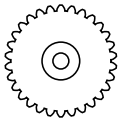


PIN TYPE SPUR GEARS

P.A. 20° • Bore .1875 • Face 3/16 • Pitch 24
 303 Stainless Steel — Clear Passivate
 Aluminum 2024T4 — Chromic Acid Anodize

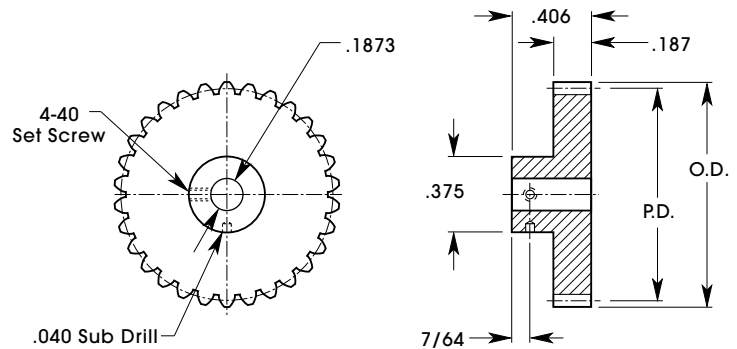


Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
14	.5833	.6666	GP10-14	GP11-14
15	.6250	.7083	GP10-15	GP11-15
16	.6666	.7500	GP10-16	GP11-16
18	.7500	.8333	GP10-18	GP11-18
20	.8333	.9166	GP10-20	GP11-20
21	.8750	.9583	GP10-21	GP11-21
22	.9166	1.0000	GP10-22	GP11-22
24	1.0000	1.0833	GP10-24	GP11-24
30	1.2500	1.3333	GP10-30	GP11-30
36	1.5000	1.5833	GP10-36	GP11-36
42	1.7500	1.8333	GP10-42	GP11-42
48	2.0000	2.0833	GP10-48	GP11-48
54	2.2500	2.3333	GP10-54	GP11-54
60	2.5000	2.5833	GP10-60	GP11-60
66	2.7500	2.8333	GP10-66	GP11-66
72	3.0000	3.0833	GP10-72	GP11-72

Special No. of Teeth, Bore Size, Material, and Finishes on Request.

*Theoretical



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

P.A. 20° • Bore .2500 • Face 3/16 • Pitch 24

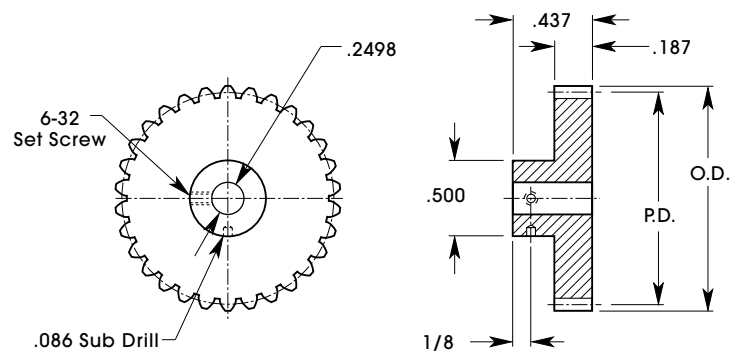
303 Stainless Steel — Clear Passivate
 Aluminum 2024T4 — Chromic Acid Anodize

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
14	.5833	.6666	GP12-14	GP13-14
15	.6250	.7083	GP12-15	GP13-15
16	.6666	.7500	GP12-16	GP13-16
18	.7500	.8333	GP12-18	GP13-18
20	.8333	.9166	GP12-20	GP13-20
21	.8750	.9583	GP12-21	GP13-21
22	.9166	1.0000	GP12-22	GP13-22
24	1.0000	1.0833	GP12-24	GP13-24
30	1.2500	1.3333	GP12-30	GP13-30
36	1.5000	1.5833	GP12-36	GP13-36
42	1.7500	1.8333	GP12-42	GP13-42
48	2.0000	2.0833	GP12-48	GP13-48
54	2.2500	2.3333	GP12-54	GP13-54
60	2.5000	2.5833	GP12-60	GP13-60
66	2.7500	2.8333	GP12-66	GP13-66
72	3.0000	3.0833	GP12-72	GP13-72

Special No. of Teeth, Bore Size, Material, and Finishes on Request.
 For .2405 Bore Add Prefix X to Catalog Number When Ordering

*Theoretical



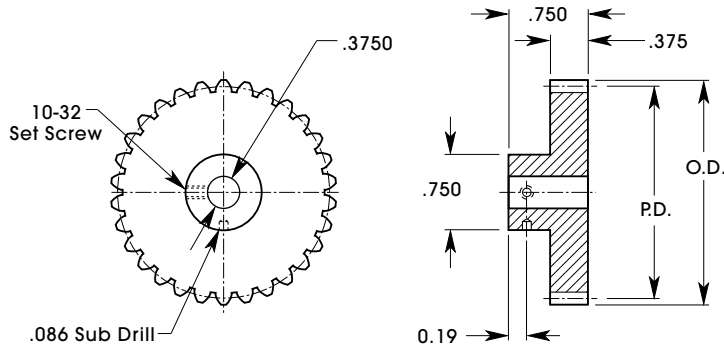
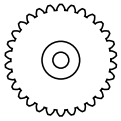
	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

SPUR GEARS *PIN TYPE*

Pitch 24 • Face 3/8 • Bore .3750 • P.A. 20°

303 Stainless Steel — Clear Passivate

Aluminum 2024T4 — Chromic Acid Anodize



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
16**	.6666	.7500	GP64-16	GP65-16
18**	.7500	.8333	GP64-18	GP65-18
20**	.8333	.9166	GP64-20	GP65-20
21	.8750	.9583	GP64-21	GP65-21
22	.9166	1.0000	GP64-22	GP65-22
24	1.0000	1.0833	GP64-24	GP65-24
30	1.2500	1.3333	GP64-30	GP65-30
36	1.5000	1.5833	GP64-36	GP65-36
42	1.7500	1.8333	GP64-42	GP65-42
45	1.8750	1.9580	GP64-45	GP65-45

Special No. of Teeth, Bores Size, Material, and Finishes on Request.

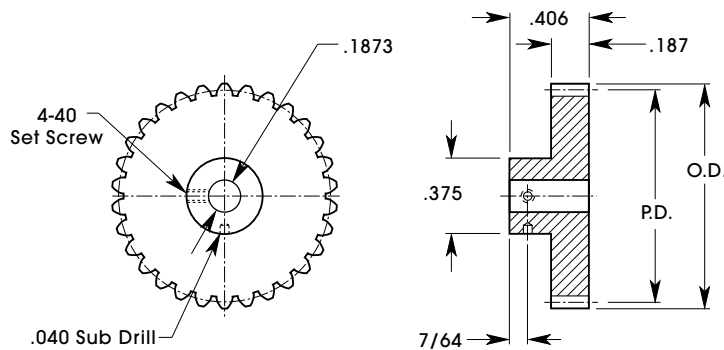
**Teeth Cut Into Hub. Hub Diameter Never Exceeds O.D.

*Theoretical

Pitch 32 • Face 3/16 • Bore .1875 • P.A. 20°

303 Stainless Steel — Clear Passivate

Aluminum 2024T4 — Chromic Acid Anodize



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
18	.5625	.6250	GP14-18	GP15-18
20	.6250	.6875	GP14-20	GP15-20
22	.6875	.7500	GP14-22	GP15-22
24	.7500	.8125	GP14-24	GP15-24
26	.8125	.8750	GP14-26	GP15-26
28	.8750	.9375	GP14-28	GP15-28
30	.9375	1.0000	GP14-30	GP15-30
32	1.0000	1.0625	GP14-32	GP15-32
36	1.1250	1.1875	GP14-36	GP15-36
40	1.2500	1.3125	GP14-40	GP15-40
48	1.5000	1.5625	GP14-48	GP15-48
56	1.7500	1.8125	GP14-56	GP15-56
64	2.0000	2.0625	GP14-64	GP15-64
72	2.2500	2.3125	GP14-72	GP15-72
80	2.5000	2.5625	GP14-80	GP15-80
88	2.7500	2.8125	GP14-88	GP15-88
96	3.0000	3.0625	GP14-96	GP15-96

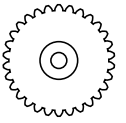
Special No. of Teeth, Bores Size, Material, and Finishes on Request.

*Theoretical

PIN TYPE SPUR GEARS

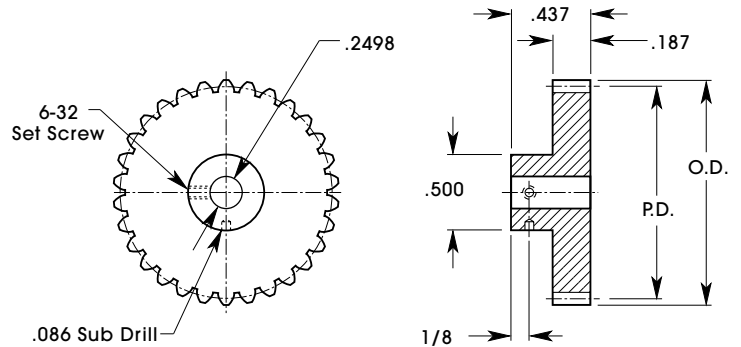
P.A. 20° • Bore .2500 • Face 3/16 • Pitch 32

303 Stainless Steel — Clear Passivate
Aluminum 2024T4 — Chromic Acid Anodize



Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
18	.5625	.6250	GP16-18	GP17-18
20	.6250	.6875	GP16-20	GP17-20
22	.6875	.7500	GP16-22	GP17-22
24	.7500	.8125	GP16-24	GP17-24
26	.8125	.8750	GP16-26	GP17-26
28	.8750	.9375	GP16-28	GP17-28
30	.9375	1.0000	GP16-30	GP17-30
32	1.0000	1.0625	GP16-32	GP17-32
36	1.1250	1.1875	GP16-36	GP17-36
40	1.2500	1.3125	GP16-40	GP17-40
48	1.5000	1.5625	GP16-48	GP17-48
56	1.7500	1.8125	GP16-56	GP17-56
64	2.0000	2.0625	GP16-64	GP17-64
72	2.2500	2.3125	GP16-72	GP17-72
80	2.5000	2.5625	GP16-80	GP17-80
88	2.7500	2.8125	GP16-88	GP17-88
96	3.0000	3.0625	GP16-96	GP17-96



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

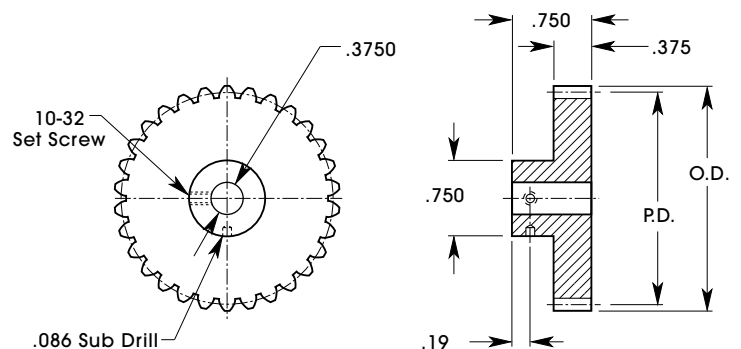
Special No. of Teeth, Bore Size, Material, and Finishes on Request.
For .2405 Bore Add Prefix X to Catalog Number When Ordering
*Theoretical

P.A. 20° • Bore .3750 • Face 3/8 • Pitch 32

303 Stainless Steel — Clear Passivate
Aluminum 2024T4 — Chromic Acid Anodize

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
20**	.6250	.6875	GP66-20	GP67-20
22**	.6875	.7500	GP66-22	GP67-22
24**	.7500	.8125	GP66-24	GP67-24
26	.8125	.8750	GP66-26	GP67-26
28	.8750	.9375	GP66-28	GP67-28
30	.9375	1.0000	GP66-30	GP67-30
32	1.0000	1.0625	GP66-32	GP67-32
36	1.1250	1.1875	GP66-36	GP67-36
40	1.2500	1.3125	GP66-40	GP67-40
48	1.5000	1.5625	GP66-48	GP67-48
56	1.7500	1.8125	GP66-56	GP67-56
60	1.8750	1.9380	GP66-60	GP67-60



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

Special No. of Teeth, Bore Size, Material, and Finishes on Request.
**Teeth Cut Into Hub. Hub Diameter Never Exceeds O.D.
*Theoretical

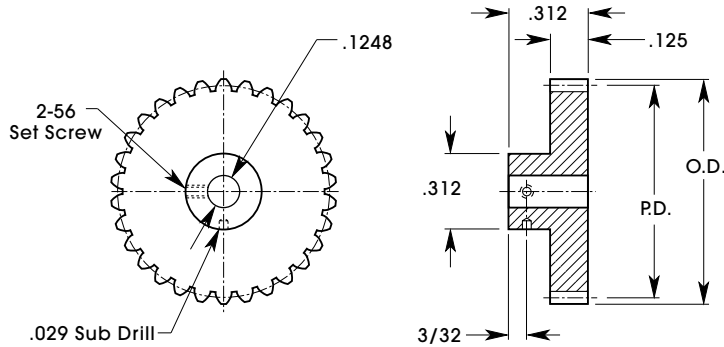
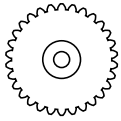
SPUR GEARS PIN TYPE

Pitch 48 • Face 1/8 • Bore .1250 • P.A. 20°

303 Stainless Steel — Clear Passivate

Aluminum 2024T4 — Chromic Acid Anodize

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
20	.4167	.4583	GP18-20	GP19-20
21	.4375	.4792	GP18-21	GP19-21
22	.4583	.5000	GP18-22	GP19-22
23	.4792	.5208	GP18-23	GP19-23
24	.5000	.5417	GP18-24	GP19-24
25	.5208	.5625	GP18-25	GP19-25
26	.5416	.5833	GP18-26	GP19-26
27	.5625	.6042	GP18-27	GP19-27
28	.5833	.6250	GP18-28	GP19-28
29	.6042	.6458	GP18-29	GP19-29
30	.6250	.6667	GP18-30	GP19-30
32	.6667	.7083	GP18-32	GP19-32
34	.7083	.7500	GP18-34	GP19-34
36	.7500	.7917	GP18-36	GP19-36
38	.7917	.8333	GP18-38	GP19-38
40	.8333	.8750	GP18-40	GP19-40
42	.8750	.9167	GP18-42	GP19-42
44	.9167	.9583	GP18-44	GP19-44
46	.9583	1.0000	GP18-46	GP19-46
48	1.0000	1.0416	GP18-48	GP19-48
50	1.0417	1.0833	GP18-50	GP19-50
55	1.1458	1.1875	GP18-55	GP19-55
56	1.1667	1.2083	GP18-56	GP19-56
60	1.2500	1.2917	GP18-60	GP19-60
64	1.333	1.3750	GP18-64	GP19-64
65	1.3541	1.3958	GP18-65	GP19-65
70	1.4583	1.5000	GP18-70	GP19-70
72	1.5000	1.5417	GP18-72	GP19-72
75	1.5625	1.6042	GP18-75	GP19-75
80	1.6667	1.7083	GP18-80	GP19-80
84	1.7500	1.7917	GP18-84	GP19-84
85	1.7708	1.8125	GP18-85	GP19-85
90	1.8750	1.9167	GP18-90	GP19-90
92	1.9166	1.9583	GP18-92	GP19-92
95	1.9791	2.0208	GP18-95	GP19-95
96	2.0000	2.0417	GP18-96	GP19-96
100	2.0833	2.1250	GP18-100	GP19-100

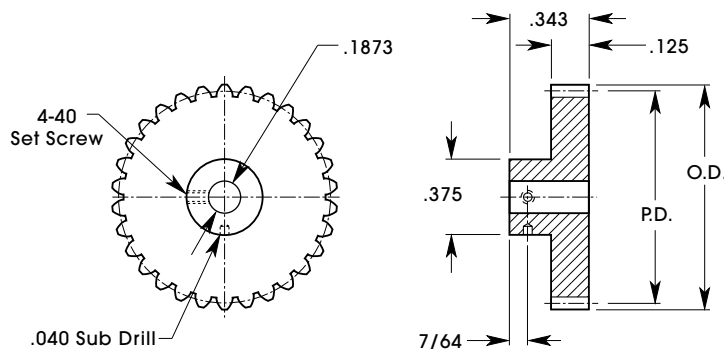
Special No. of Teeth, Bore Size, Material, and Finishes on Request.
For .2405 Bore Add Prefix SX to Catalog Number When Ordering.
For .1562 Bore Add Prefix SXX to Catalog Number When Ordering
*Theoretical

Pitch 48 • Face 1/8 • Bore .1875 • P.A. 20°

303 Stainless Steel — Clear Passivate

Aluminum 2024T4 — Chromic Acid Anodize

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
20	.4167	.4583	GP20-20	GP21-20
21	.4375	.4792	GP20-21	GP21-21
22	.4583	.5000	GP20-22	GP21-22
23	.4792	.5208	GP20-23	GP21-23
24	.5000	.5417	GP20-24	GP21-24
25	.5208	.5625	GP20-25	GP21-25
26	.5416	.5833	GP20-26	GP21-26
27	.5625	.6042	GP20-27	GP21-27
28	.5833	.6250	GP20-28	GP21-28
29	.6042	.6458	GP20-29	GP21-29
30	.6250	.6667	GP20-30	GP21-30
32	.6667	.7083	GP20-32	GP21-32
34	.7083	.7500	GP20-34	GP21-34
36	.7500	.7917	GP20-36	GP21-36
38	.7917	.8333	GP20-38	GP21-38
40	.8333	.8750	GP20-40	GP21-40
42	.8750	.9167	GP20-42	GP21-42
44	.9167	.9583	GP20-44	GP21-44
46	.9583	1.0000	GP20-46	GP21-46
48	1.0000	1.0416	GP20-48	GP21-48
50	1.0417	1.0833	GP20-50	GP21-50
55	1.1458	1.1875	GP20-55	GP21-55
56	1.1667	1.2083	GP20-56	GP21-56
60	1.2500	1.2917	GP20-60	GP21-60
64	1.333	1.3750	GP20-64	GP21-64
65	1.3541	1.3958	GP20-65	GP21-65
70	1.4583	1.5000	GP20-70	GP21-70
72	1.5000	1.5417	GP20-72	GP21-72
75	1.5625	1.6042	GP20-75	GP21-75
80	1.6667	1.7083	GP20-80	GP21-80
84	1.7500	1.7917	GP20-84	GP21-84
85	1.7708	1.8125	GP20-85	GP21-85
90	1.8750	1.9167	GP20-90	GP21-90
92	1.9166	1.9583	GP20-92	GP21-92
95	1.9791	2.0208	GP20-95	GP21-95
96	2.0000	2.0417	GP20-96	GP21-96
100	2.0833	2.1250	GP20-100	GP21-100

Special No. of Teeth, Bore Size, Material, and Finishes on Request.
*Theoretical

PIN TYPE SPUR GEARS

P.A. 20° • Bore .1875 • Face 3/16 • Pitch 48

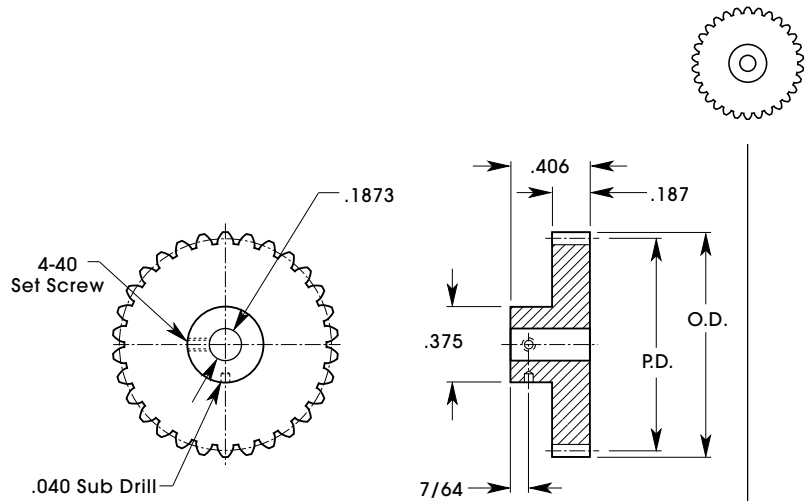
303 Stainless Steel — Clear Passivate
Aluminum 2024T4 — Chromic Acid Anodize

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
20	.4167	.4583	GP22-20	GP23-20
21	.4375	.4792	GP22-21	GP23-21
22	.4583	.5000	GP22-22	GP23-22
23	.4792	.5208	GP22-23	GP23-23
24	.5000	.5417	GP22-24	GP23-24
25	.5208	.5625	GP22-25	GP23-25
26	.5416	.5833	GP22-26	GP23-26
27	.5625	.6042	GP22-27	GP23-27
28	.5833	.6250	GP22-28	GP23-28
29	.6042	.6458	GP22-29	GP23-29
30	.6250	.6667	GP22-30	GP23-30
32	.6667	.7083	GP22-32	GP23-32
34	.7083	.7500	GP22-34	GP23-34
36	.7500	.7917	GP22-36	GP23-36
38	.7917	.8333	GP22-38	GP23-38
40	.8333	.8750	GP22-40	GP23-40
42	.8750	.9167	GP22-42	GP23-42
44	.9167	.9583	GP22-44	GP23-44
46	.9583	1.0000	GP22-46	GP23-46
48	1.0000	1.0416	GP22-48	GP23-48
50	1.0417	1.0833	GP22-50	GP23-50
55	1.1458	1.1875	GP22-55	GP23-55
56	1.1667	1.2083	GP22-56	GP23-56
60	1.2500	1.2917	GP22-60	GP23-60
64	1.333	1.3750	GP22-64	GP23-64
65	1.3541	1.3958	GP22-65	GP23-65
70	1.4583	1.5000	GP22-70	GP23-70
72	1.5000	1.5417	GP22-72	GP23-72
75	1.5625	1.6042	GP22-75	GP23-75
80	1.6667	1.7083	GP22-80	GP23-80
84	1.7500	1.7917	GP22-84	GP23-84
85	1.7708	1.8125	GP22-85	GP23-85
90	1.8750	1.9167	GP22-90	GP23-90
92	1.9166	1.9583	GP22-92	GP23-92
95	1.9791	2.0208	GP22-95	GP23-95
96	2.0000	2.0417	GP22-96	GP23-96
100	2.0833	2.1250	GP22-100	GP23-100

Special No. of Teeth, Bore Size, Material, and Finishes on Request.

*Theoretical



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.

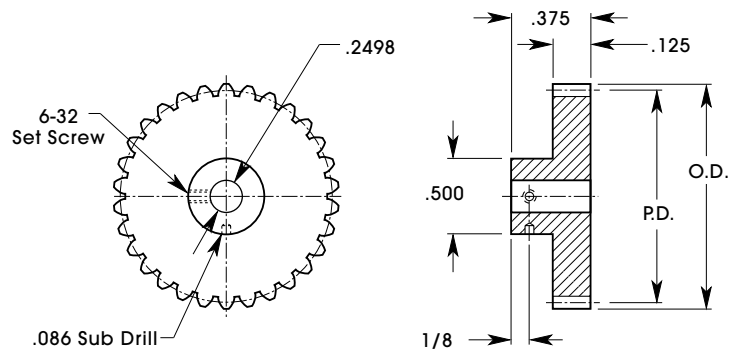
NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
25	.5208	.5625	GP24-25	GP25-25
26	.5416	.5833	GP24-26	GP25-26
27	.5625	.6042	GP24-27	GP25-27
28	.5833	.6250	GP24-28	GP25-28
29	.6042	.6458	GP24-29	GP25-29
30	.6250	.6667	GP24-30	GP25-30
32	.6667	.7083	GP24-32	GP25-32
34	.7083	.7500	GP24-34	GP25-34
36	.7500	.7917	GP24-36	GP25-36
38	.7917	.8333	GP24-38	GP25-38
40	.8333	.8750	GP24-40	GP25-40
42	.8750	.9167	GP24-42	GP25-42
44	.9167	.9583	GP24-44	GP25-44
46	.9583	1.0000	GP24-46	GP25-46
48	1.0000	1.0416	GP24-48	GP25-48
50	1.0417	1.0833	GP24-50	GP25-50
55	1.1458	1.1875	GP24-55	GP25-55
56	1.1667	1.2083	GP24-56	GP25-56
60	1.2500	1.2917	GP24-60	GP25-60
64	1.333	1.3750	GP24-64	GP25-64
65	1.3541	1.3958	GP24-65	GP25-65
70	1.4583	1.5000	GP24-70	GP25-70
72	1.5000	1.5417	GP24-72	GP25-72
75	1.5625	1.6042	GP24-75	GP25-75
80	1.6667	1.7083	GP24-80	GP25-80
84	1.7500	1.7917	GP24-84	GP25-84
85	1.7708	1.8125	GP24-85	GP25-85
90	1.8750	1.9167	GP24-90	GP25-90
92	1.9166	1.9583	GP24-92	GP25-92
95	1.9791	2.0208	GP24-95	GP25-95
96	2.0000	2.0417	GP24-96	GP25-96
100	2.0833	2.1250	GP24-100	GP25-100
105	2.1875	2.2292	GP24-105	GP25-105
110	2.2916	2.3333	GP24-110	GP25-110
115	2.3958	2.4375	GP24-115	GP25-115
120	2.5000	2.5417	GP24-120	GP25-120

Special No. of Teeth, Bore Size, Material, and Finishes on Request.
For .2405 Bore Add Prefix X to Catalog Number When Ordering.

*Theoretical

P.A. 20° • Bore .2500 • Face 1/8 • Pitch 48

303 Stainless Steel — Clear Passivate
Aluminum 2024T4 — Chromic Acid Anodize

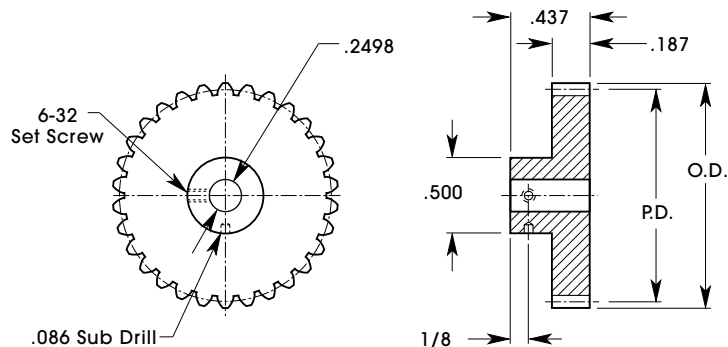
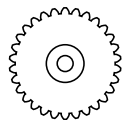


	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

SPUR GEARS PIN TYPE

Pitch 48 • Face 3/16 • Bore .2500 • P.A. 20°

303 Stainless Steel — Clear Passivate
Aluminum 2024T4 — Chromic Acid Anodize



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.

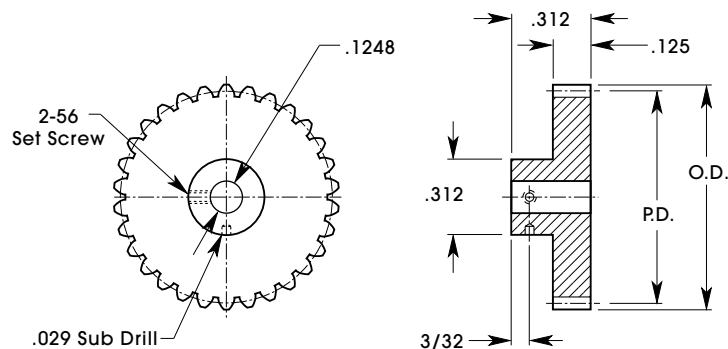
NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
25	.5208	.5625	GP26-25	GP27-25
26	.5416	.5833	GP26-26	GP27-26
27	.5625	.6042	GP26-27	GP27-27
28	.5833	.6250	GP26-28	GP27-28
29	.6042	.6458	GP26-29	GP27-29
30	.6250	.6667	GP26-30	GP27-30
32	.6667	.7083	GP26-32	GP27-32
34	.7083	.7500	GP26-34	GP27-34
36	.7500	.7917	GP26-36	GP27-36
38	.7917	.8333	GP26-38	GP27-38
40	.8333	.8750	GP26-40	GP27-40
42	.8750	.9167	GP26-42	GP27-42
44	.9167	.9583	GP26-44	GP27-44
46	.9583	1.0000	GP26-46	GP27-46
48	1.0000	1.0416	GP26-48	GP27-48
50	1.0417	1.0833	GP26-50	GP27-50
55	1.1458	1.1875	GP26-55	GP27-55
56	1.1667	1.2083	GP26-56	GP27-56
60	1.2500	1.2917	GP26-60	GP27-60
64	1.333	1.3750	GP26-64	GP27-64
65	1.3541	1.3958	GP26-65	GP27-65
70	1.4583	1.5000	GP26-70	GP27-70
72	1.5000	1.5417	GP26-72	GP27-72
75	1.5625	1.6042	GP26-75	GP27-75
80	1.6667	1.7083	GP26-80	GP27-80
84	1.7500	1.7917	GP26-84	GP27-84
85	1.7708	1.8125	GP26-85	GP27-85
90	1.8750	1.9167	GP26-90	GP27-90
92	1.9166	1.9583	GP26-92	GP27-92
95	1.9791	2.0208	GP26-95	GP27-95
96	2.0000	2.0417	GP26-96	GP27-96
100	2.0833	2.1250	GP26-100	GP27-100
105	2.1875	2.2292	GP26-105	GP27-105
110	2.2916	2.3333	GP26-110	GP27-110
115	2.3958	2.4375	GP26-115	GP27-115
120	2.5000	2.5417	GP26-120	GP27-120

Special No. of Teeth, Bore Size, Material, and Finishes on Request.
For .2405 Bore Add Prefix X to Catalog Number When Ordering.

*Theoretical

Pitch 64 • Face 1/8 • Bore .1250 • P.A. 20°

303 Stainless Steel — Clear Passivate
Aluminum 2024T4 — Chromic Acid Anodize



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14.

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
21	.3281	.3594	GP28-21	GP29-21
22	.3437	.3750	GP28-22	GP29-22
23	.3593	.3906	GP28-23	GP29-23
24	.3750	.4063	GP28-24	GP29-24
25	.3906	.4219	GP28-25	GP29-25
26	.4062	.4375	GP28-26	GP29-26
27	.4219	.4531	GP28-27	GP29-27
28	.4375	.4688	GP28-28	GP29-28
29	.4531	.4844	GP28-29	GP29-29
30	.4687	.5000	GP28-30	GP29-30
32	.5000	.5313	GP28-32	GP29-32
34	.5312	.5625	GP28-34	GP29-34
36	.5625	.5938	GP28-36	GP29-36
38	.5938	.6250	GP28-38	GP29-38
40	.6250	.6563	GP28-40	GP29-40
42	.6563	.6875	GP28-42	GP29-42
44	.6875	.7188	GP28-44	GP29-44
46	.7188	.7500	GP28-46	GP29-46
48	.7500	.7813	GP28-48	GP29-48
50	.7813	.8125	GP28-50	GP29-50
55	.8594	.8906	GP28-55	GP29-55
56	.8750	.9063	GP28-56	GP29-56
60	.9375	.9688	GP28-60	GP29-60
64	1.0000	1.0313	GP28-64	GP29-64
65	1.0156	1.0469	GP28-65	GP29-65
70	1.0938	1.1250	GP28-70	GP29-70
72	1.1250	1.1563	GP28-72	GP29-72
75	1.1719	1.2031	GP28-75	GP29-75
80	1.2500	1.2813	GP28-80	GP29-80
84	1.3125	1.3438	GP28-84	GP29-84
85	1.3281	1.3594	GP28-85	GP29-85
90	1.4063	1.4375	GP28-90	GP29-90
92	1.4375	1.4688	GP28-92	GP29-92
95	1.4844	1.5156	GP28-95	GP29-95
96	1.5000	1.5313	GP28-96	GP29-96
100	1.5625	1.5938	GP28-100	GP29-100

Special No. of Teeth, Bore Size, Material, and Finishes on Request.
For .1200 Bore Add Prefix SX to Catalog Number When Ordering.

For .1562 Bore Add Prefix SXX to Catalog Number When Ordering.
Theoretical

PIN TYPE SPUR GEARS

P.A. 20° • Bore .1875 • Face 1/8 • Pitch 64

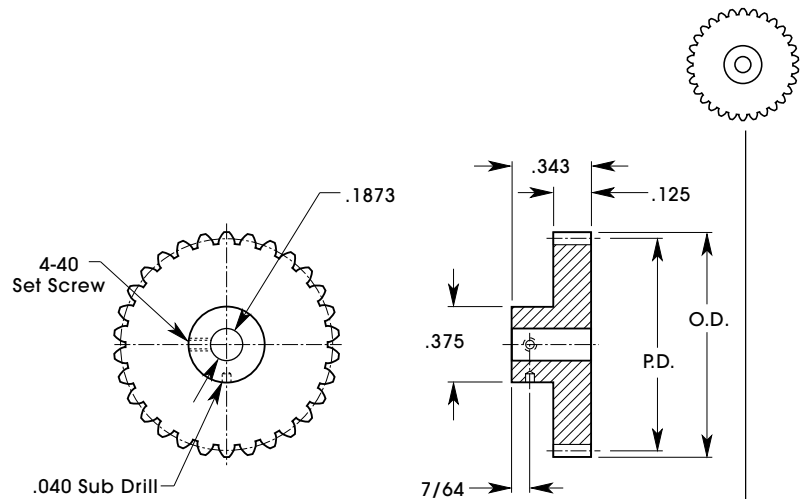
Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.

