

STEEL SPIRAL MITER & BEVEL GEARS

STEEL SPIRAL MITER GEARS

1:1 RATIO

LSA-Series—Unhardened Steel

HLSK Series—Hardened Steel (Teeth Only)

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
LSA110Y	18	.01	12.4	.02	12.4	.04	12.4	.07	14.4	.14	14.4	.20	13.7	.25	12.9	.35	12.0
LSA101Y	12	.02	24.7	.04	24.7	.08	24.7	.13	26.8	.25	25.7	.35	24.0	.45	23.2	.62	21.3
LSA102Y	12	.03	37.1	.07	43.2	.13	40.1	.20	41.2	.38	39.1	.54	37.1	.63	32.4	.95	32.6
HLSK110Y	18	.03	37.1	.07	43.2	.14	43.2	.21	43.2	.42	43.2	.59	40.5	.76	39.1	1.0	34.3
HLSK101Y	12	.06	74.1	.13	80.3	.26	80.3	.39	80.3	.75	77.2	1.0	68.6	1.3	66.9	1.8	61.8
LSA103Y	10	.07	86.5	.15	92.6	.30	92.6	.44	90.6	.80	82.4	1.1	75.5	1.4	72.1	2.0	68.6
HLSK102Y	12	.10	124	.21	130	.41	127	.61	126	1.0	103	1.6	110	2.0	103	2.8	96.1
LSA104Y	10	.15	185	.30	185	.57	176	.83	171	1.5	154	2.0	137	2.6	134	3.6	124
LSA105YA	7	.22	272	.44	272	.84	259	1.2	247	2.2	226	3.0	206	3.8	196	5.1	175
HLSK103Y	10	.23	284	.46	284	.89	275	1.3	268	2.4	247	3.4	233	4.3	221	5.9	202
LSA106Y	8	.34	420	.69	426	1.3	401	1.8	371	3.3	340	4.5	309	5.7	293	7.8	268
LSA107Y	6	.46	568	.90	556	1.7	525	2.4	494	4.3	443	5.9	405	7.4	381	10.0	343
LSA118Y	6	.46	568	.90	556	1.7	525	2.4	494	4.3	443	5.9	405	7.4	381	10.0	343
HLSK104Y	10	.45	556	.90	556	1.7	525	2.5	515	4.5	463	6.1	419	7.9	407	11.1	381
HLSK105YA	7	.67	828	1.3	803	2.5	772	3.6	741	6.5	669	9.0	618	11.0	566	15.0	515
LSA122Y	5	.83	1025	1.6	988	3.0	926	4.3	885	7.5	772	10.0	686	12.0	618	17.0	583
HLSK106Y	8	1.0	1235	2.0	1235	3.9	1204	5.6	1153	10.0	1029	13.0	892	17.0	875	23.0	789
HLSK107Y	6	1.3	1606	2.7	1668	5.1	1575	7.3	1503	13.0	1338	17.0	1167	22.0	1132	33.0	1132
HLSK118Y	6	1.3	1606	2.7	1668	5.1	1575	7.3	1503	13.0	1338	17.0	1167	22.0	1132	33.0	1132
HLSK122Y	5	2.4	2965	4.9	3026	9.1	2810	13.1	2697	23.01	2378	30.0	2059	38.0	1956	51.0	1750

STEEL SPIRAL BEVEL GEARS**

2:1 RATIO

SS-Series—Unhardened Steel

SH Series—Hardened Steel (Teeth Only)

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
SS302	30	.002	4.9	.004	4.9	.008	4.9	.013	5.4	.025	5.1	.037	5.1	.05	5.1	.07	4.8
SH302	30	.005	12.4	.01	12.4	.02	12.4	.03	12.4	.06	12.4	.09	12.4	.12	12.4	.18	12.4
SS192	19	.01	24.7	.02	24.7	.04	24.7	.06	24.7	.12	24.7	.18	24.7	.24	24.7	.35	24.0
SS142	14	.02	49.4	.05	61.8	.09	55.6	.14	57.6	.26	53.5	.39	53.5	.51	52.5	.76	52.2
SH192	19	.03	74.1	.05	61.8	.10	61.8	.16	65.9	.31	63.8	.46	63.1	.60	61.8	.88	60.4
SS142-1	14	.04	98.8	.08	98.8	.16	98.8	.23	94.7	.45	92.6	.67	92.0	.88	90.6	1.3	89.2
SH142	14	.06	148	.12	148	.23	142	.34	140	.66	136	.98	135	1.3	134	1.9	130
SH142-1	14	.10	247	.20	247	.39	241	.58	239	1.1	226	1.7	233	2.2	226	3.2	220
SS102	10	.14	346	.27	334	.52	321	.78	321	1.5	309	2.2	302	2.9	299	4.3	295
SS82	8	.26	642	.50	618	.99	611	1.5	618	2.8	576	4.2	576	5.5	566	8.0	549
SH102	10	.34	840	.67	828	1.3	803	2.0	824	3.8	782	5.6	769	7.3	751	10.7	734
SH82	8	.64	1581	1.3	1606	2.5	1544	3.7	1524	7.1	1462	10.5	1441	13.7	1410	20.0	1373

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.

*Torque (Lb. Ins.) Output Rating

HP (Input)

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

**Ratings reflect Gear and Pinion sets.

†Pinion RPM