



BTS Gears

- 14-1/2° and 20° Pressure Angles
- "Off the Shelf" Availability

Martin

SPROCKET & GEAR, INC.

Bored-to-Size Gears • 14-1/2° Pressure Angle



6 DP 1-1/2" Face

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
11	S611BS 1	14½	2.000*	2.333	B	1	¼ X ½	(1) 1/4-20 @ 90	1½	¾	1.10
12	S612BS 1	14½	2.000	2.333	B	1	¼ X ½	(1) 1/4-20 @ 90	1½	¾	1.10
14	S614BS 1	14½	2.333	2.667	B	1	¼ X ½	(1) 5/16-18 @ 90	1½	¾	1.80
14	S614BS 1-1/8	14½	2.333	2.667	B	1-½	¼ X ½	(1) 5/16-18 @ 90	1½	¾	1.80
15	S615BS 1	14½	2.500	2.833	B	1	¼ X ½	(1) 5/16-18 @ 90	2	¾	2.20
15	S615BS 1-1/8	14½	2.500	2.833	B	1-½	¼ X ½	(1) 5/16-18 @ 90	2	¾	2.20
15	S615BS 1-3/16	14½	2.500	2.833	B	1-¾	¼ X ½	(1) 5/16-18 @ 90	2	¾	2.20
15	S615BS 1-1/4	14½	2.500	2.833	B	1-¼	¼ X ½	(1) 5/16-18 @ 90	2	¾	2.20
16	S616BS 1	14½	2.667	3.000	B	1	¼ X ½	(1) 5/16-18 @ 90	2 ½	¾	2.60
16	S616BS 1-1/8	14½	2.667	3.000	B	1-½	¼ X ½	(1) 5/16-18 @ 90	2 ½	¾	2.60
16	S616BS 1-3/16	14½	2.667	3.000	B	1-¾	¼ X ½	(1) 5/16-18 @ 90	2 ½	¾	2.60
16	S616BS 1-1/4	14½	2.667	3.000	B	1-¼	¼ X ½	(1) 5/16-18 @ 90	2 ½	¾	2.60
18	S618BS 1	14½	3.000	3.333	B	1	¼ X ½	(1) 5/16-18 @ 90	2 ½	¾	3.50
18	S618BS 1-1/8	14½	3.000	3.333	B	1-½	¼ X ½	(1) 5/16-18 @ 90	2 ½	¾	3.50
18	S618BS 1-3/16	14½	3.000	3.333	B	1-¾	¼ X ½	(1) 5/16-18 @ 90	2 ½	¾	3.50
18	S618BS 1-1/4	14½	3.000	3.333	B	1-¼	¼ X ½	(1) 5/16-18 @ 90	2 ½	¾	3.50
20	S620BS 1	14½	3.333	3.667	B	1	¼ X ½	(1) 5/16-18 @ 90	2 ¾	¾	4.60
20	S620BS 1-1/8	14½	3.333	3.667	B	1-½	¼ X ½	(1) 5/16-18 @ 90	2 ¾	¾	4.60
20	S620BS 1-3/16	14½	3.333	3.667	B	1-¾	¼ X ½	(1) 5/16-18 @ 90	2 ¾	¾	4.60
20	S620BS 1-1/4	14½	3.333	3.667	B	1-¼	¼ X ½	(1) 5/16-18 @ 90	2 ¾	¾	4.60

