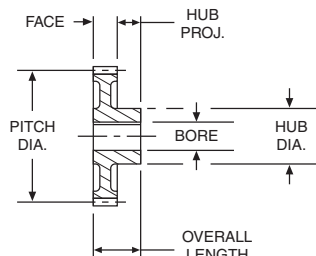


SPUR GEARS

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



16 D.P.



12 D.P.

REFERENCE PAGES

Alterations — 149
Horsepower Ratings — 46, 47
Lubrication — 149
Materials — 150
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 150.

*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 150	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	.750	.375	.56	.50	A	YB12	09916	YB12-3/8†	46141
14	.875		.69			YB14	09918	YB14-3/8†	46142
15	.938	.375 .500	.75	.50		YB15	09920	YB15-3/8†	45991
						—	—	YB15-1/2	46143
16	1.000	.500	.81	.50		YB16	09922	YB16-1/2	46144
18	1.125		.94			YB18	09924	YB18-1/2	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	46147
						—	—	YB24-3/4	46148
28	1.750	.625 .750	1.45	.50		YB28	09930	YB28-5/8	46149
						—	—	YB28-3/4	46150
30	1.875	.625 .750 .875	1.58	.50		YB30	09932	YB30-5/8	46151
						—	—	YB30-3/4	46152
						—	—	YB30-7/8	46153
32	2.000	.625 .750 .875 1.000	1.70	.50		YB32	09934	YB32-5/8	46154
						—	—	YB32-3/4	46155
						—	—	YB32-7/8	46156
						—	—	YB32-1	46157
36	2.250		1.95	.50	YB36	09936	—	—	
40	2.500		2.20		YB40	09938	—	—	
48	3.000	.625	2.00	.62	YB48A	10572	—	—	
56	3.500		2.50		YB56A	10574	—	—	
60	3.750		2.75		YB60A	10576	—	—	
64	4.000		2.88		YB64A	10578	—	—	
72	4.500	.750	3.38	.75	YB72A	10580	—	—	
80	5.000		3.88		YB80A	10582	—	—	
CAST IRON									
96	6.000		1.75		D	YB96	10584	—	—
128	8.000	.750	2.00	.75		YB128	10588	—	—
144	9.000		2.00			YB144	10590	—	—
160	10.000		2.00	.75		YB160	10592	—	—
192	12.000	.875	2.00	1.00		YB192	10594	—	—
12 DIAMETRAL PITCH						Face = 1.000" Outside Dia. = Pitch Dia. + .167" Overall Length = 1.000" + Hub Proj.			
STEEL									
12	1.000	.500	.75	.62	A	YD12	09940	YD12-1/2†	46158
13	1.083		.83			YD13	09942	YD13-5/8‡	46159
14	1.167	.625	.92	.62		YD14	09944	YD14-5/8	46160
15	1.250		.99			YD15	09946	YD15-5/8	46161
16	1.333		1.07			YD16	09948	YD16-5/8	46162
18	1.500	.750	1.24	.62		YD18	09950	YD18-3/4	46163
20	1.667		1.32			YD20	09952	YD20-3/4	46164
21	1.750	.750 .875	1.40	.62		YD21	09954	YD21-3/4	46165
						—	—	YD21-7/8	46166
24	2.000	.750 .875 1.000	1.65	.62		YD24	09956	YD24-3/4	46167
						—	—	YD24-7/8	46168
						—	—	YD24-1	46169
28	2.333	.750 .875 1.000	1.99	.62		YD28	09958	YD28-3/4	46170
						—	—	YD28-7/8	46171
						—	—	YD28-1	46172
30	2.500		2.15	.62	YD30	09960	—	—	
36	3.000	.750	1.94		YD36A	10596	—	—	
42	3.500		2.44	.88	YD42A	10598	—	—	
48	4.000	.875	2.88	.88	YD48A	10600	—	—	
54	4.500		3.38		YD54A	10602	—	—	