

MITER GEARS

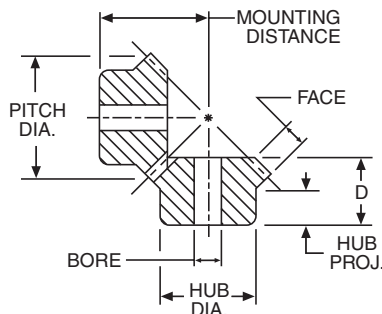
48 THROUGH 20 DIAMETRAL PITCH

1:1 RATIO 20° PRESSURE ANGLE

NYLON, BRASS, STAINLESS STEEL AND STEEL—UNHARDENED



All gears have "Coniflex"® tooth form, except as noted.



REFERENCE PAGES

Alterations — 149
Lubrication — 149
Materials — 150

STANDARD TOLERANCES*

DIMENSION	TOLERANCE
BORE	All ±.0005

*Brass and Steel only.

ALL DIMENSIONS IN INCHES
ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Face	Bore	MD *	D	Hub		Catalog Number	Item Code	Catalog Number	Item Code	Catalog Number	Item Code	Catalog Number	Item Code
						Dia.	Proj.								
48 DIAMETRAL PITCH															
MOLDED NYLON								BRASS				STAINLESS STEEL		STEEL UNHARDENED	
15	.312	.07	.125	.312	.215	.25	.13	GP4815†‡	54096	G460Y†	12126	GSS460Y†	49984	—	—
18	.375	.08	.125	.406	.286	.33 .31	.19 .16	GP4818Y†	54097	— G461Y†	— 12128	— GSS461Y†	— 49985	— L94Y†	— 12140
24	.500	.08	.1875	.531	.375	.38	.25	GP4824Y†	54098	—	—	—	—	—	—
32 DIAMETRAL PITCH															
16	.500	.12	.1875	.500	.349	.41	.19	GP3216Y†	54099	G462Y†	12114	GSS462Y†	49986	L97Y†	12146
24	.750	.14	.1875	.688	.406 .427	.50 .50	.19 .25	GP3224Y†	54100	— G463Y†	— 12116	— GSS463Y†	— 49987	— L95Y†	— 12142
30 DIAMETRAL PITCH															
15	.500	.12	.1875	.500	.349	.41	.19	—	—	—	—	—	—	L93Y	12138
24 DIAMETRAL PITCH															
24	1.000	.20	.250	.906	.567	.62	.19 .28	GP2424Y†	54101	— G464Y	— 12100	— —	— —	— L96Y	— 12144
30	1.250	.23	.250	1.031	.590	.62	.31	GP2430Y†	54102	G465Y	12102	—	—	—	—
36	1.500	.23	.3125	1.188	.620	.69	.31	GP2436Y†	54103	G466Y	12104	—	—	—	—
20 DIAMETRAL PITCH															
12	.600	.13	.250	.672	.489	.50	.31	—	—	—	—	—	—	L98Y	12148

*Mounting Distance (MD) must not be made less than dimension shown, see Page 144.

†Not "Coniflex" tooth form. Can be furnished with "Coniflex" tooth on special order.

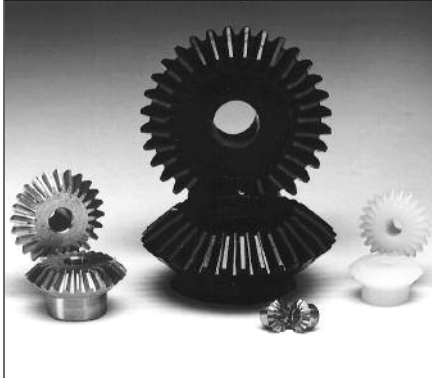
‡Acetal.

MITER GEARS

16 THROUGH 10 DIAMETRAL PITCH

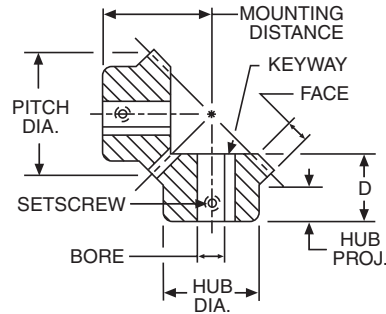
1:1 RATIO 20° PRESSURE ANGLE

NYLON AND STEEL—UNHARDENED AND HARDENED



All gears have “Coniflex”[®] tooth form, except as noted.

All hardened steel gears have teeth only hardened, except as noted, and are equipped with standard keyways and setscrews



REFERENCE PAGES

- Alterations — 149
- Horsepower Ratings — 68, 69
- Lubrication — 149
- Materials — 150
- Selection Procedure — 67

STANDARD TOLERANCES*

DIMENSION	TOLERANCE	
BORE	All	±.0005

*Steel only.

