7.5	186.7	16
	50	7.5	186.7	16
0.37kw 4P n ₁ =1400/min	40	10	140	21
	50	10	140	21
	40	15	93.3	30
	50	15	93.3	31
	40	20	70	39
	50	20	70	39
	50	25	56	47
	50	30	46.7	54
	50	40	35	66
	63	40	35	70
	50	50	28	73
	63	50	28	83
	63	60	23.3	95
	63	80	17.5	114
	63	100	14	118
	40	7.5	186.7	24.5
	50	7.5	186.7	25
	40	10	140	32
	50	10	140	32
0.55kw 4P n ₁ =1400/min	50	15	93.3	46
	63	15	93.3	46
	50	20	70	59
	63	20	70	60
	63	25	56	72
	63	25	56	72

Performance Data of Single Stage FCN Series Worm Reducer

$$Y[in-lb]=8.85075 \times X[Nm]$$

入功率 input	型号 Size	Ratio i	Speed n ₂ (r/min)	Torque M ₂ (N.m)
0.55kw 4P n ₁ =1400/min	63	30	46.7	80
	63	40	35	104
	75	40	35	108
	63	50	28	123
	75	50	28	129
	75	60	23.3	146
	75	80	17.5	180
0.75kw 4P n ₁ =1400/min	75	100	14	180
	50	7.5	186.7	34
	63	7.5	186.7	33
	50	10	140	44
	63	10	140	44
	50	15	93.3	63
	63	15	93.3	63
	63	20	70	82
	63	25	56	99
	63	30	46.7	109
	75	30	46.7	116
	63	40	35	143
	75	40	35	147
	75	50	28	176
	90	50	28	184
	75	60	23.3	200
	90	60	23.3	212
	90	80	17.5	257
	90	100	14	270
1.1kw 4P n ₁ =1400/min	63	7.5	186.7	49
	75	7.5	186.7	49
	63	10	140	65
	75	10	140	66
	63	15	93.3	93
	75	15	93.3	95
	63	20	70	121
	75	20	70	122
	75	25	56	149
	75	30	46.7	170
	75	40	35	216
	90	40	35	225
	90	50	28	271
	90	60	23.3	311
	110	60	23.3	324
	110	80	17.5	410
	110	100	14	460
1.5kw 4P n ₁ =1400/min	75	7.5	186.7	67
	75	10	140	90
	75	15	93.3	130
	75	20	70	167
	75	25	56	200
	90	25	56	209
	75	30	46.7	230
	90	30	46.7	236
	90	40	35	306
	90	50	28	369
	110	50	28	375
	110	60	23.3	442
	110	80	17.5	490
2.2kw 4P n ₁ =1400/min	130	80	17.5	547
	130	100	14	652
	90	7.5	186.7	101
	110	7.5	186.7	101
	90	10	140	133
	110	15	93.3	133
	90	15	93.3	193
	110	15	93.3	193
	90	20	70	251
	110	20	70	256
	90	25	56	307

入功率 input	型号 Size	Ratio i	Speed n ₂ (r/min)	Torque M ₂ (N.m)
2.2kw 4P n ₁ =1400/min	110	25	56	316
	90	30	46.7	346
	110	30	46.7	355
	110	40	35	462
	110	50	28	550
	130	50	28	566
	150	50	28	570
	130	60	23.3	650
	150	60	23.3	657
	130	80	17.5	803
	150	80	17.5	816
	150	100	14	960
	110	7.5	186.7	138
3kw 4P n ₁ =1400/min	110	10	140	182
	110	15	93.3	163
	110	20	70	348
	110	25	56	430
	110	30	46.7	484
	110	40	35	631
	130	40	35	638
	130	50	28	767
	150	50	28	778
	130	60	23.3	884
	150	60	23.3	896
	150	80	17.5	1110
	110	7.5	186.7	184
4kw 4P n ₁ =1400/min	130	7.5	186.7	186
	110	10	140	243
	130	10	140	243
	110	15	93.3	352
	130	15	93.3	357
	110	20	70	464
	130	20	70	466
	110	25	56	573
	130	25	56	573
	110	30	46.7	646
	130	30	46.7	655
	130	40	35	850
	130	50	28	1023
5.5kw 4P n ₁ =1400/min	150	50	28	1037
	150	60	23.3	1195
	110	7.5	186.7	263
	130	7.5	186.7	256
	110	10	140	334
	130	10	140	334
	110	15	93.3	484
	130	15	93.3	490
	130	20	70	645
	150	20	70	645
	130	25	56	788
	150	25	56	788
	130	30	46.7	900
7.5kw 4P n ₁ =1400/min	150	30	46.7	934
	150	40	35	1171
	110	7.5	186.7	345
	130	7.5	186.7	349
	110	10	140	455
11kw 4P n ₁ =1400/min	130	10	140	455
	130	15	93.3	667
	150	20	70	880
	150	25	56	1074
	150	7.5	186.7	512
15kw 4P n ₁ =1400/min	150	10	140	675
	150	15	93.3	990
	150	7.5	186.7	698
	150	10	140	921