8 DP 1-1/4" Face

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
11	S811BS 3/4	14½	1.500*	1.750	B	¾	¾ X ¾	(1) 10-24 @ 90	1½	¾	0.50
12	S812BS 3/4	14½	1.500	1.750	B	¾	¾ X ¾	(1) 10-24 @ 90	1½	¾	0.50
14	S814BS 3/4	14½	1.750	2.000	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1½	¾	0.90
16	S816BS 7/8	14½	2.000	2.250	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1½	¾	1.10
16	S816BS 1	14½	2.000	2.250	B	1	¼ X ½	(1) 5/16-18 @ 90	1½	¾	1.10
18	S818BS 7/8	14½	2.250	2.500	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1½	¾	1.60
18	S818BS 1	14½	2.250	2.500	B	1	¼ X ½	(1) 5/16-18 @ 90	1½	¾	1.60
18	S818BS 1-1/8	14½	2.250	2.500	B	1½	¼ X ½	(1) 5/16-18 @ 90	1½	¾	1.60
20	S820BS 7/8	14½	2.500	2.750	B	¾	¾ X ¾	(1) 1/4-20 @ 90	2½	¾	2.00
20	S820BS 1	14½	2.500	2.750	B	1	¼ X ½	(1) 5/16-18 @ 90	2½	¾	2.00
20	S820BS 1-1/8	14½	2.500	2.750	B	1½	¼ X ½	(1) 5/16-18 @ 90	2½	¾	2.00
22	S822BS 7/8	14½	2.750	3.000	B	¾	¾ X ¾	(1) 1/4-20 @ 90	2½	¾	2.60
22	S822BS 1	14½	2.750	3.000	B	1	¼ X ½	(1) 5/16-18 @ 90	2½	¾	2.60
22	S822BS 1-1/8	14½	2.750	3.000	B	1-½	¼ X ½	(1) 5/16-18 @ 90	2½	¾	2.60

10 DP 1" Face

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
11	S1011BS 5/8	14½	1.200*	1.400	B	¾	¾ X ¾	(1) 10-24 @ 90	1½	¾	0.30
12	S1012BS 5/8	14½	1.200	1.400	B	¾	¾ X ¾	(1) 10-24 @ 90	1½	¾	0.30
14	S1014BS 5/8	14½	1.400	1.600	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1½	¾	0.40
15	S1015BS 3/4	14½	1.500	1.700	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1½	¾	0.50
16	S1016BS 3/4	14½	1.600	1.800	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1½	¾	0.60
18	S1018BS 3/4	14½	1.800	2.000	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1 17/32	¾	0.80
18	S1018BS 7/8	14½	1.800	2.000	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1 17/32	¾	0.80
20	S1020BS 3/4	14½	2.000	2.200	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1 23/32	¾	1.00
20	S1020BS 7/8	14½	2.000	2.200	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1 23/32	¾	1.00
20	S1020BS 1	14½	2.000	2.200	B	1	¼ X ½	(1) 5/16-18 @ 90	1 23/32	¾	1.00
24	S1024BS 3/4	14½	2.400	2.600	B	¾	¾ X ¾	(1) 1/4-20 @ 90	2½	¾	1.60
24	S1024BS 7/8	14½	2.400	2.600	B	¾	¾ X ¾	(1) 1/4-20 @ 90	2½	¾	1.60
24	S1024BS 1	14½	2.400	2.600	B	1	¼ X ½	(1) 5/16-18 @ 90	2½	¾	1.60

12 DP 3/4" Face

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
11	S1211BS 1/2	14½	1.000*	1.167	B	½	NONE	(1) 10-24	¾	½	0.14
12	S1212BS 1/2	14½	1.000	1.167	B	½	NONE	(1) 10-24	¾	½	0.16
13	S1213BS 1/2	14½	1.083	1.250	B	½	NONE	(1) 10-24	13/16	½	0.20
14	S1214BS 1/2	14½	1.167	1.333	B	½	NONE	(1) 10-24	29/32	½	0.24
15	S1215BS 5/8	14½	1.250	1.417	B	¾	¾ X ¾	(1) 10-24 @ 90	1	½	0.27
16	S1216BS 5/8	14½	1.333	1.500	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1 1/16	½	0.34
18	S1218BS 5/8	14½	1.500	1.667	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1¼	½	0.42
20	S1220BS 5/8	14½	1.667	1.833	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1 13/32	½	0.56
20	S1220BS 3/4	14½	1.667	1.833	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1 13/32	½	0.56
21	S1221BS 5/8	14½	1.750	1.917	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1 13/32	½	0.56
21	S1221BS 3/4	14½	1.750	1.917	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1 13/32	½	0.56
21	S1221BS 7/8	14½	1.750	1.917	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1 13/32	½	0.56
22	S1222BS 5/8	14½	1.833	2.000	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1 9/16	½	0.70
22	S1222BS 3/4	14½	1.833	2.000	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1 9/16	½	0.70
22	S1222BS 7/8	14½	1.833	2.000	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1 9/16	½	0.70
22	S1222BS 1	14½	1.833	2.000	B	1	¼ X ½	(1) 5/16-18 @ 90	1 9/16	½	0.70
24	S1224BS 5/8	14½	2.000	2.167	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1¾	½	0.88
24	S1224BS 3/4	14½	2.000	2.167	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1¾	½	0.88
24	S1224BS 7/8	14½	2.000	2.167	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1¾	½	0.88
24	S1224BS 1	14½	2.000	2.167	B	1	¼ X ½	(1) 5/16-18 @ 90	1¾	½	0.88

