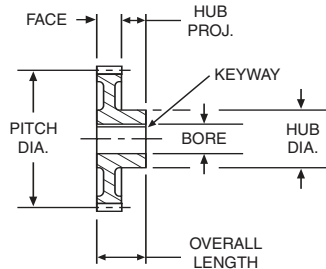
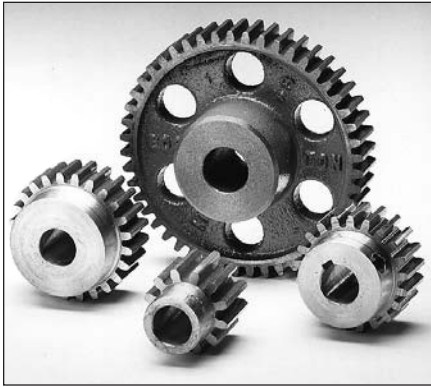


SPUR GEARS

16 AND 12 DIAMETRAL PITCH STEEL AND CAST IRON

20° PRESSURE ANGLE
(Will not operate with 14½° spurs)

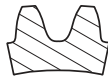


STANDARD TOLERANCES

DIMENSION		TOLERANCE
BORE	All	±.0005
HUB DIA.	All	±1/32



16 D.P.



12 D.P.

REFERENCE PAGES

Alterations — 151
Horsepower Ratings — 46, 47
Lubrication — 151
Materials — 152
Selection Procedure — 37

†3/8" bore have one setscrew.
No keyway.

YB15-1/2 and larger have standard
keyway at 90° to setscrew.
See page 152.

*YD12-1/2 has one setscrew.
No keyway.

‡YD13-5/8 has one setscrew.
No keyway.

YD14-5/8 bore and larger have standard
keyway at 90° to setscrew.

ALL DIMENSIONS IN INCHES
ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Hub		Style See Page 152	Without Keyway or Setscrew		With Keyway and Setscrew†			
			Dia.	Proj.		Catalog Number	Item Code	Catalog Number	Item Code		
16 DIAMETRAL PITCH						Face = .750" Outside Dia. = Pitch Dia. + .125" Overall Length = .750" + Hub Proj.					
STEEL											
12 14	.750 .875	.375	.56 .69	.50	A	YB12 YB14	09916 09918	YB12-3/8 YB14-3/8	46141 46142		
15	.938	.375 .500	.75	.50		YB15 —	09920 —	YB15-3/8 YB15-1/2	45991 46143		
16 18	1.000 1.125	.500	.81 .94	.50		YB16 YB18	09922 09924	YB16-1/2 YB18-1/2	46144 46145		
20	1.250	.625	1.05	.50		YB20	09926	YB20-5/8	46146		
24	1.500	.625 .750	1.20	.50		YB24 —	09928 —	YB24-5/8 YB24-3/4	46147 46148		
28	1.750	.625 .750	1.45	.50		YB28 —	09930 —	YB28-5/8 YB28-3/4	46149 46150		
30	1.875	.625 .750 .875	1.58	.50		YB30 — —	09932 — —	YB30-5/8 YB30-3/4 YB30-7/8	46151 46152 46153		
32	2.000	.625 .750 .875 1.000	1.70	.50		YB32 — — —	09934 — — —	YB32-5/8 YB32-3/4 YB32-7/8 YB32-1	46154 46155 46156 46157		
36 40 48 56 60	2.250 2.500 3.000 3.500 3.750	.625	1.95 2.20 2.00 2.50 2.75	.50 .62		YB36 YB40 YB48A YB56A YB60A	09936 09938 10572 10574 10576	— — — — —	— — — — —		
64 72 80	4.000 4.500 5.000		.750	2.88 3.38 3.88		.75	YB64A YB72A YB80A	10578 10580 10582	— — —	— — —	
CAST IRON											
96 128 144	6.000 8.000 9.000		.750	1.75 2.00 2.00		.75	D	YB96 YB128 YB144	10584 10588 10590	— — —	— — —
160 192	10.000 12.000			.875				2.00 1.00	YB160 YB192	10592 10594	— —
12 DIAMETRAL PITCH											
12 DIAMETRAL PITCH						Face = 1.000" Outside Dia. = Pitch Dia. + .167" Overall Length = 1.000" + Hub Proj.					
STEEL											
12 13 14 15 16	1.000 1.083 1.167 1.250 1.333	.625	.75 .83 .92 .99 1.07	.62		A	YD12 YD13 YD14 YD15 YD16	09940 09942 09944 09946 09948	YD12-1/2* YD13-5/8‡ YD14-5/8 YD15-5/8 YD16-5/8	46158 46159 46160 46161 46162	
18 20	1.500 1.667		.750				1.24 1.32	YD18 YD20	09950 09952	YD18-3/4 YD20-3/4	46163 46164
21	1.750		.750 .875		1.40		.62	YD21 —	09954 —	YD21-3/4 YD21-7/8	46165 46166
24	2.000		.750 .875 1.000		1.65		.62	YD24 — —	09956 — —	YD24-3/4 YD24-7/8 YD24-1	46167 46168 46169
28	2.333		.750 .875 1.000		1.99		.62	YD28 — —	09958 — —	YD28-3/4 YD28-7/8 YD28-1	46170 46171 46172
30 36 42	2.500 3.000 3.500	.750	2.15 1.94 2.44	.62 .88	YD30 YD36A YD42A		09960 10596 10598	— — —	— — —		
48 54	4.000 4.500		.875	2.88 3.38	.88		YD48A YD54A	10600 10602	— —	— —	