Performance Data of Two Stage FCEN Series (Worm-Worm) Reducer $Y_{[in-lb]}=8.85075 \times X[Nm]$

型号 Size	Ratio i	Input KW ₁	Speed n ₂ (r/min)	Torque M ₂ (N.m)	Ratio i ₁	Ratio i ₂
25/30	100	0.09	14.0	30	10	10
	150	0.06	9.3	28	7.5	20
	200	0.06	7.0	28	10	20
	250	0.06	5.6	35	10	25
	300	0.06	4.7	31	10	30
	400	0.06	3.5	28	20	20
	500	0.06	2.8	34	20	25
	600	0.06	2.3	31	20	30
	750	0.06	1.9	34	30	25
	900	0.06	1.6	31	30	30
	1200	0.06	1.2	28	30	40
	1500	0.06	0.9	26	30	50
	1800	0.06	0.8	31	60	30
	2400	0.06	0.6	28	60	40
	3000	0.06	0.5	26	60	50
25/40	300	0.06	4.7	59	10	30
	400	0.06	3.5	63	10	40
	500	0.06	2.8	57	10	50
	600	0.06	2.3	65	15	40
	750	0.06	1.9	60	15	50
	900	0.06	1.6	73	30	30
	1200	0.06	1.2	65	30	40
	1500	0.06	0.9	60	30	50
	1800	0.06	0.8	56	30	60
30/40	300	0.06	0.6	56	40	60
	3000	0.06	0.5	60	60	50
	300	0.09	4.7	70	10	30
	400	0.06	3.5	63	10	40
	500	0.06	2.8	57	20	25
	600	0.06	2.3	72	20	30
	750	0.06	1.9	72	25	30
	900	0.06	1.6	73	30	30
	1200	0.06	1.2	65	30	40
30/50	1500	0.06	0.9	73	50	30
	1800	0.06	0.8	73	60	30
	2400	0.06	0.6	65	60	40
	3200	0.06	0.4	65	80	40
	300	0.18	4.7	142	10	30
	400	0.12	3.5	127	10	40
	500	0.09	2.8	123	10	50
	600	0.09	2.3	143	20	30
	750	0.09	1.9	148	25	30
30/63	900	0.06	1.6	141	30	30
	1200	0.06	1.2	118	30	40
	1500	0.06	0.9	139	50	30
	1800	0.06	0.8	155	60	30
	2400	0.06	0.6	124	60	40
	3000	0.06	0.5	120	60	50
	300	0.22	4.7	210	7.5	40
	400	0.18	3.5	222	10	40
	500	0.18	2.8	205	10	50
30/63	600	0.12	2.3	208	15	40
	750	0.12	1.9	216	15	50
	900	0.09	1.6	200	15	60
	1200	0.09	1.2	236	30	40
	1500	0.06	0.9	204	30	50
	1800	0.06	0.8	202	30	60
	2400	0.06	0.6	220	60	40
	3000	0.06	0.5	223	60	50

型号 Size	Ratio i	Input KW ₁	Speed n ₂ (r/min)	Torque M ₂ (N.m)	Ratio i ₁	Ratio i ₂
40/75	300	0.37	4.7	405	10	30
	400	0.25	3.5	336	10	40
	500	0.25	2.8	307	10	50
	600	0.18	2.3	362	20	30
	750	0.18	1.9	391	25	30
	900	0.12	1.6	325	30	30
	1200	0.12	1.2	359	30	40
	1500	0.09	0.9	360	50	30
	1800	0.09	0.8	404	60	30
	2400	0.06	0.6	330	60	40
	3000	0.06	0.5	301	60	50
	300	0.37	4.7	402	7.5	40
40/90	400	0.37	3.5	523	10	40
	500	0.37	2.8	550	10	50
	600	0.37	2.3	605	15	40
	750	0.25	1.9	538	15	50
	900	0.25	1.6	533	15	60
	1200	0.18	1.2	629	30	40
	1500	0.18	0.9	588	30	50
	1800	0.12	0.8	492	30	60
	2400	0.12	0.6	625	60	40
	3000	0.09	0.5	548	60	50
	300	0.75	4.7	817	10	30
	400	0.75	3.5	1013	10	40
50/110	500	0.55	2.8	984	10	50
	600	0.55	2.3	1062	15	40
	750	0.55	1.9	1128	25	30
	900	0.37	1.6	1079	30	30
	1200	0.25	1.2	943	30	40
	1500	0.25	0.9	1064	50	30
	1800	0.25	0.8	1075	60	30
	2400	0.18	0.6	1001	60	40
	3000	0.12	0.5	884	60	50
	300	1.50	4.7	1789	10	30
	400	1.00	3.5	1519	10	40
	500	1.00	2.8	1629	10	50
63/130	600	0.75	2.3	1631	15	40
	750	0.75	1.9	1804	25	30
	900	0.75	1.6	1826	30	30
	1200	0.55	1.2	1705	30	40
	1500	0.37	0.9	1674	50	30
	1800	0.37	0.8	1698	60	30
	2400	0.25	0.6	1624	60	40
	3000	0.25	0.5	1548	60	50
	200	1.50	7.0	1317	10	20
	250	1.50	5.6	1602	10	25
	300	1.50	4.7	1860	10	30
	400	1.50	3.5	2208	10	40
63/150	500	1.10	2.8	1893	20	25
	600	1.10	2.3	2242	20	30
	750	0.75	1.9	1783	25	30
	900	0.75	1.6	1994	30	30
	1200	0.75	1.2	2680	30	40
	1500	0.75	0.9	2700	50	30
	1800	0.37	0.8	1775	60	30
	2400	0.37	0.6	2141	60	40
	3000	0.25	0.5	1713	60	50

