

MITER GEARS

STEEL & IRON — STRAIGHT TOOTH
1:1 RATIO

L-Series—Unhardened Steel
 HLK Series—Hardened Steel (Teeth only)
 OA Series—Cast Iron

APPROXIMATE HP & TORQUE* RATINGS FOR CLASS I SERVICE (Service Factor = 1.0)

Catalog Number	Pitch	50 RPM		100 RPM		200 RPM		300 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
		HP	Torque	HP	Torque	HP	Torque	HP	Torque	HP	Torque	HP	Torque	HP	Torque	HP	Torque
L110Y L111Y	16	.02 .03	24.7 37.1	.03 .05	18.5 30.9	.06 .10	18.5 30.9	.09 .13	18.5 26.8	.15 .24	15.4 24.7	.21 .32	14.4 22.0	.26 .38	13.4 19.6	.33 .48	11.3 16.5
L101Y L125Y L126Y	12	.03	37.1	.06	37.1	.12	37.1	.17	35.0	.29	29.9	.40	27.5	.47	24.2	.59	20.2
HLK110Y L112Y	16	.04	49.4	.06 .07	37.1 43.2	.12 .14	37.1 43.2	.18 .20	37.1 41.2	.30 .30	30.9 30.9	.42 .44	28.8 30.2	.52 .52	26.8 26.8	.66 .64	22.6 22.0
L102Y L127Y	12	.05	61.8	.09	55.6	.18	55.6	.25	51.5	.42	43.2	.56	38.4	.66	34.0	.81	27.8
L119Y L120Y L121Y L133Y	12	.07	86.5	.14	86.5	.25	77.2	.35	72.1	.60	61.8	.77	52.8	.90	46.3	1.1	37.7
HLK101Y L113Y HLK102Y	12	.06 .09 .10	74.1 111 124	.12 .17 .18	74.1 105 111	.24 .33 .36	74.1 102 111	.34 .45 .50	70.0 92.6 103	.58 .75 .84	59.7 77.2 86.5	.96 .96 1.1	65.9 65.9 75.5	1.1 1.1 1.3	56.6 56.6 66.9	1.3 1.3 1.6	44.6 44.6 54.9
L103Y L128Y L129Y	10	.11	136	.20	124	.37	114	.52	107	.87	89.6	1.1	75.5	1.3	66.9	1.5	51.5
L114Y HLK121Y	12	.15 .14	185 173	.29 .28	179 173	.52 .50	161 154	.71 .70	146 144	1.1 1.2	113 124	1.4 1.5	96.1 103	1.6 1.8	82.4 92.6	1.9 2.2	65.2 75.5
L130Y L104Y L131Y	10	.18	222	.33	204	.61	188	.83	171	1.3	134	1.6	110	1.7	87.5	2.2	75.5
HLK103Y HLK129Y	10	.20	247	.40	247	.74	229	1.0	206	1.7	175	2.2	151	2.6	134	3.1	106
OA828Y-1	8	.28	346	.53	327	.93	287	1.2	247	1.9	196	2.3	158	—	—	—	—
L105Y-A L115Y L116Y	8	.30	371	.56	346	1.0	309	1.4	288	2.1	216	2.6	178	3.0	154	3.4	116
HLK114Y	12	.29	358	.58	358	1.0	309	1.4	288	2.3	237	2.8	192	3.2	165	3.9	133
OA832Y-1	8	.37	457	.68	420	1.2	371	1.6	329	2.4	247	2.8	192	—	—	—	—
HLK104Y HLK130Y HLK131Y	10	.33	408	.66	408	1.2	371	1.7	350	2.6	268	3.3	226	3.8	196	4.5	154

Ratings are based on strength calculation. Basic Static Strength Rating, or for hand operation of above gears is approximately 3 times the 100 RPM rating.

NOTE: Ratings to right of heavy line are not recommended, as pitch line velocity exceeds 1000 feet per minute. Use for interpolation purposes only.

*Torque (Lb. Ins.) Output Rating

HP (Input)

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Catalog Number	Pitch	50 RPM		100 RPM		200 RPM		300 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
		HP	Torque	HP	Torque	HP	Torque	HP	Torque	HP	Torque	HP	Torque	HP	Torque	HP	Torque
L106Y L117Y L132Y	8	.42	519	.79	488	1.4	432	1.9	391	2.8	288	3.4	233	3.8	196	—	—
OA624Y	6	.46	568	.87	537	1.5	463	2.0	412	3.0	309	3.5	240	—	—	—	—
L123Y	8	.55	679	1.0	618	1.8	556	2.4	494	3.5	360	4.2	288	4.6	237	—	—
HLK105YA HLK115Y HLK116Y	8	.55	679	1.1	679	2.0	618	2.7	556	4.3	443	5.3	364	5.9	304	6.9	237
L107Y L118Y	6	.69	852	1.3	803	2.2	679	3.0	618	4.5	463	5.3	364	5.8	299	—	—
OA630Y-1	6	.82	1013	1.5	926	2.5	772	3.2	659	4.7	484	—	—	—	—	—	—
OA525Y	5	.90	1112	1.6	988	2.7	834	3.5	721	5.1	525	—	—	—	—	—	—
L134Y L135Y	6	.90	1112	1.6	988	2.8	865	3.7	762	5.4	556	6.4	439	7.0	360	—	—
HLK106Y HLK117Y HLK132Y	8	.80	988	1.6	988	2.8	865	3.7	762	5.7	587	6.8	467	7.6	391	—	—
OA636Y-1	6	1.1	1359	1.9	1174	3.2	988	4.1	844	5.8	597	—	—	—	—	—	—
HLK123Y	8	1.0	1235	2.0	1235	3.6	1112	4.7	968	7.0	721	8.4	576	9.2	474	—	—
L108Y L122Y L136Y	5	1.3	1606	2.4	1482	4.1	1266	5.3	1091	7.6	782	9.0	618	—	—	—	—
HLK107Y HLK118Y	6	1.3	1606	2.6	1606	4.5	1390	6.0	1235	8.0	824	11.0	755	12.0	618	—	—
OA424Y	4	1.6	1976	2.8	1729	4.6	1421	5.9	1215	8.2	844	—	—	—	—	—	—
OA540Y-1	5	2.0	2471	3.5	2162	5.6	1729	7.0	1441	—	—	—	—	—	—	—	—
L109Y L137Y	4	2.3	2841	4.2	2594	7.0	2162	8.7	1791	12.4	1276	14.3	981	—	—	—	—
L138Y	4	3.0	3706	5.3	3274	8.6	2656	10.8	2224	14.6	1503	16.6	1139	—	—	—	—
HLK108Y HLK122Y	5	2.4	2965	4.9	3026	8.2	2532	10.0	2059	15.0	1544	18.0	1235	—	—	—	—
HLK109Y	4	4.2	5188	8.3	5126	14.0	4324	17.0	3500	25.0	2574	28.0	1922	—	—	—	—

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