



NEMA RIGHT ANGLE WORM GEARBOX







Worm Gear Reducer

Mounting and Availability



Type & Expressions

XDRV	110	40	180TC	Foot Mount	B3	Protective Cover
Model	Size	Ratio	Input Size	Output Design	Mounting Position	Accessories
 XDRV Motor Input Flange	Aluminum Housing	7.5	48C	Shaft Mounted standard hollow output bore	B3	Torque Arm Accessories
	030	10	56C	Foot Mounted optional single or double plug-in output shaft	B6	Torque Arm
	040	15	140TC		B7	
	050	20	180TC	Flange Mounted optional F or FL mounting flange and hollow output bore	B8	Double Extension Single Shaft Double Shaft Output Flange
	063	25	210TC		V5	
	075	30	250TC		V6	
 XRV Input Shaft	Cast Iron Housing	40				
	110	50				
	130	60				
	150	80				
		100				

GEARBOX SIZE	NEMA Flange	Input Bore Diameter	Available Ratios											
			5	7.5	10	15	20	25	30	40	50	60	80	100
XDRV 030	48C	0.500	•	•	•	•	•	•	•	•	•	•	•	•
XDRV 040	56C	0.625	•	•	•	•	•	•	•	•	•	•	•	•
XDRV 050	56C	0.625	•	•	•	•	•	•	•	•	•	•	•	•
XDRV 063	56C	0.625					•	•	•	•	•	•	•	•
XDRV 075	140TC	0.875		•	•	•	•	•	•	•				
	56C	0.625									•	•	•	•
XDRV 090	140TC	0.875				•	•	•	•	•				
	180TC	1.125		•	•	•								
	56C	6.250										•	•	
XDRV 110	140TC	0.875									•	•	•	•
	180TC	1.125		•	•	•	•	•	•	•	•	•	•	•
	210TC	1.375		•	•	•	•							
XDRV 130	140TC	0.875											•	•
	180TC	1.125							•	•	•	•	•	
	210TC	1.375		•	•	•	•	•	•	•				
XDRV 150	180TC	1.125							•	•	•	•	•	•
	210TC	1.375				•	•	•	•	•				
	250TC	1.625		•	•	•	•							



Worm Gear Reducer Ratings

1750 RPM



Model	Ratio	RPM	Torque (in-lbs)	Max HP	OHL (lbs)
XDRV 030 XRV 030	7.5	233	159	0.69	129
	10	175	159	0.54	142
	15	117	159	0.38	163
	20	88	159	0.30	179
	25	70	186	0.30	193
	30	58	177	0.25	205
	40	44	159	0.19	225
	50	35	150	0.15	243
	60	29	142	0.13	259
80	22	115	0.09	284	

Model	Ratio	RPM	Torque (in-lbs)	Max HP	OHL (lbs)
XDRV 040 XRV 040	7.5	233	354	1.51	253
	10	175	354	1.16	279
	15	117	354	0.80	319
	20	88	345	0.61	350
	25	70	336	0.50	378
	30	58	398	0.53	403
	40	44	363	0.39	441
	50	35	345	0.31	476
	60	29	319	0.25	507
	80	22	292	0.19	556
100	18	257	0.15	595	

Model	Ratio	RPM	Torque (in-lbs)	Max HP	OHL (lbs)
XDRV 050 XRV 050	7.5	233	628	2.64	369
	10	175	637	2.06	406
	15	117	655	1.48	464
	20	88	646	1.14	510
	25	70	619	0.90	551
	30	58	743	0.96	586
	40	44	672	0.70	643
	50	35	646	0.57	694
	60	29	602	0.47	739
	80	22	575	0.38	810
100	18	487	0.28	866	

Model	Ratio	RPM	Torque (in-lbs)	Max HP	OHL (lbs)
XDRV 063 XRV 063	7.5	233	1133	4.77	463
	10	175	1150	3.67	510
	15	117	1239	2.76	583
	20	88	1194	2.05	641
	25	70	1150	1.64	692
	30	58	1416	1.77	736
	40	44	1283	1.27	807
	50	35	1194	1.01	871
	60	29	1150	0.86	928
	80	22	1079	0.66	1017
100	18	1044	0.57	1088	