ALL DIMENSIONS IN INCHES
ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Face	Bore	MD *	D	Hub		Catalog Number	Item Code	Catalog Number	Item Code	Catalog Number	Item Code
						Dia.	Proj.						
16 DIAMETRAL PITCH													
MOLDED NYLON													
STEEL UNHARDENED													
STEEL HARDENED													
12	.750	.16	.3125	.812	.583	.62	.38	—	—	L99Y	12150	—	—
16	1.000	.23	.375	1.062	.755	.75	.44	GP1616Y†	54104	L110Y	12174	HLK110Y**	12326
20	1.250	.28	.4375	1.250	.849	1.00	.50	—	—	L111Y	12176	—	—
24	1.500	.32	.500	1.375	.880	1.00	.50	—	—	L112Y	12156	—	—
32	2.000	.39	.500	1.562	.875	1.25	.38	GP1632Y†‡	54105	—	—	—	—
14 DIAMETRAL PITCH													
14	1.000	.20	.375 .4375	1.062	.739	.88	.50	—	—	L124Y L100Y	12202 12152	—	—
12 DIAMETRAL PITCH													
15	1.250	.29	.375 .4375 .500	1.250	.864	1.00	.50	—	—	L125Y L126Y L101Y	12204 12206 12154	—	—
18	1.500	.33	.500 .625	1.500	1.021	1.25	.63	—	—	L127Y L102Y	12208 12158	HLK102Y	12330
21	1.750	.40	.500 .5625 .625 .750	1.750	1.192	1.38	.69	—	—	L119Y L120Y L121Y L133Y	12190 12192 12194 12218	HLK121Y	12334
24	2.000	.44	.500	1.875	1.224	1.31	.69	—	—	L113Y	12178	—	—
30	2.500	.55	.625	2.312	1.489	1.62	.84	—	—	L114Y	12180	HLK114Y	12332
10 DIAMETRAL PITCH													
20	2.000	.45	.500 .625 .750	2.000	1.364	1.62	.81	—	—	L128Y L129Y L103Y	12210 12212 12160	HLK129Y HLK103Y	12348 12344
25	2.500	.56	.750 .875 1.000	2.438	1.630	2.00	.94	—	—	L130Y L104Y L131Y	12214 12162 12216	HLK130Y HLK104Y HLK131Y	12350 12346 12352

*Mounting Distance (MD) must not be made less than dimension shown, see Page 144.

†Not “Coniflex” tooth form.

**Hardened all over.

‡Nylon (Mineral Filled).

MITER GEARS

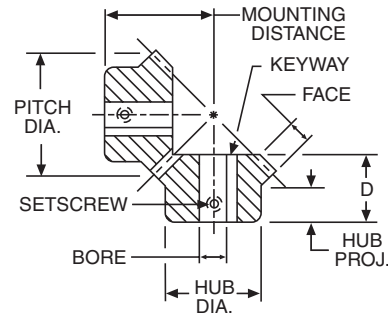
8 THROUGH 4 DIAMETRAL PITCH

1:1 RATIO 20° PRESSURE ANGLE

STEEL—UNHARDENED AND HARDENED AND CAST IRON



All gears have “Coniflex”[®] tooth form, except as noted. All hardened steel gears have teeth only hardened, except as noted, and are equipped with standard keyways and setscrews. All unhardened steel gears have no keyway and no setscrew.



REFERENCE PAGES

Alterations — 149
 Horsepower Ratings — 68, 69
 Lubrication — 149
 Materials — 150
 Selection Procedure — 67

STANDARD TOLERANCES

DIMENSION		TOLERANCE
BORE	All	±.0005

ALL DIMENSIONS IN INCHES
 ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Face	Bore	MD *	D	Hub		Catalog Number	Item Code	Catalog Number	Item Code	Catalog Number	Item Code
						Dia.	Proj.						
8 DIAMETRAL PITCH													
						STEEL UNHARDENED				STEEL HARDENED		CAST IRON	
24	3.000	.66	.750	2.562	1.583	1.75	.81	L115Y	12182	HLK115Y	12366	—	—
		.68	1.000 1.250	2.750	1.786	2.50	1.00	L105Y-A L116Y	12164 12184	HLK105YA HLK116Y	12362 12368	—	—
28	3.500	.77	1.000 1.1875 1.250	3.250	2.099	2.50	1.25	L117Y L132Y L106Y	12186 12196 12166	HLK117Y HLK132Y HLK106Y	12370 12374 12364	—	—
		.77	.875	2.875	1.724	2.00	.88	—	—	—	—	OA828Y-1	12418
32	4.000	.85	1.000	3.625	2.286	3.00	1.13	L123Y	12200	HLK123Y	12372	—	—
		.85	.875	3.438	2.098	2.25	1.12	—	—	—	—	OA832Y-1	12420
6 DIAMETRAL PITCH													
24	4.000	.87	1.250 1.500	3.625	2.317	3.00	1.31	L118Y L107Y	12188 12168	HLK118Y HLK107Y	12386 12384	OA624Y†	12412
27	4.500	.96	1.250 1.500	4.125	2.630	3.25	1.50	L134Y L135Y	12220 12222	—	—	—	—
30	5.000	1.16	1.000	4.250	2.640	2.50	1.38	—	—	—	—	OA630Y-1	12414
36	6.000	1.28	1.125	4.625	2.605	2.88	1.19	—	—	—	—	OA636Y-1	12416
5 DIAMETRAL PITCH													
25	5.000	1.12	1.375 1.500 1.750	4.625	3.005	3.50	1.75	L122Y L136Y L108Y	12198 12224 12170	HLK122Y — HLK108Y	12398 — 12396	— OA525Y	— 12408
40	8.000	1.50	1.375	5.500	2.660	3.75	1.00	—	—	—	—	OA540Y-1	12410
4 DIAMETRAL PITCH													
24	6.000	1.35	1.500 1.750	5.500	3.567	4.00	1.94	L137Y L109Y	12226 12172	— HLK109Y	— 12404	— OA424Y**	— 12406
28	7.000	1.43	2.000	6.000	3.630	5.00	1.94	L138Y	12228	—	—	—	—

*Mounting Distance (MD) must not be made less than dimension shown, see Page 144.

†Hub Dia. — 2.750"

**Hub Proj. — 2.000"