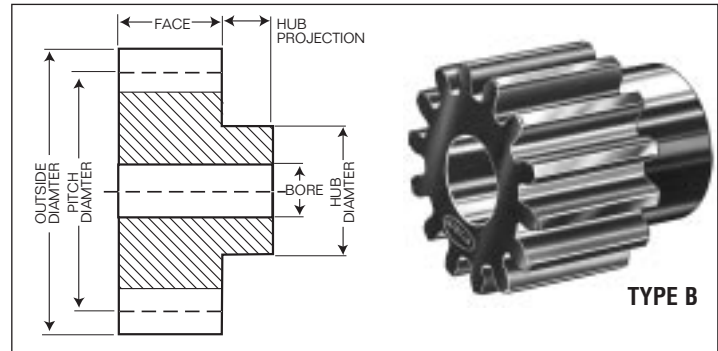
Bored-to-Size Gears

14-1/2° Pressure Angle

T S 8 16 BS 1

Steel Spur
DP
Number of Teeth
Bored to Size
Bore

T=20°
Blank = 14 1/2°



16 DP 1/2" Face

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
11	S1611BS 3/8	14 1/2	0.750*	0.875	B	3/8	None	(1) 8-32	3/16	7/16	0.06
12	S1612BS 3/8	14 1/2	0.750	0.875	B	3/8	None	(1) 8-32	3/16	7/16	0.06
13	S1613BS 3/8	14 1/2	0.812	0.937	B	3/8	None	(1) 8-32	3/16	7/16	0.08
14	S1614BS 3/8	14 1/2	0.875	1.000	B	3/8	None	(1) 10-24	1/16	7/16	0.08
15	S1615BS 1/2	14 1/2	0.937	1.062	B	1/2	None	(1) 10-24	3/16	7/16	0.10
16	S1616BS 1/2	14 1/2	1.000	1.125	B	1/2	None	(1) 10-24	13/16	7/16	0.12
18	S1618BS 1/2	14 1/2	1.125	1.250	B	1/2	None	(1) 1/4-20	15/16	7/16	0.16
20	S1620BS 1/2	14 1/2	1.250	1.375	B	1/2	None	(1) 1/4-20	1/16	7/16	0.22
20	S1620BS 5/8	14 1/2	1.250	1.375	B	5/8	3/16 X 3/32	(1) 1/4-20 @ 90	1/16	7/16	0.22
22	S1622BS 1/2	14 1/2	1.375	1.500	B	1/2	None	(1) 1/4-20	13/16	7/16	0.28
22	S1622BS 5/8	14 1/2	1.375	1.500	B	5/8	3/16 X 3/32	(1) 1/4-20 @ 90	13/16	7/16	0.28
24	S1624BS 1/2	14 1/2	1.500	1.625	B	1/2	None	(1) 1/4-20	13/16	7/16	0.34
24	S1624BS 5/8	14 1/2	1.500	1.625	B	5/8	3/16 X 3/32	(1) 1/4-20 @ 90	13/16	7/16	0.34
24	S1624BS 3/4	14 1/2	1.500	1.625	B	3/4	3/16 X 3/32	(1) 1/4-20 @ 90	13/16	7/16	0.34
26	S1626BS 1/2	14 1/2	1.625	1.750	B	1/2	None	(1) 1/4-20	13/16	7/16	0.42
26	S1626BS 5/8	14 1/2	1.625	1.750	B	5/8	3/16 X 3/32	(1) 1/4-20 @ 90	13/16	7/16	0.42
26	S1626BS 3/4	14 1/2	1.625	1.750	B	3/4	3/16 X 3/32	(1) 1/4-20 @ 90	13/16	7/16	0.42
28	S1628BS 1/2	14 1/2	1.750	1.875	B	1/2	None	(1) 1/4-20	1 1/2	1/2	0.52
28	S1628BS 5/8	14 1/2	1.750	1.875	B	5/8	3/16 X 3/32	(1) 1/4-20 @ 90	1 1/2	1/2	0.52
28	S1628BS 3/4	14 1/2	1.750	1.875	B	3/4	3/16 X 3/32	(1) 1/4-20 @ 90	1 1/2	1/2	0.52
28	S1628BS 7/8	14 1/2	1.750	1.875	B	7/8	3/16 X 3/32	(1) 1/4-20 @ 90	1 1/2	1/2	0.52
30	S1630BS 1/2	14 1/2	1.875	2.000	B	1/2	None	(1) 1/4-20	1 1/2	1/2	0.60
30	S1630BS 5/8	14 1/2	1.875	2.000	B	5/8	3/16 X 3/32	(1) 1/4-20 @ 90	1 1/2	1/2	0.60
30	S1630BS 3/4	14 1/2	1.875	2.000	B	3/4	3/16 X 3/32	(1) 1/4-20 @ 90	1 1/2	1/2	0.60
30	S1630BS 7/8	14 1/2	1.875	2.000	B	7/8	3/16 X 3/32	(1) 1/4-20 @ 90	1 1/2	1/2	0.60
30	S1630BS 1	14 1/2	1.875	2.000	B	1	1/4 X 1/8	(1) 5/16-18 @ 90	1 1/2	1/2	0.60
32	S1632BS 1/2	14 1/2	2.000	2.125	B	1/2	None	(1) 1/4-20	1 3/4	1/2	0.70
32	S1632BS 5/8	14 1/2	2.000	2.125	B	5/8	3/16 X 3/32	(1) 1/4-20 @ 90	1 3/4	1/2	0.70
32	S1632BS 3/4	14 1/2	2.000	2.125	B	3/4	3/16 X 3/32	(1) 1/4-20 @ 90	1 3/4	1/2	0.70
32	S1632BS 7/8	14 1/2	2.000	2.125	B	7/8	3/16 X 3/32	(1) 1/4-20 @ 90	1 3/4	1/2	0.70
32	S1632BS 1	14 1/2	2.000	2.125	B	1	1/4 X 1/8	(1) 5/16-18 @ 90	1 3/4	1/2	0.70