Model	Ratio	RPM	Torque (in-lbs)	Max HP	OHL (lbs)
XDRV 075 XRV 075	7.5	233	1637	6.81	549
	10	175	1725	5.45	604
	15	117	1770	3.86	691
	20	88	1858	3.15	759
	25	70	1770	2.46	820
	30	58	2035	2.48	873
	40	44	1947	1.88	957
	50	35	1858	1.50	1033
	60	29	1770	1.26	1099
	80	22	1681	0.97	1205
100	18	1593	0.80	1289	

Model	Ratio	RPM	Torque (in-lbs)	Max HP	OHL (lbs)
XDRV 090 XRV 090	10	175	2743	8.56	694
	15	117	3185	6.86	794
	20	88	3141	5.19	873
	25	70	3008	4.08	942
	30	58	3628	4.31	1003
	40	44	3185	2.95	1100
	50	35	3008	2.32	1187
	60	29	2831	1.90	1264
	80	22	2522	1.39	1386
	100	18	2389	1.12	1482

Model	Ratio	RPM	Torque (in-lbs)	Max HP	OHL (lbs)
XDRV 110 XRV 110	7.5	233	4247	17.48	776
	10	175	4601	14.36	853
	15	117	5043	10.86	976
	20	88	4955	8.10	1073
	25	70	5220	6.90	1158
	30	58	5574	6.53	1233
	40	44	5397	4.81	1352
	50	35	5309	3.93	1459
	60	29	4955	3.19	1553
	80	22	4336	2.25	1703
100	18	4070	1.79	1821	

Model	Ratio	RPM	Torque (in-lbs)	Max HP	OHL (lbs)
XDRV 130 XRV 130	7.5	233	6636	27.01	1017
	10	175	7255	22.64	1119
	15	117	8140	17.33	1279
	20	88	8052	13.00	1407
	25	70	8229	10.88	1518
	30	58	9202	10.65	1616
	40	44	9290	8.27	1772
	50	35	8671	6.42	1913
	60	29	7963	5.12	2036
	80	22	7432	3.79	2233
100	18	6548	2.84	2387	

Model	Ratio	RPM	Torque (in-lbs)	Max HP	OHL (lbs)
XDRV 150 XRV 150	7.5	233	10618	43.22	1425
	10	175	10972	33.86	1588
	15	117	11060	23.27	1793
	20	88	11502	18.58	1971
	25	70	10618	14.04	2127
	30	58	10618	11.85	2265
	40	44	13715	12.21	2484
	50	35	12387	9.05	2680
	60	29	11149	7.07	2854
	80	22	10175	5.20	3129
100	18	8848	3.84	3346	