303 Stainless Steel — Clear Passivate
Aluminum 2024T4 — Chromic Acid Anodize

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
25	.3906	.4219	GP30-25	GP31-25
26	.4062	.4375	GP30-26	GP31-26
27	.4219	.4531	GP30-27	GP31-27
28	.7375	.4688	GP30-28	GP31-28
29	.4531	.4844	GP30-29	GP31-29
30	.4687	.5000	GP30-30	GP31-30
32	.5000	.5313	GP30-32	GP31-32
34	.5312	.5625	GP30-34	GP31-34
36	.5625	.5938	GP30-36	GP31-36
38	.5938	.6250	GP30-38	GP31-38
40	.6250	.6563	GP30-40	GP31-40
42	.6563	.6875	GP30-42	GP31-42
44	.6875	.7188	GP30-44	GP31-44
46	.7188	.7500	GP30-46	GP31-46
48	.7500	.7813	GP30-48	GP31-48
50	.7813	.8125	GP30-50	GP31-50
55	.8594	.8906	GP30-55	GP31-55
56	.8750	.9063	GP30-56	GP31-56
60	.9375	.9688	GP30-60	GP31-60
64	1.0000	1.0313	GP30-64	GP31-64
65	1.0156	1.0469	GP30-65	GP31-65
70	1.0938	1.1250	GP30-70	GP31-70
72	1.1250	1.1563	GP30-72	GP31-72
75	1.1719	1.2031	GP30-75	GP31-75
80	1.2500	1.2813	GP30-80	GP31-80
84	1.3125	1.3438	GP30-84	GP31-84
85	1.3281	1.3594	GP30-85	GP31-85
90	1.4063	1.4375	GP30-90	GP31-90
92	1.4375	1.4688	GP30-92	GP31-92
95	1.4844	1.5156	GP30-95	GP31-95
96	1.5000	1.5313	GP30-96	GP31-96
100	1.5625	1.5938	GP30-100	GP31-100
105	1.6406	1.6719	GP30-105	GP31-105
110	1.7187	1.7500	GP30-110	GP31-110
120	1.8750	1.9063	GP30-120	GP31-120
130	2.0312	2.0625	GP30-130	GP31-130

Special No. of Teeth, Bores Size, Material, and Finishes on Request.

*Theoretical



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

P.A. 20° • Bore .1875 • Face 3/16 • Pitch 64

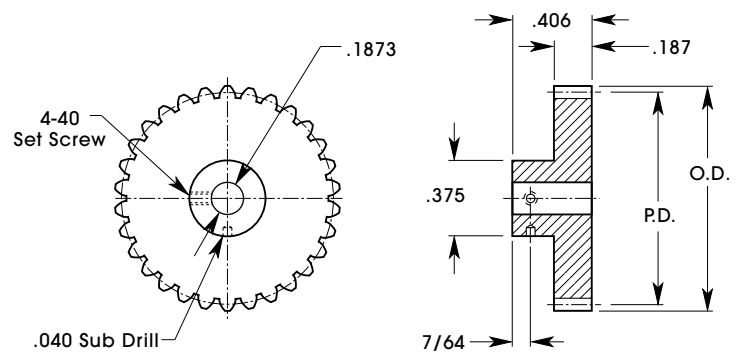
Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.

303 Stainless Steel — Clear Passivate
Aluminum 2024T4 — Chromic Acid Anodize

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
25	.3906	.4219	GP32-25	GP33-25
26	.4062	.4375	GP32-26	GP33-26
27	.4219	.4531	GP32-27	GP33-27
28	.7375	.4688	GP32-28	GP33-28
29	.4531	.4844	GP32-29	GP33-29
30	.4687	.5000	GP32-30	GP33-30
32	.5000	.5313	GP32-32	GP33-32
34	.5312	.5625	GP32-34	GP33-34
36	.5625	.5938	GP32-36	GP33-36
38	.5938	.6250	GP32-38	GP33-38
40	.6250	.6563	GP32-40	GP33-40
42	.6563	.6875	GP32-42	GP33-42
44	.6875	.7188	GP32-44	GP33-44
46	.7188	.7500	GP32-46	GP33-46
48	.7500	.7813	GP32-48	GP33-48
50	.7813	.8125	GP32-50	GP33-50
55	.8594	.8906	GP32-55	GP33-55
56	.8750	.9063	GP32-56	GP33-56
60	.9375	.9688	GP32-60	GP33-60
64	1.0000	1.0313	GP32-64	GP33-64
65	1.0156	1.0469	GP32-65	GP33-65
70	1.0938	1.1250	GP32-70	GP33-70
72	1.1250	1.1563	GP32-72	GP33-72
75	1.1719	1.2031	GP32-75	GP33-75
80	1.2500	1.2813	GP32-80	GP33-80
84	1.3125	1.3438	GP32-84	GP33-84
85	1.3281	1.3594	GP32-85	GP33-85
90	1.4063	1.4375	GP32-90	GP33-90
92	1.4375	1.4688	GP32-92	GP33-92
95	1.4844	1.5156	GP32-95	GP33-95
96	1.5000	1.5313	GP32-96	GP33-96
100	1.5625	1.5938	GP32-100	GP33-100
105	1.6406	1.6719	GP32-105	GP33-105
110	1.7187	1.7500	GP32-110	GP33-110
120	1.8750	1.9063	GP32-120	GP33-120
130	2.0312	2.0625	GP32-130	GP33-130

Special No. of Teeth, Bores Size, Material, and Finishes on Request.

*Theoretical



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

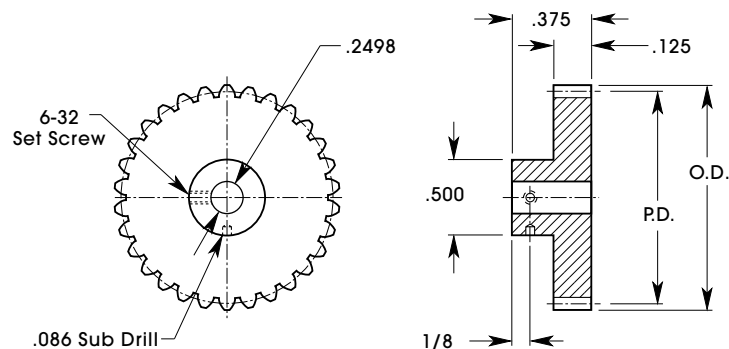
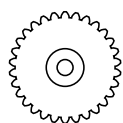
SPUR GEARS PIN TYPE

Pitch 64 • Face 1/8 • Bore .2500 • P.A. 20°

303 Stainless Steel — Clear Passivate

Aluminum 2024T4 — Chromic Acid Anodize

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
34	.5312	.5625	GP34-34	GP35-34
36	.5625	.5938	GP34-36	GP35-36
38	.5938	.6250	GP34-38	GP35-38
40	.6250	.6563	GP34-40	GP35-40
42	.6563	.6875	GP34-42	GP35-42
44	.6875	.7188	GP34-44	GP35-44
46	.7188	.7500	GP34-46	GP35-46
48	.7500	.7813	GP34-48	GP35-48
50	.7813	.8125	GP34-50	GP35-50
55	.8594	.8906	GP34-55	GP35-55
56	.8750	.9063	GP34-56	GP35-56
60	.9375	.9688	GP34-60	GP35-60
64	1.0000	1.0313	GP34-64	GP35-64
65	1.0156	1.0469	GP34-65	GP35-65
70	1.0938	1.1250	GP34-70	GP35-70
72	1.1250	1.1563	GP34-72	GP35-72
75	1.1719	1.2031	GP34-75	GP35-75
80	1.2500	1.2813	GP34-80	GP35-80
84	1.3125	1.3438	GP34-84	GP35-84
85	1.3281	1.3594	GP34-85	GP35-85
90	1.4063	1.4375	GP34-90	GP35-90
92	1.4375	1.4688	GP34-92	GP35-92
95	1.4844	1.5156	GP34-95	GP35-95
96	1.5000	1.5313	GP34-96	GP35-96
100	1.5625	1.5938	GP34-100	GP35-100
105	1.6406	1.6719	GP34-105	GP35-105
110	1.7187	1.7500	GP34-110	GP35-110
120	1.8750	1.9063	GP34-120	GP35-120
130	2.0312	2.0625	GP34-130	GP35-130

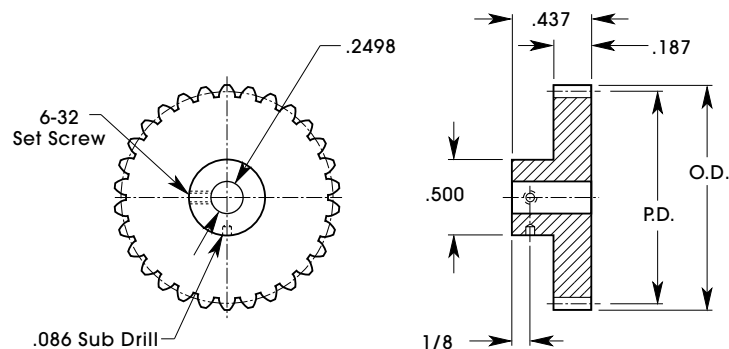
Special No. of Teeth, Bore Size, Material, and Finishes on Request.
For .2405 Bore Add Prefix X to Catalog Number When Ordering.
*Theoretical

Pitch 64 • Face 3/16 • Bore .2500 • P.A. 20°

303 Stainless Steel — Clear Passivate

Aluminum 2024T4 — Chromic Acid Anodize

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
34	.5312	.5625	GP36-34	GP37-34
36	.5625	.5938	GP36-36	GP37-36
38	.5938	.6250	GP36-38	GP37-38
40	.6250	.6563	GP36-40	GP37-40
42	.6563	.6875	GP36-42	GP37-42
44	.6875	.7188	GP36-44	GP37-44
46	.7188	.7500	GP36-46	GP37-46
48	.7500	.7813	GP36-48	GP37-48
50	.7813	.8125	GP36-50	GP37-50
55	.8594	.8906	GP36-55	GP37-55
56	.8750	.9063	GP36-56	GP37-56
60	.9375	.9688	GP36-60	GP37-60
64	1.0000	1.0313	GP36-64	GP37-64
65	1.0156	1.0469	GP36-65	GP37-65
70	1.0938	1.1250	GP36-70	GP37-70
72	1.1250	1.1563	GP36-72	GP37-72
75	1.1719	1.2031	GP36-75	GP37-75
80	1.2500	1.2813	GP36-80	GP37-80
84	1.3125	1.3438	GP36-84	GP37-84
85	1.3281	1.3594	GP36-85	GP37-85
90	1.4063	1.4375	GP36-90	GP37-90
92	1.4375	1.4688	GP36-92	GP37-92
95	1.4844	1.5156	GP36-95	GP37-95
96	1.5000	1.5313	GP36-96	GP37-96
100	1.5625	1.5938	GP36-100	GP37-100
105	1.6406	1.6719	GP36-105	GP37-105
110	1.7187	1.7500	GP36-110	GP37-110
120	1.8750	1.9063	GP36-120	GP37-120
130	2.0312	2.0625	GP36-130	GP37-130
140	2.1875	2.2188	GP36-140	GP37-140
150	2.3438	2.3750	GP36-150	GP37-150
160	2.5000	2.5313	GP36-160	GP37-160

Special No. of Teeth, Bore Size, Material, and Finishes on Request.
For .2405 Bore Add Prefix X to Catalog Number When Ordering.
*Theoretical

PIN TYPE SPUR GEARS

P.A. 20° • Bore .1250 • Face 1/8 • Pitch 72

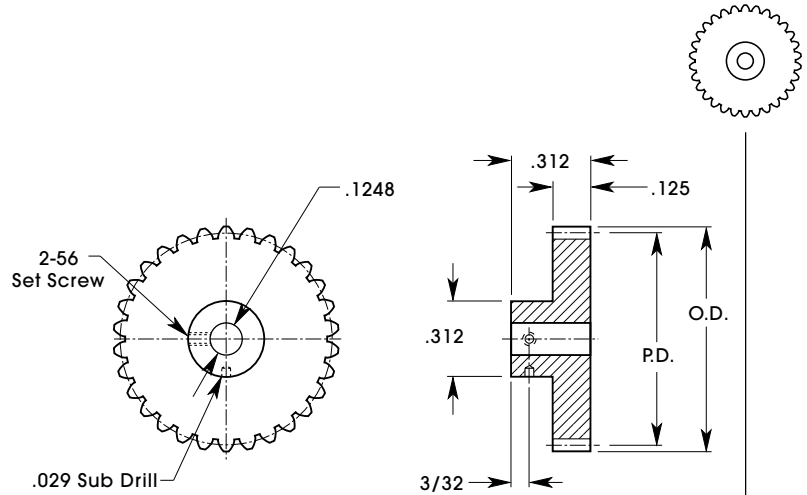
303 Stainless Steel — Clear Passivate
Aluminum 2024T4 — Chromic Acid Anodize

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14.

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
23	.3194	.3472	GP38-23	GP39-23
24	.3333	.3611	GP38-24	GP39-24
25	.3472	.3750	GP38-25	GP39-25
26	.3611	.3889	GP38-26	GP39-26
27	.3750	.4028	GP38-27	GP39-27
28	.3889	.4167	GP38-28	GP39-28
29	.4027	.4306	GP38-29	GP39-29
30	.4166	.4444	GP38-30	GP39-30
32	.4444	.4722	GP38-32	GP39-32
34	.4722	.5000	GP38-34	GP39-34
36	.5000	.5278	GP38-36	GP39-36
38	.5278	.5556	GP38-38	GP39-38
40	.5555	.5833	GP38-40	GP39-40
42	.5833	.6111	GP38-42	GP39-42
44	.6111	.6389	GP38-44	GP39-44
46	.6389	.6667	GP38-46	GP39-46
48	.6667	.6944	GP38-48	GP39-48
50	.6944	.7222	GP38-50	GP39-50
55	.7639	.7917	GP38-55	GP39-55
56	.7778	.8056	GP38-56	GP39-56
60	.8333	.8611	GP38-60	GP39-60
64	.8889	.9167	GP38-64	GP39-64
65	.9028	.9306	GP38-65	GP39-65
70	.9722	1.0000	GP38-70	GP39-70
72	1.0000	1.0278	GP38-72	GP39-72
75	1.0416	1.0694	GP38-75	GP39-75
80	1.1111	1.1389	GP38-80	GP39-80
84	1.1666	1.1944	GP38-84	GP39-84
85	1.1805	1.2083	GP38-85	GP39-85
90	1.2500	1.2778	GP38-90	GP39-90
92	1.2778	1.3056	GP38-92	GP39-92
95	1.3194	1.3472	GP38-95	GP39-95
96	1.3333	1.3611	GP38-96	GP39-96
100	1.3889	1.4167	GP38-100	GP39-100
110	1.5278	1.5556	GP38-110	GP39-110
120	1.6666	1.6944	GP38-120	GP39-120

Special No. of Teeth, Bore Size, Material, and Finishes on Request.
For .1200 Bore Add Prefix SX to Catalog Number When Ordering.
For .1562 Bore Add Prefix SXX to Catalog Number When Ordering.

*Theoretical



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14.
QUANTITY DISCOUNTS AVAILABLE.

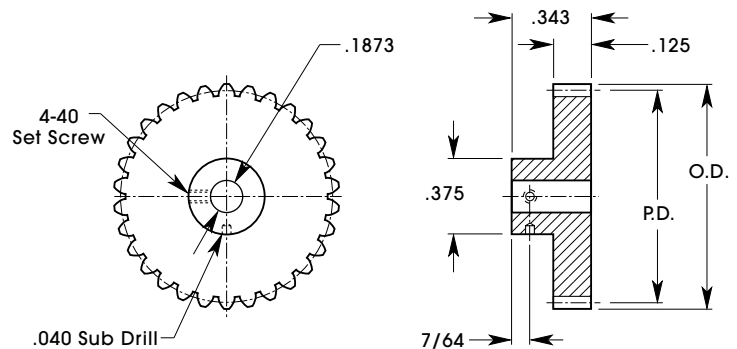
NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
28	.3889	.4167	GP40-28	GP41-28
29	.4027	.4306	GP40-29	GP41-29
30	.4166	.4444	GP40-30	GP41-30
32	.4444	.4722	GP40-32	GP41-32
34	.4722	.5000	GP40-34	GP41-34
36	.5000	.5278	GP40-36	GP41-36
38	.5278	.5556	GP40-38	GP41-38
40	.5555	.5833	GP40-40	GP41-40
42	.5833	.6111	GP40-42	GP41-42
44	.6111	.6389	GP40-44	GP41-44
46	.6389	.6667	GP40-46	GP41-46
48	.6667	.6944	GP40-48	GP41-48
50	.6944	.7222	GP40-50	GP41-50
55	.7639	.7917	GP40-55	GP41-55
56	.7778	.8056	GP40-56	GP41-56
60	.8333	.8611	GP40-60	GP41-60
64	.8889	.9167	GP40-64	GP41-64
65	.9028	.9306	GP40-65	GP41-65
70	.9722	1.0000	GP40-70	GP41-70
72	1.0000	1.0278	GP40-72	GP41-72
75	1.0416	1.0694	GP40-75	GP41-75
80	1.1111	1.1389	GP40-80	GP41-80
84	1.1666	1.1944	GP40-84	GP41-84
85	1.1805	1.2083	GP40-85	GP41-85
90	1.2500	1.2778	GP40-90	GP41-90
92	1.2778	1.3056	GP40-92	GP41-92
95	1.3194	1.3472	GP40-95	GP41-95
96	1.3333	1.3611	GP40-96	GP41-96
100	1.3889	1.4167	GP40-100	GP41-100
110	1.5278	1.5556	GP40-110	GP41-110
120	1.6666	1.6944	GP40-120	GP41-120
130	1.8055	1.8333	GP40-130	GP41-130
140	1.9444	1.9722	GP40-140	GP41-140
150	2.0833	2.1111	GP40-150	GP41-150
160	2.2222	2.2500	GP40-160	GP41-160

Special No. of Teeth, Bore Size, Material, and Finishes on Request.

*Theoretical

P.A. 20° • Bore .1875 • Face 1/8 • Pitch 72

303 Stainless Steel — Clear Passivate
Aluminum 2024T4 — Chromic Acid Anodize



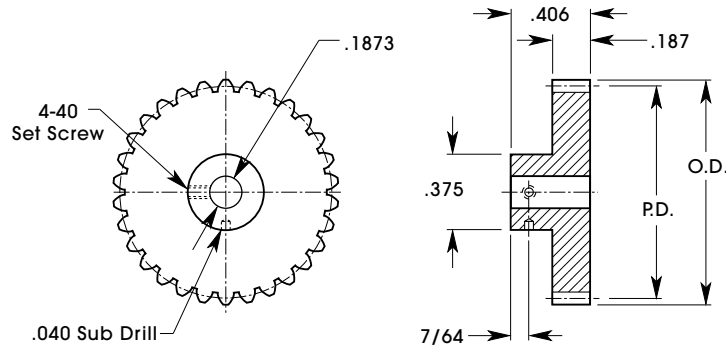
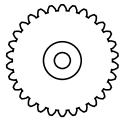
	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

SPUR GEARS PIN TYPE

Pitch 72 • Face 3/16 • Bore .1875 • P.A. 20°

303 Stainless Steel — Clear Passivate

Aluminum 2024T4 — Chromic Acid Anodize



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14.

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
28	.3889	.4167	GP42-28	GP43-28
29	.4027	.4306	GP42-29	GP43-29
30	.4166	.4444	GP42-30	GP43-30
32	.4444	.4722	GP42-32	GP43-32
34	.4722	.5000	GP42-34	GP43-34
36	.5000	.5278	GP42-36	GP43-36
38	.5278	.5556	GP42-38	GP43-38
40	.5555	.5833	GP42-40	GP43-40
42	.5833	.6111	GP42-42	GP43-42
44	.6111	.6389	GP42-44	GP43-44
46	.6389	.6667	GP42-46	GP43-46
48	.6667	.6944	GP42-48	GP43-48
50	.6944	.7222	GP42-50	GP43-50
55	.7639	.7917	GP42-55	GP43-55
56	.7778	.8056	GP42-56	GP43-56
60	.8333	.8611	GP42-60	GP43-60
64	.8889	.9167	GP42-64	GP43-64
65	.9028	.9306	GP42-65	GP43-65
70	.9722	1.0000	GP42-70	GP43-70
72	1.0000	1.0278	GP42-72	GP43-72
75	1.0416	1.0694	GP42-75	GP43-75
80	1.1111	1.1389	GP42-80	GP43-80
84	1.1666	1.1944	GP42-84	GP43-84
85	1.1805	1.2083	GP42-85	GP43-85
90	1.2500	1.2778	GP42-90	GP43-90
92	1.2778	1.3056	GP42-92	GP43-92
95	1.3194	1.3472	GP42-95	GP43-95
96	1.3333	1.3611	GP42-96	GP43-96
100	1.3889	1.4167	GP42-100	GP43-100
110	1.5278	1.5556	GP42-110	GP43-110
120	1.6666	1.6944	GP42-120	GP43-120
130	1.8055	1.8333	GP42-130	GP43-130
140	1.9444	1.9722	GP42-140	GP43-140
150	2.0833	2.1111	GP42-150	GP43-150
160	2.2222	2.2500	GP42-160	GP43-160
170	2.3611	2.3889	GP42-170	GP43-170
180	2.5000	2.5278	GP42-180	GP43-180

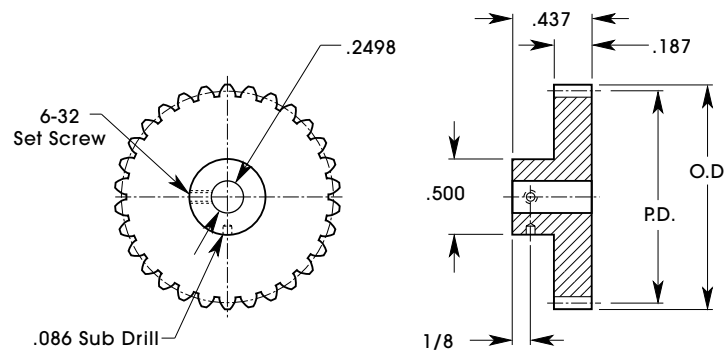
Special No. of Teeth, Bore Size, Material, and Finishes on Request.

*Theoretical

Pitch 72 • Face 3/16 • Bore .2500 • P.A. 20°

303 Stainless Steel — Clear Passivate

Aluminum 2024T4 — Chromic Acid Anodize



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
38	.5278	.5556	GP44-38	GP45-38
40	.5555	.5833	GP44-40	GP45-40
42	.5833	.6111	GP44-42	GP45-42
44	.6111	.6389	GP44-44	GP45-44
46	.6389	.6667	GP44-46	GP45-46
48	.6667	.6944	GP44-48	GP45-48
50	.6944	.7222	GP44-50	GP45-50
55	.7639	.7917	GP44-55	GP45-55
56	.7778	.8056	GP44-56	GP45-56
60	.8333	.8611	GP44-60	GP45-60
64	.8889	.9167	GP44-64	GP45-64
65	.9028	.9306	GP44-65	GP45-65
70	.9722	1.0000	GP44-70	GP45-70
72	1.0000	1.0278	GP44-72	GP45-72
75	1.0416	1.0694	GP44-75	GP45-75
80	1.1111	1.1389	GP44-80	GP45-80
84	1.1666	1.1944	GP44-84	GP45-84
85	1.1805	1.2083	GP44-85	GP45-85
90	1.2500	1.2778	GP44-90	GP45-90
92	1.2778	1.3056	GP44-92	GP45-92
95	1.3194	1.3472	GP44-95	GP45-95
96	1.3333	1.3611	GP44-96	GP45-96
100	1.3889	1.4167	GP44-100	GP45-100
110	1.5278	1.5556	GP44-110	GP45-110
120	1.6666	1.6944	GP44-120	GP45-120
130	1.8055	1.8333	GP44-130	GP45-130
140	1.9444	1.9722	GP44-140	GP45-140
150	2.0833	2.1111	GP44-150	GP45-150
160	2.2222	2.2500	GP44-160	GP45-160
170	2.3611	2.3889	GP44-170	GP45-170
180	2.5000	2.5278	GP44-180	GP45-180

Special No. of Teeth, Bore Size, Material, and Finishes on Request.

For .2405 Bore Add Prefix X to Catalog Number When Ordering.

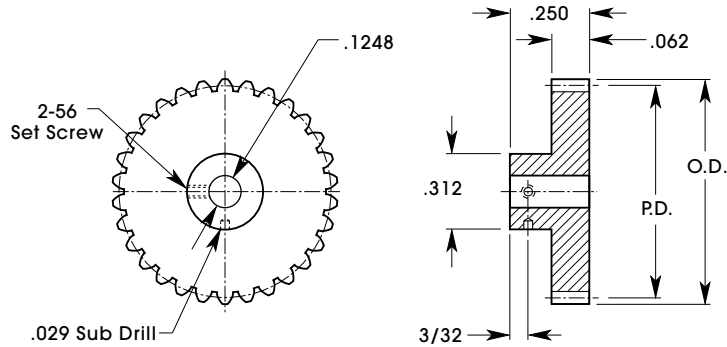
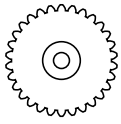
*Theoretical

SPUR GEARS PIN TYPE

Pitch 96 • Face 1/16 • Bore .1250 • P.A. 20°

303 Stainless Steel — Clear Passivate

Aluminum 2024T4 — Chromic Acid Anodize



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
32	.3333	.3542	GP50-32	GP51-32
33	.3437	.3646	GP50-33	GP51-33
34	.3541	.3750	GP50-34	GP51-34
35	.3646	.3854	GP50-35	GP51-35
36	.3750	.3958	GP50-36	GP51-36
37	.3854	.4063	GP50-37	GP51-37
38	.3958	.4167	GP50-38	GP51-38
39	.4062	.4271	GP50-39	GP51-39
40	.4166	.4375	GP50-40	GP51-40
44	.4583	.4792	GP50-44	GP51-44
46	.4791	.5000	GP50-46	GP51-46
48	.5000	.5208	GP50-48	GP51-48
50	.5208	.5417	GP50-50	GP51-50
52	.5417	.5625	GP50-52	GP51-52
54	.5625	.5833	GP50-54	GP51-54
55	.5729	.5938	GP50-55	GP51-55
56	.5833	.6042	GP50-56	GP51-56
60	.6250	.6458	GP50-60	GP51-60
64	.6666	.6875	GP50-64	GP51-64
65	.6771	.6979	GP50-65	GP51-65
70	.7291	.7500	GP50-70	GP51-70
72	.7500	.7708	GP50-72	GP51-72
75	.7812	.8021	GP50-75	GP51-75
80	.8333	.8542	GP50-80	GP51-80
82	.8541	.8750	GP50-82	GP51-82
85	.8854	.9063	GP50-85	GP51-85
90	.9375	.9583	GP50-90	GP51-90
95	.9896	1.0104	GP50-95	GP51-95
100	1.0416	1.0625	GP50-100	GP51-100
105	1.0938	1.1146	GP50-105	GP51-105
110	1.1458	1.1667	GP50-110	GP51-110
120	1.2500	1.2708	GP50-120	GP51-120
130	1.3541	1.3750	GP50-130	GP51-130
140	1.4582	1.4792	GP50-140	GP51-140
150	1.5625	1.5833	GP50-150	GP51-150
160	1.6666	1.6875	GP50-160	GP51-160
170	1.7708	1.7917	GP50-170	GP51-170
180	1.8750	1.8958	GP50-180	GP51-180

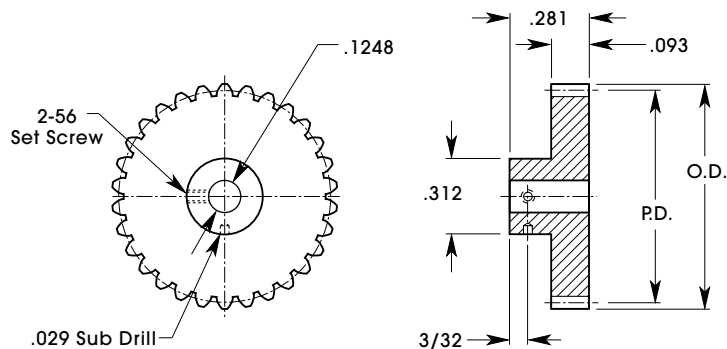
Special No. of Teeth, Bore Size, Material, and Finishes on Request.
For .1200 Bore Add Prefix SX to Catalog Number When Ordering.
For .1562 Bore Add Prefix SXX to Catalog Number When Ordering

*Theoretical

Pitch 96 • Face 3/32 • Bore .1250 • P.A. 20°

303 Stainless Steel — Clear Passivate

Aluminum 2024T4 — Chromic Acid Anodize



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
32	.3333	.3542	GP52-32	GP53-32
33	.3437	.3646	GP52-33	GP53-33
34	.3541	.3750	GP52-34	GP53-34
35	.3646	.3854	GP52-35	GP53-35
36	.3750	.3958	GP52-36	GP53-36
37	.3854	.4063	GP52-37	GP53-37
38	.3958	.4167	GP52-38	GP53-38
39	.4062	.4271	GP52-39	GP53-39
40	.4166	.4375	GP52-40	GP53-40
44	.4583	.4792	GP52-44	GP53-44
46	.4791	.5000	GP52-46	GP53-46
48	.5000	.5208	GP52-48	GP53-48
50	.5208	.5417	GP52-50	GP53-50
52	.5417	.5625	GP52-52	GP53-52
54	.5625	.5833	GP52-54	GP53-54
55	.5729	.5938	GP52-55	GP53-55
56	.5833	.6042	GP52-56	GP53-56
60	.6250	.6458	GP52-60	GP53-60
64	.6666	.6875	GP52-64	GP53-64
65	.6771	.6979	GP52-65	GP53-65
70	.7291	.7500	GP52-70	GP53-70
72	.7500	.7708	GP52-72	GP53-72
75	.7812	.8021	GP52-75	GP53-75
80	.8333	.8542	GP52-80	GP53-80
82	.8541	.8750	GP52-82	GP53-82
85	.8854	.9063	GP52-85	GP53-85
90	.9375	.9583	GP52-90	GP53-90
95	.9896	1.0104	GP52-95	GP53-95
100	1.0416	1.0625	GP52-100	GP53-100
105	1.0938	1.1146	GP52-105	GP53-105
110	1.1458	1.1667	GP52-110	GP53-110
120	1.2500	1.2708	GP52-120	GP53-120
130	1.3541	1.3750	GP52-130	GP53-130
140	1.4582	1.4792	GP52-140	GP53-140
150	1.5625	1.5833	GP52-150	GP53-150
160	1.6666	1.6875	GP52-160	GP53-160
170	1.7708	1.7917	GP52-170	GP53-170
180	1.8750	1.8958	GP52-180	GP53-180

Special No. of Teeth, Bore Size, Material, and Finishes on Request.
For .1200 Bore Add Prefix SX to Catalog Number When Ordering.
For .1562 Bore Add Prefix SXX to Catalog Number When Ordering

*Theoretical

PIN TYPE SPUR GEARS

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.

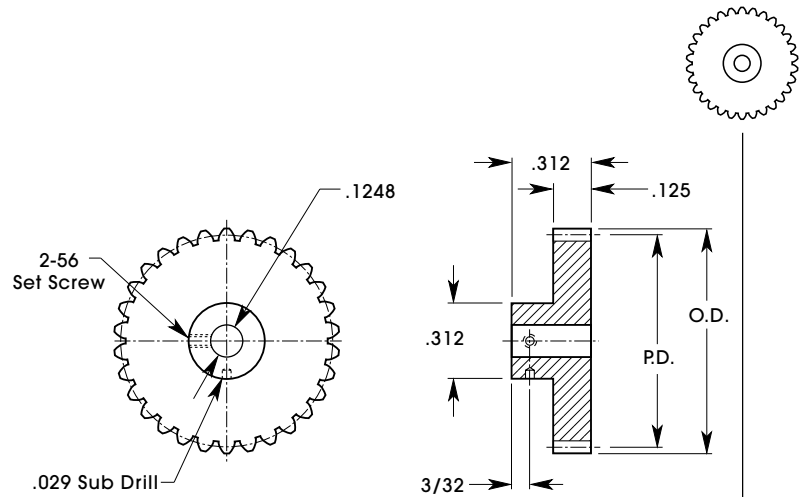
P.A. 20° • Bore .1250 • Face 1/8 • Pitch 96

303 Stainless Steel — Clear Passivate
Aluminum 2024T4 — Chromic Acid Anodize

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
32	.3333	.3542	GP54-32	GP55-32
33	.3437	.3646	GP54-33	GP55-33
34	.3541	.3750	GP54-34	GP55-34
35	.3646	.3854	GP54-35	GP55-35
36	.3750	.3958	GP54-36	GP55-36
37	.3854	.4063	GP54-37	GP55-37
38	.3958	.4167	GP54-38	GP55-38
39	.4062	.4271	GP54-39	GP55-39
40	.4166	.4375	GP54-40	GP55-40
44	.4583	.4792	GP54-44	GP55-44
46	.4791	.5000	GP54-46	GP55-46
48	.5000	.5208	GP54-48	GP55-48
50	.5208	.5417	GP54-50	GP55-50
52	.5417	.5625	GP54-52	GP55-52
54	.5625	.5833	GP54-54	GP55-54
55	.5729	.5938	GP54-55	GP55-55
56	.5833	.6042	GP54-56	GP55-56
60	.6250	.6458	GP54-60	GP55-60
64	.6666	.6875	GP54-64	GP55-64
65	.6771	.6979	GP54-65	GP55-65
70	.7291	.7500	GP54-70	GP55-70
72	.7500	.7708	GP54-72	GP55-72
75	.7812	.8021	GP54-75	GP55-75
80	.8333	.8542	GP54-80	GP55-80
82	.8541	.8750	GP54-82	GP55-82
85	.8854	.9063	GP54-85	GP55-85
90	.9375	.9583	GP54-90	GP55-90
95	.9896	1.0104	GP54-95	GP55-95
100	1.0416	1.0625	GP54-100	GP55-100
105	1.0938	1.1146	GP54-105	GP55-105
110	1.1458	1.1667	GP54-110	GP55-110
120	1.2500	1.2708	GP54-120	GP55-120
130	1.3541	1.3750	GP54-130	GP55-130
140	1.4582	1.4792	GP54-140	GP55-140
150	1.5625	1.5833	GP54-150	GP55-150

Special No. of Teeth, Bore Size, Material, and Finishes on Request.
For .1200 Bore Add Prefix SX to Catalog Number When Ordering.
For .1562 Bore Add Prefix SXX to Catalog Number When Ordering

*Theoretical



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.

