



**Amarillo Gear Company**

**A Series Single Reduction Gearbox**

Model	HORSEPOWER RATING																
	20	25	30	35													
A20	20	25	30	35													
A22						47	53	60	70								
A27					40			60		75	80						
A32												160					
A34													180				
A36														200	220	230	250
A38																	250

**Single Reduction Gearbox**

Service Horsepower Ratings (Service Factor = 2.0)																					
Model	Input RPM	RATIO																			
		2.0	2.5	3.0	3.25	3.5	3.75	4.0	4.25	4.5	4.75	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5
65	1750	25	25	20	18	17		15		12		10									
	1450	21	21	17	15	14		12		10		8									
	1160	17	17	13	12	11		10		8		7									
85	1750	50	48	45	43	39	36	33	32	28	27	25	20	18	15	15					
	1450	41	40	37	36	32	30	27	26	23	22	21	17	15	12	12					
	1160	33	32	30	29	26	24	22	21	19	18	17	13	12	10	10					
110	1750					75	74	72	71	69	64	60	46	40	33	30	25	24			
	1450					62	61	60	59	57	53	50	38	33	27	25	21	20			
	1160					50	49	48	47	46	42	40	30	27	22	20	17	16			
135	1750					120	117	110	100	93	88	83	71	65	59	48	43	42	35	30	
	1450					99	97	91	83	77	73	69	59	54	49	40	36	35	29	25	
	1160					80	78	73	66	62	58	55	47	43	39	32	29	28	23	20	
155	1750							133	125	119	114	110	100	90	85	75	65	55	50	45	
	1450							110	104	99	94	91	83	75	70	62	54	46	41	37	
	1160							88	83	79	76	73	66	60	56	50	43	36	33	30	
175	1750									145	140	133	126	112	105	100	80	60	60	60	50
	1450									120	116	110	104	92	87	83	66	50	50	50	41
	1160									96	93	88	84	74	70	66	53	40	40	40	33

## Double Reduction Gearbox

Service Horsepower Ratings (Service Factor = 2.0)																					
Model	Input RPM	Ratio																			
		7.5	8	8.5	9	9.5	10	10.5	11	12	12.5	13	14	15	15.5	16	17	18	19	20	25
1008	1750	100	100	100	100	95	90	86	82	75		75	60	60							33
	1450	83	83	83	83	79	75	71	68	62		62	50	50							27
	1160	66	66	66	66	63	60	57	54	50		50	40	40							22
1110	1750	142	142	141	140	135	130	130	130	125		125	120	100	97	95	90				75
	1450	118	118	117	116	112	108	108	108	104		104	99	83	80	79	75				62
	1160	94	94	93	93	89	86	86	86	83		83	80	66	64	63	60				50
1311	1750		210	208	206	198	190	183	176	165		160	155	150	148	147	137	129	117	110	78
	1450		174	172	171	164	157	151	146	137		133	128	124	123	122	114	107	97	91	65
	1160		139	138	137	131	126	121	117	109		106	103	99	98	97	91	86	78	73	52
1712	1750		330	321	312	300	290	280	271	255	255	241	229	214	207	200	188	178	169	161	100
	1450		273	266	259	249	240	232	225	211	211	200	190	177	171	166	156	147	140	133	83
	1160		219	213	207	198	192	186	180	169	169	160	152	142	137	133	125	118	112	107	66
1712.5	1750						334	321	309	297		279	262	252	244	236	231	225	201	193	120
	1450						277	266	256	246		231	217	209	202	196	191	186	167	160	99
	1160						221	213	205	197		185	174	167	162	156	153	149	133	128	80
1713	1750							392	390	343		323	310	300	294	285	272	262	250	241	150
	1450							325	323	284		268	257	249	244	236	225	217	207	200	124
	1160							260	259	227		214	205	199	195	189	180	174	166	160	99
1814	1750									454		419	389	363	356	345	324	309	291	279	238
	1450									376		346	322	301	295	286	268	255	241	231	197
	1160									301		277	258	241	236	229	215	204	192	184	158
2016	1750											500	480	460	454	440	420	400	380	360	315
	1450											414	398	381	376	365	348	331	315	298	261
	1160											331	318	305	301	292	278	265	252	239	209