Worm Gear Reducer



Technical Data

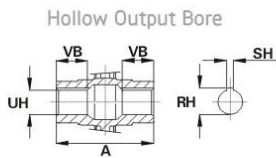
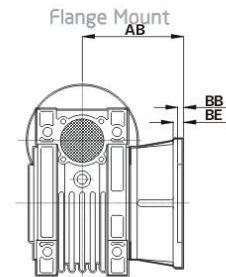
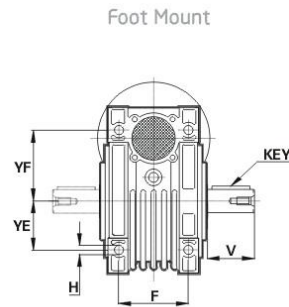
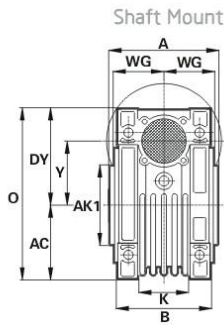
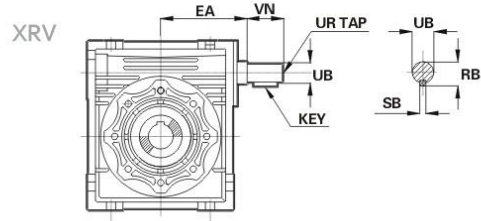
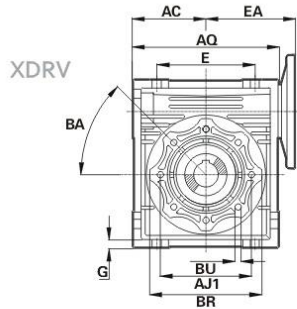
Input HP	Input RPM	Output RPM	Output Torque RPM	Service Factor	Ratio	Gearbox Size
0.16	1750	350	25	12.9	5	XDRV 40
		233	37	9.4	7.5	
		175	48	7.4	10	
		117	70	5.1	15	
		88	80	3.5	20	
		70	107	2.8	25	
		58	121	3.2	30	
		44	150	2.2	40	
		35	173	1.8	50	
		29	201	1.4	60	
		22	240	1.1	80	
		18	255	0.9	100	
0.26	1750	350	40	8.2	5	XDRV 50
		233	59	6	7.5	
		175	76	4.7	10	
		117	108	3.3	15	
		88	141	2.3	20	
		70	167	1.8	25	
		58	198	2.0	30	
		44	234	1.4	40	
		35	270	1.1	50	
		29	314	0.9	60	
		22	341	0.7	80	
		18	359	1.2	100	
0.33	1750	350	52	6.2	5	XDRV 40
		233	77	4.6	7.5	
		175	100	3.6	10	
		117	145	2.5	15	
		88	186	1.7	20	
		70	220	1.4	25	
		58	250	1.5	30	
		44	309	1.1	40	
		35	357	0.9	50	
		29	389	1.2	60	
		22	442	1.0	80	
		18	442	1.0	100	
0.5	1750	350	79	4.1	5	XDRV 50
		233	116	3.0	7.5	
		175	151	2.4	10	
		117	219	1.6	15	
		88	281	1.1	20	
		70	333	0.9	25	
		58	378	1	30	
		44	453	0.7	40	
		35	483	1.3	50	
		29	558	1.0	60	
		22	649	0.8	80	
		18	649	0.8	100	
0.75	1750	350	116	3.0	7.5	XDRV 40
		233	175	2.4	10	
		175	219	1.6	15	
		117	281	1.1	20	
		88	333	0.9	25	
		70	378	1	30	
		58	422	1.3	40	
		44	483	1.3	50	
		35	527	2.0	60	
		29	588	1.5	80	
		22	649	1.1	100	
		18	649	1.1	100	
1	1750	350	175	2.4	10	XDRV 50
		233	233	2.0	15	
		175	281	1.5	20	
		117	333	1.1	25	
		88	378	0.9	30	
		70	422	1.3	40	
		58	467	1.5	50	
		44	511	2.0	60	
		35	556	1.5	80	
		29	600	1.2	100	
		22	644	1.0	100	
		18	644	1.0	100	