20 DP 3/8" Face

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
11	S2011BS 5/16	14 1/2	0.600*	0.700	B	5/16	None	#35 P.H.	15/32	3/8	0.02
12	S2012BS 5/16	14 1/2	0.600	0.700	B	5/16	None	#35 P.H.	15/32	3/8	0.02
13	S2013BS 5/16	14 1/2	0.650	0.750	B	5/16	None	#35 P.H.	1/2	3/8	0.04
14	S2014BS 5/16	14 1/2	0.700	0.800	B	5/16	None	#35 P.H.	5/16	3/8	0.04
15	S2015BS 3/8	14 1/2	0.750	0.850	B	3/8	None	(1) 8-32	39/64	3/8	0.04
16	S2016BS 3/8	14 1/2	1.800	0.900	B	3/8	None	(1) 8-32	21/32	3/8	0.04
18	S2018BS 3/8	14 1/2	1.900	1.000	B	3/8	None	(1) 10-24	3/4	3/8	0.08
20	S2020BS 3/8	14 1/2	1.000	1.100	B	3/8	None	(1) 10-24	55/64	3/8	0.12
20	S2020BS 1/2	14 1/2	1.000	1.100	B	1/2	None	(1) 10-24	55/64	3/8	0.12
22	S2022BS 3/8	14 1/2	1.100	1.200	B	3/8	None	(1) 1/4-20	31/32	3/8	0.14
22	S2022BS 1/2	14 1/2	1.100	1.200	B	1/2	None	(1) 1/4-20	31/32	3/8	0.14
24	S2024BS 3/8	14 1/2	1.200	1.300	B	3/8	None	(1) 1/4-20	1 1/16	3/8	0.19
24	S2024BS 1/2	14 1/2	1.200	1.300	B	1/2	None	(1) 1/4-20	1 1/16	3/8	0.19
25	S2025BS 3/8	14 1/2	1.250	1.350	B	3/8	None	(1) 1/4-20	1 1/16	3/8	0.20
25	S2025BS 1/2	14 1/2	1.250	1.350	B	1/2	None	(1) 1/4-20	1 1/16	3/8	0.20
28	S2028BS 3/8	14 1/2	1.400	1.500	B	3/8	None	(1) 1/4-20	1 1/16	3/8	0.26
28	S2028BS 1/2	14 1/2	1.400	1.500	B	1/2	None	(1) 1/4-20	1 1/16	3/8	0.26
30	S2030BS 3/8	14 1/2	1.500	1.600	B	3/8	None	(1) 1/4-20	1 23/64	3/8	0.30
30	S2030BS 1/2	14 1/2	1.500	1.600	B	1/2	None	(1) 1/4-20	1 23/64	3/8	0.30
32	S2032BS 3/8	14 1/2	1.600	1.700	B	3/8	None	(1) 1/4-20	1 1/16	1/2	0.40
32	S2032BS 1/2	14 1/2	1.600	1.700	B	1/2	None	(1) 1/4-20	1 1/16	1/2	0.40
35	S2035BS 3/8	14 1/2	1.750	1.850	B	3/8	None	(1) 1/4-20	1 1/16	1/2	0.50
35	S2035BS 1/2	14 1/2	1.750	1.850	B	1/2	None	(1) 1/4-20	1 1/16	1/2	0.50
36	S2036BS 3/8	14 1/2	1.800	1.900	B	3/8	None	(1) 1/4-20	1 1/16	1/2	0.52