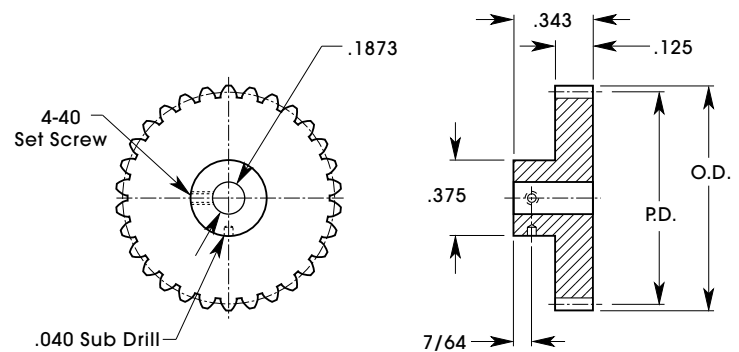
P.A. 20° • Bore .1875 • Face 1/8 • Pitch 96

303 Stainless Steel — Clear Passivate
Aluminum 2024T4 — Chromic Acid Anodize

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
32	.3333	.3542	GP56-32	GP57-32
33	.3437	.3646	GP56-33	GP57-33
34	.3541	.3750	GP56-34	GP57-34
35	.3646	.3854	GP56-35	GP57-35
36	.3750	.3958	GP56-36	GP57-36
37	.3854	.4063	GP56-37	GP57-37
38	.3958	.4167	GP56-38	GP57-38
39	.4062	.4271	GP56-39	GP57-39
40	.4166	.4375	GP56-40	GP57-40
44	.4583	.4792	GP56-44	GP57-44
46	.4791	.5000	GP56-46	GP57-46
48	.5000	.5208	GP56-48	GP57-48
50	.5208	.5417	GP56-50	GP57-50
52	.5417	.5625	GP56-52	GP57-52
54	.5625	.5833	GP56-54	GP57-54
55	.5729	.5938	GP56-55	GP57-55
56	.5833	.6042	GP56-56	GP57-56
60	.6250	.6458	GP56-60	GP57-60
64	.6666	.6875	GP56-64	GP57-64
65	.6771	.6979	GP56-65	GP57-65
70	.7291	.7500	GP56-70	GP57-70
72	.7500	.7708	GP56-72	GP57-72
75	.7812	.8021	GP56-75	GP57-75
80	.8333	.8542	GP56-80	GP57-80
82	.8541	.8750	GP56-82	GP57-82
85	.8854	.9063	GP56-85	GP57-85
90	.9375	.9583	GP56-90	GP57-90
95	.9896	1.0104	GP56-95	GP57-95
100	1.0416	1.0625	GP56-100	GP57-100
105	1.0938	1.1146	GP56-105	GP57-105
110	1.1458	1.1667	GP56-110	GP57-110
120	1.2500	1.2708	GP56-120	GP57-120
130	1.3541	1.3750	GP56-130	GP57-130
140	1.4582	1.4792	GP56-140	GP57-140
150	1.5625	1.5833	GP56-150	GP57-150
160	1.6666	1.6875	GP56-160	GP57-160
170	1.7708	1.7917	GP56-170	GP57-170
180	1.8750	1.8958	GP56-180	GP57-180

Special No. of Teeth, Bore Size, Material, and Finishes on Request.

*Theoretical



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

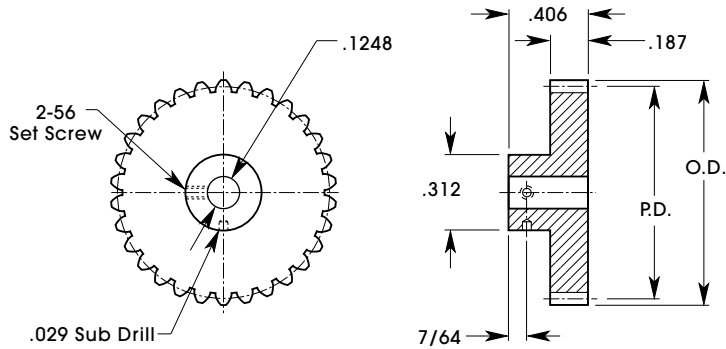
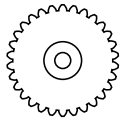
SPUR GEARS PIN TYPE

Pitch 96 • Face 3/16 • Bore .1250 • P.A. 20°

303 Stainless Steel — Clear Passivate

Aluminum 2024T4 — Chromic Acid Anodize

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14.



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
32	.3333	.3542	GP58-32	GP59-32
33	.3437	.3646	GP58-33	GP59-33
34	.3541	.3750	GP58-34	GP59-34
35	.3646	.3854	GP58-35	GP59-35
36	.3750	.3958	GP58-36	GP59-36
37	.3854	.4063	GP58-37	GP59-37
38	.3958	.4167	GP58-38	GP59-38
39	.4062	.4271	GP58-39	GP59-39
40	.4166	.4375	GP58-40	GP59-40
44	.4583	.4792	GP58-44	GP59-44
46	.4791	.5000	GP58-46	GP59-46
48	.5000	.5208	GP58-48	GP59-48
50	.5208	.5417	GP58-50	GP59-50
52	.5417	.5625	GP58-52	GP59-52
54	.5625	.5833	GP58-54	GP59-54
55	.5729	.5938	GP58-55	GP59-55
56	.5833	.6042	GP58-56	GP59-56
60	.6250	.6458	GP58-60	GP59-60
64	.6666	.6875	GP58-64	GP59-64
65	.6771	.6979	GP58-65	GP59-65
70	.7291	.7500	GP58-70	GP59-70
72	.7500	.7708	GP58-72	GP59-72
75	.7812	.8021	GP58-75	GP59-75
80	.8333	.8542	GP58-80	GP59-80
82	.8541	.8750	GP58-82	GP59-82
85	.8854	.9063	GP58-85	GP59-85
90	.9375	.9583	GP58-90	GP59-90
95	.9896	1.0104	GP58-95	GP59-95
100	1.0416	1.0625	GP58-100	GP59-100
105	1.0938	1.1146	GP58-105	GP59-105
110	1.1458	1.1667	GP58-110	GP59-110
120	1.2500	1.2708	GP58-120	GP59-120
130	1.3541	1.3750	GP58-130	GP59-130
140	1.4582	1.4792	GP58-140	GP59-140
150	1.5625	1.5833	GP58-150	GP59-150
160	1.6666	1.6875	GP58-160	GP59-160
170	1.7708	1.7917	GP58-170	GP59-170
180	1.8750	1.8958	GP58-180	GP59-180

Special No. of Teeth, Bore Size, Material, and Finishes on Request.

For .1200 Bore Add Prefix SX to Catalog Number When Ordering.

For .1562 Bore Add Prefix SXX to Catalog Number When Ordering

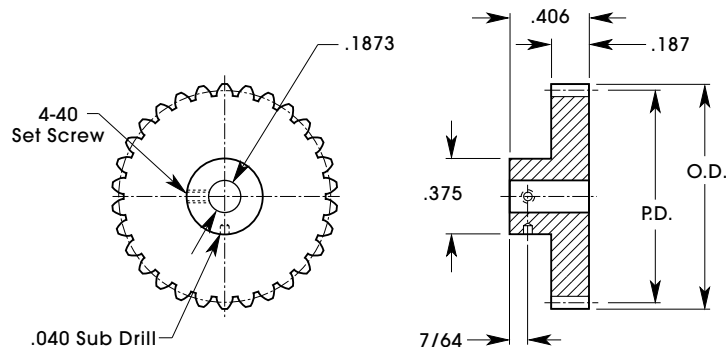
*Theoretical

Pitch 96 • Face 3/16 • Bore .1875 • P.A. 20°

303 Stainless Steel — Clear Passivate

Aluminum 2024T4 — Chromic Acid Anodize

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14.
QUANTITY DISCOUNTS AVAILABLE.



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
32	.3333	.3542	GP60-32	GP61-32
33	.3437	.3646	GP60-33	GP61-33
34	.3541	.3750	GP60-34	GP61-34
35	.3646	.3854	GP60-35	GP61-35
36	.3750	.3958	GP60-36	GP61-36
37	.3854	.4063	GP60-37	GP61-37
38	.3958	.4167	GP60-38	GP61-38
39	.4062	.4271	GP60-39	GP61-39
40	.4166	.4375	GP60-40	GP61-40
44	.4583	.4792	GP60-44	GP61-44
46	.4791	.5000	GP60-46	GP61-46
48	.5000	.5208	GP60-48	GP61-48
50	.5208	.5417	GP60-50	GP61-50
52	.5417	.5625	GP60-52	GP61-52
54	.5625	.5833	GP60-54	GP61-54
55	.5729	.5938	GP60-55	GP61-55
56	.5833	.6042	GP60-56	GP61-56
60	.6250	.6458	GP60-60	GP61-60
64	.6666	.6875	GP60-64	GP61-64
65	.6771	.6979	GP60-65	GP61-65
70	.7291	.7500	GP60-70	GP61-70
72	.7500	.7708	GP60-72	GP61-72
75	.7812	.8021	GP60-75	GP61-75
80	.8333	.8542	GP60-80	GP61-80
82	.8541	.8750	GP60-82	GP61-82
85	.8854	.9063	GP60-85	GP61-85
90	.9375	.9583	GP60-90	GP61-90
95	.9896	1.0104	GP60-95	GP61-95
100	1.0416	1.0625	GP60-100	GP61-100
105	1.0938	1.1146	GP60-105	GP61-105
110	1.1458	1.1667	GP60-110	GP61-110
120	1.2500	1.2708	GP60-120	GP61-120
130	1.3541	1.3750	GP60-130	GP61-130
140	1.4582	1.4792	GP60-140	GP61-140
150	1.5625	1.5833	GP60-150	GP61-150
160	1.6666	1.6875	GP60-160	GP61-160
170	1.7708	1.7917	GP60-170	GP61-170
180	1.8750	1.8958	GP60-180	GP61-180

Special No. of Teeth, Bore Size, Material, and Finishes on Request.

*Theoretical

PIN TYPE SPUR GEARS

P.A. 20° • Bore .1250 • Face 3/32 • Pitch 120

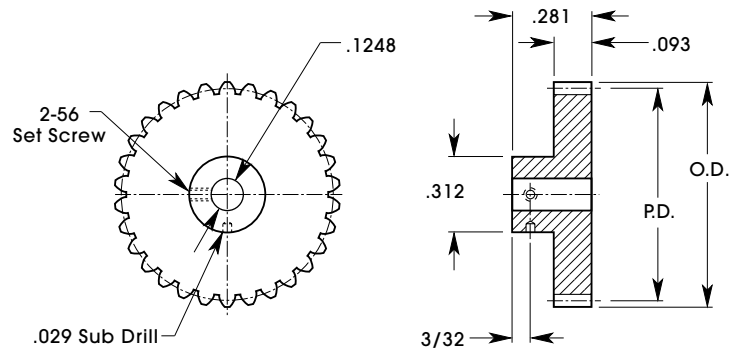
303 Stainless Steel — Clear Passivate
Aluminum 2024T4 — Chromic Acid Anodize

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14.
QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
38	.3167	.3333	GP62-38	GP63-38
40	.3333	.3500	GP62-40	GP63-40
45	.3750	.3917	GP62-45	GP63-45
48	.4000	.4167	GP62-48	GP63-48
50	.4166	.4333	GP62-50	GP63-50
55	.4583	.4750	GP62-55	GP63-55
60	.5000	.5167	GP62-60	GP63-60
65	.5416	.5583	GP62-65	GP63-65
70	.5833	.6000	GP62-70	GP63-70
72	.6000	.6167	GP62-72	GP63-72
75	.6250	.6417	GP62-75	GP63-75
80	.6666	.6833	GP62-80	GP63-80
85	.7083	.7250	GP62-85	GP63-85
90	.7500	.7667	GP62-90	GP63-90
95	.7917	.8033	GP62-95	GP63-95
96	.8000	.8167	GP62-96	GP63-96
100	.8333	.8500	GP62-100	GP63-100
110	.9166	.9333	GP62-110	GP63-110
120	1.0000	1.0167	GP62-120	GP63-120
130	1.0833	1.1000	GP62-130	GP63-130

Special No. of Teeth, Bore Size, Material, and Finishes on Request.
For .1200 Bore Add Prefix SX to Catalog Number When Ordering.
For .1562 Bore Add Prefix SXX to Catalog Number When Ordering

*Theoretical



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

CLAMP TYPE SPUR GEARS

P.A. 20° • Bore .2500 • Face 1/8 • Pitch 24

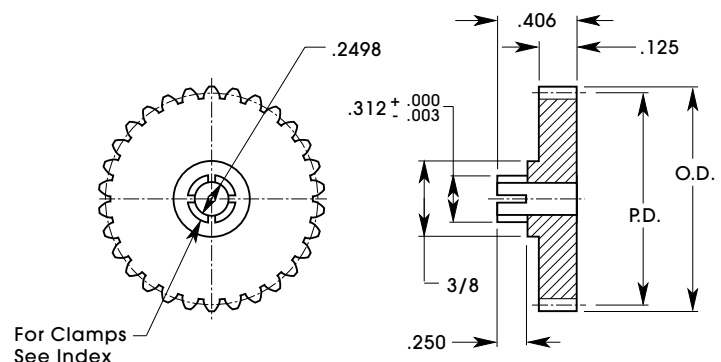
303 Stainless Steel — Clear Passivate
Aluminum 2024T4 — Chromic Acid Anodize

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14.
QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
14	.5833	.6666	GC36-14	GC37-14
15	.6250	.7083	GC36-15	GC37-15
16	.6666	.7500	GC36-16	GC37-16
18	.7500	.8333	GC36-18	GC37-18
20	.8333	.9166	GC36-20	GC37-20
21	.8750	.9583	GC36-21	GC37-21
22	.9166	1.0000	GC36-22	GC37-22
24	1.0000	1.0833	GC36-24	GC37-24
30	1.2500	1.3333	GC36-30	GC37-30
36	1.5000	1.5833	GC36-36	GC37-36
42	1.7500	1.8333	GC36-42	GC37-42
48	2.0000	2.0833	GC36-48	GC37-48
54	2.2500	2.3333	GC36-54	GC37-54
60	2.5000	2.5833	GC36-60	GC37-60
66	2.7500	2.8333	GC36-66	GC37-66

Special No. of Teeth, Bores Size, Material, and Finishes on Request.

*Theoretical



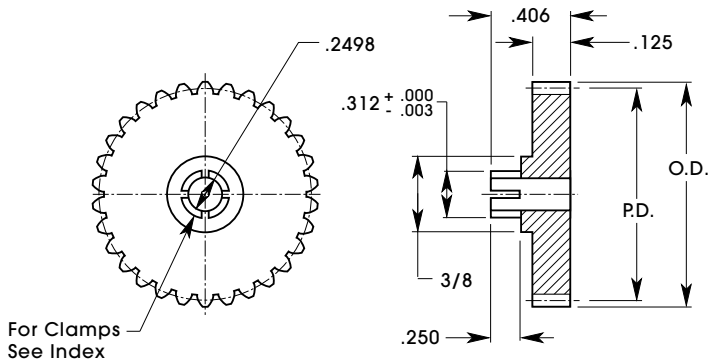
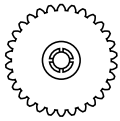
	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

SPUR GEARS *CLAMP TYPE*

Pitch 32 • Face 1/8 • Bore .2500 • P.A. 20°

303 Stainless Steel — Clear Passivate

Aluminum 2024T4 — Chromic Acid Anodize



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.

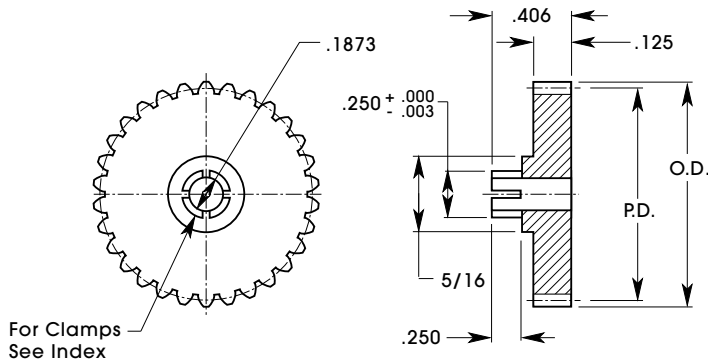
NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
18	.5625	.6250	GC10-18	GC11-18
20	.6250	.6875	GC10-20	GC11-20
22	.6875	.7500	GC10-22	GC11-22
24	.7500	.8125	GC10-24	GC11-24
26	.8125	.8750	GC10-26	GC11-26
28	.8750	.9375	GC10-28	GC11-28
30	.9375	1.0000	GC10-30	GC11-30
32	1.0000	1.0625	GC10-32	GC11-32
36	1.1250	1.1875	GC10-36	GC11-36
40	1.2500	1.3125	GC10-40	GC11-40
48	1.5000	1.5625	GC10-48	GC11-48
56	1.7500	1.8125	GC10-56	GC11-56
64	2.0000	2.0625	GC10-64	GC11-64
72	2.2500	2.3125	GC10-72	GC11-72
80	2.5000	2.5625	GC10-80	GC11-80
88	2.7500	2.8125	GC10-88	GC11-88
96	3.0000	3.0625	GC10-96	GC11-96
112	3.5000	3.5625	GC10-112	GC11-112
128	4.0000	4.0625	GC10-128	GC11-128

Special No. of Teeth, Bore Size, Material, and Finishes on Request.
For .2405 Bore Add Prefix X to Catalog Number When Ordering
*Theoretical

Pitch 48 • Face 1/8 • Bore .1875 • P.A. 20°

303 Stainless Steel — Clear Passivate

Aluminum 2024T4 — Chromic Acid Anodize



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
21	.4375	.4792	GC12-21	GC13-21
22	.4583	.5000	GC12-22	GC13-22
23	.4792	.5208	GC12-23	GC13-23
24	.5000	.5417	GC12-24	GC13-24
25	.5208	.5625	GC12-25	GC13-25
26	.5416	.5833	GC12-26	GC13-26
27	.5625	.6042	GC12-27	GC13-27
28	.5833	.6250	GC12-28	GC13-28
29	.6042	.6458	GC12-29	GC13-29
30	.6250	.6667	GC12-30	GC13-30
32	.6667	.7083	GC12-32	GC13-32
34	.7083	.7500	GC12-34	GC13-34
36	.7500	.7917	GC12-36	GC13-36
38	.7917	.8333	GC12-38	GC13-38
40	.8333	.8750	GC12-40	GC13-40
42	.8750	.9167	GC12-42	GC13-42
44	.9167	.9583	GC12-44	GC13-44
46	.9583	1.0000	GC12-46	GC13-46
48	1.0000	1.0416	GC12-48	GC13-48
50	1.0417	1.0833	GC12-50	GC13-50
55	1.1458	1.1875	GC12-55	GC13-55
56	1.1667	1.2083	GC12-56	GC13-56
60	1.2500	1.2917	GC22-60	GC23-60
72	1.5000	1.5417	GC12-72	GC13-72
84	1.7500	1.7917	GC12-84	GC13-84
96	2.0000	2.0417	GC12-96	GC13-96

Special No. of Teeth, Bore Size, Material, and Finishes on Request.
*Theoretical

CLAMP TYPE SPUR GEARS

P.A. 20° • Bore .2500 • Face 1/8 • Pitch 48

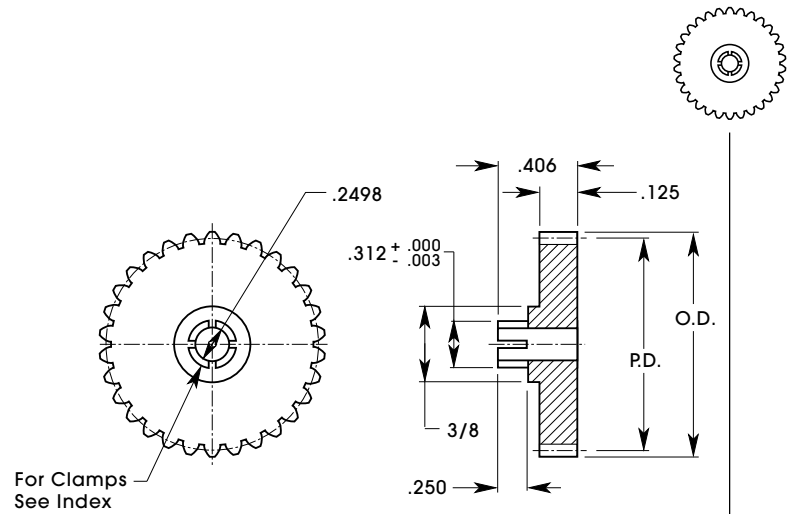
303 Stainless Steel — Clear Passivate
Aluminum 2024T4 — Chromic Acid Anodize

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14.
QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
21	.4375	.4792	GC14-21	GC15-21
22	.4583	.5000	GC14-22	GC15-22
23	.4792	.5208	GC14-23	GC15-23
24	.5000	.5417	GC14-24	GC15-24
25	.5208	.5625	GC14-25	GC15-25
26	.5416	.5833	GC14-26	GC15-26
27	.5625	.6042	GC14-27	GC15-27
28	.5833	.6250	GC14-28	GC15-28
29	.6042	.6458	GC14-29	GC15-29
30	.6250	.6667	GC14-30	GC15-30
32	.6667	.7083	GC14-32	GC15-32
34	.7083	.7500	GC14-34	GC15-34
36	.7500	.7917	GC14-36	GC15-36
38	.7917	.8333	GC14-38	GC15-38
40	.8333	.8750	GC14-40	GC15-40
42	.8750	.9167	GC14-42	GC15-42
44	.9167	.9583	GC14-44	GC15-44
46	.9583	1.0000	GC14-46	GC15-46
48	1.0000	1.0416	GC14-48	GC15-48
50	1.0417	1.0833	GC14-50	GC15-50
55	1.1458	1.1875	GC14-55	GC15-55
56	1.1666	1.2083	GC14-56	GC15-56

Special No. of Teeth, Bores Size, Material, and Finishes on Request.
For .2405 Bore Add Prefix X to Catalog Number When Ordering.

*Theoretical



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

P.A. 20° • Bore .1250 • Face 1/8 • Pitch 64

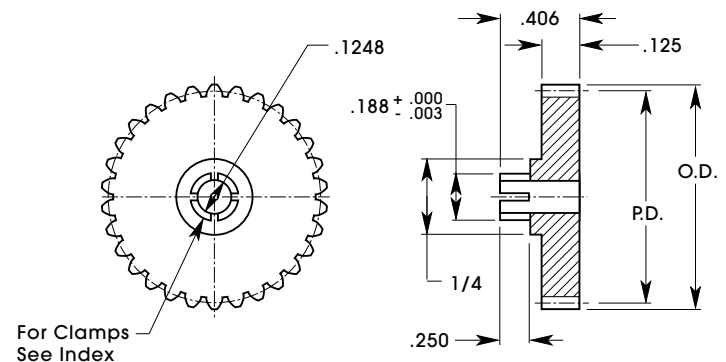
303 Stainless Steel — Clear Passivate
Aluminum 2024T4 — Chromic Acid Anodize

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14.
QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
21	.3281	.3594	GC38-21	GC39-21
22	.3437	.3750	GC38-22	GC39-22
23	.3593	.3906	GC38-23	GC39-23
24	.3750	.4063	GC38-24	GC39-24
25	.3906	.4219	GC38-25	GC39-25
26	.4062	.4375	GC38-26	GC39-26
27	.4219	.4531	GC38-27	GC39-27
28	.4375	.4688	GC38-28	GC39-28
29	.4531	.4844	GC38-29	GC39-29
30	.4687	.5000	GC38-30	GC39-30
32	.5000	.5313	GC38-32	GC39-32
34	.5312	.5625	GC38-34	GC39-34
36	.5625	.5938	GC38-36	GC39-36
38	.5938	.6250	GC38-38	GC39-38
40	.6250	.6563	GC38-40	GC39-40
42	.6563	.6875	GC38-42	GC39-42
44	.6875	.7188	GC38-44	GC39-44
46	.7188	.7500	GC38-46	GC39-46
48	.7500	.7813	GC38-48	GC39-48
50	.7813	.8125	GC38-50	GC39-50
55	.8594	.8906	GC38-55	GC39-55
56	.8750	.9063	GC38-56	GC39-56
60	.9375	.9688	GC38-60	GC39-60

Special No. of Teeth, Bores Size, Material, and Finishes on Request.
For .1200 Bore Add Prefix SX to Catalog Number When Ordering.

Theoretical



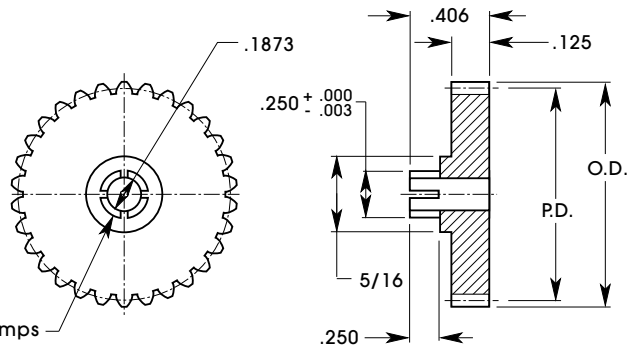
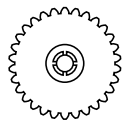
	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

SPUR GEARS *CLAMP TYPE*

Pitch 64 • Face 1/8 • Bore .1875 • P.A. 20°

303 Stainless Steel — Clear Passivate

Aluminum 2024T4 — Chromic Acid Anodize



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
21	.3281	.3594	GC16-21	GC17-21
22	.3437	.3750	GC16-22	GC17-22
23	.3593	.3906	GC16-23	GC17-23
24	.3750	.4063	GC16-24	GC17-24
25	.3906	.4219	GC16-25	GC17-25
26	.4062	.4375	GC16-26	GC17-26
27	.4219	.4531	GC16-27	GC17-27
28	.7375	.4688	GC16-28	GC17-28
29	.4531	.4844	GC16-29	GC17-29
30	.4687	.5000	GC16-30	GC17-30
32	.5000	.5313	GC16-32	GC17-32
34	.5312	.5625	GC16-34	GC17-34
36	.5625	.5938	GC16-36	GC17-36
38	.5938	.6250	GC16-38	GC17-38
40	.6250	.6563	GC16-40	GC17-40
42	.6563	.6875	GC16-42	GC17-42
44	.6875	.7188	GC16-44	GC17-44
46	.7188	.7500	GC16-46	GC17-46
48	.7500	.7813	GC16-48	GC17-48
50	.7813	.8125	GC16-50	GC17-50
55	.8594	.8906	GC16-55	GC17-55
56	.8750	.9063	GC16-56	GC17-56
60	.9375	.9688	GC16-60	GC17-60

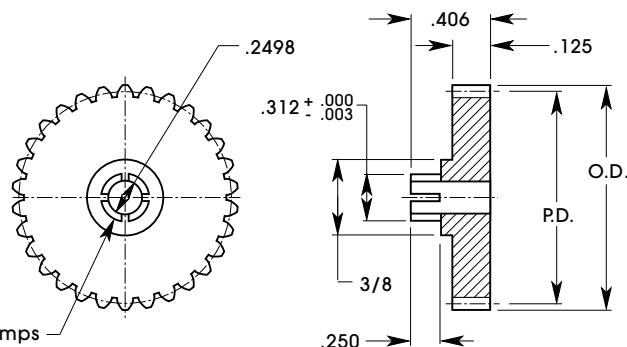
Special No. of Teeth, Bore Size, Material, and Finishes on Request.

Theoretical

Pitch 64 • Face 1/8 • Bore .2500 • P.A. 20°

303 Stainless Steel — Clear Passivate

Aluminum 2024T4 — Chromic Acid Anodize



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
22	.3437	.3750	GC18-22	GC19-22
23	.3593	.3906	GC18-23	GC19-23
24	.3750	.4063	GC18-24	GC19-24
25	.3906	.4219	GC18-25	GC19-25
26	.4062	.4375	GC18-26	GC19-26
27	.4219	.4531	GC18-27	GC19-27
28	.7375	.4688	GC18-28	GC19-28
29	.4531	.4844	GC18-29	GC19-29
30	.4687	.5000	GC18-30	GC19-30
32	.5000	.5313	GC18-32	GC19-32
34	.5312	.5625	GC18-34	GC19-34
36	.5625	.5938	GC18-36	GC19-36
38	.5938	.6250	GC18-38	GC19-38
40	.6250	.6563	GC18-40	GC19-40
42	.6563	.6875	GC18-42	GC19-42
44	.6875	.7188	GC18-44	GC19-44
46	.7188	.7500	GC18-46	GC19-46
48	.7500	.7813	GC18-48	GC19-48
50	.7813	.8125	GC18-50	GC19-50
55	.8594	.8906	GC18-55	GC19-55
56	.8750	.9063	GC18-56	GC19-56
60	.9375	.9688	GC18-60	GC19-60
64	1.0000	1.0313	GC18-64	GC19-64
65	1.0156	1.0469	GC18-65	GC19-65
72	1.1250	1.1563	GC18-72	GC19-72
80	1.2500	1.2813	GC18-80	GC19-80
84	1.3125	1.3438	GC18-84	GC19-84
96	1.5000	1.5313	GC18-96	GC19-96

Special No. of Teeth, Bore Size, Material, and Finishes on Request.

For .2405 Bore Add Prefix X to Catalog Number When Ordering.

Theoretical

CLAMP TYPE SPUR GEARS

P.A. 20° • Bore .1250 • Face 1/8 • Pitch 72

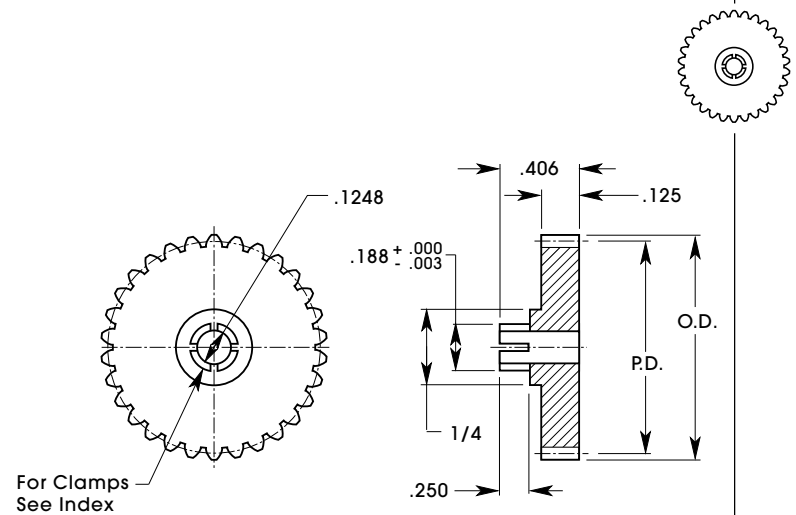
303 Stainless Steel — Clear Passivate
Aluminum 2024T4 — Chromic Acid Anodize

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14.
QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
27	.3750	.4028	GC20-27	GC21-27
28	.3889	.4167	GC20-28	GC21-28
29	.4027	.4306	GC20-29	GC21-29
30	.4166	.4444	GC20-30	GC21-30
32	.4444	.4722	GC20-32	GC21-32
34	.4722	.5000	GC20-34	GC21-34
36	.5000	.5278	GC20-36	GC21-36
38	.5278	.5556	GC20-38	GC21-38
40	.5555	.5833	GC20-40	GC21-40
42	.5833	.6111	GC20-42	GC21-42
44	.6111	.6389	GC20-44	GC21-44
46	.6389	.6667	GC20-46	GC21-46
48	.6667	.6944	GC20-48	GC21-48
50	.6944	.7222	GC20-50	GC21-50
55	.7639	.7917	GC20-55	GC21-55
56	.7778	.8056	GC20-56	GC21-56
60	.8333	.8611	GC20-60	GC21-60
64	.8889	.9167	GC20-64	GC21-64
65	.9028	.9306	GC20-65	GC21-65
70	.9722	1.0000	GC20-70	GC21-70
72	1.0000	1.0278	GC20-72	GC21-72
75	1.0416	1.0694	GC20-75	GC21-75
80	1.1111	1.1389	GC20-80	GC21-80
90	1.2500	1.2778	GC20-90	GC21-90
108	1.5000	1.5278	GC20-108	GC21-108
126	1.7500	1.7778	GC20-126	GC21-126

Special No. of Teeth, Bore Size, Material, and Finishes on Request.
For .1200 Bore Add Prefix SX to Catalog Number When Ordering.