### Vertical Shaft Down Thrust Capacity (Pounds)

Model	Thrust	Model	Thrust
65	1500	1008	3800
85	1750	1110	5400
110	2650	1311	5950
135	2500	1311W	12000
155	4700	1712	8900
175	5150	1712W	13000
		1712.5	9250
		1712.5W	13500
		1713	10900
		1713W	16000
		1814	17000
		2016	17000

Thrust ratings vary greatly depending upon the transmitted power and the vertical shaft speed. The ratings in the EXACT RATIO table are the axial loads that can be applied to the fan shaft which will always result in a calculated bearing life greater than 100,000 hours L10. These ratings are based on the worse case from the power rating tables. All models can be supplied with larger thrust bearings or special bearing arrangements. Contact the factory when the fan loading conditions or the bearing life requirements cannot be satisfied with the ratings from the tables.

### Weights and Shipping Dimensions

Model	Domestic Shipping Weight (lbs)	Weight with Export Boxing (lbs)	Export Box Dimensions (L x W x H) (in)
65	100	135	22 x 14 x 21
85	215	245	27 x 15 x 27
110	350	395	29 x 19 x 34
135	530	550	36 x 23 x 34
155	705	855	40 x 27 x 41
175	855	940	40 x 27 x 41
1008	875	980	40 x 27 x 41
1110	1375	1485	48 x 28 x 41
1311	1690	1775	48 x 28 x 41
1311W	2025	2155	48 x 35 x 43
1712	2125	2230	50 x 30 x 44
1712W	2585	2725	50 x 36 x 48
1712.5	2400	2540	50 x 32 x 43
1712.5W	2860	3000	51 x 39 x 45
1713	2745	2995	55 x 41 x 45
1713W	3325	3575	55 x 47 x 47
1814	4270	4530	65 x 50 x 51
2016	6690	6970	70 x 46 x 55

### Exact Ratio

Model	RATIO																			
	2.0	2.5	3.0	3.25	3.5	3.75	4.0	4.25	4.5	4.75	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5
65	2.00	2.47	2.94	3.27	3.54		3.92		4.55		4.90									
85	2.05	2.56	3.00	3.23	3.50	3.75	4.00	4.27	4.55	4.70	5.00	5.56	6.00	6.56	7.00					
110					3.46	3.77	4.00	4.25	4.45	4.73	5.00	5.50	6.00	6.56	7.00	7.50	8.00			
135					3.50	3.72	4.00	4.25	4.50	4.73	5.00	5.50	6.00	6.56	7.00	7.50	8.00	8.57	9.00	
155							4.00	4.21	4.54	4.77	5.08	5.58	6.00	6.56	7.11	7.50	8.00	8.50	9.00	
175									4.54	4.71	5.08	5.58	6.09	6.60	7.10	7.56	8.13	8.50	9.14	9.57

Model	RATIO									
	7.5	8	8.5	9	9.5	10	10.5	11	12	
1008	7.53	7.97	8.72	8.96	9.64	9.90	10.43	11.08	11.94	
1110	7.50	7.96	8.52	8.96	9.35	10.19	10.50	11.05	11.96	
1311		8.00	8.72	9.04	9.45	9.90	10.46	11.14	12.16	
1712		8.16	8.50	9.04	9.45	9.90	10.60	11.16	12.20	
1712.5						10.05	10.58	11.18	11.85	
1713							10.53	11.20	12.27	
1814									12.06	
2016										

Model	RATIO										
	12.5	13	14	15	15.5	16	17	18	19	20	25
1008		12.93	13.93	14.86						19.81	
1110		12.94	14.06	15.00	15.58	16.07	16.92			20.00	
1311		12.93	13.93	14.86	15.79	16.18	17.33	18.04	18.67	19.81	24.76
1712	12.50	12.94	14.00	15.00	15.50	16.25	16.86	18.15	18.86	20.31	25.20
1712.5		12.97	13.98	14.69	15.40	15.98	17.21	17.88	19.25	19.83	24.82
1713		13.13	13.82	15.11	15.48	16.03	17.34	18.27	18.58	20.13	25.15
1814		13.15	14.21	15.23	15.50	16.07	16.88	18.24	18.82	20.02	25.04
2016		13.04	13.86	15.25	15.50	16.05	16.84	17.94	18.67	20.00	25.00