36	S2036BS 1/2	14 1/2	1.800	1.900	B	1/2	None	(1) 1/4-20	1 1/16	1/2	0.52
40	S2040BS 3/8	14 1/2	2.000	2.100	B	3/8	None	(1) 1/4-20	1 13/16	1/2	0.64
40	S2040BS 1/2	14 1/2	2.000	2.100	B	1/2	None	(1) 1/4-20	1 13/16	1/2	0.64
40	S2040BS 5/8	14 1/2	2.000	2.100	B	5/8	3/16 X 3/32	(1) 1/4-20 @ 90	1 13/16	1/2	0.64
40	S2040BS 3/4	14 1/2	2.000	2.100	B	3/4	3/16 X 3/32	(1) 1/4-20 @ 90	1 13/16	1/2	0.64

* Enlarged pitch diameter with special tooth form.



Bored-to-Size Gears • 20° Pressure Angle

6 DP 2" Face

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
12	TS612BS 1	20	2.000	2.333	B	1	¼ X ½	(1) 1/4-20 @ 90	1½	¾	1.60
14	TS614BS 1	20	2.333	2.667	B	1	¼ X ½	(1) 5/16-18 @ 90	1½	¾	2.40
14	TS614BS 1-1/8	20	2.333	2.667	B	1½	¼ X ½	(1) 5/16-18 @ 90	1½	¾	2.40
15	TS615BS 1	20	2.500	2.833	B	1	¼ X ½	(1) 5/16-18 @ 90	2	¾	2.90
15	TS615BS 1-1/8	20	2.500	2.833	B	1½	¼ X ½	(1) 5/16-18 @ 90	2	¾	2.90
15	TS615BS 1-3/16	20	2.500	2.833	B	1¾	¼ X ½	(1) 5/16-18 @ 90	2	¾	2.90
15	TS615BS 1-1/4	20	2.500	2.833	B	1¾	¼ X ½	(1) 5/16-18 @ 90	2	¾	2.90
16	TS616BS 1	20	2.667	3.000	B	1	¼ X ½	(1) 5/16-18 @ 90	2½	¾	3.40
16	TS616BS 1-1/8	20	2.667	3.000	B	1½	¼ X ½	(1) 5/16-18 @ 90	2½	¾	3.40
16	TS616BS 1-3/16	20	2.667	3.000	B	1¾	¼ X ½	(1) 5/16-18 @ 90	2½	¾	3.40
16	TS616BS 1-1/4	20	2.667	3.000	B	1¾	¼ X ½	(1) 5/16-18 @ 90	2½	¾	3.40
18	TS618BS 1	20	3.000	3.333	B	1	¼ X ½	(1) 5/16-18 @ 90	2½	¾	4.60
18	TS618BS 1-1/8	20	3.000	3.333	B	1½	¼ X ½	(1) 5/16-18 @ 90	2½	¾	4.60
18	TS618BS 1-3/16	20	3.000	3.333	B	1¾	¼ X ½	(1) 5/16-18 @ 90	2½	¾	4.60
18	TS618BS 1-1/4	20	3.000	3.333	B	1¾	¼ X ½	(1) 5/16-18 @ 90	2½	¾	4.60
21	TS621BS 1	20	3.500	3.833	B	1	¼ X ½	(1) 5/16-18 @ 90	3	¾	6.60
21	TS621BS 1-1/8	20	3.500	3.833	B	1½	¼ X ½	(1) 5/16-18 @ 90	3	¾	6.60
21	TS621BS 1-3/16	20	3.500	3.833	B	1¾	¼ X ½	(1) 5/16-18 @ 90	3	¾	6.60
21	TS621BS 1-1/4	20	3.500	3.833	B	1¾	¼ X ½	(1) 5/16-18 @ 90	3	¾	6.60