Technical Data

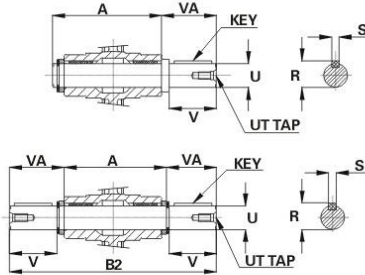
Input HP	Input RPM	Output RPM	Output Torque RPM	Service Factor	Ratio	Gearbox Size
1	1750	177	454	2.7	15	XDRV 63
		88	584	1.9	20	
		70	703	1.5	25	
		58	811	1.8	30	
		44	1009	1.1	40	
		35	1189	0.9	50	
		29	1427	2.2	25	
		22	1730	2.0	30	
		18	1998	1.8	40	
		15	2244	1.4	50	
		12	2427	1.2	60	
		10	2550	0.9	80	
2	1750	177	454	2.7	15	XDRV 75
		88	584	1.9	20	
		70	703	1.5	25	
		58	811	1.8	30	
		44	1009	1.1	40	
		35	1189	0.9	50	
		29	1427	2.2	25	
		22	1730	2.0	30	
		18	1998	1.8	40	
		15	2244	1.4	50	
		12	2427	1.2	60	
		10	2550	0.9	80	
3	1750	177	454	2.7	15	XDRV 90
		88	584	1.9	20	
		70	703	1.5	25	
		58	811	1.8	30	
		44	1009	1.1	40	
		35	1189	0.9	50	
		29	1427	2.2	25	
		22	1730	2.0	30	
		18	1998	1.8	40	
		15	2244	1.4	50	
		12	2427	1.2	60	
		10	2550	0.9	80	
5	1750	177	454	2.7	15	XDRV 110
		88	584	1.9	20	
		70	703	1.5	25	
		58	811	1.8	30	
		44	1009	1.1	40	
		35	1189	0.9	50	
		29	1427	2.2	25	
		22	1730	2.0	30	
		18	1998	1.8	40	
		15	2244	1.4	50	
		12	2427	1.2	60	
		10	2550	0.9	80	
7.5	1750	177	454	2.7	15	XDRV 83
		88	584	1.9	20	
		70	703	1.5	25	
		58	811	1.8	30	
		44	1009	1.1	40	
		35	1189	0.9	50	
		29	1427	2.2	25	
		22	1730	2.0	30	
		18	1998	1.8	40	
		15	2244	1.4	50	
		12	2427	1.2	60	
		10	2550	0.9	80	
10	1750	177	454	2.7	15	XDRV 110
		88	584	1.9	20	
		70	703	1.5	25	
		58	811	1.8	30	
		44	1009	1.1	40	
		35	1189	0.9	50	
		29	1427	2.2	25	
		22	1730	2.0	30	
		18	1998	1.8	40	
		15	2244	1.4	50	
		12	2427	1.2	60	
		10	2550	0.9	80	



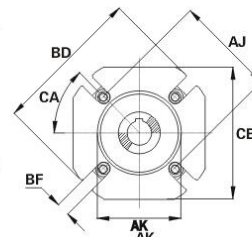
Worm Gear Reducer



Single & Double Output Shaft



Output Flange



	030	040	050	063	075	090	110	130	150
A	2.48	3.07	3.62	4.41	4.72	5.51	6.10	6.69	7.87
AB	2.15	2.64(3.82)	3.54(4.72)	3.23(4.41)	4.37	4.37	5.16	5.51	6.10
AC	1.57	1.97	2.36	2.83	3.39	4.06	5.02	5.81	6.69
AJ	2.68	2.95(3.43)	3.35(3.54)	5.91(5.91)	6.49	6.89	9.06	10.03	10.03
AJ1	2.56	2.95	3.35	3.74	4.53	5.12	6.50	8.46	8.46
AK	1.97 ⁰ _{-0.007}	2.36 ⁰ _{-0.007}	2.76 ⁰ _{-0.007}	4.53 ⁰ _{-0.009}	5.12 ⁰ _{-0.001}	5.98 ⁰ _{-0.001}	6.69 ⁰ _{-0.001}	7.09 ⁰ _{-0.001}	7.09 ⁰ _{-0.001}
AK1	2.17 ⁰ _{-0.0018}	2.36 ⁰ _{-0.0018}	2.76 ⁰ _{-0.0018}	3.15 ⁰ _{-0.0021}	3.74 ⁰ _{-0.0021}	4.33 ⁰ _{-0.0021}	5.12 ⁰ _{-0.0025}	7.09 ⁰ _{-0.0025}	7.09 ⁰ _{-0.0025}
AQ	3.15	3.94	4.72	5.67	6.77	8.11	9.94	11.52	13.39