*Theoretical



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

P.A. 20° • Bore .1875 • Face 1/8 • Pitch 72

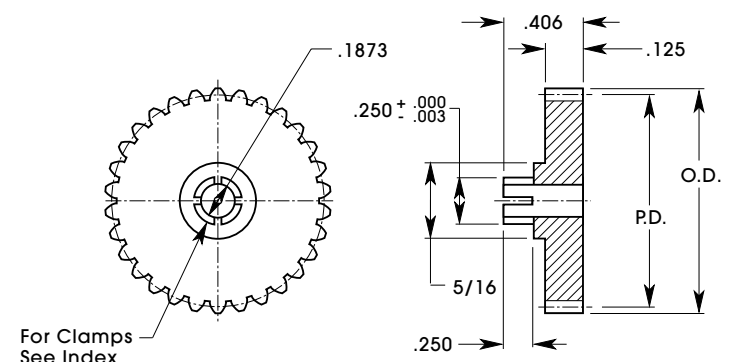
303 Stainless Steel — Clear Passivate
Aluminum 2024T4 — Chromic Acid Anodize

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14.
QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
27	.3750	.4028	GC22-27	GC23-27
28	.3889	.4167	GC22-28	GC23-28
29	.4027	.4306	GC22-29	GC23-29
30	.4166	.4444	GC22-30	GC23-30
32	.4444	.4722	GC22-32	GC23-32
34	.4722	.5000	GC22-34	GC23-34
36	.5000	.5278	GC22-36	GC23-36
38	.5278	.5556	GC22-38	GC23-38
40	.5555	.5833	GC22-40	GC23-40
42	.5833	.6111	GC22-42	GC23-42
44	.6111	.6389	GC22-44	GC23-44
46	.6389	.6667	GC22-46	GC23-46
48	.6667	.6944	GC22-48	GC23-48
50	.6944	.7222	GC22-50	GC23-50
55	.7639	.7917	GC22-55	GC23-55
56	.7778	.8056	GC22-56	GC23-56
60	.8333	.8611	GC22-60	GC23-60
64	.8889	.9167	GC22-64	GC23-64
65	.9028	.9306	GC22-65	GC23-65
70	.9722	1.0000	GC22-70	GC23-70
72	1.0000	1.0278	GC22-72	GC23-72
75	1.0416	1.0694	GC22-75	GC23-75
80	1.1111	1.1389	GC22-80	GC23-80
90	1.2500	1.2778	GC22-90	GC23-90
108	1.5000	1.5278	GC22-108	GC23-108
126	1.7500	1.7778	GC22-126	GC23-126

Special No. of Teeth, Bore Size, Material, and Finishes on Request.

*Theoretical



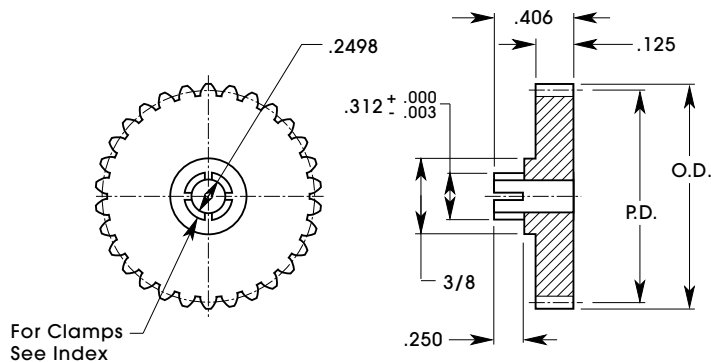
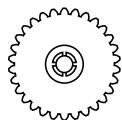
	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

SPUR GEARS CLAMP TYPE

Pitch 72 • Face 1/8 • Bore .2500 • P.A. 20°

303 Stainless Steel — Clear Passivate

Aluminum 2024T4 — Chromic Acid Anodize



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.

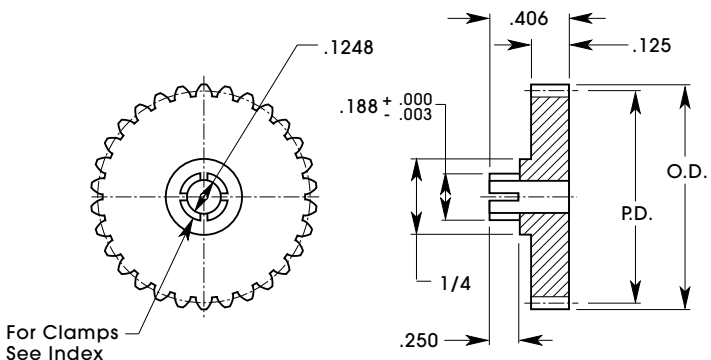
NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
27	.3750	.4028	GC24-27	GC25-27
28	.3889	.4167	GC24-28	GC25-28
29	.4027	.4306	GC24-29	GC25-29
30	.4166	.4444	GC24-30	GC25-30
32	.4444	.4722	GC24-32	GC25-32
34	.4722	.5000	GC24-34	GC25-34
36	.5000	.5278	GC24-36	GC25-36
38	.5278	.5556	GC24-38	GC25-38
40	.5556	.5833	GC24-40	GC25-40
42	.5833	.6111	GC24-42	GC25-42
44	.6111	.6389	GC24-44	GC25-44
46	.6389	.6667	GC24-46	GC25-46
48	.6667	.6944	GC24-48	GC25-48
50	.6944	.7222	GC24-50	GC25-50
55	.7639	.7917	GC24-55	GC25-55
56	.7778	.8056	GC24-56	GC25-56
60	.8333	.8611	GC24-60	GC25-60
64	.8889	.9167	GC24-64	GC25-64
65	.9028	.9306	GC24-65	GC25-65
70	.9722	1.0000	GC24-70	GC25-70
72	1.0000	1.0278	GC24-72	GC25-72
75	1.0416	1.0694	GC24-75	GC25-75
80	1.1111	1.1389	GC24-80	GC25-80
90	1.2500	1.2778	GC24-90	GC25-90
108	1.5000	1.5278	GC24-108	GC25-108
126	1.7500	1.7778	GC24-126	GC25-126

Special No. of Teeth, Bore Size, Material, and Finishes on Request.
For .1200 Bore Add Prefix SX to Catalog Number When Ordering.
*Theoretical

Pitch 80 • Face 1/8 • Bore .1250 • P.A. 20°

303 Stainless Steel — Clear Passivate

Aluminum 2024T4 — Chromic Acid Anodize



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
28	.3500	.3750	GC26-28	GC27-28
30	.3750	.4000	GC26-30	GC27-30
32	.4000	.4250	GC26-32	GC27-32
34	.4250	.4500	GC26-34	GC27-34
35	.4375	.4625	GC26-35	GC27-35
36	.4500	.4750	GC26-36	GC27-36
38	.4750	.5000	GC26-38	GC27-38
40	.5000	.5250	GC26-40	GC27-40
42	.5250	.5500	GC26-42	GC27-42
44	.5500	.5750	GC26-44	GC27-44
45	.5625	.5875	GC26-45	GC27-45
50	.6250	.6500	GC26-50	GC27-50
55	.6875	.7125	GC26-55	GC27-55
60	.7500	.7750	GC26-60	GC27-60
65	.8125	.8375	GC26-65	GC27-65
70	.8750	.9000	GC26-70	GC27-70
75	.9375	.9625	GC26-75	GC27-75
80	1.0000	1.0250	GC26-80	GC27-80
85	1.0625	1.0875	GC26-85	GC27-85
90	1.1250	1.1500	GC26-90	GC27-90
100	1.2500	1.2750	GC26-100	GC27-100
110	1.3750	1.4000	GC26-110	GC27-110
120	1.5000	1.5250	GC26-120	GC27-120
130	1.6250	1.6500	GC26-130	GC27-130
140	1.7500	1.7750	GC26-140	GC27-140

Special No. of Teeth, Bore Size, Material, and Finishes on Request.
For .1200 Bore Add Prefix SX to Catalog Number When Ordering.

CLAMP TYPE SPUR GEARS

P.A. 20° • Bore .1875 • Face 1/8 • Pitch 80

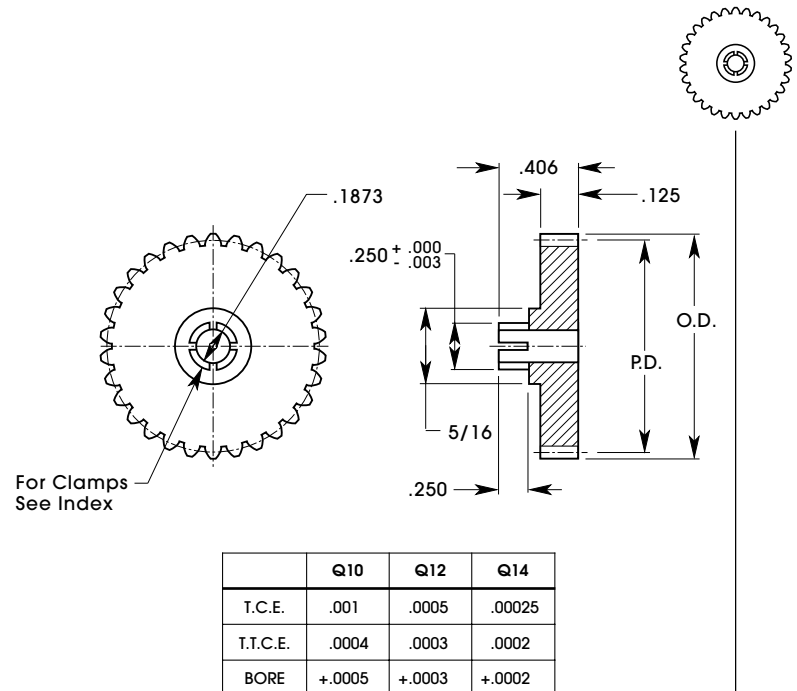
303 Stainless Steel — Clear Passivate
Aluminum 2024T4 — Chromic Acid Anodize

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
28	.3500	.3750	GC28-28	GC29-28
30	.3750	.4000	GC28-30	GC29-30
32	.4000	.4250	GC28-32	GC29-32
34	.4250	.4500	GC28-34	GC29-34
35	.4375	.4625	GC28-35	GC29-35
36	.4500	.4750	GC28-36	GC29-36
38	.4750	.5000	GC28-38	GC29-38
40	.5000	.5250	GC28-40	GC29-40
42	.5250	.5500	GC28-42	GC29-42
44	.5500	.5750	GC28-44	GC29-44
45	.5625	.5875	GC28-45	GC29-45
50	.6250	.6500	GC28-50	GC29-50
55	.6875	.7125	GC28-55	GC29-55
60	.7500	.7750	GC28-60	GC29-60
65	.8125	.8375	GC28-65	GC29-65
70	.8750	.9000	GC28-70	GC29-70
75	.9375	.9625	GC28-75	GC29-75
80	1.0000	1.0250	GC28-80	GC29-80
85	1.0625	1.0875	GC28-85	GC29-85
90	1.1250	1.1500	GC28-90	GC29-90
100	1.2500	1.2750	GC28-100	GC29-100
110	1.3750	1.4000	GC28-110	GC29-110
120	1.5000	1.5250	GC28-120	GC29-120
130	1.6250	1.6500	GC28-130	GC29-130
140	1.7500	1.7750	GC28-140	GC29-140
150	1.8750	1.9000	GC28-150	GC29-150
160	2.0000	2.0250	GC28-160	GC29-160
180	2.2500	2.2750	GC28-180	GC29-180

Special No. of Teeth, Bore Size, Material, and Finishes on Request.

*Theoretical



P.A. 20° • Bore .1250 • Face 1/8 • Pitch 96

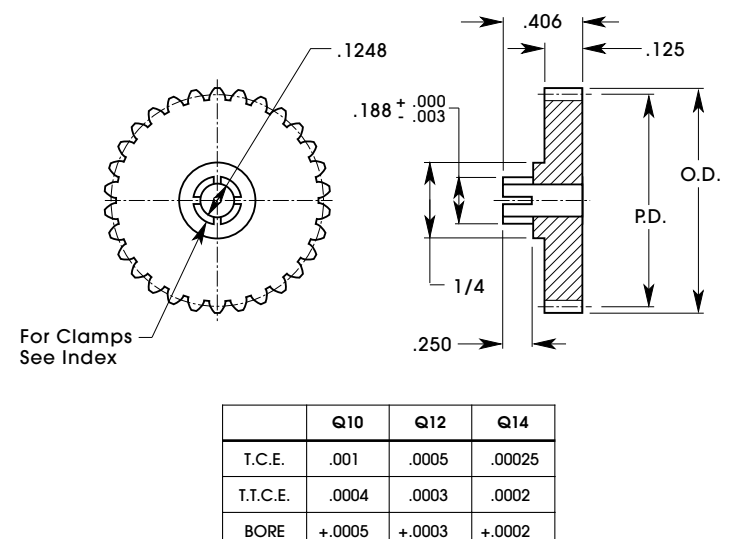
303 Stainless Steel — Clear Passivate
Aluminum 2024T4 — Chromic Acid Anodize

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
32	.3333	.3542	GC30-32	GC31-32
33	.3437	.3646	GC30-33	GC31-33
34	.3541	.3750	GC30-34	GC31-34
35	.3645	.3854	GC30-35	GC31-35
36	.3750	.3958	GC30-36	GC31-36
38	.3958	.4167	GC30-38	GC31-38
40	.4166	.4375	GC30-40	GC31-40
44	.4583	.4792	GC30-44	GC31-44
48	.5000	.5208	GC30-48	GC31-48
50	.5208	.5417	GC30-50	GC31-50
56	.5833	.6042	GC30-56	GC31-56
60	.6250	.6458	GC30-60	GC31-60
64	.6667	.6875	GC30-64	GC31-64
70	.7292	.7500	GC30-70	GC31-70
72	.7500	.7708	GC30-72	GC31-72
80	.8333	.8542	GC30-80	GC31-80
85	.8854	.9063	GC30-85	GC31-85
90	.9375	.9583	GC30-90	GC31-90
95	.9895	1.0104	GC30-95	GC31-95
96	1.0000	1.0208	GC30-96	GC31-96
100	1.0417	1.0625	GC30-100	GC31-100
105	1.0938	1.1146	GC30-105	GC31-105
110	1.1458	1.1667	GC30-110	GC31-110
115	1.1979	1.2188	GC30-115	GC31-115
120	1.2500	1.2708	GC30-120	GC31-120

Special No. of Teeth, Bore Size, Material, and Finishes on Request.
For .1200 Bore Add Prefix SX to Catalog Number When Ordering.

*Theoretical

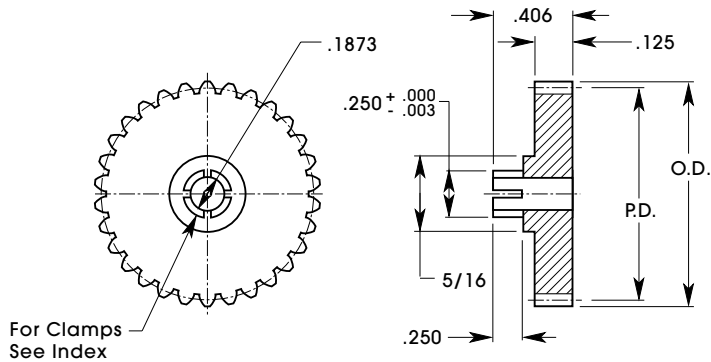
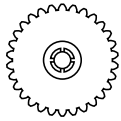


SPUR GEARS CLAMP TYPE

Pitch 96 • Face 1/8 • Bore .1875 • P.A. 20°

303 Stainless Steel — Clear Passivate

Aluminum 2024T4 — Chromic Acid Anodize



	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
32	.3333	.3542	GC32-32	GC33-32
33	.3437	.3646	GC32-33	GC33-33
34	.3541	.3750	GC32-34	GC33-34
35	.3645	.3854	GC32-35	GC33-35
36	.3750	.3958	GC32-36	GC33-36
38	.3958	.4167	GC32-38	GC33-38
40	.4166	.4375	GC32-40	GC33-40
44	.4583	.4792	GC32-44	GC33-44
48	.5000	.5208	GC32-48	GC33-48
50	.5208	.5417	GC32-50	GC33-50
56	.5833	.6042	GC32-56	GC33-56
60	.6250	.6458	GC32-60	GC33-60
64	.6667	.6875	GC32-64	GC33-64
70	.7292	.7500	GC32-70	GC33-70
72	.7500	.7708	GC32-72	GC33-72
80	.8333	.8542	GC32-80	GC33-80
85	.8854	.9063	GC32-85	GC33-85
90	.9375	.9583	GC32-90	GC33-90
95	.9895	1.0104	GC32-95	GC33-95
96	1.0000	1.0208	GC32-96	GC33-96
100	1.0417	1.0625	GC32-100	GC33-100
105	1.0938	1.1146	GC32-105	GC33-105
110	1.1458	1.1667	GC32-110	GC33-110
115	1.1979	1.2188	GC32-115	GC33-115
120	1.2500	1.2708	GC32-120	GC33-120

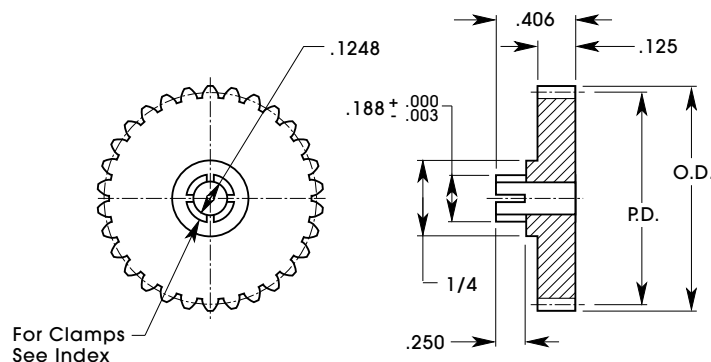
Special No. of Teeth, Bore Size, Material, and Finishes on Request.

*Theoretical

Pitch 120 • Face 1/8 • Bore .1250 • P.A. 20°

303 Stainless Steel — Clear Passivate

Aluminum 2024T4 — Chromic Acid Anodize



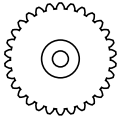
	Q10	Q12	Q14
T.C.E.	.001	.0005	.00025
T.T.C.E.	.0004	.0003	.0002
BORE	+.0005	+.0003	+.0002

Specifications: Unless otherwise stated AGMA Q10 will be supplied. When ordering Q12 or Q14 please supply the catalog number and add Q12 or Q14. QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/MATERIAL	
			STEEL	ALUMINUM
36	.3000	.3167	GC34-36	GC35-36
40	.3333	.3500	GC34-40	GC35-40
48	.4000	.4167	GC34-48	GC35-48
50	.4167	.4333	GC34-50	GC35-50
55	.4583	.4750	GC34-55	GC35-55
60	.5000	.5167	GC34-60	GC35-60
70	.5833	.6000	GC34-70	GC35-70
72	.6000	.6167	GC34-72	GC35-72
80	.6667	.6833	GC34-80	GC35-80
85	.7083	.7250	GC34-85	GC35-85
90	.7500	.7667	GC34-90	GC35-90
95	.7917	.8033	GC34-95	GC35-95
96	.8000	.8167	GC34-96	GC35-96
100	.8333	.8500	GC34-100	GC35-100
105	.8750	.8917	GC34-105	GC35-105
110	.9167	.9333	GC34-110	GC35-110
115	.9583	.9750	GC34-115	GC35-115
120	1.0000	1.0167	GC34-120	GC35-120

Special No. of Teeth, Bore Size, Material, and Finishes on Request. For .1200 Bore Add Prefix SX to Catalog Number When Ordering.

*Theoretical



Precision Machined Non-Metallic Gears Delrin®

SECS, Inc. offers a broad line of precision, pin-type nonmetallic gears at prices generally paid for commercial quality gears. Available with or without inserts, these offer an alternative to metal gears in moderate load applications, with benefits in cost and quietness of operation. Where desired, nonmetallic gears, appropriately derated, may be operated without added lubricant.

Load strength of nonmetallic gears may be estimated using the Lewis tooth strength formula (see Design Engineering Section) with an appropriate value for S_w the allowable stress. The adjacent figures show S_w for Delrin® gears, as a function of stress cycles, and derating factors as a function of ambient temperature. As with metallic gears, additional stresses are incurred due to rotation, so that S_w must be reduced, basically in accordance with the factor.

$$\frac{150}{200 + V} + 0.25$$

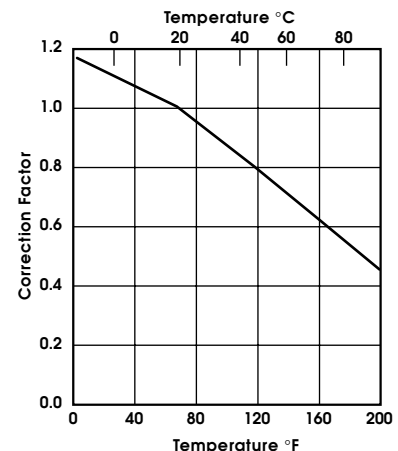
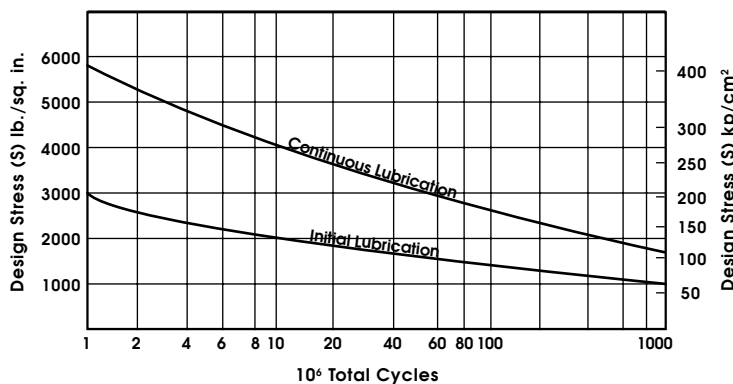
where V is the pitch line velocity in feet per minute.

$$V = \frac{\pi}{12} \cdot D \cdot N$$

where D is pitch diameter in inches, and N is rpm. Additional derating factors may be applicable, depending on the nature of the load. Heavy shock loads, for example require substantial derating. However, this topic is well covered in conventional texts on machine design, and is not amplified further here. In general Delrin® gears are not recommended for heavy loads.

Standard SECS nonmetallic gears are listed by specific part number on the following pages. Where loading is high a sleeve may be inserted into the bore prior to final machining, but this must be specifically called out when placing an order.

Curves Taken From DuPont Delrin® Design Handbook



Correction of Design Stress for Operating Temperature

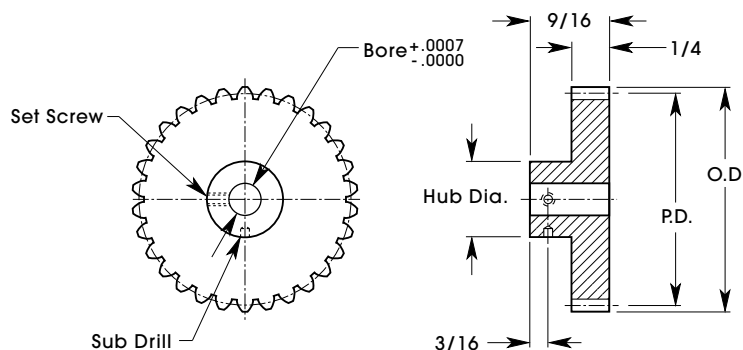
DELTRIN® SPUR GEARS PIN TYPE

Pitch 24 • Face 1/4 • P.A. 20°

Bore- .1875 • .2500 • .3125 • .3750

AGMA Q10 Tolerances

NEW! PRECISION GEARS AT COMMERCIAL PRICES



Available on Special Order:

Brass Inserts for Heavy Torque Loads

Special Number of Teeth

Metric Bore Sizes

BORE	HUB DIA	SET SCREW	SUB DRILL
.1875	1/2	#4-40	.040
.2500	1/2	#6-32	.086
.3125	3/4	#8-32	.086
.3750	3/4	#10-24	.120

HUGE DISCOUNT PRICE FOR LARGE QUANTITY

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/BORE DIAMETER			
			.1875	.2500	.3125	.3750
15	.625	.709	CDP24-15	CDP25-15	CDP26-15	CDP27-15
16	.667	.750	CDP24-16	CDP25-16	CDP26-16	CDP27-16
17	.709	.791	CDP24-17	CDP25-17	CDP26-17	CDP27-17
18	.750	.833	CDP24-18	CDP25-18	CDP26-18	CDP27-18
19	.791	.875	CDP24-19	CDP25-19	CDP26-19	CDP27-19
20	.833	.917	CDP24-20	CDP25-20	CDP26-20	CDP27-20
21	.875	.959	CDP24-21	CDP25-21	CDP26-21	CDP27-21
22	.917	1.000	CDP24-22	CDP25-22	CDP26-22	CDP27-22
23	.959	1.041	CDP24-23	CDP25-23	CDP26-23	CDP27-23
24	1.000	1.086	CDP24-24	CDP25-24	CDP26-24	CDP27-24
25	1.041	1.125	CDP24-25	CDP25-25	CDP26-25	CDP27-25
26	1.083	1.167	CDP24-26	CDP25-26	CDP26-26	CDP27-26
27	1.125	1.208	CDP24-27	CDP25-27	CDP26-27	CDP27-27
28	1.167	1.250	CDP24-28	CDP25-28	CDP26-28	CDP27-28
30	1.250	1.333	CDP24-30	CDP25-30	CDP26-30	CDP27-30
32	1.333	1.416	CDP24-32	CDP25-32	CDP26-32	CDP27-32
33	1.375	1.458	CDP24-33	CDP25-33	CDP26-33	CDP27-33
34	1.416	1.500	CDP24-34	CDP25-34	CDP26-34	CDP27-34
36	1.500	1.583	CDP24-36	CDP25-36	CDP26-36	CDP27-36
39	1.625	1.708	CDP24-39	CDP25-39	CDP26-39	CDP27-39
40	1.666	1.750	CDP24-40	CDP25-40	CDP26-40	CDP27-40
42	1.750	1.833	CDP24-42	CDP25-42	CDP26-42	CDP27-42
44	1.833	1.917	CDP24-44	CDP25-44	CDP26-44	CDP27-44
45	1.875	1.958	CDP24-45	CDP25-45	CDP26-45	CDP27-45
48	2.000	2.083	CDP24-48	CDP25-48	CDP26-48	CDP27-48
50	2.083	2.166	CDP24-50	CDP25-50	CDP26-50	CDP27-50
52	2.166	2.250	CDP24-52	CDP25-52	CDP26-52	CDP27-52
54	2.250	2.333	CDP24-54	CDP25-54	CDP26-54	CDP27-54
56	2.333	2.416	CDP24-56	CDP25-56	CDP26-56	CDP27-56
60	2.500	2.583	CDP24-60	CDP25-60	CDP26-60	CDP27-60

*Theoretical

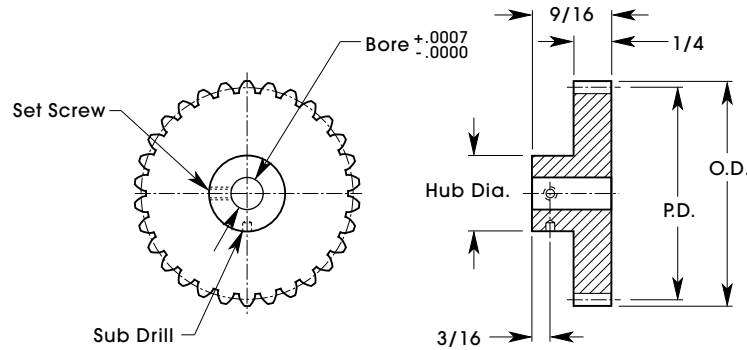
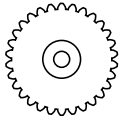
PIN TYPE DELRIN® SPUR GEARS

P.A. 20° • Face 1/4 • Pitch 32

Bore- .1875 • .2500 • .3125 • .3750

AGMA Q10 Tolerances

NEW! PRECISION GEARS AT COMMERCIAL PRICES



Available on Special Order:
Brass Inserts for Heavy Torque Loads
Special Number of Teeth
Metric Bore Sizes

BORE	HUB DIA	SET SCREW	SUB DRILL
.1875	1/2	#4-40	.040
.2500	1/2	#6-32	.086
.3125	3/4	#8-32	.086
.3750	3/4	#10-24	.120

HUGE DISCOUNT PRICE FOR LARGE QUANTITY

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/BORE DIAMETER			
			.1875	.2500	.3125	.3750
16**	.500	.562	CDP32-16	CDP33-16	CDP34-16	CDP35-16
18	.562	.625	CDP32-18	CDP33-18	CDP34-18	CDP35-18
20	.625	.688	CDP32-20	CDP33-20	CDP34-20	CDP35-20
22	.688	.750	CDP32-22	CDP33-22	CDP34-22	CDP35-22
24	.750	.812	CDP32-24	CDP33-24	CDP34-24	CDP35-24
26	.812	.875	CDP32-26	CDP33-26	CDP34-26	CDP35-26
28	.875	.938	CDP32-28	CDP33-28	CDP34-28	CDP35-28
30	.938	1.000	CDP32-30	CDP33-30	CDP34-30	CDP35-30
32	1.000	1.062	CDP32-32	CDP33-32	CDP34-32	CDP35-32
34	1.062	1.125	CDP32-34	CDP33-34	CDP34-34	CDP35-34
36	1.125	1.187	CDP32-36	CDP33-36	CDP34-36	CDP35-36
38	1.187	1.250	CDP32-38	CDP33-38	CDP34-38	CDP35-38
40	1.250	1.312	CDP32-40	CDP33-40	CDP34-40	CDP35-40
42	1.312	1.375	CDP32-42	CDP33-42	CDP34-42	CDP35-42
44	1.375	1.438	CDP32-44	CDP33-44	CDP34-44	CDP35-44
48	1.500	1.562	CDP32-48	CDP33-48	CDP34-48	CDP35-48
52	1.625	1.688	CDP32-52	CDP33-52	CDP34-52	CDP35-52
56	1.750	1.812	CDP32-56	CDP33-56	CDP34-56	CDP35-56
64	2.000	2.062	CDP32-64	CDP33-64	CDP34-64	CDP35-64
72	2.250	2.312	CDP32-72	CDP33-72	CDP34-72	CDP35-72
80	2.500	2.562	CDP32-80	CDP33-80	CDP34-80	CDP35-80
84	2.625	2.687	CDP32-84	CDP33-84	CDP34-84	CDP35-84
88	2.750	2.812	CDP32-88	CDP33-88	CDP34-88	CDP35-88
92	2.875	2.937	CDP32-92	CDP33-92	CDP34-92	CDP35-92

**Teeth Cut Into Hub. Hub Diameter Never Exceeds O.D.

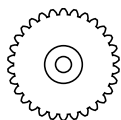
*Theoretical

DELTRIN® SPUR GEARS PIN TYPE

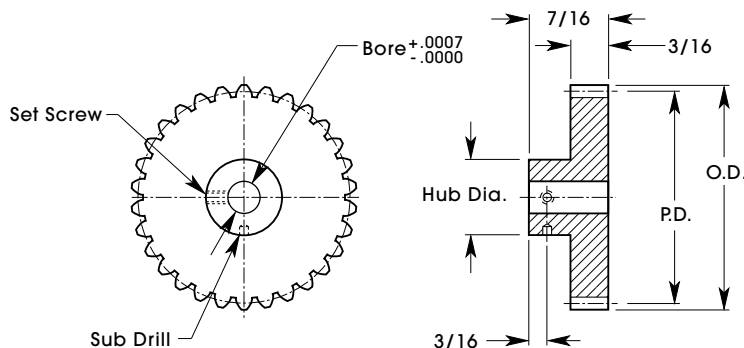
Pitch 48 • Face 3/16 • P.A. 20°

Bore- .1250 • .1875 • .2500

AGMA Q10 Tolerances



NEW! PRECISION GEARS AT COMMERCIAL PRICES



Available on Special Order:

Brass Inserts for Heavy Torque Loads

Special Number of Teeth

Metric Bore Sizes

BORE	HUB DIA	SET SCREW	SUB DRILL
.1250	1/2	#2-56	.029
.1875	1/2	#4-40	.040
.2500	1/2	#6-32	.086

HUGE DISCOUNT PRICE FOR LARGE QUANTITY

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/BORE DIAMETER		
			.1250	.1875	.2500
22**	.458	.500	CDP48-22	CDP49-22	CDP50-22
23**	.479	.521	CDP48-23	CDP49-23	CDP50-23
24**	.500	.542	CDP48-24	CDP49-24	CDP50-24
25**	.521	.562	CDP48-25	CDP49-25	CDP50-25
26**	.542	.583	CDP48-26	CDP49-26	CDP50-26
27	.562	.604	CDP48-27	CDP49-27	CDP50-27
28	.583	.625	CDP48-28	CDP49-28	CDP50-28
29	.604	.646	CDP48-29	CDP49-29	CDP50-29
30	.625	.667	CDP48-30	CDP49-30	CDP50-30
31	.646	.688	CDP48-31	CDP49-31	CDP50-31
32	.667	.708	CDP48-32	CDP49-32	CDP50-32
33	.688	.729	CDP48-33	CDP49-33	CDP50-33
34	.708	.750	CDP48-34	CDP49-34	CDP50-34
35	.729	.771	CDP48-35	CDP49-35	CDP50-35
36	.750	.792	CDP48-36	CDP49-36	CDP50-36
37	.771	.813	CDP48-37	CDP49-37	CDP50-37
38	.792	.833	CDP48-38	CDP49-38	CDP50-38
39	.813	.854	CDP48-39	CDP49-39	CDP50-39
40	.833	.875	CDP48-40	CDP49-40	CDP50-40
42	.875	.917	CDP48-42	CDP49-42	CDP50-42
44	.917	.958	CDP48-44	CDP49-44	CDP50-44
45	.938	.979	CDP48-45	CDP49-45	CDP50-45
48	1.000	1.042	CDP48-48	CDP49-48	CDP50-48
52	1.083	1.125	CDP48-52	CDP49-52	CDP50-52
54	1.125	1.168	CDP48-54	CDP49-54	CDP50-54
56	1.168	1.208	CDP48-56	CDP49-56	CDP50-56
60	1.250	1.292	CDP48-60	CDP49-60	CDP50-60
64	1.333	1.375	CDP48-64	CDP49-64	CDP50-64
66	1.375	1.416	CDP48-66	CDP49-66	CDP50-66
72	1.500	1.542	CDP48-72	CDP49-72	CDP50-72
80	1.667	1.708	CDP48-80	CDP49-80	CDP50-80
84	1.750	1.792	CDP48-84	CDP49-84	CDP50-84
96	2.000	2.042	CDP48-96	CDP49-96	CDP50-96
100	2.083	2.125	CDP48-100	CDP49-100	CDP50-100
108	2.250	2.292	CDP48-108	CDP49-108	CDP50-108
120	2.500	2.542	CDP48-120	CDP49-120	CDP50-120