Performance Data of Two Stage FCN Series (Worm-Gear) Reducer $Y[in-lb]=8.85075 \times X[Nm]$

型号		Ratio	Input	Speed	Torque	型号		Ratio	Input	Speed	Torque		
Size		I = (i1 x i2)	(kw)	n2(r/min)	M2(N.m)	Size		I = (i1 x i2)	(kw)	n2(r/min)	M2(N.m)		
40/63	75(3×25)	0.12	18.7	42	75/	71	190.2(3.17×60)	0.25	7.4	178			
		0.18		49				0.37		236			
	90(3×30)	0.12	15.6	45			253.6(3.17×80)	0.25	5.5	208			
		0.18		61					4.4	214			
	120(3×40)	0.12	11.7	50	90/	80	90(3×30)	0.55	15.6	235			
		0.18		52				0.75	320				
	150(3×50)	0.12	9.3	46			120(3×40)	0.55	11.7	291			
			7.8	40				0.75		397			
	180(3×60)		5.8	40			150(3×50)	0.55	9.3	347			
			4.7	36				0.75		426			
50/	63		75(3×25)	0.18			18.7	62	71	190.2(3.17×60)	0.37	7.4	278
	63	90(3×30)	0.18	15.6		69	71	253.6(3.17×80)	0.37	5.5	332		
												71	95.1(3.17×30)
	63	120(3×40)	0.18	11.7		85	90	72.6(2.42×30)	1.1	19.3	384		
									71		126.8(3.17×40)	0.25	11
	63	150(3×50)	0.12	9.3		66	90	96.8(2.42×40)		1.1			
			0.18		89	1.5			679				
		180(3×60)	0.12	7.8	74	80	120(3×40)	0.75	11.7	421			
			0.18		88			1.1		587			
		240(3×80)	0.12	5.8	78	90	121(2.42×50)	1.5	11.6	801			
			0.18		76			1.8		768			
	63/	71	79.3(3.17×25)	0.25	17.7	94	80	150(3×50)	0.75	9.3	496		
0.37				139		0.55			7.8		417		
95.1(3.17×30)			0.25	14.7	103	90	180(3×60)	0.75	7.2	648			
			0.37		153			1.1		503			
126.8(3.17×40)			0.25	11	129	80	240(3×80)	0.55	5.8	617			
			0.37		191			0.55		4.7	585		
63		150(3×50)	0.18	9.3	101	90	72.6(2.42×30)	1.1	19.3	390			
			0.25		148			1.5		531			
71		158.5(3.17×50)	0.37	8.8	176	80	96.8(2.42×40)	1.8	14.5	815			
			0.18		7.8			115		1.1	596		
71		190.2(3.17×60)	0.25	7.4	151	90	121(2.42×50)	1.5	11.6	813			
			0.12		90			1.8		976			
75/		63	240(3×80)	0.18	5.8	136	80	145.2(2.42×60)	1.1	9.6	673		
	0.12			90		1.5			917				
	71	253.6(3.17×80)	0.25	5.5	139	90	193.6(2.42×80)	1.1	7.2	826			
			0.18		121			1.5		1013			
	71	317(3.17×100)	0.25	4.4	128	80	240(3×80)	0.75	5.8	698			
			0.12		101			1.1		848			
	80	75(3×25)	0.55	18.7	201	90	300(3×100)	0.55	4.7	585			
			0.75		247			0.75		797			
	71	79.3(3.17×25)	0.37	17.7	143	80	242(2.42×100)	0.55	4.7	585			
			0.92		269			0.75		797			
	80	90(3×30)	0.55	15.6	225	90	300(3×100)	0.55	4.7	585			
			0.75		307			0.75		797			
	71	95.1(3.17×30)	0.37	14.7	160	80	242(2.42×100)	0.55	4.7	585			
0.55			278		0.75			797					
80	126.8(3.17×40)	0.37	11	198	90	300(3×100)	0.55	4.7	585				
		0.55		260			0.75		797				
71	158.5(3.17×50)	0.25	8.8	156	80	242(2.42×100)	0.55	4.7	585				
		0.37		231			0.75		797				