Worm Gear Reducer

Dimensions



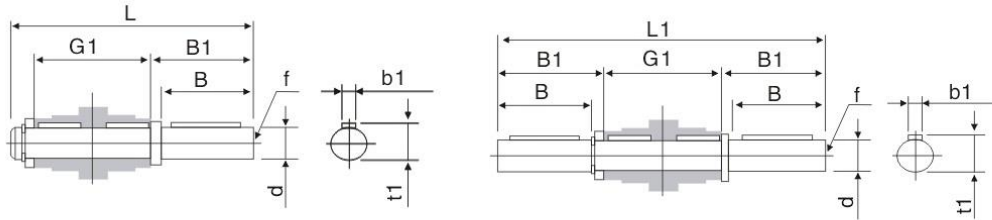
	030	040	050	063	075	090	110	130	150
B	2.20	2.80	3.35	4.06	4.41	5.12	5.67	6.10	7.28
B2	5.83	7.24	7.83	9.41	10.51	12.13	16.14	14.17	16.14
BA	0	45	45	45	45	45	45	45	45
BB	0.16	0.16	0.20	0.24	0.24	0.24	0.24	0.28	0.28
BD	3.15	4.33	4.92	7.09	7.87	8.27	11.02	12.60	12.60
BE	0.24	0.28	0.35	0.39	0.51	0.51	0.59	0.59	0.59
BF	.26 .4 pl.	.35 .4 pl.	.43 .4 pl.	.43 .4 pl.	.55 .4 pl.	.55 .4 pl.	.65 .8 pl.	.63 .8 pl.	.63 .8 pl.
BR	2.95	3.43	3.94	4.33	5.51	6.30	7.87	9.84	9.84
BU	M6 Tap 0.43 deep .4 pl.	M6 Tap 0.32 deep .4 pl.	M8 Tap 0.39 deep .4 pl.	M8 Tap 0.55 deep .8 pl.	M8 Tap 0.55 deep .8 pl.	M10 Tap 0.71 deep .8 pl.	M10 Tap 0.71 deep .8 pl.	M12 Tap 0.83 deep .8 pl.	M12 Tap 0.83 deep .8 pl.
CA	45°	45°	45°	45°	45°	45°	45°	22.5°	22.5°
CE	2.76	3.74	4.33	5.60	6.69	7.87	10.24	11.42	11.42
DY	2.24	2.81	3.31	4.02	4.69	5.32	6.59	7.38	9.06
E	2.13	2.76	3.15	3.94	4.72	5.51	6.69	7.87	9.45
EA	2.64	3.15	3.54	4.13	4.96	5.63	6.81	7.60	8.27
F	1.73	2.36	2.76	3.35	3.54	3.94	4.53	4.72	5.71
G	0.22	0.26	0.28	0.32	0.39	0.43	0.57	0.61	0.71
H	0.26	0.26	0.34	0.33	0.45	0.51	0.55	0.63	0.71
K	1.26	1.69	1.93	2.64	2.83	2.91	-	-	-
O	3.82	4.78	5.67	6.85	8.07	9.37	11.61	13.19	15.75
R	0.70	0.83	1.11	1.23	1.36	1.51	1.79	1.92	2.50
RB	0.42	0.55	0.70	0.83	0.96	0.96	1.24	1.36	1.38
RH	0.71	0.84	1.12	1.24	1.37	1.52	1.80	1.93	2.20
S	0.188	0.188	0.250	0.250	0.250	0.313	0.375	0.375	0.500
SB	0.094	0.125	0.188	0.188	0.188	0.188	0.250	0.250	0.313
SH	0.188	0.188	0.250	0.250	0.250	0.313	0.375	0.375	0.710
U	0.625 ^{±0.005}	0.750 ^{±0.005}	1.000 ^{±0.005}	1.125 ^{±0.005}	1.250 ^{±0.005}	1.375 ^{±0.005}	1.625 ^{±0.005}	1.750 ^{±0.005}	2.000 ^{±0.005}
UH	0.625 ^{±0.001}	0.750 ^{±0.001}	1.000 ^{±0.001}	1.125 ^{±0.001}	1.250 ^{±0.001}	1.375 ^{±0.001}	1.625 ^{±0.001}	1.750 ^{±0.001}	2.000 ^{±0.001}
UT	1/4-20	1/4-20	3/8-16	3/8-16	1/2-13	1/2-13	5/8-11	5/8-11	3/4-10
V	1.58	1.97	1.97	2.36	2.76	3.15	3.54	3.54	4.02
VA	1.67	2.09	2.11	2.50	2.89	3.33	4.13	3.74	4.57
VB	0.827	1.024	1.181	1.417	1.575	1.772	1.969	2.362	2.850
VN	1.18	1.18	1.58	1.97	2.36	2.36	2.76	3.15	3.15
WG	1.14	1.44	1.71	2.09	2.24	2.64	2.91	3.19	3.78
UB	0.375 ^{±0.005}	0.500 ^{±0.005}	0.625 ^{±0.005}	0.750 ^{±0.005}	0.875 ^{±0.005}	0.875 ^{±0.005}	1.125 ^{±0.005}	1.250 ^{±0.005}	1.375 ^{±0.005}
UR	-	1/4-20	1/4-20	1/4-20	1/4-20	1/4-20	3/8-16	1/2-13	1/2-13
Y	1.18	1.58	1.97	2.48	2.95	3.54	4.33	5.12	5.91
YE	1.06	1.38	1.58	1.97	2.36	2.76	3.35	3.94	4.72
YF	1.73	2.17	2.52	3.15	3.66	4.02	4.92	5.51	7.09
Input Key									
Length	0.875	0.875	1.125	1.500	1.875	1.875	2.250	2.500	2.875
Square	0.094	0.125	0.188	0.188	0.188	0.188	0.250	0.250	0.315
Output Key									
Length	1.125	1.500	1.500	1.875	2.250	2.500	0.750	2.750	3.563
Square	0.188	1.188	0.250	0.250	0.250	0.313	0.375	0.375	0.500
Weight (lbs)	3	5	8	4	20	29	77	106	185