8 DP 1-1/2" Face

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
12	TS812BS 3/4	20	1.500	1.750	B	¾	¾ X ¾	(1) 10-24 @ 90	1½	¾	0.70
14	TS814BS 3/4	20	1.750	2.000	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1½	¾	1.00
15	TS815BS 3/4	20	1.875	2.125	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1½	¾	1.20
15	TS815BS 7/8	20	1.875	2.125	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1½	¾	1.20
16	TS816BS 7/8	20	2.000	2.250	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1½	¾	1.40
16	TS816BS 1	20	2.000	2.250	B	1	¼ X ½	(1) 5/16-18 @ 90	1½	¾	1.40
18	TS818BS 7/8	20	2.250	2.500	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1½	¾	1.90
18	TS818BS 1	20	2.250	2.500	B	1	¼ X ½	(1) 5/16-18 @ 90	1½	¾	1.90
18	TS818BS 1-1/8	20	2.250	2.500	B	1½	¼ X ½	(1) 5/16-18 @ 90	1½	¾	1.90
20	TS820BS 7/8	20	2.500	2.750	B	¾	¾ X ¾	(1) 1/4-20 @ 90	2½	¾	2.50
20	TS820BS 1	20	2.500	2.750	B	1	¼ X ½	(1) 5/16-18 @ 90	2½	¾	2.50
20	TS820BS 1-1/8	20	2.500	2.750	B	1½	¼ X ½	(1) 5/16-18 @ 90	2½	¾	2.50
22	TS822BS 7/8	20	2.750	3.000	B	¾	¾ X ¾	(1) 1/4-20 @ 90	2½	¾	3.20
22	TS822BS 1	20	2.750	3.000	B	1	¼ X ½	(1) 5/16-18 @ 90	2½	¾	3.20
22	TS822BS 1-1/8	20	2.750	3.000	B	1½	¼ X ½	(1) 5/16-18 @ 90	2½	¾	3.20
24	TS824BS 7/8	20	3.000	3.250	B	¾	¾ X ¾	(1) 1/4-20 @ 90	2½	¾	3.90
24	TS824BS 1	20	3.000	3.250	B	1	¼ X ½	(1) 5/16-18 @ 90	2½	¾	3.90
24	TS824BS 1-1/8	20	3.000	3.250	B	1½	¼ X ½	(1) 5/16-18 @ 90	2½	¾	3.90