**Teeth Cut Into Hub. Hub Diameter Never Exceeds O.D.

*Theoretical

PIN TYPE DELRIN® SPUR GEARS

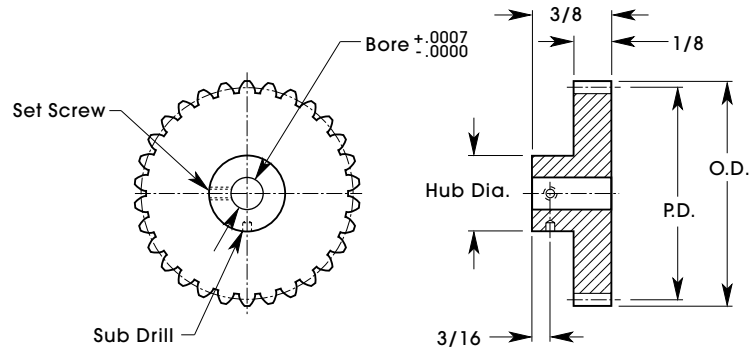
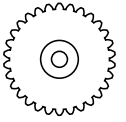
P.A. 20° • Face 1/8 • Pitch 64

Other Diametral Pitches Available

Bore— .1250 • .1875 • .2500

AGMA Q10 Tolerances

NEW! PRECISION GEARS AT COMMERCIAL PRICES



Available on Special Order:

Brass Inserts for Heavy Torque Loads

Special Number of Teeth

Metric Bore Sizes

BORE	HUB DIA	SET SCREW	SUB DRILL
.1250	1/2	#2-56	.029
.1875	1/2	#4-40	.040
.2500	1/2	#6-32	.086

HUGE DISCOUNT PRICE FOR LARGE QUANTITY

NO. OF TEETH	PITCH DIAMETER*	OUTSIDE DIAMETER	CATALOG NUMBER/BORE DIAMETER		
			.1250	.1875	.2500
34	.531	.562	CDP64-34	CDP65-34	CDP66-34
36	.563	.594	CDP64-36	CDP65-36	CDP66-36
38	.594	.625	CDP64-38	CDP65-38	CDP66-38
40	.625	.656	CDP64-40	CDP65-40	CDP66-40
42	.656	.688	CDP64-42	CDP65-42	CDP66-42
44	.688	.719	CDP64-44	CDP65-44	CDP66-44
46	.719	.750	CDP64-46	CDP65-46	CDP66-46
48	.750	.781	CDP64-48	CDP65-48	CDP66-48
50	.781	.813	CDP64-50	CDP65-50	CDP66-50
55	.859	.890	CDP64-55	CDP65-55	CDP66-55
56	.875	.906	CDP64-56	CDP65-56	CDP66-56
60	.938	.969	CDP64-60	CDP65-60	CDP66-60
64	1.000	1.031	CDP64-64	CDP65-64	CDP66-64
65	1.016	1.047	CDP64-65	CDP65-65	CDP66-65
70	1.094	1.125	CDP64-70	CDP65-70	CDP66-70
72	1.125	1.156	CDP64-72	CDP65-72	CDP66-72
75	1.172	1.203	CDP64-75	CDP65-75	CDP66-75
80	1.250	1.281	CDP64-80	CDP65-80	CDP66-80
84	1.313	1.344	CDP64-84	CDP65-84	CDP66-84
85	1.329	1.359	CDP64-85	CDP65-85	CDP66-85
90	1.406	1.438	CDP64-90	CDP65-90	CDP66-90
92	1.438	1.69	CDP64-92	CDP65-92	CDP66-92
95	1.484	1.516	CDP64-95	CDP65-95	CDP66-95
96	1.500	1.531	CDP64-96	CDP65-96	CDP66-96
100	1.563	1.594	CDP64-100	CDP65-100	CDP66-100
105	1.641	1.672	CDP64-105	CDP65-105	CDP66-105
110	1.719	1.750	CDP64-110	CDP65-110	CDP66-110
120	1.875	1.906	CDP64-120	CDP65-120	CDP66-120
130	2.031	2.063	CDP64-130	CDP65-130	CDP66-130

*Theoretical

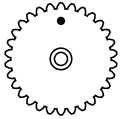
ANTI-BACKLASH GEARS PINION

P.A. 20° • Face .104 • Pitch 48

Bore .1250 • .1875 • .2500

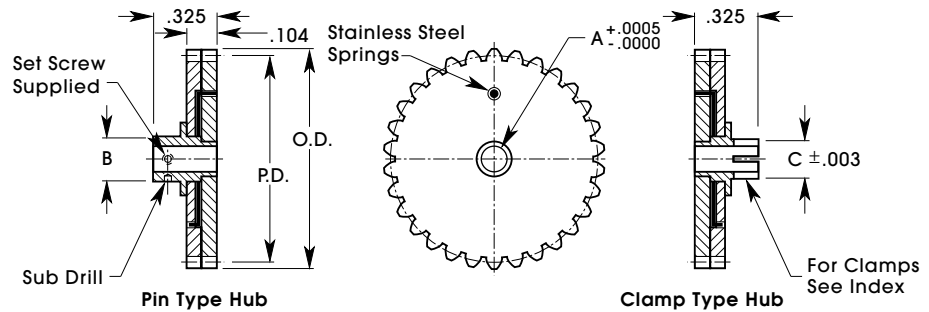
303 Stainless Steel — Clear Passivate

Aluminum 2024 — Chromic Acid Anodize



A	B	C
.1248	.312	.187
.1873	.375	.250
.2498	.437	.312

Hubs: 303 Stainless Steel



BORE A			.1250				.1875				.2500			
NO. OF TEETH	PITCH* DIA -.001	OUTSIDE DIA -.002	CATALOG NUMBER 303 STAINLESS		CATALOG NUMBER ALUMINIM 2024		CATALOG NUMBER 303 STAINLESS		CATALOG NUMBER ALUMINIM 2024		CATALOG NUMBER 303 STAINLESS		CATALOG NUMBER ALUMINIM 2024	
			PIN	CLAMP	PIN	CLAMP	PIN	CLAMP	PIN	CLAMP	PIN	CLAMP	PIN	CLAMP
30	.6250	.666	PABP10-30	PABC12-30	PABP11-30	PABC13-30	PABP14-30	PABC16-30	PABP15-30	PABC17-30	PABP18-30	PABC20-30	PABP19-30	PABC21-30
32	.6667	.708	PABP10-32	PABC12-32	PABP11-32	PABC13-32	PABP14-32	PABC16-32	PABP15-32	PABC17-32	PABP18-32	PABC20-32	PABP19-32	PABC21-32
34	.7083	.750	PABP10-34	PABC12-34	PABP11-34	PABC13-34	PABP14-34	PABC16-34	PABP15-34	PABC17-34	PABP18-34	PABC20-34	PABP19-34	PABC21-34
35	.7292	.770	PABP10-35	PABC12-35	PABP11-35	PABC13-35	PABP14-35	PABC16-35	PABP15-35	PABC17-35	PABP18-35	PABC20-35	PABP19-35	PABC21-35
36	.7500	.791	PABP10-36	PABC12-36	PABP11-36	PABC13-36	PABP14-36	PABC16-36	PABP15-36	PABC17-36	PABP18-36	PABC20-36	PABP19-36	PABC21-36
38	.7917	.833	PABP10-38	PABC12-38	PABP11-38	PABC13-38	PABP14-38	PABC16-38	PABP15-38	PABC17-38	PABP18-38	PABC20-38	PABP19-38	PABC21-38
40	.8333	.875	PABP10-40	PABC12-40	PABP11-40	PABC13-40	PABP14-40	PABC16-40	PABP15-40	PABC17-40	PABP18-40	PABC20-40	PABP19-40	PABC21-40
42	.8750	.916	PABP10-42	PABC12-42	PABP11-42	PABC13-42	PABP14-42	PABC16-42	PABP15-42	PABC17-42	PABP18-42	PABC20-42	PABP19-42	PABC21-42
44	.9167	.958	PABP10-44	PABC12-44	PABP11-44	PABC13-44	PABP14-44	PABC16-44	PABP15-44	PABC17-44	PABP18-44	PABC20-44	PABP19-44	PABC21-44
45	.9375	.979	PABP10-45	PABC12-45	PABP11-45	PABC13-45	PABP14-45	PABC16-45	PABP15-45	PABC17-45	PABP18-45	PABC20-45	PABP19-45	PABC21-45
46	.9583	1.000	PABP10-46	PABC12-46	PABP11-46	PABC13-46	PABP14-46	PABC16-46	PABP15-46	PABC17-46	PABP18-46	PABC20-46	PABP19-46	PABC21-46
48	1.0000	1.041	PABP10-48	PABC12-48	PABP11-48	PABC13-48	PABP14-48	PABC16-48	PABP15-48	PABC17-48	PABP18-48	PABC20-48	PABP19-48	PABC21-48
50	1.0417	1.083	PABP10-50	PABC12-50	PABP11-50	PABC13-50	PABP14-50	PABC16-50	PABP15-50	PABC17-50	PABP18-50	PABC20-50	PABP19-50	PABC21-50
55	1.1458	1.187	PABP10-55	PABC12-55	PABP11-55	PABC13-55	PABP14-55	PABC16-55	PABP15-55	PABC17-55	PABP18-55	PABC20-55	PABP19-55	PABC21-55
56	1.1667	1.208	PABP10-56	PABC12-56	PABP11-56	PABC13-56	PABP14-56	PABC16-56	PABP15-56	PABC17-56	PABP18-56	PABC20-56	PABP19-56	PABC21-56

*Theoretical

For .1200 Bore Add Prefix SX to Catalog Number When Ordering. For .2405 Bore Add Prefix X to Catalog Number When Ordering.

P.A. 20° • Face .104 • Pitch 64

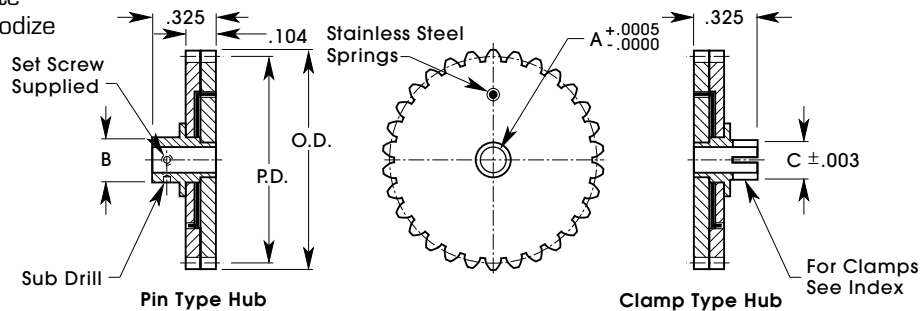
Bore .1250 • .1875 • .2500

303 Stainless Steel — Clear Passivate

Aluminum 2024 — Chromic Acid Anodize

A	B	C
.1248	.312	.187
.1873	.375	.250
.2498	.437	.312

Hubs: 303 Stainless Steel



BORE A			.1250				.1875				.2500			
NO. OF TEETH	PITCH* DIA -.001	OUTSIDE DIA -.002	CATALOG NUMBER 303 STAINLESS		CATALOG NUMBER ALUMINIM 2024		CATALOG NUMBER 303 STAINLESS		CATALOG NUMBER ALUMINIM 2024		CATALOG NUMBER 303 STAINLESS		CATALOG NUMBER ALUMINIM 2024	
			PIN	CLAMP	PIN	CLAMP	PIN	CLAMP	PIN	CLAMP	PIN	CLAMP	PIN	CLAMP
40	.6250	.656	PABP22-40	PABC24-40	PABP23-40	PABC25-40	PABP26-40	PABC28-40	PABP27-40	PABC29-40	PABP30-40	PABC32-40	PABP31-40	PABC33-40
42	.6562	.687	PABP22-42	PABC24-42	PABP23-42	PABC25-42	PABP26-42	PABC28-42	PABP27-42	PABC29-42	PABP30-42	PABC32-42	PABP31-42	PABC33-42
44	.6875	.718	PABP22-44	PABC24-44	PABP23-44	PABC25-44	PABP26-44	PABC28-44	PABP27-44	PABC29-44	PABP30-44	PABC32-44	PABP31-44	PABC33-44
45	.7031	.734	PABP22-45	PABC24-45	PABP23-45	PABC25-45	PABP26-45	PABC28-45	PABP27-45	PABC29-45	PABP30-45	PABC32-45	PABP31-45	PABC33-45
46	.7187	.750	PABP22-46	PABC24-46	PABP23-46	PABC25-46	PABP26-46	PABC28-46	PABP27-46	PABC29-46	PABP30-46	PABC32-46	PABP31-46	PABC33-46
48	.7500	.781	PABP22-48	PABC24-48	PABP23-48	PABC25-48	PABP26-48	PABC28-48	PABP27-48	PABC29-48	PABP30-48	PABC32-48	PABP31-48	PABC33-48
50	.7812	.812	PABP22-50	PABC24-50	PABP23-50	PABC25-50	PABP26-50	PABC28-50	PABP27-50	PABC29-50	PABP30-50	PABC32-50	PABP31-50	PABC33-50
52	.8125	.843	PABP22-52	PABC24-52	PABP23-52	PABC25-52	PABP26-52	PABC28-52	PABP27-52	PABC29-52	PABP30-52	PABC32-52	PABP31-52	PABC33-52
55	.8594	.890	PABP22-55	PABC24-55	PABP23-55	PABC25-55	PABP26-55	PABC28-55	PABP27-55	PABC29-55	PABP30-55	PABC32-55	PABP31-55	PABC33-55
56	.8750	.906	PABP22-56	PABC24-56	PABP23-56	PABC25-56	PABP26-56	PABC28-56	PABP27-56	PABC29-56	PABP30-56	PABC32-56	PABP31-56	PABC33-56
60	.9375	.968	PABP22-60	PABC24-60	PABP23-60	PABC25-60	PABP26-60	PABC28-60	PABP27-60	PABC29-60	PABP30-60	PABC32-60	PABP31-60	PABC33-60
64	1.0000	1.031	PABP22-64	PABC24-64	PABP23-64	PABC25-64	PABP26-64	PABC28-64	PABP27-64	PABC29-64	PABP30-64	PABC32-64	PABP31-64	PABC33-64
68	1.0625	1.093	PABP22-68	PABC24-68	PABP23-68	PABC25-68	PABP26-68	PABC28-68	PABP27-68	PABC29-68	PABP30-68	PABC32-68	PABP31-68	PABC33-68
70	1.0937	1.125	PABP22-70	PABC24-70	PABP23-70	PABC25-70	PABP26-70	PABC28-70	PABP27-70	PABC29-70	PABP30-70	PABC32-70	PABP31-70	PABC33-70
75	1.1719	1.203	PABP22-75	PABC24-75	PABP23-75	PABC25-75	PABP26-75	PABC28-75	PABP27-75	PABC29-75	PABP30-75	PABC32-75	PABP31-75	PABC33-75

*Theoretical

For .1200 Bore Add Prefix SX to Catalog Number When Ordering. For .2405 Bore Add Prefix X to Catalog Number When Ordering.

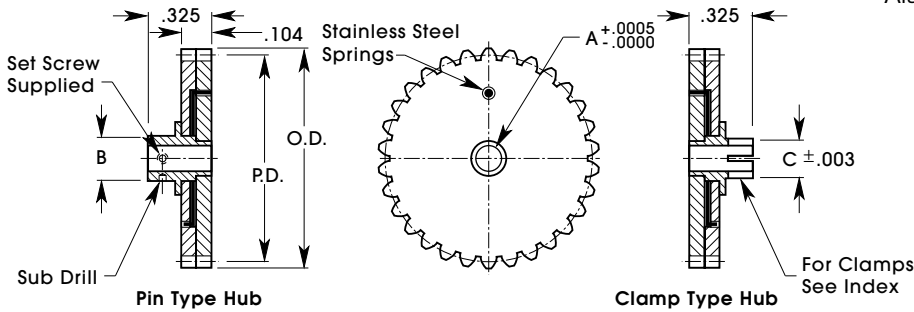
PINION ANTI-BACKLASH GEARS

P.A. 20° • Face .104 • Pitch 72

Bore .1250 • .1875 • .2500

303 Stainless Steel — Clear Passivate

Aluminum 2024 — Chromic Acid Anodize



A	B	C
.1248	.312	.187
.1873	.375	.250
.2498	.437	.312

Hubs: 303 Stainless Steel

BORE A			.1250				.1875				.2500			
NO. OF TEETH	PITCH* DIA -.001	OUTSIDE DIA -.002	CATALOG NUMBER 303 STAINLESS		CATALOG NUMBER ALUMINIM 2024		CATALOG NUMBER 303 STAINLESS		CATALOG NUMBER ALUMINIM 2024		CATALOG NUMBER 303 STAINLESS		CATALOG NUMBER ALUMINIM 2024	
			PIN	CLAMP	PIN	CLAMP	PIN	CLAMP	PIN	CLAMP	PIN	CLAMP	PIN	CLAMP
48	.6667	.695	PABP34-48	PABC35-48	PABP36-48	PABC37-48	PABP38-48	PABC39-48	PABP40-48	PABC41-48	PABP42-48	PABC43-48	PABP44-48	PABC45-48
50	.6944	.722	PABP34-50	PABC35-50	PABP36-50	PABC37-50	PABP38-50	PABC39-50	PABP40-50	PABC41-50	PABP42-50	PABC43-50	PABP44-50	PABC45-50
54	.7500	.777	PABP34-54	PABC35-54	PABP36-54	PABC37-54	PABP38-54	PABC39-54	PABP40-54	PABC41-54	PABP42-54	PABC43-54	PABP44-54	PABC45-54
55	.7638	.791	PABP34-55	PABC35-55	PABP36-55	PABC37-55	PABP38-55	PABC39-55	PABP40-55	PABC41-55	PABP42-55	PABC43-55	PABP44-55	PABC45-55
56	.7778	.805	PABP34-56	PABC35-56	PABP36-56	PABC37-56	PABP38-56	PABC39-56	PABP40-56	PABC41-56	PABP42-56	PABC43-56	PABP44-56	PABC45-56
58	.8056	.833	PABP34-58	PABC35-58	PABP36-58	PABC37-58	PABP38-58	PABC39-58	PABP40-58	PABC41-58	PABP42-58	PABC43-58	PABP44-58	PABC45-58
60	.8333	.861	PABP34-60	PABC35-60	PABP36-60	PABC37-60	PABP38-60	PABC39-60	PABP40-60	PABC41-60	PABP42-60	PABC43-60	PABP44-60	PABC45-60
64	.8889	.916	PABP34-64	PABC35-64	PABP36-64	PABC37-64	PABP38-64	PABC39-64	PABP40-64	PABC41-64	PABP42-64	PABC43-64	PABP44-64	PABC45-64
65	.9027	.930	PABP34-65	PABC35-65	PABP36-65	PABC37-65	PABP38-65	PABC39-65	PABP40-65	PABC41-65	PABP42-65	PABC43-65	PABP44-65	PABC45-65
66	.9167	.944	PABP34-66	PABC35-66	PABP36-66	PABC37-66	PABP38-66	PABC39-66	PABP40-66	PABC41-66	PABP42-66	PABC43-66	PABP44-66	PABC45-66
68	.9444	.972	PABP34-68	PABC35-68	PABP36-68	PABC37-68	PABP38-68	PABC39-68	PABP40-68	PABC41-68	PABP42-68	PABC43-68	PABP44-68	PABC45-68
70	.9722	1.000	PABP34-70	PABC35-70	PABP36-70	PABC37-70	PABP38-70	PABC39-70	PABP40-70	PABC41-70	PABP42-70	PABC43-70	PABP44-70	PABC45-70
72	1.0000	1.027	PABP34-72	PABC35-72	PABP36-72	PABC37-72	PABP38-72	PABC39-72	PABP40-72	PABC41-72	PABP42-72	PABC43-72	PABP44-72	PABC45-72
75	1.0417	1.069	PABP34-75	PABC35-75	PABP36-75	PABC37-75	PABP38-75	PABC39-75	PABP40-75	PABC41-75	PABP42-75	PABC43-75	PABP44-75	PABC45-75
80	1.1111	1.138	PABP34-80	PABC35-80	PABP36-80	PABC37-80	PABP38-80	PABC39-80	PABP40-80	PABC41-80	PABP42-80	PABC43-80	PABP44-80	PABC45-80
84	1.1667	1.194	PABP34-84	PABC35-84	PABP36-84	PABC37-84	PABP38-84	PABC39-84	PABP40-84	PABC41-84	PABP42-84	PABC43-84	PABP44-84	PABC45-84

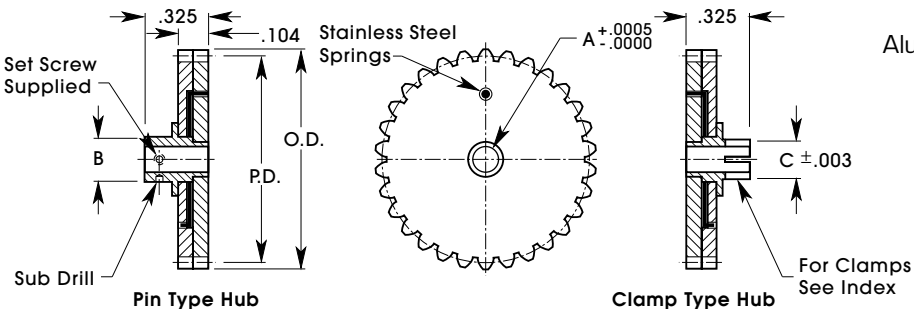
*Theoretical For .1200 Bore Add Prefix SX to Catalog Number When Ordering. For .2405 Bore Add Prefix X to Catalog Number When Ordering.

P.A. 20° • Face .104 • Pitch 80

Bore .1250 • .1875 • .2500

303 Stainless Steel — Clear Passivate

Aluminum 2024 — Chromic Acid Anodize



A	B	C
.1248	.312	.187
.1873	.375	.250
.2498	.437	.312

Hubs: 303 Stainless Steel

BORE A			.1250				.1875				.2500			
NO. OF TEETH	PITCH* DIA -.001	OUTSIDE DIA -.002	CATALOG NUMBER 303 STAINLESS		CATALOG NUMBER ALUMINIM 2024		CATALOG NUMBER 303 STAINLESS		CATALOG NUMBER ALUMINIM 2024		CATALOG NUMBER 303 STAINLESS		CATALOG NUMBER ALUMINIM 2024	
			PIN	CLAMP	PIN	CLAMP	PIN	CLAMP	PIN	CLAMP	PIN	CLAMP	PIN	CLAMP
50	.6250	.650	PABP46-50	PABC47-50	PABP48-50	PABC49-50	PABP50-50	PABC51-50	PABP52-50	PABC53-50	PABP54-50	PABC55-50	PABP56-50	PABC57-50
52	.6500	.675	PABP46-52	PABC47-52	PABP48-52	PABC49-52	PABP50-52	PABC51-52	PABP52-52	PABC53-52	PABP54-52	PABC55-52	PABP56-52	PABC57-52
54	.6750	.700	PABP46-54	PABC47-54	PABP48-54	PABC49-54	PABP50-54	PABC51-54	PABP52-54	PABC53-54	PABP54-54	PABC55-54	PABP56-54	PABC57-54
55	.6875	.712	PABP46-55	PABC47-55	PABP48-55	PABC49-55	PABP50-55	PABC51-55	PABP52-55	PABC53-55	PABP54-55	PABC55-55	PABP56-55	PABC57-55
56	.7000	.725	PABP46-56	PABC47-56	PABP48-56	PABC49-56	PABP50-56	PABC51-56	PABP52-56	PABC53-56	PABP54-56	PABC55-56	PABP56-56	PABC57-56
58	.7250	.750	PABP46-58	PABC47-58	PABP48-58	PABC49-58	PABP50-58	PABC51-58	PABP52-58	PABC53-58	PABP54-58	PABC55-58	PABP56-58	PABC57-58
60	.7500	.775	PABP46-60	PABC47-60	PABP48-60	PABC49-60	PABP50-60	PABC51-60	PABP52-60	PABC53-60	PABP54-60	PABC55-60	PABP56-60	PABC57-60
62	.7750	.800	PABP46-62	PABC47-62	PABP48-62	PABC49-62	PABP50-62	PABC51-62	PABP52-62	PABC53-62	PABP54-62	PABC55-62	PABP56-62	PABC57-62
64	.8000	.825	PABP46-64	PABC47-64	PABP48-64	PABC49-64	PABP50-64	PABC51-64	PABP52-64	PABC53-64	PABP54-64	PABC55-64	PABP56-64	PABC57-64
68	.8500	.875	PABP46-68	PABC47-68	PABP48-68	PABC49-68	PABP50-68	PABC51-68	PABP52-68	PABC53-68	PABP54-68	PABC55-68	PABP56-68	PABC57-68
70	.8750	.900	PABP46-70	PABC47-70	PABP48-70	PABC49-70	PABP50-70	PABC51-70	PABP52-70	PABC53-70	PABP54-70	PABC55-70	PABP56-70	PABC57-70
72	.9000	.925	PABP46-72	PABC47-72	PABP48-72	PABC49-72	PABP50-72	PABC51-72	PABP52-72	PABC53-72	PABP54-72	PABC55-72	PABP56-72	PABC57-72
75	.9375	.962	PABP46-75	PABC47-75	PABP48-75	PABC49-75	PABP50-75	PABC51-75	PABP52-75	PABC53-75	PABP54-75	PABC55-75	PABP56-75	PABC57-75
80	1.0000	1.025	PABP46-80	PABC47-80	PABP48-80	PABC49-80	PABP50-80	PABC51-80	PABP52-80	PABC53-80	PABP54-80	PABC55-80	PABP56-80	PABC57-80
84	1.0500	1.075	PABP46-84	PABC47-84	PABP48-84	PABC49-84	PABP50-84	PABC51-84	PABP52-84	PABC53-84	PABP54-84	PABC55-84	PABP56-84	PABC57-84
90	1.1250	1.150	PABP46-90	PABC47-90	PABP48-90	PABC49-90	PABP50-90	PABC51-90	PABP52-90	PABC53-90	PABP54-90	PABC55-90	PABP56-90	PABC57-90

*Theoretical For .1200 Bore Add Prefix SX to Catalog Number When Ordering. For .2405 Bore Add Prefix X to Catalog Number When Ordering.

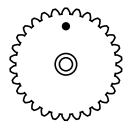
ANTI-BACKLASH GEARS PINION

P.A. 20° • Face .104 • Pitch 96

Bore .1250 • .1875 • .2500

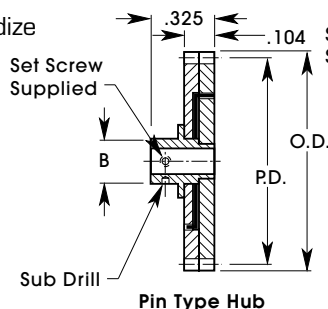
303 Stainless Steel — Clear Passivate

Aluminum 2024 — Chromic Acid Anodize

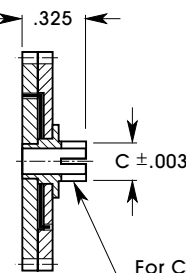
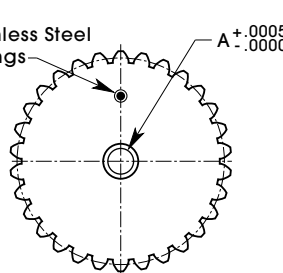


A	B	C
.1248	.312	.187
.1873	.375	.250
.2498	.437	.312

Hubs: 303 Stainless Steel



Pin Type Hub



Clamp Type Hub

BORE A			.1250				.1875				.2500			
NO. OF TEETH	PITCH* DIA -.001	OUTSIDE DIA -.002	CATALOG NUMBER 303 STAINLESS		CATALOG NUMBER ALUMINIM 2024		CATALOG NUMBER 303 STAINLESS		CATALOG NUMBER ALUMINIM 2024		CATALOG NUMBER 303 STAINLESS		CATALOG NUMBER ALUMINIM 2024	
			PIN	CLAMP	PIN	CLAMP	PIN	CLAMP	PIN	CLAMP	PIN	CLAMP	PIN	CLAMP
60	.6250	.645	PABP58-60	PABC59-60	PABP60-60	PABC61-60	PABP62-60	PABC63-60	PABP64-60	PABC65-60	PABP66-60	PABC67-60	PABP68-60	PABC69-60
64	.6667	.687	PABP58-64	PABC59-64	PABP60-64	PABC61-64	PABP62-64	PABC63-64	PABP64-64	PABC65-64	PABP66-64	PABC67-64	PABP68-64	PABC69-64
66	.6875	.708	PABP58-66	PABC59-66	PABP60-66	PABC61-66	PABP62-66	PABC63-66	PABP64-66	PABC65-66	PABP66-66	PABC67-66	PABP68-66	PABC69-66
72	.7500	.770	PABP58-72	PABC59-72	PABP60-72	PABC61-72	PABP62-72	PABC63-72	PABP64-72	PABC65-72	PABP66-72	PABC67-72	PABP68-72	PABC69-72
78	.8125	.833	PABP58-78	PABC59-78	PABP60-78	PABC61-78	PABP62-78	PABC63-78	PABP64-78	PABC65-78	PABP66-78	PABC67-78	PABP68-78	PABC69-78
80	.8333	.854	PABP58-80	PABC59-80	PABP60-80	PABC61-80	PABP62-80	PABC63-80	PABP64-80	PABC65-80	PABP66-80	PABC67-80	PABP68-80	PABC69-80
84	.8750	.895	PABP58-84	PABC59-84	PABP60-84	PABC61-84	PABP62-84	PABC63-84	PABP64-84	PABC65-84	PABP66-84	PABC67-84	PABP68-84	PABC69-84
86	.8958	.916	PABP58-86	PABC59-86	PABP60-86	PABC61-86	PABP62-86	PABC63-86	PABP64-86	PABC65-86	PABP66-86	PABC67-86	PABP68-86	PABC69-86
88	.9167	.937	PABP58-88	PABC59-88	PABP60-88	PABC61-88	PABP62-88	PABC63-88	PABP64-88	PABC65-88	PABP66-88	PABC67-88	PABP68-88	PABC69-88
90	.9375	.958	PABP58-90	PABC59-90	PABP60-90	PABC61-90	PABP62-90	PABC63-90	PABP64-90	PABC65-90	PABP66-90	PABC67-90	PABP68-90	PABC69-90
92	.9583	.979	PABP58-92	PABC59-92	PABP60-92	PABC61-92	PABP62-92	PABC63-92	PABP64-92	PABC65-92	PABP66-92	PABC67-92	PABP68-92	PABC69-92
94	.9792	1.000	PABP58-94	PABC59-94	PABP60-94	PABC61-94	PABP62-94	PABC63-94	PABP64-94	PABC65-94	PABP66-94	PABC67-94	PABP68-94	PABC69-94
100	1.0416	1.062	PABP58-100	PABC59-100	PABP60-100	PABC61-100	PABP62-100	PABC63-100	PABP64-100	PABC65-100	PABP66-100	PABC67-100	PABP68-100	PABC69-100
108	1.1250	1.145	PABP58-108	PABC59-108	PABP60-108	PABC61-108	PABP62-108	PABC63-108	PABP64-108	PABC65-108	PABP66-108	PABC67-108	PABP68-108	PABC69-108
114	1.1875	1.208	PABP58-114	PABC59-114	PABP60-114	PABC61-114	PABP62-114	PABC63-114	PABP64-114	PABC65-114	PABP66-114	PABC67-114	PABP68-114	PABC69-114
118	1.2291	1.250	PABP58-118	PABC59-118	PABP60-118	PABC61-118	PABP62-118	PABC63-118	PABP64-118	PABC65-118	PABP66-118	PABC67-118	PABP68-118	PABC69-118

*Theoretical

For .1200 Bore Add Prefix SX to Catalog Number When Ordering. For .2405 Bore Add Prefix X to Catalog Number When Ordering.