Worm Gear Reducer Accessories

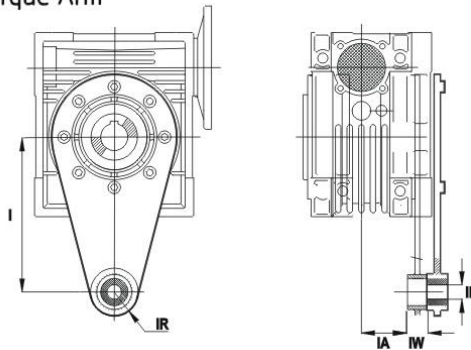


Output Shafts



Gearbox Size	Output Shaft.NEMA									
	Type	d	B	B1	G1	L	L1	f	b1	t1
XDRV40	Single	0.750	1.40	1.50	3.07	4.8	N/A	N/A	0.19	0.83
	Double	0.750	1.40	1.50	3.07	N/A	6.07	N/A	0.19	0.83
XDRV50	Single	1.000	1.90	2.00	3.62	5.87	N/A	N/A	0.25	1.11
	Double	1.000	1.90	2.00	3.62	N/A	7.64	N/A	0.25	1.11
XDRV63	Single	1.125	2.36	2.50	4.40	7.22	N/A	M8	0.31	1.26
	Double	1.125	2.36	2.50	4.40	N/A	9.41	M8	0.31	1.26
XDRV75	Single	1.125	2.76	2.90	4.72	7.93	N/A	M10	0.31	1.38
	Double	1.125	2.76	2.90	4.72	N/A	10.51	M10	0.31	1.38
XDRV90	Single	1.375	3.15	3.30	5.50	9.23	N/A	M12	0.38	1.53
	Double	1.375	3.15	3.30	5.50	N/A	12.17	M12	0.38	1.53
XDRV110	Single	1.625	3.54	3.70	6.10	10.22	N/A	N/A	0.44	1.81
	Double	1.625	3.54	3.70	6.09	N/A	13.54	N/A	0.44	1.81

Torque Arm



GEARBOX SIZE	I	IA	IL	IR	IW
030	3.35	0.94	0.31	0.59	0.55
040	3.94	1.24	0.39	0.71	0.55
050	3.94	1.52	0.39	0.71	0.55
063	5.91	1.93	0.39	0.71	0.55
075	7.87	1.87	0.79	1.18	0.98
090	7.87	2.26	0.79	1.18	0.98
110	9.84	2.44	0.98	1.38	1.18
130	9.84	2.72	0.98	1.38	1.18
150	9.84	3.31	0.98	1.38	1.18