10 DP 1-1/4" Face

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
12	TS1012BS 5/8	20	1.200	1.400	B	¾	¾ X ¾	(1) 10-24 @ 90	2 ²⁹ / ₃₂	¾	0.40
14	TS1014BS 5/8	20	1.400	1.600	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1 ¹ / ₆₄	¾	0.60
15	TS1015BS 3/4	20	1.500	1.700	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1 ¹ / ₃₂	¾	0.60
16	TS1016BS 3/4	20	1.600	1.800	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1½	¾	0.70
18	TS1018BS 7/8	20	1.800	2.000	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1 ¹ / ₆₄	¾	0.90
20	TS1020BS 7/8	20	2.000	2.200	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1 ³ / ₆₄	¾	1.20
20	TS1020BS 1	20	2.000	2.200	B	1	¼ X ½	(1) 5/16-18 @ 90	1 ³ / ₆₄	¾	1.20
24	TS1024BS 7/8	20	2.400	2.600	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1½	¾	1.50
24	TS1024BS 1	20	2.400	2.600	B	1	¼ X ½	(1) 5/16-18 @ 90	1½	¾	1.50
25	TS1025BS 7/8	20	2.500	2.700	B	¾	¾ X ¾	(1) 1/4-20 @ 90	2 ¹ / ₆₄	¾	2.00
25	TS1025BS 1	20	2.500	2.700	B	1	¼ X ½	(1) 5/16-18 @ 90	2 ¹ / ₆₄	¾	2.00
28	TS1028BS 7/8	20	2.800	3.000	B	¾	¾ X ¾	(1) 1/4-20 @ 90	2 ¹ / ₃₂	¾	2.70
28	TS1028BS 1	20	2.800	3.000	B	1	¼ X ½	(1) 5/16-18 @ 90	2 ¹ / ₃₂	¾	2.70

12 DP 1/2" Face

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
12	TS1212BS 1/2	20	1.000	1.167	B	½	NONE	(1) 10-24	¾	¾	0.21
13	TS1213BS 5/8	20	1.083	1.250	B	¾	NONE	(1) 1/4-20 @ 90	1 ³ / ₁₆	¾	0.21
14	TS1214BS 5/8	20	1.167	1.333	B	¾	¾ X ¾	(1) 10-24 @ 90	2 ²⁹ / ₃₂	¾	0.28
15	TS1215BS 5/8	20	1.250	1.417	B	¾	¾ X ¾	(1) 10-24 @ 90	6 ⁵ / ₆₄	¾	0.34
16	TS1216BS 5/8	20	1.333	1.500	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1½	¾	0.41
18	TS1218BS 3/4	20	1.500	1.667	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1¼	¾	0.51
20	TS1220BS 3/4	20	1.667	1.833	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1½	¾	0.65
21	TS1221BS 3/4	20	1.750	1.917	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1 ² / ₆₄	¾	0.75
21	TS1221BS 7/8	20	1.750	1.917	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1 ² / ₆₄	¾	0.75
24	TS1224BS 3/4	20	2.000	2.167	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1 ¹ / ₆₄	¾	1.06
24	TS1228BS 7/8	20	2.000	2.167	B	¾	¾ X ¾	(1) 1/4-20 @ 90	1 ¹ / ₆₄	¾	1.06
24	TS1228BS 1	20	2.000	2.167	B	1	¼ X ½	(1) 5/16-18 @ 90	1 ¹ / ₆₄	¾	1.06
28	TS1228BS 3/4	20	2.333	2.500	B	¾	¾ X ¾	(1) 1/4-20 @ 90	2½	¾	1.60
28	TS1228BS 7/8	20	2.333	2.500	B	¾	¾ X ¾	(1) 1/4-20 @ 90	2½	¾	1.60
28	TS1228BS 1	20	2.333	2.500	B	1	¼ X ½	(1) 5/16-18 @ 90	2½	¾	1.60

* Recommended maximum bore with keyway and set screw.

20° P.A. Gears Will Not Operate With 14½° P.A.