P.A. 20° • Face .104 • Pitch 120

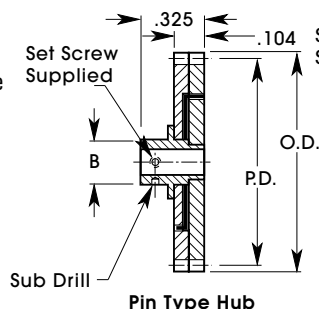
Bore .1250 • .1875 • .2500

303 Stainless Steel — Clear Passivate

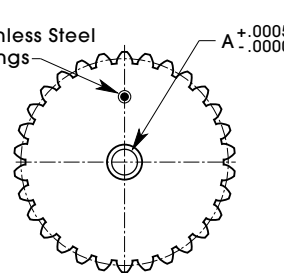
Aluminum 2024 — Chromic Acid Anodize

A	B	C
.1248	.312	.187
.1873	.375	.250
.2498	.437	.312

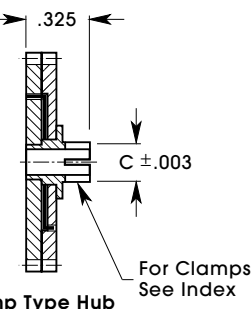
Hubs: 303 Stainless Steel



Pin Type Hub



Clamp Type Hub



BORE A			.1250				.1875				.2500			
NO. OF TEETH	PITCH* DIA -.001	OUTSIDE DIA -.002	CATALOG NUMBER 303 STAINLESS		CATALOG NUMBER ALUMINIM 2024		CATALOG NUMBER 303 STAINLESS		CATALOG NUMBER ALUMINIM 2024		CATALOG NUMBER 303 STAINLESS		CATALOG NUMBER ALUMINIM 2024	
			PIN	CLAMP	PIN	CLAMP	PIN	CLAMP	PIN	CLAMP	PIN	CLAMP	PIN	CLAMP
78	.6500	.666	PABP70-78	PABC71-78	PABP72-78	PABC73-78	PABP74-78	PABC75-78	PABP76-78	PABC77-78	PABP78-78	PABC79-78	PABP80-78	PABC81-78
80	.6667	.683	PABP70-80	PABC71-80	PABP72-80	PABC73-80	PABP74-80	PABC75-80	PABP76-80	PABC77-80	PABP78-80	PABC79-80	PABP80-80	PABC81-80
84	.7000	.716	PABP70-84	PABC71-84	PABP72-84	PABC73-84	PABP74-84	PABC75-84	PABP76-84	PABC77-84	PABP78-84	PABC79-84	PABP80-84	PABC81-84
88	.7333	.750	PABP70-88	PABC71-88	PABP72-88	PABC73-88	PABP74-88	PABC75-88	PABP76-88	PABC77-88	PABP78-88	PABC79-88	PABP80-88	PABC81-88
90	.7500	.766	PABP70-90	PABC71-90	PABP72-90	PABC73-90	PABP74-90	PABC75-90	PABP76-90	PABC77-90	PABP78-90	PABC79-90	PABP80-90	PABC81-90
94	.7833	.800	PABP70-94	PABC71-94	PABP72-94	PABC73-94	PABP74-94	PABC75-94	PABP76-94	PABC77-94	PABP78-94	PABC79-94	PABP80-94	PABC81-94
96	.8000	.816	PABP70-96	PABC71-96	PABP72-96	PABC73-96	PABP74-96	PABC75-96	PABP76-96	PABC77-96	PABP78-96	PABC79-96	PABP80-96	PABC81-96
98	.8167	.833	PABP70-98	PABC71-98	PABP72-98	PABC73-98	PABP74-98	PABC75-98	PABP76-98	PABC77-98	PABP78-98	PABC79-98	PABP80-98	PABC81-98
100	.8333	.850	PABP70-100	PABC71-100	PABP72-100	PABC73-100	PABP74-100	PABC75-100	PABP76-100	PABC77-100	PABP78-100	PABC79-100	PABP80-100	PABC81-100
102	.7500	.866	PABP70-102	PABC71-102	PABP72-102	PABC73-102	PABP74-102	PABC75-102	PABP76-102	PABC77-102	PABP78-102	PABC79-102	PABP80-102	PABC81-102
106	.8833	.900	PABP70-106	PABC71-106	PABP72-106	PABC73-106	PABP74-106	PABC75-106	PABP76-106	PABC77-106	PABP78-106	PABC79-106	PABP80-106	PABC81-106
108	.9000	.916	PABP70-108	PABC71-108	PABP72-108	PABC73-108	PABP74-108	PABC75-108	PABP76-108	PABC77-108	PABP78-108	PABC79-108	PABP80-108	PABC81-108
110	.9167	.933	PABP70-110	PABC71-110	PABP72-110	PABC73-110	PABP74-110	PABC75-110	PABP76-110	PABC77-110	PABP78-110	PABC79-110	PABP80-110	PABC81-110
112	.9333	.950	PABP70-112	PABC71-112	PABP72-112	PABC73-112	PABP74-112	PABC75-112	PABP76-112	PABC77-112	PABP78-112	PABC79-112	PABP80-112	PABC81-112
114	.9500	.966	PABP70-114	PABC71-114	PABP72-114	PABC73-114	PABP74-114	PABC75-114	PABP76-114	PABC77-114	PABP78-114	PABC79-114	PABP80-114	PABC81-114
116	.9667	.983	PABP70-116	PABC71-116	PABP72-116	PABC73-116	PABP74-116	PABC75-116	PABP76-116	PABC77-116	PABP78-116	PABC79-116	PABP80-116	PABC81-116
118	.9833	1.000	PABP70-118	PABC71-118	PABP72-118	PABC73-118	PABP74-118	PABC75-118	PABP76-118	PABC77-118	PABP78-118	PABC79-118	PABP80-118	PABC81-118
120	1.0000	1.016	PABP70-120	PABC71-120	PABP72-120	PABC73-120	PABP74-120	PABC75-120	PABP76-120	PABC77-120	PABP78-120	PABC79-120	PABP80-120	PABC81-120
135	1.1250	1.142	PABP70-135	PABC71-135	PABP72-135	PABC73-135	PABP74-135	PABC75-135	PABP76-135	PABC77-135	PABP78-135	PABC79-135	PABP80-135	PABC81-135

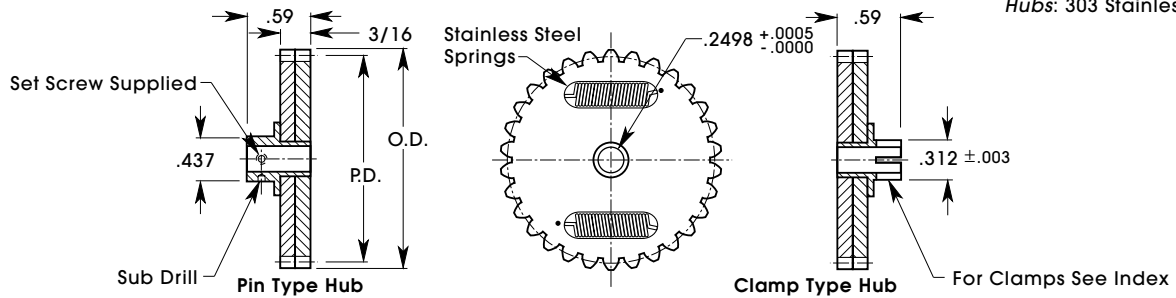
*Theoretical

For .1200 Bore Add Prefix SX to Catalog Number When Ordering. For .2405 Bore Add Prefix X to Catalog Number When Ordering.

ANTI-BACKLASH GEARS

P.A. 20° • Bore .2500 • Face 3/16 • Pitch 24

303 Stainless Steel — Clear Passivate
Aluminum 2024T4 — Chromic Acid Anodize
Hubs: 303 Stainless Steel



AGMA Q10 Tolerances

QUANTITY DISCOUNTS AVAILABLE.

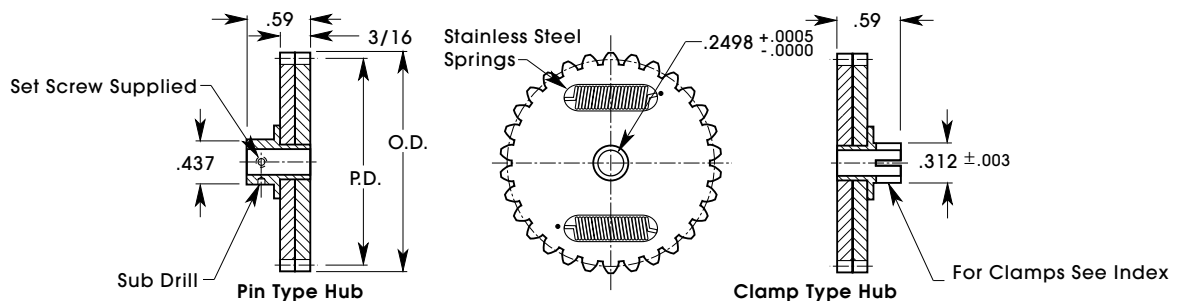
NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER 303 STAINLESS STEEL		CATALOG NUMBER ALUMINUM 2024	
			PIN TYPE	CLAMP TYPE	PIN TYPE	CLAMP TYPE
30	1.2500	1.3333	ABP2-30	ABC4-30	ABP3-30	ABC5-30
35	1.4583	1.5416	ABP2-35	ABC4-35	ABP3-35	ABC5-35
36	1.5000	1.5833	ABP2-36	ABC4-36	ABP3-36	ABC5-36
40	1.6666	1.7500	ABP2-40	ABC4-40	ABP3-40	ABC5-40
42	1.7500	1.8333	ABP2-42	ABC4-42	ABP3-42	ABC5-42
45	1.8750	1.9583	ABP2-45	ABC4-45	ABP3-45	ABC5-45
48	2.0000	2.0833	ABP2-48	ABC4-48	ABP3-48	ABC5-48
50	2.0833	2.1666	ABP2-50	ABC4-50	ABP3-50	ABC5-50
54	2.2500	2.3333	ABP2-54	ABC4-54	ABP3-54	ABC5-54
55	2.2910	2.3750	ABP2-55	ABC4-55	ABP3-55	ABC5-55
60	2.5000	2.5833	ABP2-60	ABC4-60	ABP3-60	ABC5-60
65	2.7083	2.7916	ABP2-65	ABC4-65	ABP3-65	ABC5-65
66	2.7500	2.8333	ABP2-66	ABC4-66	ABP3-66	ABC5-66
70	2.9166	3.0000	ABP2-70	ABC4-70	ABP3-70	ABC5-70

For .2405 Bore Add Prefix X to Catalog Number When Ordering. AGMA Q12 Available on Request.

*Theoretical

P.A. 20° • Bore .2500 • Face 3/16 • Pitch 32

303 Stainless Steel — Clear Passivate
Aluminum 2024T4 — Chromic Acid Anodize
Hubs: 303 Stainless Steel



AGMA Q10 Tolerances

*Theoretical

QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER 303 STAINLESS STEEL		CATALOG NUMBER ALUMINUM 2024	
			PIN TYPE	CLAMP TYPE	PIN TYPE	CLAMP TYPE
40	1.2500	1.3125	ABP6-40	ABC8-40	ABP7-40	ABC9-40
45	1.4062	1.4688	ABP6-45	ABC8-45	ABP7-45	ABC9-45
48	1.5000	1.5625	ABP6-48	ABC8-48	ABP7-48	ABC9-48
50	1.5625	1.6250	ABP6-50	ABC8-50	ABP7-50	ABC9-50
55	1.7187	1.7813	ABP6-55	ABC8-55	ABP7-55	ABC9-55
56	1.7500	1.8125	ABP6-56	ABC8-56	ABP7-56	ABC9-56
60	1.8750	1.9375	ABP6-60	ABC8-60	ABP7-60	ABC9-60
64	2.0000	2.0625	ABP6-64	ABC8-64	ABP7-64	ABC9-64
65	2.0313	2.0938	ABP6-65	ABC8-65	ABP7-65	ABC9-65
70	2.1875	2.2500	ABP6-70	ABC8-70	ABP7-70	ABC9-70
72	2.2500	2.3125	ABP6-72	ABC8-72	ABP7-72	ABC9-72
75	2.3438	2.4063	ABP6-75	ABC8-75	ABP7-75	ABC9-75
80	2.5000	2.5625	ABP6-80	ABC8-80	ABP7-80	ABC9-80
85	2.6563	2.7188	ABP6-85	ABC8-85	ABP7-85	ABC9-85
90	2.8128	2.8750	ABP6-90	ABC8-90	ABP7-90	ABC9-90
95	2.9688	3.0313	ABP6-95	ABC8-95	ABP7-95	ABC9-95
96	3.0000	3.0625	ABP6-96	ABC8-96	ABP7-96	ABC9-96
100	3.1250	3.1875	ABP6-100	ABC8-100	ABP7-100	ABC9-100

For .2405 Bore Add Prefix X to Catalog Number When Ordering. AGMA Q12 Available on Request.

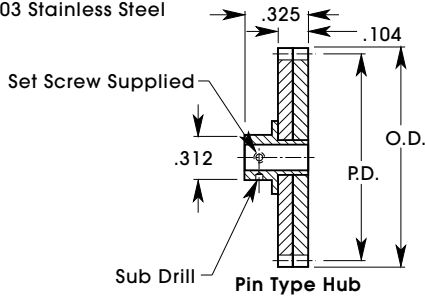
ANTI-BACKLASH GEARS

Pitch 48 • Face .104 • Bore .1250 • P.A. 20°

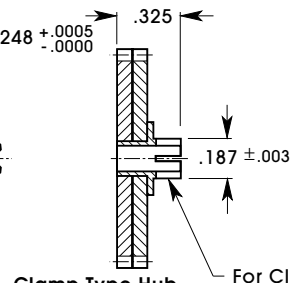
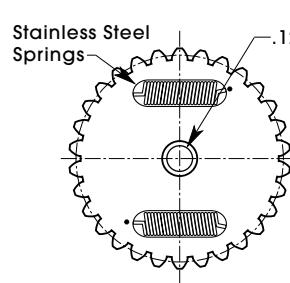
303 Stainless Steel — Clear Passivate

Aluminum 2024 — Chromic Acid Anodize

Hubs: 303 Stainless Steel



Sub Drill **Pin Type Hub**



Clamp Type Hub For Clamps See Index

AGMA Q10 Tolerances

*Theoretical

QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER 303 STAINLESS STEEL		CATALOG NUMBER ALUMINUM 2024	
			PIN TYPE	CLAMP TYPE	PIN TYPE	CLAMP TYPE
65	1.3542	1.3958	ABP10-65	ABC12-65	ABP11-65	ABC13-65
70	1.4583	1.5000	ABP10-70	ABC12-70	ABP11-70	ABC13-70
72	1.5000	1.5417	ABP10-72	ABC12-72	ABP11-72	ABC13-72
75	1.5625	1.6042	ABP10-75	ABC12-75	ABP11-75	ABC13-75
80	1.6667	1.7083	ABP10-80	ABC12-80	ABP11-80	ABC13-80
84	1.7500	1.7917	ABP10-84	ABC12-84	ABP11-84	ABC13-84
85	1.7708	1.8125	ABP10-85	ABC12-85	ABP11-85	ABC13-85
90	1.8750	1.9167	ABP10-90	ABC12-90	ABP11-90	ABC13-90
95	1.9792	2.0208	ABP10-95	ABC12-95	ABP11-95	ABC13-95
96	2.0000	2.0417	ABP10-96	ABC12-96	ABP11-96	ABC13-96
100	2.0833	2.1250	ABP10-100	ABC12-100	ABP11-100	ABC13-100
105	2.1875	2.2292	ABP10-105	ABC12-105	ABP11-105	ABC13-105
110	2.2917	2.3333	ABP10-110	ABC12-110	ABP11-110	ABC13-110
115	2.3958	2.4375	ABP10-115	ABC12-115	ABP11-115	ABC13-115
120	2.5000	2.5417	ABP10-120	ABC12-120	ABP11-120	ABC13-120
125	2.6042	2.6458	ABP10-125	ABC12-125	ABP11-125	ABC13-125
130	2.7083	2.7500	ABP10-130	ABC12-130	ABP11-130	ABC13-130
140	2.9167	2.9583	ABP10-140	ABC12-140	ABP11-140	ABC13-140
144	3.0000	3.0417	ABP10-144	ABC12-144	ABP11-144	ABC13-144
150	3.1250	3.1667	ABP10-150	ABC12-150	ABP11-150	ABC13-150

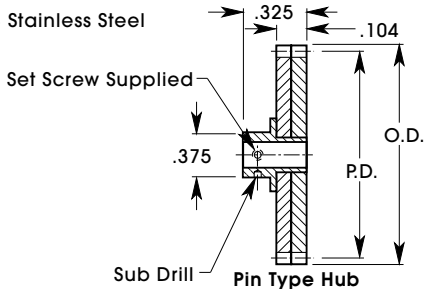
For .1200 Bore Add Prefix SX to Catalog Number When Ordering. AGMA Q12 Available on Request.

Pitch 48 • Face .104 • Bore .1875 • P.A. 20°

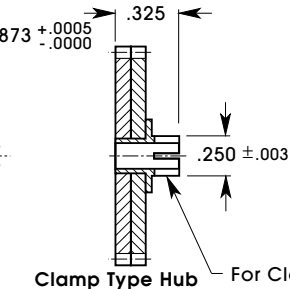
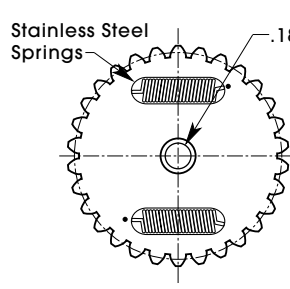
303 Stainless Steel — Clear Passivate

Aluminum 2024T4 — Chromic Acid Anodize

Hubs: 303 Stainless Steel



Sub Drill **Pin Type Hub**



Clamp Type Hub For Clamps See Index

AGMA Q10 Tolerances

*Theoretical

QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER 303 STAINLESS STEEL		CATALOG NUMBER ALUMINUM 2024	
			PIN TYPE	CLAMP TYPE	PIN TYPE	CLAMP TYPE
65	1.3542	1.3958	ABP14-65	ABC16-65	ABP15-65	ABC17-65
70	1.4583	1.5000	ABP14-70	ABC16-70	ABP15-70	ABC17-70
72	1.5000	1.5417	ABP14-72	ABC16-72	ABP15-72	ABC17-72
75	1.5625	1.6042	ABP14-75	ABC16-75	ABP15-75	ABC17-75
80	1.6667	1.7083	ABP14-80	ABC16-80	ABP15-80	ABC17-80
84	1.7500	1.7917	ABP14-84	ABC16-84	ABP15-84	ABC17-84
85	1.7708	1.8125	ABP14-85	ABC16-85	ABP15-85	ABC17-85
90	1.8750	1.9167	ABP14-90	ABC16-90	ABP15-90	ABC17-90
95	1.9792	2.0208	ABP14-95	ABC16-95	ABP15-95	ABC17-95
96	2.0000	2.0417	ABP14-96	ABC16-96	ABP15-96	ABC17-96
100	2.0833	2.1250	ABP14-100	ABC16-100	ABP15-100	ABC17-100
105	2.1875	2.2292	ABP14-105	ABC16-105	ABP15-105	ABC17-105
110	2.2917	2.3333	ABP14-110	ABC16-110	ABP15-110	ABC17-110
115	2.3958	2.4375	ABP14-115	ABC16-115	ABP15-115	ABC17-115
120	2.5000	2.5417	ABP14-120	ABC16-120	ABP15-120	ABC17-120
125	2.6042	2.6458	ABP14-125	ABC16-125	ABP15-125	ABC17-125
130	2.7083	2.7500	ABP14-130	ABC16-130	ABP15-130	ABC17-130
140	2.9167	2.9583	ABP14-140	ABC16-140	ABP15-140	ABC17-140
144	3.0000	3.0417	ABP14-144	ABC16-144	ABP15-144	ABC17-144
150	3.1250	3.1667	ABP14-150	ABC16-150	ABP15-150	ABC17-150

For .1200 Bore Add Prefix SX to Catalog Number When Ordering. AGMA Q12 Available on Request.

ANTI-BACKLASH GEARS

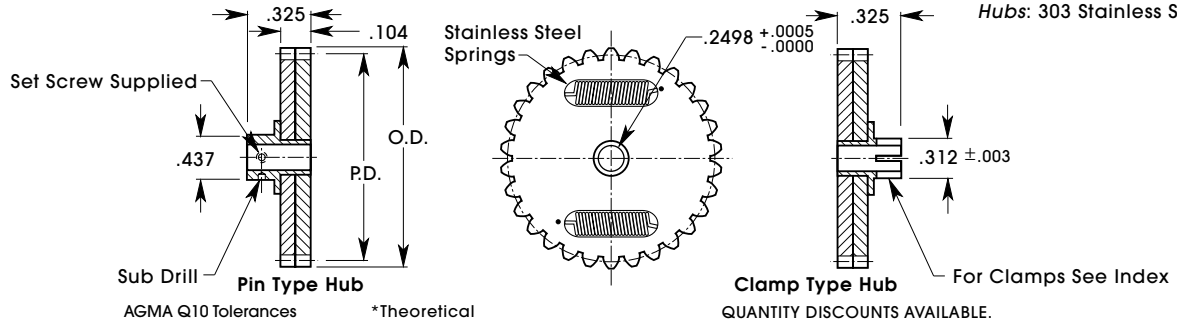
P.A. 20° • Bore .2500 • Face .104 • Pitch 48

Alternate TRU-ARC Construction for AGMA Q12-O.L. .37 Pin Type

O.L. .44 Clamp Type

303 Stainless Steel — Clear Passivate
Aluminum 2024T4 — Chromic Acid Anodize

Hubs: 303 Stainless Steel



AGMA Q10 Tolerances

*Theoretical

QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER 303 STAINLESS STEEL		CATALOG NUMBER ALUMINUM 2024	
			PIN TYPE	CLAMP TYPE	PIN TYPE	CLAMP TYPE
65	1.3542	1.3958	ABP18-65	ABC20-65	ABP19-65	ABC21-65
70	1.4583	1.5000	ABP18-70	ABC20-70	ABP19-70	ABC21-70
72	1.5000	1.5417	ABP18-72	ABC20-72	ABP19-72	ABC21-72
75	1.5625	1.6042	ABP18-75	ABC20-75	ABP19-75	ABC21-75
80	1.6667	1.7083	ABP18-80	ABC20-80	ABP19-80	ABC21-80
84	1.7500	1.7917	ABP18-84	ABC20-84	ABP19-84	ABC21-84
85	1.7708	1.8125	ABP18-85	ABC20-85	ABP19-85	ABC21-85
90	1.8750	1.9167	ABP18-90	ABC20-90	ABP19-90	ABC21-90
95	1.9792	2.0208	ABP18-95	ABC20-95	ABP19-95	ABC21-95
96	2.0000	2.0417	ABP18-96	ABC20-96	ABP19-96	ABC21-96
100	2.0833	2.1250	ABP18-100	ABC20-100	ABP19-100	ABC21-100
105	2.1875	2.2292	ABP18-105	ABC20-105	ABP19-105	ABC21-105
110	2.2917	2.3333	ABP18-110	ABC20-110	ABP19-110	ABC21-110
115	2.3958	2.4375	ABP18-115	ABC20-115	ABP19-115	ABC21-115
120	2.5000	2.5417	ABP18-120	ABC20-120	ABP19-120	ABC21-120
125	2.6042	2.6458	ABP18-125	ABC20-125	ABP19-125	ABC21-125
130	2.7083	2.7500	ABP18-130	ABC20-130	ABP19-130	ABC21-130
140	2.9167	2.9583	ABP18-140	ABC20-140	ABP19-140	ABC21-140
144	3.0000	3.0417	ABP18-144	ABC20-144	ABP19-144	ABC21-144
150	3.1250	3.1667	ABP18-150	ABC20-150	ABP19-150	ABC21-150

For .2405 Bore Add Prefix X to Catalog Number When Ordering. AGMA Q12 Available on Request.

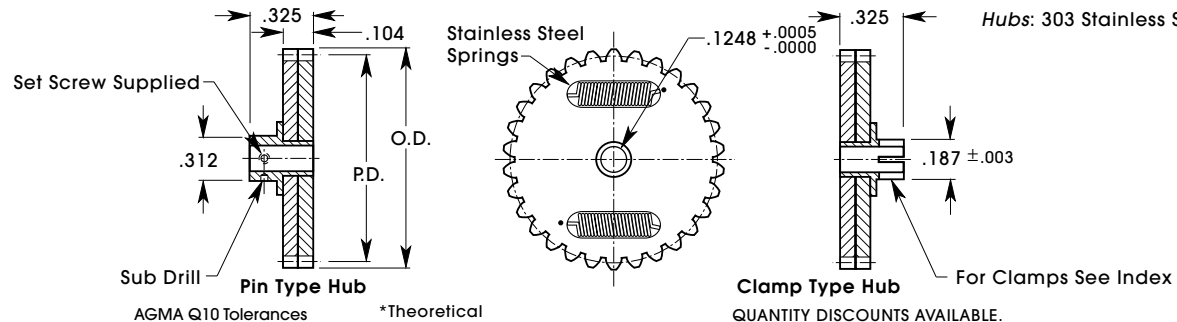
P.A. 20° • Bore .1250 • Face .104 • Pitch 64

Alternate TRU-ARC Construction for AGMA Q12-O.L. .37 Pin Type

O.L. .44 Clamp Type

303 Stainless Steel — Clear Passivate
Aluminum 2024T4 — Chromic Acid Anodize

Hubs: 303 Stainless Steel



AGMA Q10 Tolerances

*Theoretical

QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER 303 STAINLESS STEEL		CATALOG NUMBER ALUMINUM 2024	
			PIN TYPE	CLAMP TYPE	PIN TYPE	CLAMP TYPE
85	1.3281	1.3594	ABP22-85	ABC24-85	ABP23-85	ABC25-85
90	1.4063	1.4375	ABP22-90	ABC24-90	ABP23-90	ABC25-90
95	1.4844	1.5156	ABP22-95	ABC24-95	ABP23-95	ABC25-95
96	1.5000	1.5313	ABP22-96	ABC24-96	ABP23-96	ABC25-96
100	1.5625	1.5938	ABP22-100	ABC24-100	ABP23-100	ABC25-100
105	1.6406	1.6719	ABP22-105	ABC24-105	ABP23-105	ABC25-105
110	1.7188	1.7500	ABP22-110	ABC24-110	ABP23-110	ABC25-110
115	1.7969	1.8281	ABP22-115	ABC24-115	ABP23-115	ABC25-115
120	1.8750	1.9063	ABP22-120	ABC24-120	ABP23-120	ABC25-120
125	1.9531	1.9844	ABP22-125	ABC24-125	ABP23-125	ABC25-125
128	2.0000	2.0313	ABP22-128	ABC24-128	ABP23-128	ABC25-128
130	2.0313	2.0625	ABP22-130	ABC24-130	ABP23-130	ABC25-130
140	2.1875	2.2188	ABP22-140	ABC24-140	ABP23-140	ABC25-140
150	2.3438	2.3750	ABP22-150	ABC24-150	ABP23-150	ABC25-150
160	2.5000	2.5313	ABP22-160	ABC24-160	ABP23-160	ABC25-160
170	2.6563	2.6875	ABP22-170	ABC24-170	ABP23-170	ABC25-170
180	2.8125	2.8438	ABP22-180	ABC24-180	ABP23-180	ABC25-180
190	2.9688	3.0000	ABP22-190	ABC24-190	ABP23-190	ABC25-190
192	3.0000	3.0313	ABP22-192	ABC24-192	ABP23-192	ABC25-192
200	3.1250	3.1563	ABP22-200	ABC24-200	ABP23-200	ABC25-200

For .1200 Bore Add Prefix SX to Catalog Number When Ordering. AGMA Q12 Available on Request.

ANTI-BACKLASH GEARS

Pitch 64 • Face .104 • Bore .1875 • P.A. 20°

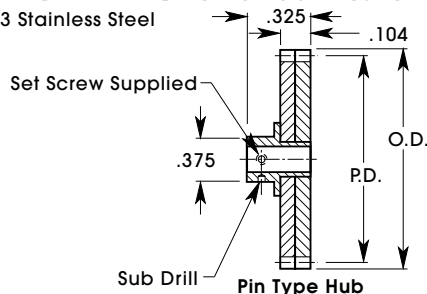
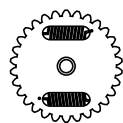
303 Stainless Steel — Clear Passivate

Aluminum 2024T4 — Chromic Acid Anodize

Hubs: 303 Stainless Steel

Alternate TRU-ARC Construction for AGMA Q12—O.L. .37 Pin Type

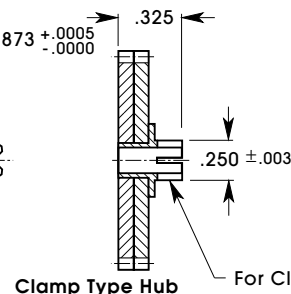
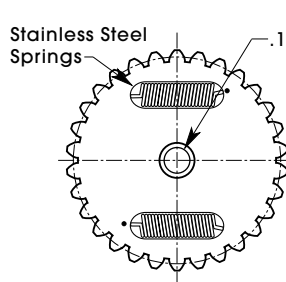
O.L. .44 Clamp Type



Pin Type Hub

AGMA Q10 Tolerances

*Theoretical



Clamp Type Hub

For Clamps See Index

QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER 303 STAINLESS STEEL		CATALOG NUMBER ALUMINUM 2024	
			PIN TYPE	CLAMP TYPE	PIN TYPE	CLAMP TYPE
85	1.3281	1.3594	ABP26-85	ABC27-85	ABP28-85	ABC29-85
90	1.4063	1.4375	ABP26-90	ABC27-90	ABP28-90	ABC29-90
95	1.4844	1.5156	ABP26-95	ABC27-95	ABP28-95	ABC29-95
96	1.5000	1.5313	ABP26-96	ABC27-96	ABP28-96	ABC29-96
100	1.5625	1.5938	ABP26-100	ABC27-100	ABP28-100	ABC29-100
105	1.6406	1.6719	ABP26-105	ABC27-105	ABP28-105	ABC29-105
110	1.7188	1.7500	ABP26-110	ABC27-110	ABP28-110	ABC29-110
115	1.7969	1.8281	ABP26-115	ABC27-115	ABP28-115	ABC29-115
120	1.8750	1.9063	ABP26-120	ABC27-120	ABP28-120	ABC29-120
125	1.9531	1.9844	ABP26-125	ABC27-125	ABP28-125	ABC29-125
128	2.0000	2.0313	ABP26-128	ABC27-128	ABP28-128	ABC29-128
130	2.0313	2.0625	ABP26-130	ABC27-130	ABP28-130	ABC29-130
140	2.1875	2.2188	ABP26-140	ABC27-140	ABP28-140	ABC29-140
150	2.3438	2.3750	ABP26-150	ABC27-150	ABP28-150	ABC29-150
160	2.5000	2.5313	ABP26-160	ABC27-160	ABP28-160	ABC29-160
170	2.6563	2.6875	ABP26-170	ABC27-170	ABP28-170	ABC29-170
180	2.8125	2.8438	ABP26-180	ABC27-180	ABP28-180	ABC29-180
190	2.9688	3.0000	ABP26-190	ABC27-190	ABP28-190	ABC29-190
192	3.0000	3.0313	ABP26-192	ABC27-192	ABP28-192	ABC29-192
200	3.1250	3.1563	ABP26-200	ABC27-200	ABP28-200	ABC29-200

For .1200 Bore Add Prefix SX to Catalog Number When Ordering. AGMA Q12 Available on Request.

Pitch 64 • Face .104 • Bore .1500 • P.A. 20°

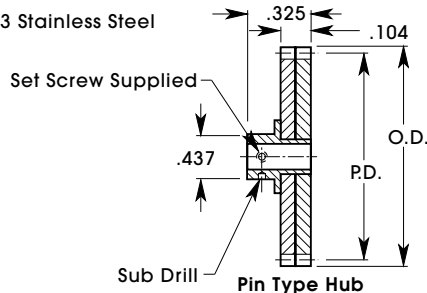
303 Stainless Steel — Clear Passivate

Aluminum 2024T4 — Chromic Acid Anodize

Hubs: 303 Stainless Steel

Alternate TRU-ARC Construction for AGMA Q12—O.L. .37 Pin Type

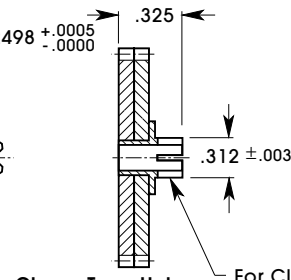
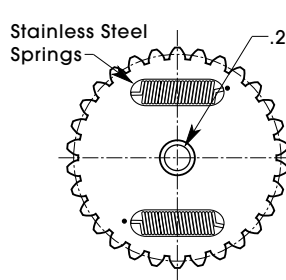
O.L. .44 Clamp Type



Pin Type Hub

AGMA Q10 Tolerances

*Theoretical



Clamp Type Hub

For Clamps See Index

QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER 303 STAINLESS STEEL		CATALOG NUMBER ALUMINUM 2024	
			PIN TYPE	CLAMP TYPE	PIN TYPE	CLAMP TYPE
85	1.3281	1.3594	ABP30-85	ABC31-85	ABP32-85	ABC33-85
90	1.4063	1.4375	ABP30-90	ABC31-90	ABP32-90	ABC33-90
95	1.4844	1.5156	ABP30-95	ABC31-95	ABP32-95	ABC33-95
96	1.5000	1.5313	ABP30-96	ABC31-96	ABP32-96	ABC33-96
100	1.5625	1.5938	ABP30-100	ABC31-100	ABP32-100	ABC33-100
105	1.6406	1.6719	ABP30-105	ABC31-105	ABP32-105	ABC33-105
110	1.7188	1.7500	ABP30-110	ABC31-110	ABP32-110	ABC33-110
115	1.7969	1.8281	ABP30-115	ABC31-115	ABP32-115	ABC33-115
120	1.8750	1.9063	ABP30-120	ABC31-120	ABP32-120	ABC33-120
125	1.9531	1.9844	ABP30-125	ABC31-125	ABP32-125	ABC33-125
128	2.0000	2.0313	ABP30-128	ABC31-128	ABP32-128	ABC33-128
130	2.0313	2.0625	ABP30-130	ABC31-130	ABP32-130	ABC33-130
140	2.1875	2.2188	ABP30-140	ABC31-140	ABP32-140	ABC33-140
150	2.3438	2.3750	ABP30-150	ABC31-150	ABP32-150	ABC33-150
160	2.5000	2.5313	ABP30-160	ABC31-160	ABP32-160	ABC33-160
170	2.6563	2.6875	ABP30-170	ABC31-170	ABP32-170	ABC33-170
180	2.8125	2.8438	ABP30-180	ABC31-180	ABP32-180	ABC33-180
190	2.9688	3.0000	ABP30-190	ABC31-190	ABP32-190	ABC33-190
192	3.0000	3.0313	ABP30-192	ABC31-192	ABP32-192	ABC33-192
200	3.1250	3.1563	ABP30-200	ABC31-200	ABP32-200	ABC33-200

For .2405 Bore Add Prefix X to Catalog Number When Ordering. AGMA Q12 Available on Request.

ANTI-BACKLASH GEARS

P.A. 20° • Bore .1250 • Face .104 • Pitch 72

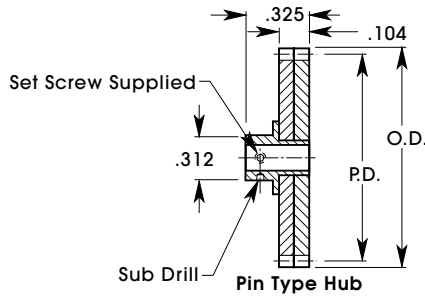
Alternate TRU-ARC Construction for AGMA Q12—O.L. .37 Pin Type

O.L. .44 Clamp Type

303 Stainless Steel — Clear Passivate

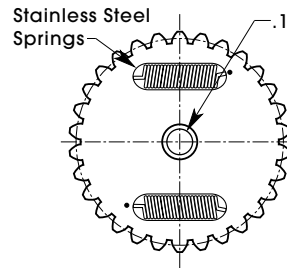
Aluminum 2024T4 — Chromic Acid Anodize

Hubs: 303 Stainless Steel

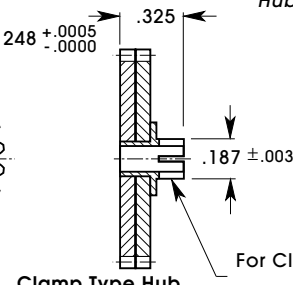


Pin Type Hub

AGMA Q10 Tolerances



*Theoretical



Clamp Type Hub

QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER 303 STAINLESS STEEL		CATALOG NUMBER ALUMINUM 2024	
			PIN TYPE	CLAMP TYPE	PIN TYPE	CLAMP TYPE
100	1.3889	1.4167	ABP34-100	ABC35-100	ABP36-100	ABC37-100
105	1.4583	1.4861	ABP34-105	ABC35-105	ABP36-105	ABC37-105
108	1.5000	1.5278	ABP34-108	ABC35-108	ABP36-108	ABC37-108
110	1.5278	1.5556	ABP34-110	ABC35-110	ABP36-110	ABC37-110
115	1.5972	1.6250	ABP34-115	ABC35-115	ABP36-115	ABC37-115
120	1.6667	1.6944	ABP34-120	ABC35-120	ABP36-120	ABC37-120
125	1.7361	1.7639	ABP34-125	ABC35-125	ABP36-125	ABC37-125
130	1.8056	1.8333	ABP34-130	ABC35-130	ABP36-130	ABC37-130
140	1.9444	1.9722	ABP34-140	ABC35-140	ABP36-140	ABC37-140
144	2.0000	2.0278	ABP34-144	ABC35-144	ABP36-144	ABC37-144
150	2.0833	2.1111	ABP34-150	ABC35-150	ABP36-150	ABC37-150
160	2.2222	2.2500	ABP34-160	ABC35-160	ABP36-160	ABC37-160
170	2.3611	2.3889	ABP34-170	ABC35-170	ABP36-170	ABC37-170
180	2.5000	2.5278	ABP34-180	ABC35-180	ABP36-180	ABC37-180
190	2.6389	2.6667	ABP34-190	ABC35-190	ABP36-190	ABC37-190
200	2.7778	2.8056	ABP34-200	ABC35-200	ABP36-200	ABC37-200
210	2.9167	2.9444	ABP34-210	ABC35-210	ABP36-210	ABC37-210
216	3.0000	3.0278	ABP34-216	ABC35-216	ABP36-216	ABC37-216
220	3.0556	3.0833	ABP34-220	ABC35-220	ABP36-220	ABC37-220
225	3.1250	3.1528	ABP34-225	ABC35-225	ABP36-225	ABC37-225

For .1200 Bore Add Prefix SX to Catalog Number When Ordering. AGMA Q12 Available on Request.

P.A. 20° • Bore .1875 • Face .104 • Pitch 72

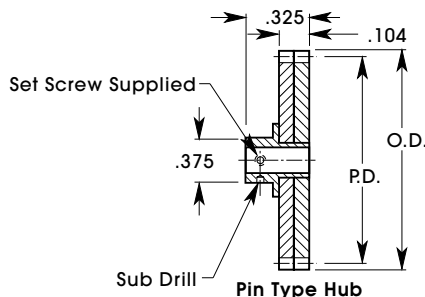
Alternate TRU-ARC Construction for AGMA Q12—O.L. .37 Pin Type

O.L. .44 Clamp Type

303 Stainless Steel — Clear Passivate

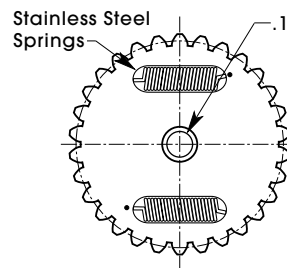
Aluminum 2024T4 — Chromic Acid Anodize

Hubs: 303 Stainless Steel

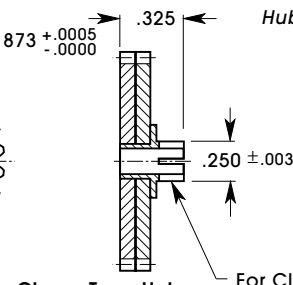


Pin Type Hub

AGMA Q10 Tolerances



*Theoretical



Clamp Type Hub

QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER 303 STAINLESS STEEL		CATALOG NUMBER ALUMINUM 2024	
			PIN TYPE	CLAMP TYPE	PIN TYPE	CLAMP TYPE
100	1.3889	1.4167	ABP38-100	ABC39-100	ABP40-100	ABC41-100
105	1.4583	1.4861	ABP38-105	ABC39-105	ABP40-105	ABC41-105
108	1.5000	1.5278	ABP38-108	ABC39-108	ABP40-108	ABC41-108
110	1.5278	1.5556	ABP38-110	ABC39-110	ABP40-110	ABC41-110
115	1.5972	1.6250	ABP38-115	ABC39-115	ABP40-115	ABC41-115
120	1.6667	1.6944	ABP38-120	ABC39-120	ABP40-120	ABC41-120
125	1.7361	1.7639	ABP38-125	ABC39-125	ABP40-125	ABC41-125
130	1.8056	1.8333	ABP38-130	ABC39-130	ABP40-130	ABC41-130
140	1.9444	1.9722	ABP38-140	ABC39-140	ABP40-140	ABC41-140
144	2.0000	2.0278	ABP38-144	ABC39-144	ABP40-144	ABC41-144
150	2.0833	2.1111	ABP38-150	ABC39-150	ABP40-150	ABC41-150
160	2.2222	2.2500	ABP38-160	ABC39-160	ABP40-160	ABC41-160
170	2.3611	2.3889	ABP38-170	ABC39-170	ABP40-170	ABC41-170
180	2.5000	2.5278	ABP38-180	ABC39-180	ABP40-180	ABC41-180
190	2.6389	2.6667	ABP38-190	ABC39-190	ABP40-190	ABC41-190
200	2.7778	2.8056	ABP38-200	ABC39-200	ABP40-200	ABC41-200
210	2.9167	2.9444	ABP38-210	ABC39-210	ABP40-210	ABC41-210
216	3.0000	3.0278	ABP38-216	ABC39-216	ABP40-216	ABC41-216
220	3.0556	3.0833	ABP38-220	ABC39-220	ABP40-220	ABC41-220
225	3.1250	3.1528	ABP38-225	ABC39-225	ABP40-225	ABC41-225

For .1200 Bore Add Prefix SX to Catalog Number When Ordering. AGMA Q12 Available on Request.

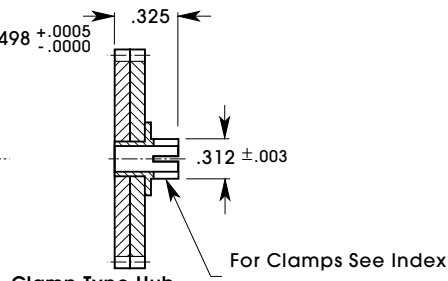
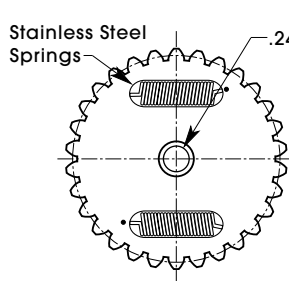
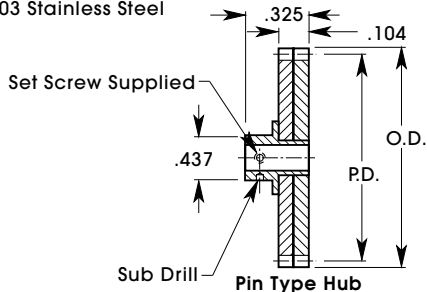
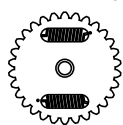
ANTI-BACKLASH GEARS

Pitch 72 • Face .104 • Bore .2500 • P.A. 20°

303 Stainless Steel — Clear Passivate
Aluminum 2024 — Chromic Acid Anodize

Hubs: 303 Stainless Steel

Alternate TRU-ARC Construction for AGMA Q12—O.L. .37 Pin Type
O.L. .44 Clamp Type



AGMA Q10 Tolerances

*Theoretical

QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER 303 STAINLESS STEEL		CATALOG NUMBER ALUMINUM 2024	
			PIN TYPE	CLAMP TYPE	PIN TYPE	CLAMP TYPE
100	1.3889	1.4167	ABP42-100	ABC43-100	ABP44-100	ABC45-100
105	1.4583	1.4861	ABP42-105	ABC43-105	ABP44-105	ABC45-105
108	1.5000	1.5278	ABP42-108	ABC43-108	ABP44-108	ABC45-108
110	1.5278	1.5556	ABP42-110	ABC43-110	ABP44-110	ABC45-110
115	1.5972	1.6250	ABP42-115	ABC43-115	ABP44-115	ABC45-115
120	1.6667	1.6944	ABP42-120	ABC43-120	ABP44-120	ABC45-120
125	1.7361	1.7639	ABP42-125	ABC43-125	ABP44-125	ABC45-125
130	1.8056	1.8333	ABP42-130	ABC43-130	ABP44-130	ABC45-130
140	1.9444	1.9722	ABP42-140	ABC43-140	ABP44-140	ABC45-140
144	2.0000	2.0278	ABP42-144	ABC43-144	ABP44-144	ABC45-144
150	2.0833	2.1111	ABP42-150	ABC43-150	ABP44-150	ABC45-150
160	2.2222	2.2500	ABP42-160	ABC43-160	ABP44-160	ABC45-160
170	2.3611	2.3889	ABP42-170	ABC43-170	ABP44-170	ABC45-170
180	2.5000	2.5278	ABP42-180	ABC43-180	ABP44-180	ABC45-180
190	2.6389	2.6667	ABP42-190	ABC43-190	ABP44-190	ABC45-190
200	2.7778	2.8056	ABP42-200	ABC43-200	ABP44-200	ABC45-200
210	2.9167	2.9444	ABP42-210	ABC43-210	ABP44-210	ABC45-210
216	3.0000	3.0278	ABP42-216	ABC43-216	ABP44-216	ABC45-216
220	3.0556	3.0833	ABP42-220	ABC43-220	ABP44-220	ABC45-220
225	3.1250	3.1528	ABP42-225	ABC43-225	ABP44-225	ABC45-225

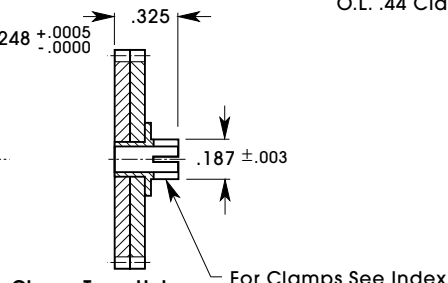
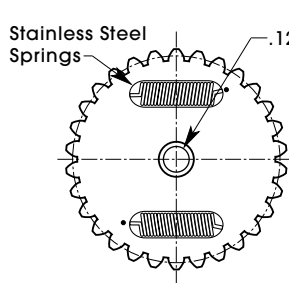
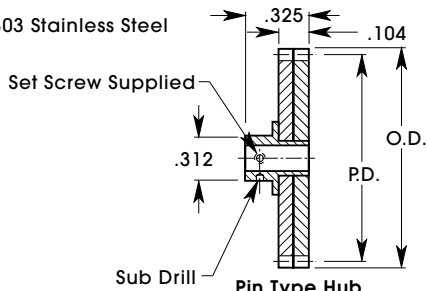
For .1200 Bore Add Prefix SX to Catalog Number When Ordering. AGMA Q12 Available on Request.

Pitch 80 • Face .104 • Bore .1250 • P.A. 20°

303 Stainless Steel — Clear Passivate
Aluminum 2024 — Chromic Acid Anodize

Hubs: 303 Stainless Steel

Alternate TRU-ARC Construction for AGMA Q12—O.L. .37 Pin Type
O.L. .44 Clamp Type



AGMA Q10 Tolerances

*Theoretical

QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER 303 STAINLESS STEEL		CATALOG NUMBER ALUMINUM 2024	
			PIN TYPE	CLAMP TYPE	PIN TYPE	CLAMP TYPE
100	1.2500	1.2750	ABP46-100	ABC47-100	ABP48-100	ABC49-100
105	1.3125	1.3375	ABP46-105	ABC47-105	ABP48-105	ABC49-105
110	1.3750	1.4000	ABP46-110	ABC47-110	ABP48-110	ABC49-110
115	1.4375	1.4625	ABP46-115	ABC47-115	ABP48-115	ABC49-115
120	1.5000	1.5250	ABP46-120	ABC47-120	ABP48-120	ABC49-120
125	1.5625	1.5750	ABP46-125	ABC47-125	ABP48-125	ABC49-125
130	1.6250	1.6500	ABP46-130	ABC47-130	ABP48-130	ABC49-130
135	1.6875	1.7125	ABP46-135	ABC47-135	ABP48-135	ABC49-135
140	1.7500	1.7750	ABP46-140	ABC47-140	ABP48-140	ABC49-140
145	1.8125	1.8375	ABP46-145	ABC47-145	ABP48-145	ABC49-145
150	1.8750	1.9000	ABP46-150	ABC47-150	ABP48-150	ABC49-150
160	2.0000	2.0250	ABP46-160	ABC47-160	ABP48-160	ABC49-160
170	2.1250	2.1500	ABP46-170	ABC47-170	ABP48-170	ABC49-170
180	2.2500	2.2750	ABP46-180	ABC47-180	ABP48-180	ABC49-180
190	2.3750	2.4000	ABP46-190	ABC47-190	ABP48-190	ABC49-190
200	2.5000	2.5250	ABP46-200	ABC47-200	ABP48-200	ABC49-200
220	2.7500	2.7750	ABP46-220	ABC47-220	ABP48-220	ABC49-220
240	3.0000	3.0250	ABP46-240	ABC47-240	ABP48-240	ABC49-240
250	3.1250	3.1500	ABP46-250	ABC47-250	ABP48-250	ABC49-250

For .1200 Bore Add Prefix SX to Catalog Number When Ordering. AGMA Q12 Available on Request.

ANTI-BACKLASH GEARS

Alternate TRU-ARC Construction for AGMA Q12—O.L. .37 Pin Type

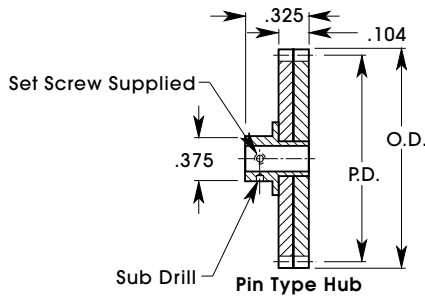
O.L. .44 Clamp Type

P.A. 20° • Bore .1875 • Face .104 • Pitch 80

303 Stainless Steel — Clear Passivate

Aluminum 2024 — Chromic Acid Anodize

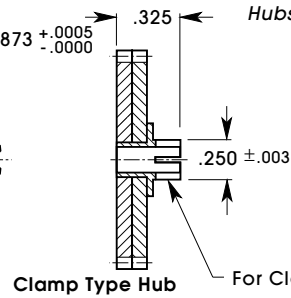
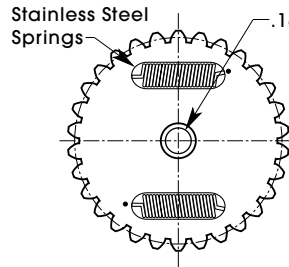
Hubs: 303 Stainless Steel



Sub Drill Pin Type Hub

AGMA Q10 Tolerances

*Theoretical



Clamp Type Hub

QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER 303 STAINLESS STEEL		CATALOG NUMBER ALUMINUM 2024	
			PIN TYPE	CLAMP TYPE	PIN TYPE	CLAMP TYPE
100	1.2500	1.2750	ABP50-100	ABC51-100	ABP52-100	ABC53-100
105	1.3125	1.3375	ABP50-105	ABC51-105	ABP52-105	ABC53-105
110	1.3750	1.4000	ABP50-110	ABC51-110	ABP52-110	ABC53-110
115	1.4375	1.4625	ABP50-115	ABC51-115	ABP52-115	ABC53-115
120	1.5000	1.5250	ABP50-120	ABC51-120	ABP52-120	ABC53-120
125	1.5625	1.5750	ABP50-125	ABC51-125	ABP52-125	ABC53-125
130	1.6250	1.6500	ABP50-130	ABC51-130	ABP52-130	ABC53-130
135	1.6875	1.7125	ABP50-135	ABC51-135	ABP52-135	ABC53-135
140	1.7500	1.7750	ABP50-140	ABC51-140	ABP52-140	ABC53-140
145	1.8125	1.8375	ABP50-145	ABC51-145	ABP52-145	ABC53-145
150	1.8750	1.9000	ABP50-150	ABC51-150	ABP52-150	ABC53-150
160	2.0000	2.0250	ABP50-160	ABC51-160	ABP52-160	ABC53-160
170	2.1250	2.1500	ABP50-170	ABC51-170	ABP52-170	ABC53-170
180	2.2500	2.2750	ABP50-180	ABC51-180	ABP52-180	ABC53-180
190	2.3750	2.4000	ABP50-190	ABC51-190	ABP52-190	ABC53-190
200	2.5000	2.5250	ABP50-200	ABC51-200	ABP52-200	ABC53-200
220	2.7500	2.7750	ABP50-220	ABC51-220	ABP52-220	ABC53-220
240	3.0000	3.0250	ABP50-240	ABC51-240	ABP52-240	ABC53-240
250	3.1250	3.1500	ABP50-250	ABC51-250	ABP52-250	ABC53-250

For .1200 Bore Add Prefix SX to Catalog Number When Ordering. AGMA Q12 Available on Request.

P.A. 20° • Bore .2500 • Face .104 • Pitch 80

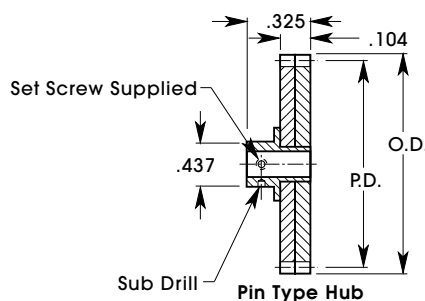
Alternate TRU-ARC Construction for AGMA Q12—O.L. .37 Pin Type

O.L. .44 Clamp Type

303 Stainless Steel — Clear Passivate

Aluminum 2024 — Chromic Acid Anodize

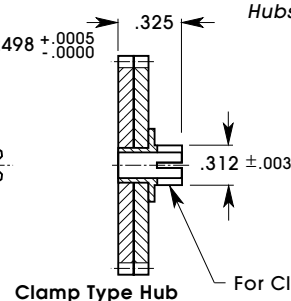
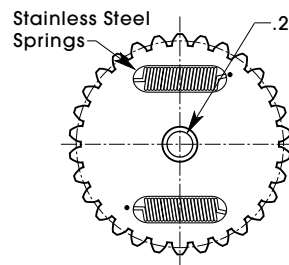
Hubs: 303 Stainless Steel



Sub Drill Pin Type Hub

AGMA Q10 Tolerances

*Theoretical



Clamp Type Hub

QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER 303 STAINLESS STEEL		CATALOG NUMBER ALUMINUM 2024	
			PIN TYPE	CLAMP TYPE	PIN TYPE	CLAMP TYPE
100	1.2500	1.2750	ABP54-100	ABC55-100	ABP56-100	ABC57-100
105	1.3125	1.3375	ABP54-105	ABC55-105	ABP56-105	ABC57-105
110	1.3750	1.4000	ABP54-110	ABC55-110	ABP56-110	ABC57-110
115	1.4375	1.4625	ABP54-115	ABC55-115	ABP56-115	ABC57-115
120	1.5000	1.5250	ABP54-120	ABC55-120	ABP56-120	ABC57-120
125	1.5625	1.5875	ABP54-125	ABC55-125	ABP56-125	ABC57-125
130	1.6250	1.6500	ABP54-130	ABC55-130	ABP56-130	ABC57-130
135	1.6875	1.7125	ABP54-135	ABC55-135	ABP56-135	ABC57-135
140	1.7500	1.7750	ABP54-140	ABC55-140	ABP56-140	ABC57-140
145	1.8125	1.8375	ABP54-145	ABC55-145	ABP56-145	ABC57-145
150	1.8750	1.9000	ABP54-150	ABC55-150	ABP56-150	ABC57-150
160	2.0000	2.0250	ABP54-160	ABC55-160	ABP56-160	ABC57-160
170	2.1250	2.1500	ABP54-170	ABC55-170	ABP56-170	ABC57-170
180	2.2500	2.2750	ABP54-180	ABC55-180	ABP56-180	ABC57-180
190	2.3750	2.4000	ABP54-190	ABC55-190	ABP56-190	ABC57-190
200	2.5000	2.5250	ABP54-200	ABC55-200	ABP56-200	ABC57-200
220	2.7500	2.7750	ABP54-220	ABC55-220	ABP56-220	ABC57-220
240	3.0000	3.0250	ABP54-240	ABC55-240	ABP56-240	ABC57-240
250	3.1250	3.1500	ABP54-250	ABC55-250	ABP56-250	ABC57-250

For .1200 Bore Add Prefix SX to Catalog Number When Ordering. AGMA Q12 Available on Request.

ANTI-BACKLASH GEARS

Pitch 96 • Face .104 • Bore .1250 • P.A. 20°

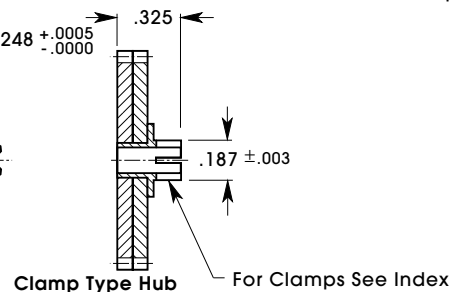
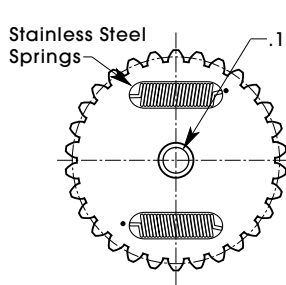
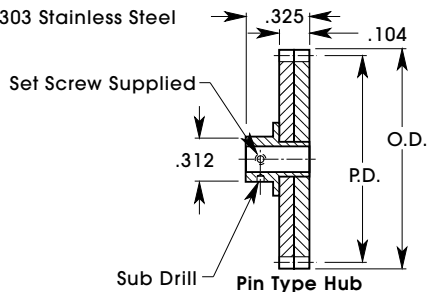
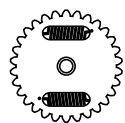
303 Stainless Steel — Clear Passivate

Aluminum 2024 — Chromic Acid Anodize

Hubs: 303 Stainless Steel

Alternate TRU-ARC Construction for AGMA Q12—O.L. .37 Pin Type

O.L. .44 Clamp Type



AGMA Q10 Tolerances

*Theoretical

QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER 303 STAINLESS STEEL		CATALOG NUMBER ALUMINUM 2024	
			PIN TYPE	CLAMP TYPE	PIN TYPE	CLAMP TYPE
130	1.3542	1.3750	ABP58-130	ABC59-130	ABP60-130	ABC61-130
135	1.4063	1.4271	ABP58-135	ABC59-135	ABP60-135	ABC61-135
140	1.4583	1.4792	ABP58-140	ABC59-140	ABP60-140	ABC61-140
144	1.5000	1.5208	ABP58-144	ABC59-144	ABP60-144	ABC61-144
145	1.5104	1.5313	ABP58-145	ABC59-145	ABP60-145	ABC61-145
150	1.5625	1.5833	ABP58-150	ABC59-150	ABP60-150	ABC61-150
160	1.6667	1.6875	ABP58-160	ABC59-160	ABP60-160	ABC61-160
170	1.7708	1.7917	ABP58-170	ABC59-170	ABP60-170	ABC61-170
180	1.8750	1.8958	ABP58-180	ABC59-180	ABP60-180	ABC61-180
190	1.9792	2.0000	ABP58-190	ABC59-190	ABP60-190	ABC61-190
192	2.0000	2.0208	ABP58-192	ABC59-192	ABP60-192	ABC61-192
200	2.0833	2.1042	ABP58-200	ABC59-200	ABP60-200	ABC61-200
210	2.1875	2.2083	ABP58-210	ABC59-210	ABP60-210	ABC61-210
220	2.2917	2.3125	ABP58-220	ABC59-220	ABP60-220	ABC61-220
230	2.3958	2.4167	ABP58-230	ABC59-230	ABP60-230	ABC61-230
240	2.5000	2.5208	ABP58-240	ABC59-240	ABP60-240	ABC61-240
250	2.6042	2.6250	ABP58-250	ABC59-250	ABP60-250	ABC61-250
260	2.7083	2.7292	ABP58-260	ABC59-260	ABP60-260	ABC61-260
270	2.8125	2.8333	ABP58-270	ABC59-270	ABP60-270	ABC61-270
288	3.0000	3.0208	ABP58-288	ABC59-288	ABP60-288	ABC61-288
300	3.1250	3.1458	ABP58-300	ABC59-300	ABP60-300	ABC61-300

For .1200 Bore Add Prefix SX to Catalog Number When Ordering. AGMA Q12 Available on Request.

Pitch 96 • Face .104 • Bore .1875 • P.A. 20°

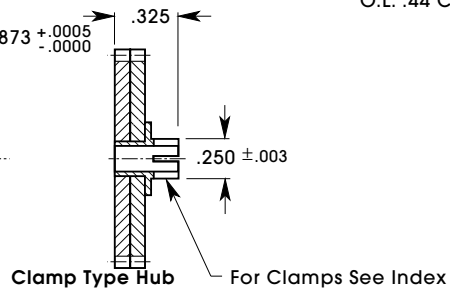
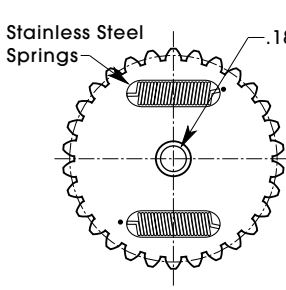
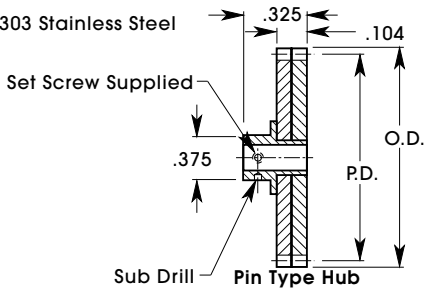
303 Stainless Steel — Clear Passivate

Aluminum 2024 — Chromic Acid Anodize

Hubs: 303 Stainless Steel

Alternate TRU-ARC Construction for AGMA Q12—O.L. .37 Pin Type

O.L. .44 Clamp Type



AGMA Q10 Tolerances

*Theoretical

QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER 303 STAINLESS STEEL		CATALOG NUMBER ALUMINUM 2024	
			PIN TYPE	CLAMP TYPE	PIN TYPE	CLAMP TYPE
130	1.3542	1.3750	ABP62-130	ABC63-130	ABP64-130	ABC65-130
135	1.4063	1.4271	ABP62-135	ABC63-135	ABP64-135	ABC65-135
140	1.4583	1.4792	ABP62-140	ABC63-140	ABP64-140	ABC65-140
144	1.5000	1.5208	ABP62-144	ABC63-144	ABP64-144	ABC65-144
145	1.5104	1.5313	ABP62-145	ABC63-145	ABP64-145	ABC65-145
150	1.5625	1.5833	ABP62-150	ABC63-150	ABP64-150	ABC65-150
160	1.6667	1.6875	ABP62-160	ABC63-160	ABP64-160	ABC65-160
170	1.7708	1.7917	ABP62-170	ABC63-170	ABP64-170	ABC65-170
180	1.8750	1.8958	ABP62-180	ABC63-180	ABP64-180	ABC65-180
190	1.9792	2.0000	ABP62-190	ABC63-190	ABP64-190	ABC65-190
192	2.0000	2.0208	ABP62-192	ABC63-192	ABP64-192	ABC65-192
200	2.0833	2.1042	ABP62-200	ABC63-200	ABP64-200	ABC65-200
210	2.1875	2.2083	ABP62-210	ABC63-210	ABP64-210	ABC65-210
220	2.2917	2.3125	ABP62-220	ABC63-220	ABP64-220	ABC65-220
230	2.3958	2.4167	ABP62-230	ABC63-230	ABP64-230	ABC65-230
240	2.5000	2.5208	ABP62-240	ABC63-240	ABP64-240	ABC65-240
250	2.6042	2.6250	ABP62-250	ABC63-250	ABP64-250	ABC65-250
260	2.7083	2.7292	ABP62-260	ABC63-260	ABP64-260	ABC65-260
270	2.8125	2.8333	ABP62-270	ABC63-270	ABP64-270	ABC65-270
288	3.0000	3.0208	ABP62-288	ABC63-288	ABP64-288	ABC65-288
300	3.1250	3.1458	ABP62-300	ABC63-300	ABP64-300	ABC65-300

For .1200 Bore Add Prefix SX to Catalog Number When Ordering. AGMA Q12 Available on Request.

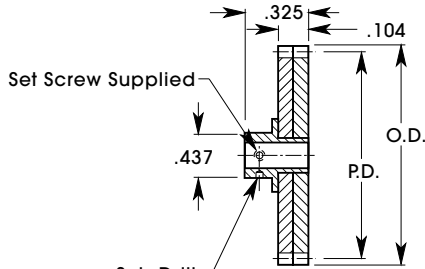
ANTI-BACKLASH GEARS

Alternate TRU-ARC Construction for AGMA Q12—O.L. .37 Pin Type
O.L. .44 Clamp Type

P.A. 20° • Bore .2500 • Face .104 • Pitch 96

303 Stainless Steel — Clear Passivate
Aluminum 2024 — Chromic Acid Anodize

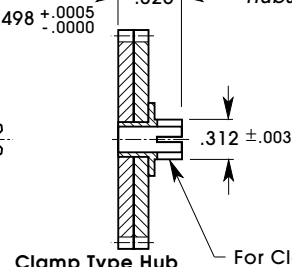
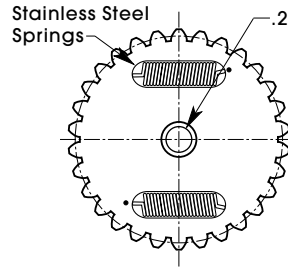
Hubs: 303 Stainless Steel



Sub Drill Pin Type Hub

AGMA Q10 Tolerances

*Theoretical



Clamp Type Hub

For Clamps See Index

QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER 303 STAINLESS STEEL		CATALOG NUMBER ALUMINUM 2024	
			PIN TYPE	CLAMP TYPE	PIN TYPE	CLAMP TYPE
130	1.3542	1.3750	ABP66-130	ABC67-130	ABP68-130	ABC69-130
135	1.4063	1.4271	ABP66-135	ABC67-135	ABP68-135	ABC69-135
140	1.4583	1.4792	ABP66-140	ABC67-140	ABP68-140	ABC69-140
144	1.5000	1.5208	ABP66-144	ABC67-144	ABP68-144	ABC69-144
145	1.5104	1.5313	ABP66-145	ABC67-145	ABP68-145	ABC69-145
150	1.5625	1.5833	ABP66-150	ABC67-150	ABP68-150	ABC69-150
160	1.6667	1.6875	ABP66-160	ABC67-160	ABP68-160	ABC69-160
170	1.7708	1.7917	ABP66-170	ABC67-170	ABP68-170	ABC69-170
180	1.8750	1.8958	ABP66-180	ABC67-180	ABP68-180	ABC69-180
190	1.9792	2.0000	ABP66-190	ABC67-190	ABP68-190	ABC69-190
192	2.0000	2.0208	ABP66-192	ABC67-192	ABP68-192	ABC69-192
200	2.0833	2.1042	ABP66-200	ABC67-200	ABP68-200	ABC69-200
210	2.1875	2.2083	ABP66-210	ABC67-210	ABP68-210	ABC69-210
220	2.2917	2.3125	ABP66-220	ABC67-220	ABP68-220	ABC69-220
230	2.3958	2.4167	ABP66-230	ABC67-230	ABP68-230	ABC69-230
240	2.5000	2.5208	ABP66-240	ABC67-240	ABP68-240	ABC69-240
250	2.6042	2.6250	ABP66-250	ABC67-250	ABP68-250	ABC69-250
260	2.7083	2.7292	ABP66-260	ABC67-260	ABP68-260	ABC69-260
270	2.8125	2.8333	ABP66-270	ABC67-270	ABP68-270	ABC69-270
288	3.0000	3.0208	ABP66-288	ABC67-288	ABP68-288	ABC69-288
300	3.1250	3.1458	ABP66-300	ABC67-300	ABP68-300	ABC69-300

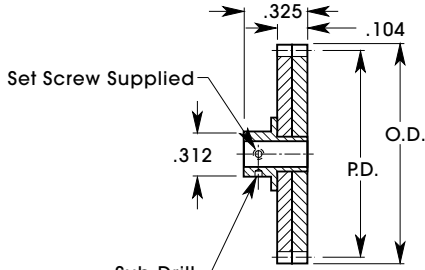
For .2405 Bore Add Prefix X to Catalog Number When Ordering. AGMA Q12 Available on Request.