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16 DP 1/2" Face

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
12	TS1612BS 3/8	20	0.750	0.875	B	3/8	NONE	(1) 8-32	3/16	1/2	0.09
14	TS1614BS 3/8	20	0.875	1.000	B	3/8	NONE	(1) 10-24	1 1/16	1/2	0.14
15	TS1615BS 3/8	20	0.937	1.063	B	3/8	NONE	(1) 10-24	3/4	1/2	0.17
15	TS1615BS 1/2	20	0.937	1.063	B	1/2	NONE	(1) 10-24	3/4	1/2	0.17
16	TS1616BS 1/2	20	1.000	1.125	B	1/2	NONE	(1) 10-24	13/16	1/2	0.17
18	TS1618BS 1/2	20	1.125	1.250	B	1/2	NONE	(1) 1/4-20	15/16	1/2	0.24
20	TS1620BS 5/8	20	1.250	1.375	B	5/8	3/16 X 3/32	(1) 1/4-20 @ 90	1 1/16	1/2	0.28
24	TS1624BS 5/8	20	1.500	1.625	B	5/8	3/16 X 3/32	(1) 1/4-20 @ 90	1 5/16	1/2	0.46
24	TS1624BS 3/4	20	1.500	1.625	B	3/4	3/16 X 3/32	(1) 1/4-20 @ 90	1 5/16	1/2	0.46
28	TS1628BS 5/8	20	1.750	1.875	B	5/8	3/16 X 3/32	(1) 1/4-20 @ 90	1 1/2	1/2	0.65
28	TS1628BS 3/4	20	1.750	1.875	B	3/4	3/16 X 3/32	(1) 1/4-20 @ 90	1 1/2	1/2	0.65
30	TS1630BS 5/8	20	1.875	2.000	B	5/8	3/16 X 3/32	(1) 1/4-20 @ 90	1 5/8	1/2	0.77
30	TS1630BS 3/4	20	1.875	2.000	B	3/4	3/16 X 3/32	(1) 1/4-20 @ 90	1 5/8	1/2	0.77
30	TS1630BS 7/8	20	1.875	2.000	B	7/8	3/16 X 3/32	(1) 1/4-20 @ 90	1 5/8	1/2	0.77
32	TS1632BS 5/8	20	2.000	2.125	B	5/8	3/16 X 3/32	(1) 1/4-20 @ 90	1 3/4	1/2	0.90
32	TS1632BS 3/4	20	2.000	2.125	B	3/4	3/16 X 3/32	(1) 1/4-20 @ 90	1 3/4	1/2	0.90
32	TS1632BS 7/8	20	2.000	2.125	B	7/8	3/16 X 3/32	(1) 1/4-20 @ 90	1 3/4	1/2	0.90
32	TS1632BS 1	20	2.000	2.125	B	1	1/4 X 1/8	(1) 5/16-18 @ 90	1 3/4	1/2	0.90

20 DP 1/2" Face

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
12	TS2012BS 5/16	20	0.600	0.700	B	5/16	NONE	#35 P.H.	15/32	7/16	0.04
14	TS2014BS 5/16	20	0.700	0.800	B	5/16	NONE	#35 P.H.	35/64	7/16	0.06
15	TS2015BS 3/8	20	0.750	0.850	B	3/8	NONE	(1) 8-32	39/64	7/16	0.07
16	TS2016BS 1/2	20	0.800	0.900	B	3/8	NONE	(1) 8-32	21/32	7/16	0.08
18	TS2018BS 3/8	20	0.900	1.000	B	3/8	NONE	(1) 10-24	3/4	7/16	0.12
20	TS2020BS 1/2	20	1.000	1.100	B	1/2	NONE	(1) 10-24	35/64	7/16	0.13
24	TS2024BS 1/2	20	1.200	1.300	B	1/2	NONE	(1) 1/4-20	1 1/16	7/16	0.22
25	TS2025BS 1/2	20	1.250	1.350	B	1/2	NONE	(1) 1/4-20	1 1/16	7/16	0.24
30	TS2030BS 1/2	20	1.500	1.600	B	1/2	NONE	(1) 1/4-20	1 23/64	7/16	0.38
35	TS2035BS 1/2	20	1.750	1.850	B	1/2	NONE	(1) 1/4-20	1 1/16	1/2	0.56
40	TS2040BS 1/2	20	2.000	2.100	B	1/2	NONE	(1) 1/4-20	1 13/16	1/2	0.76
40	TS2040BS 5/8	20	2.000	2.100	B	5/8	3/16 X 3/32	(1) 1/4-20 @ 90	1 13/16	1/2	0.76
40	TS2040BS 3/4	20	2.000	2.100	B	3/4	3/16 X 3/32	(1) 1/4-20 @ 90	1 13/16	1/2	0.76



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