Alternate TRU-ARC Construction for AGMA Q12—O.L. .37 Pin Type
O.L. .44 Clamp Type

P.A. 20° • Bore .1250 • Face .104 • Pitch 120

303 Stainless Steel — Clear Passivate
Aluminum 2024 — Chromic Acid Anodize

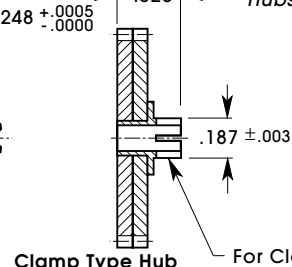
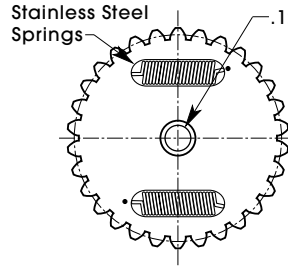
Hubs: 303 Stainless Steel



Sub Drill Pin Type Hub

AGMA Q10 Tolerances

*Theoretical



Clamp Type Hub

For Clamps See Index

QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER 303 STAINLESS STEEL		CATALOG NUMBER ALUMINUM 2024	
			PIN TYPE	CLAMP TYPE	PIN TYPE	CLAMP TYPE
160	1.3333	1.3500	ABP70-160	ABC71-160	ABP72-160	ABC73-160
170	1.4167	1.4333	ABP70-170	ABC71-170	ABP72-170	ABC73-170
180	1.5000	1.5167	ABP70-180	ABC71-180	ABP72-180	ABC73-180
190	1.5833	1.6000	ABP70-190	ABC71-190	ABP72-190	ABC73-190
200	1.6667	1.6833	ABP70-200	ABC71-200	ABP72-200	ABC73-200
210	1.7500	1.7667	ABP70-210	ABC71-210	ABP72-210	ABC73-210
220	1.8333	1.8500	ABP70-220	ABC71-220	ABP72-220	ABC73-220
230	1.9167	1.9333	ABP70-230	ABC71-230	ABP72-230	ABC73-230
240	2.0000	2.0167	ABP70-240	ABC71-240	ABP72-240	ABC73-240
250	2.0833	2.1000	ABP70-250	ABC71-250	ABP72-250	ABC73-250
260	2.1667	2.1833	ABP70-260	ABC71-260	ABP72-260	ABC73-260
270	2.2500	2.2667	ABP70-270	ABC71-270	ABP72-270	ABC73-270
280	2.3333	2.3500	ABP70-280	ABC71-280	ABP72-280	ABC73-280
290	2.4167	2.4333	ABP70-290	ABC71-290	ABP72-290	ABC73-290
300	2.5000	2.5167	ABP70-300	ABC71-300	ABP72-300	ABC73-300
310	2.5833	2.6000	ABP70-310	ABC71-310	ABP72-310	ABC73-310
320	2.6667	2.6833	ABP70-320	ABC71-320	ABP72-320	ABC73-320
330	2.7500	2.7667	ABP70-330	ABC71-330	ABP72-330	ABC73-330
340	2.8333	2.8500	ABP70-340	ABC71-340	ABP72-340	ABC73-340
350	2.9167	2.9333	ABP70-350	ABC71-350	ABP72-350	ABC73-350
360	3.0000	3.0167	ABP70-360	ABC71-360	ABP72-360	ABC73-360

For .1200 Bore Add Prefix SX to Catalog Number When Ordering. AGMA Q12 Available on Request.

ANTI-BACKLASH GEARS

Pitch 120 • Face .104 • Bore .1875 • P.A. 20°

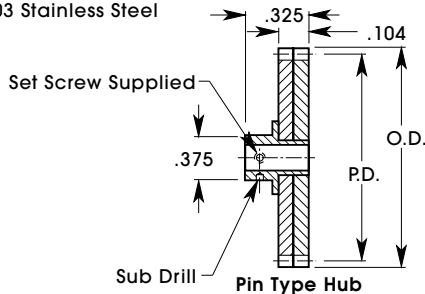
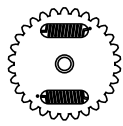
303 Stainless Steel — Clear Passivate

Aluminum 2024 — Chromic Acid Anodize

Hubs: 303 Stainless Steel

Alternate TRU-ARC Construction for AGMA Q12—O.L. .37 Pin Type

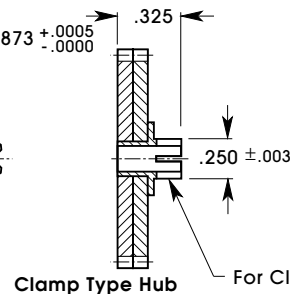
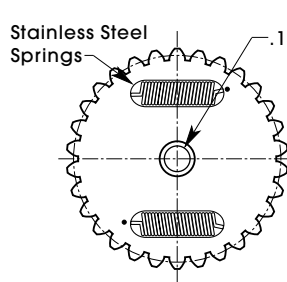
O.L. .44 Clamp Type



Sub Drill **Pin Type Hub**

AGMA Q10 Tolerances

*Theoretical



Clamp Type Hub

For Clamps See Index

QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER 303 STAINLESS STEEL		CATALOG NUMBER ALUMINUM 2024	
			PIN TYPE	CLAMP TYPE	PIN TYPE	CLAMP TYPE
160	1.3333	1.3500	ABP74-160	ABC75-160	ABP76-160	ABC77-160
170	1.4167	1.4333	ABP74-170	ABC75-170	ABP76-170	ABC77-170
180	1.5000	1.5167	ABP74-180	ABC75-180	ABP76-180	ABC77-180
190	1.5833	1.6000	ABP74-190	ABC75-190	ABP76-190	ABC77-190
200	1.6667	1.6833	ABP74-200	ABC75-200	ABP76-200	ABC77-200
210	1.7500	1.7667	ABP74-210	ABC75-210	ABP76-210	ABC77-210
220	1.8333	1.8500	ABP74-220	ABC75-220	ABP76-220	ABC77-220
230	1.9167	1.9333	ABP74-230	ABC75-230	ABP76-230	ABC77-230
240	2.0000	2.0167	ABP74-240	ABC75-240	ABP76-240	ABC77-240
250	2.0833	2.1000	ABP74-250	ABC75-250	ABP76-250	ABC77-250
260	2.1667	2.1833	ABP74-260	ABC75-260	ABP76-260	ABC77-260
270	2.2500	2.2667	ABP74-270	ABC75-270	ABP76-270	ABC77-270
280	2.3333	2.3500	ABP74-280	ABC75-280	ABP76-280	ABC77-280
290	2.4167	2.4333	ABP74-290	ABC75-290	ABP76-290	ABC77-290
300	2.5000	2.5167	ABP74-300	ABC75-300	ABP76-300	ABC77-300
310	2.5833	2.6000	ABP74-310	ABC75-310	ABP76-310	ABC77-310
320	2.6667	2.6833	ABP74-320	ABC75-320	ABP76-320	ABC77-320
330	2.7500	2.7667	ABP74-330	ABC75-330	ABP76-330	ABC77-330
340	2.8333	2.8500	ABP74-340	ABC75-340	ABP76-340	ABC77-340
350	2.9167	2.9333	ABP74-350	ABC75-350	ABP76-350	ABC77-350
360	3.0000	3.0167	ABP74-360	ABC75-360	ABP76-360	ABC77-360

For .1200 Bore Add Prefix SX to Catalog Number When Ordering. AGMA Q12 Available on Request.

Pitch 120 • Face .104 • Bore .2500 • P.A. 20°

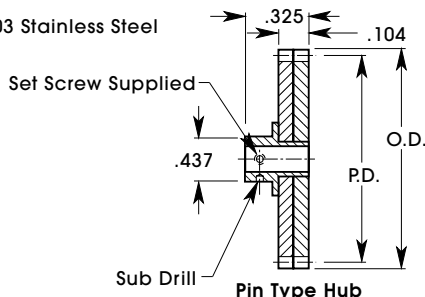
303 Stainless Steel — Clear Passivate

Aluminum 2024 — Chromic Acid Anodize

Hubs: 303 Stainless Steel

Alternate TRU-ARC Construction for AGMA Q12—O.L. .37 Pin Type

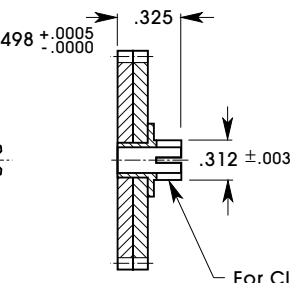
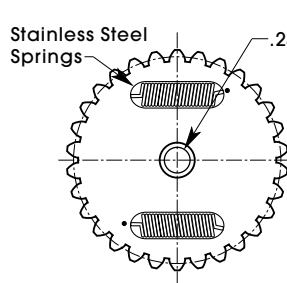
O.L. .44 Clamp Type



Sub Drill **Pin Type Hub**

AGMA Q10 Tolerances

*Theoretical



Clamp Type Hub

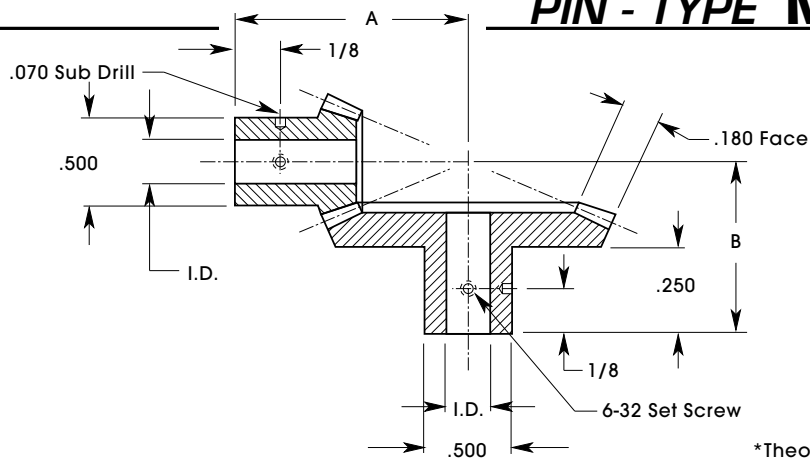
For Clamps See Index

QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER 303 STAINLESS STEEL		CATALOG NUMBER ALUMINUM 2024	
			PIN TYPE	CLAMP TYPE	PIN TYPE	CLAMP TYPE
160	1.3333	1.3500	ABP78-160	ABC79-160	ABP80-160	ABC81-160
170	1.4167	1.4333	ABP78-170	ABC79-170	ABP80-170	ABC81-170
180	1.5000	1.5167	ABP78-180	ABC79-180	ABP80-180	ABC81-180
190	1.5833	1.6000	ABP78-190	ABC79-190	ABP80-190	ABC81-190
200	1.6667	1.6833	ABP78-200	ABC79-200	ABP80-200	ABC81-200
210	1.7500	1.7667	ABP78-210	ABC79-210	ABP80-210	ABC81-210
220	1.8333	1.8500	ABP78-220	ABC79-220	ABP80-220	ABC81-220
230	1.9167	1.9333	ABP78-230	ABC79-230	ABP80-230	ABC81-230
240	2.0000	2.0167	ABP78-240	ABC79-240	ABP80-240	ABC81-240
250	2.0833	2.1000	ABP78-250	ABC79-250	ABP80-250	ABC81-250
260	2.1667	2.1833	ABP78-260	ABC79-260	ABP80-260	ABC81-260
270	2.2500	2.2667	ABP78-270	ABC79-270	ABP80-270	ABC81-270
280	2.3333	2.3500	ABP78-280	ABC79-280	ABP80-280	ABC81-280
290	2.4167	2.4333	ABP78-290	ABC79-290	ABP80-290	ABC81-290
300	2.5000	2.5167	ABP78-300	ABC79-300	ABP80-300	ABC81-300
310	2.5833	2.6000	ABP78-310	ABC79-310	ABP80-310	ABC81-310
320	2.6667	2.6833	ABP78-320	ABC79-320	ABP80-320	ABC81-320
330	2.7500	2.7667	ABP78-330	ABC79-330	ABP80-330	ABC81-330
340	2.8333	2.8500	ABP78-340	ABC79-340	ABP80-340	ABC81-340
350	2.9167	2.9333	ABP78-350	ABC79-350	ABP80-350	ABC81-350
360	3.0000	3.0167	ABP78-360	ABC79-360	ABP80-360	ABC81-360

For .2405 Bore Add Prefix X to Catalog Number When Ordering. AGMA Q12 Available on Request.

PIN - TYPE MITER & BEVEL GEARS



P.A. 20° • Bore .2500 • Pitch 48

AGMA Q10 & Q12 Tolerances • Matched Sets
303 Stainless Steel — Clear Passivate
Aluminum 2024T4 — Chromic Acid Anodize

Bore Tolerances: AGMA Q10 +.0005
-.0000

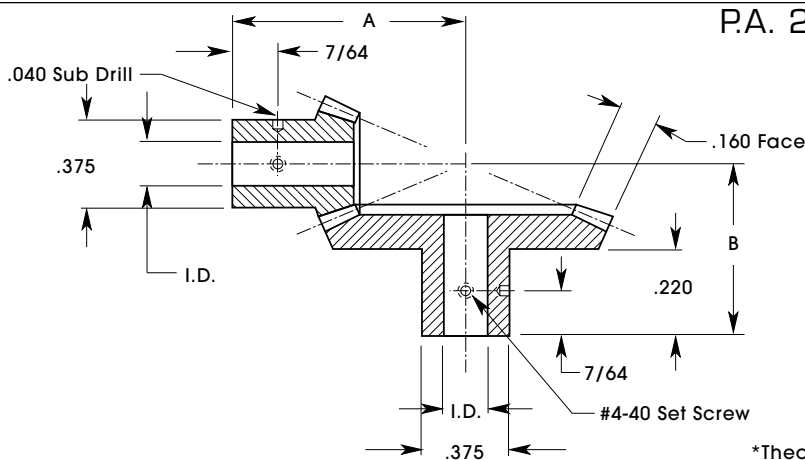
AGMA Q12 +.0005
-.0000

*Theoretical

Special Miter and Bevel Gears
Available on Request.

Clamp Type Available
on Request

I.D. BORE	RATIO	NO. OF TEETH	P.D.*	A	B	MATERIAL	CATALOG NUMBER	
							Q10	Q12
.2498	1:1	30 30	.625 .625	.687	.687	SS AL	GBP1	GBP8
.2498	1:2	30 60	.625 1.250	.937	.687	SS AL	GBP2	GBP9
.2498	1:3	30 90	.625 1.875	1.250	.687	SS AL	GBP3	GBP10
.2498	1:4	30 120	.625 2.500	1.531	.687	SS AL	GBP4	GBP11
.2498	1:1	30 30	.625 .625	.687	.687	SS SS	GBP5	GBP12
.2498	1:1	30 30	.625 .625	.687	.687	AL AL	GBP6	GBP13
.2498	1:1.5	30 45	.625 .937	.812	.687	SS AL	GBP7	GBP14



P.A. 20° • Bore .1562 & .1875 • Pitch 64

AGMA Q10 & Q12 Tolerances • Matched Sets
303 Stainless Steel — Clear Passivate
Aluminum 2024T4 — Chromic Acid Anodize

Bore Tolerances: AGMA Q10 +.0005
-.0000

AGMA Q12 +.0005
-.0000

*Theoretical

Special Miter and Bevel Gears
Available on Request.

Clamp Type Available
on Request

I.D. BORE	RATIO	NO. OF TEETH	P.D.*	A	B	MATERIAL	CATALOG NUMBER	
							Q10	Q12
.1873	1:1	32 32	.500 .500	.562	.562	SS AL	GBP15	GBP25
.1873	1:2	32 64	.500 1.000	.750	.562	SS AL	GBP16	GBP26
.1873	1:3	32 96	.500 1.500	1.000	.562	SS AL	GBP17	GBP27
.1873	1:4	32 128	.500 2.000	1.250	.562	SS AL	GBP18	GBP28
.1873	1:1	32 32	.500 .500	.562	.562	AL AL	GBP20	GBP30
.1873	1:2	32 64	.500 1.000	.750	.562	SS SS	GBP21	GBP31
.1873	1:2	32 64	.500 1.000	.750	.562	AL AL	GBP22	GBP32
.1562 .1873	1:1	32 32	.500 .500	.562	.562	SS AL	GBP23	GBP33
.1562 .1873	1:2	32 64	.500 1.000	.750	.562	SS AL	GBP24	GBP34

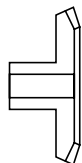
MITER & BEVEL GEARS PIN - TYPE

Pitch 72 • Bore .1200 & .1250 & .1562 • P.A. 20°

AGMA Q10 & Q12 Tolerances • Matched Sets

303 Stainless Steel — Clear Passivate

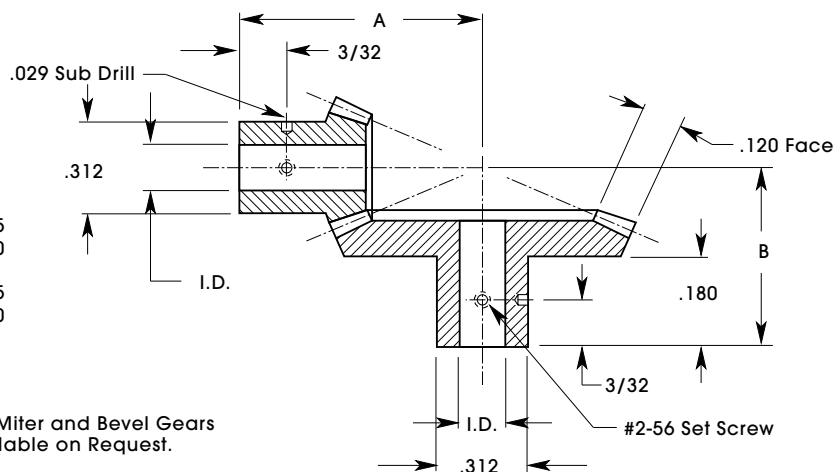
Aluminum 2024T4 — Chromic Acid Anodize



Bore Tolerances: AGMA Q10 $\begin{matrix} +.0005 \\ -.0000 \end{matrix}$
 AGMA Q12 $\begin{matrix} +.0005 \\ -.0000 \end{matrix}$

Special Miter and Bevel Gears
 Available on Request.

Clamp Type Available
 on Request



*Theoretical

I.D. BORE	RATIO	NO. OF TEETH	P.D.*	A	B	MATERIAL	CATALOG NUMBER	
							Q10	Q12
.1248	1:1	36 36	.500 .500	.531	.531	SS AL	GBP35	GBP50
.1248	1:2	36 72	.500 1.000	.750	.531	SS AL	GBP36	GBP51
.1248	1:3	36 108	.500 1.500	1.000	.531	SS AL	GBP37	GBP52
.1248	1:1	36 36	.500 .500	.531	.531	SS SS	GBP38	GBP53
.1248	1:2	36 72	.500 1.000	.750	.531	SS SS	GBP39	GBP54
.1248	1:3	36 108	.500 1.500	1.000	.531	SS SS	GBP40	GBP55
.1248	1:1	36 36	.500 .500	.531	.531	AL AL	GBP41	GBP56
.1248	1:2	36 72	.500 1.000	.750	.531	AL AL	GBP42	GBP57
.1248	1:3	36 108	.500 1.500	1.000	.531	AL AL	GBP43	GBP58
.1248	1:1	36 36	.500 .500	.531	.531	SS AL	GBP44	GBP59
.1200 .1248	1:1	36 36	.500 .500	.531	.531	SS AL	GBP45	GBP60
.1562 .1248	1:1	36 36	.500 .500	.531	.531	SS AL	GBP46	GBP61
.1248	1:1	24 24	.333 .333	.437	.437	SS SS	GBP47	GBP62
.1248	1:1	24 24	.333 .333	.437	.437	SS AL	GBP48	GBP63
.1248	1:1	24 24	.333 .333	.437	.437	AL AL	GBP49	GBP64

PIN-TYPE WORM GEARS

P.A. $141\frac{1}{2}^\circ$ • Pitch 48
 Right Hand • Single Thread
 Bores $1/8$ • $3/16$ • $1/4$
 Bronze QQ-B-637 Alloy 464

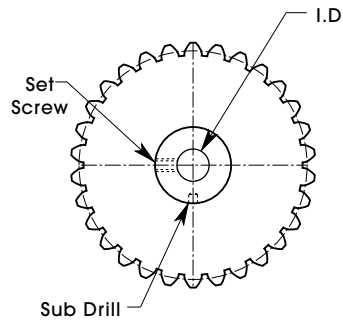
Mates With WD5 & WD6 Worm

QUANTITY DISCOUNTS AVAILABLE.

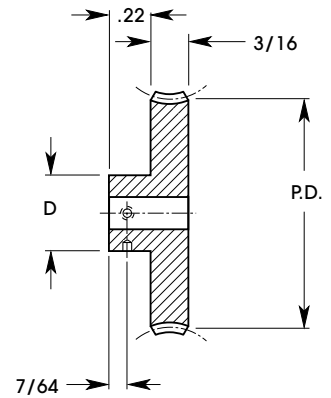
Special Bores Available on Request. Clamp Available on Request.

NO. OF TEETH	PITCH DIAMETER* -.001	INNER DIAMETER +.0005	D	DRILL AND SCREW	CATALOG NUMBER
30	.6250	.1248	.3125	.029 SUB DR. AND # 2-56 SET SCREW	WGP1-1
40	.8333				WGP1-2
50	1.0417				WGP1-3
60	1.2500				WGP1-4
70	1.4583				WGP1-5
80	1.6667				WGP1-6
90	1.8750				WGP1-7
100	2.0833				WGP1-8
120	2.5000				WGP1-9
30	.6250	.1873	.3750	.040 SUB DR. AND # 4-40 SET SCREW	WGP1-10
40	.8333				WGP1-11
50	1.0417				WGP1-12
60	1.2500				WGP1-13
70	1.4583				WGP1-14
80	1.6667				WGP1-15
90	1.8750				WGP1-16
100	2.0833				WGP1-17
120	2.5000				WGP1-18
30	.6250	.2498	.5000	.070 SUB DR. AND # 6-32 SET SCREW	WGP1-19
40	.8333				WGP1-20
50	1.0417				WGP1-21
60	1.2500				WGP1-22
70	1.4583				WGP1-23
80	1.6667				WGP1-24
90	1.8750				WGP1-25
100	2.0833				WGP1-26
120	2.5000				WGP1-27

*Theoretical



SECS PRE. I Tol.



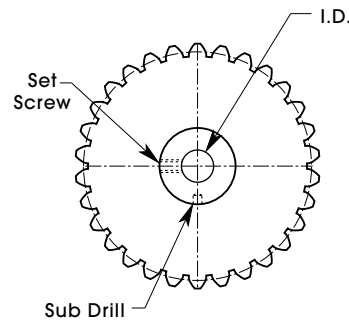
Ratio = No. of Teeth ÷ 1

QUANTITY DISCOUNTS AVAILABLE.

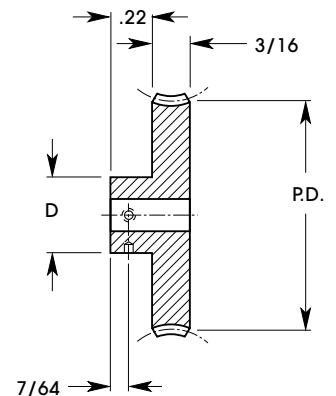
Special Bores Available on Request. Clamp Available on Request.

NO. OF TEETH	PITCH DIAMETER* -.001	INNER DIAMETER +.0005	D	DRILL AND SCREW	CATALOG NUMBER
40	.6250	.1248	.3125	.029 SUB DR. AND # 2-56 SET SCREW	WGP2-1
50	.7813				WGP2-2
60	.9375				WGP2-3
70	1.0938				WGP2-4
80	1.2500				WGP2-5
90	1.4063				WGP2-6
100	1.5625				WGP2-7
110	1.7188				WGP2-8
120	1.8750				WGP2-9
40	.6250	.1873	.3750	.040 SUB DR. AND # 4-40 SET SCREW	WGP2-10
50	.7813				WGP2-11
60	.9375				WGP2-12
70	1.0938				WGP2-13
80	1.2500				WGP2-14
90	1.4063				WGP2-15
100	1.5625				WGP2-16
110	1.7188				WGP2-17
120	1.8750				WGP2-18
40	.6250	.2498	.5000	.070 SUB DR. AND # 6-32 SET SCREW	WGP2-19
50	.7813				WGP2-20
60	.9375				WGP2-21
70	1.0938				WGP2-22
80	1.2500				WGP2-23
90	1.4063				WGP2-24
100	1.5625				WGP2-25
110	1.7188				WGP2-26
120	1.8750				WGP2-27

*Theoretical



SECS PRE. I Tol.



Ratio = No. of Teeth ÷ 1

P.A. $141\frac{1}{2}^\circ$ • Pitch 64
 Right Hand • Single Thread
 Bores $1/8$ • $3/16$ • $1/4$
 Bronze QQ-B-637 Alloy 464

Mates With WD7, WD8 & WD9 Worm

WORM GEARS PIN TYPE

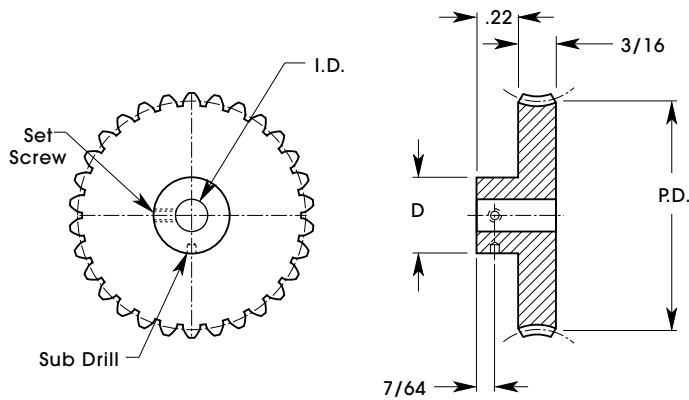
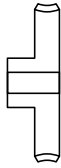
Pitch 48 • P.A. 20°

Double Thread • Right Hand

Bores 1/8 • 3/16 • 1/4

Bronze QQ-B-637 Alloy 464

Mates With WD3 & WD4 Worm



SECS PRE. I Tol.

Ratio = No. of Teeth ÷ 2

QUANTITY DISCOUNTS AVAILABLE.

Special Bores Available on Request. Clamp Available on Request.

NO. OF TEETH	PITCH DIAMETER* -.001	INNER DIAMETER +.0005	D	DRILL AND SCREW	CATALOG NUMBER
30	.6250	.1248	.3125	.029 SUB DR. AND # 2-56 SET SCREW	WGP3-1
40	.8333				WGP3-2
50	1.0417				WGP3-3
60	1.2500				WGP3-4
70	1.4583				WGP3-5
80	1.6667				WGP3-6
90	1.8750				WGP3-7
100	2.0833	.1873	.3750	.040 SUB DR. AND # 4-40 SET SCREW	WGP3-8
120	2.5000				WGP3-9
30	.6250				WGP3-10
40	.8333				WGP3-11
50	1.0417				WGP3-12
60	1.2500				WGP3-13
70	1.4583				WGP3-14
80	1.6667				WGP3-15
90	1.8750	.2498	.5000	.070 SUB DR. AND # 6-32 SET SCREW	WGP3-16
100	2.0833				WGP3-17
120	2.5000				WGP3-18
30	.6250				WGP3-19
40	.8333				WGP3-20
50	1.0417				WGP3-21
60	1.2500				WGP3-22
70	1.4583				WGP3-23
80	1.6667				WGP3-24
90	1.8750				WGP3-25
100	2.0833				WGP3-26
120	2.5000				WGP3-27

*Theoretical

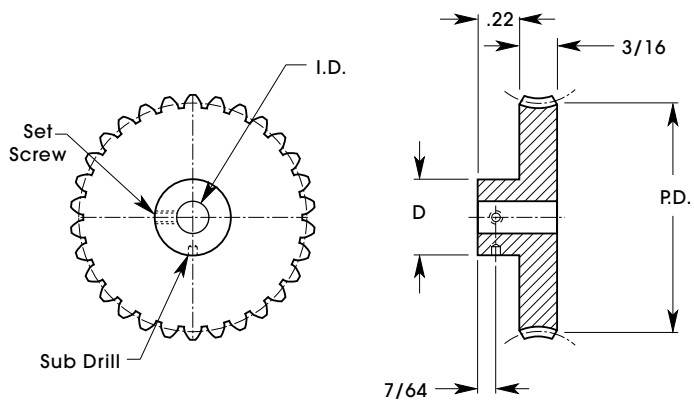
Pitch 64 • P.A. 14 1/2°

Double Thread • Right Hand

Bores 1/8 • 3/16 • 1/4

Bronze QQ-B-637 Alloy 464

Mates With WD10, WD11 & WD12 Worm



SECS PRE. I Tol.

Ratio = No. of Teeth ÷ 2

QUANTITY DISCOUNTS AVAILABLE.

Special Bores Available on Request. Clamp Available on Request.

NO. OF TEETH	PITCH DIAMETER* -.001	INNER DIAMETER +.0005	D	DRILL AND SCREW	CATALOG NUMBER
40	.6250	.1248	.3125	.029 SUB DR. AND # 2-56 SET SCREW	WGP4-1
50	.7813				WGP4-2
60	.9375				WGP4-3
70	1.0938				WGP4-4
80	1.2500				WGP4-5
90	1.4063				WGP4-6
100	1.5625				WGP4-7
110	1.7188	.1873	.3750	.040 SUB DR. AND # 4-40 SET SCREW	WGP4-8
120	1.8750				WGP4-9
40	.6250				WGP4-10
50	.7813				WGP4-11
60	.9375				WGP4-12
70	1.0938				WGP4-13
80	1.2500				WGP4-14
90	1.4063	.2498	.5000	.070 SUB DR. AND # 6-32 SET SCREW	WGP4-15
100	1.5625				WGP4-16
110	1.7188				WGP4-17
120	1.8750				WGP4-18
40	.6250				WGP4-19
50	.7813				WGP4-20
60	.9375				WGP4-21
70	1.0938				WGP4-22
80	1.2500				WGP4-23
90	1.4063				WGP4-24
100	1.5625				WGP4-25
110	1.7188				WGP4-26
120	1.8750				WGP4-27

*Theoretical

PIN-TYPE WORM GEARS

P.A. 25° • Pitch 48

Right Hand • Four Thread

Bores 1/8 • 3/16 • 1/4

Bronze QQ-B-637 Alloy 464

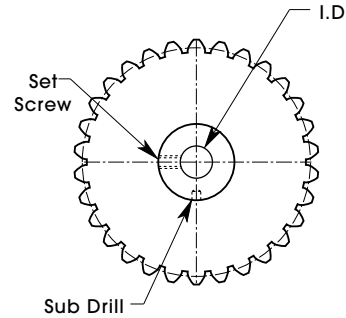
Mates With WD5 & WD6 Worm

QUANTITY DISCOUNTS AVAILABLE.

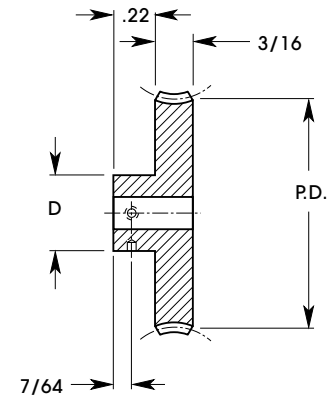
Special Bores Available on Request. Clamp Available on Request.

NO. OF TEETH	PITCH DIAMETER* -.001	INNER DIAMETER +.0005	D	DRILL AND SCREW	CATALOG NUMBER
30	.6250				WGP5-1
40	.8333				WGP5-2
50	1.0417				WGP5-3
60	1.2500				WGP5-4
70	1.4583	.1248	.3125	.029 SUB DR. AND # 2-56 SET SCREW	WGP5-5
80	1.6667				WGP5-6
90	1.8750				WGP5-7
100	2.0833				WGP5-8
120	2.5000				WGP5-9
30	.6250				WGP5-10
40	.8333				WGP5-11
50	1.0417				WGP5-12
60	1.2500				WGP5-13
70	1.4583	.1873	.3750	.040 SUB DR. AND # 4-40 SET SCREW	WGP5-14
80	1.6667				WGP5-15
90	1.8750				WGP5-16
100	2.0833				WGP5-17
120	2.5000				WGP5-18
30	.6250				WGP5-19
40	.8333				WGP5-20
50	1.0417				WGP5-21
60	1.2500				WGP5-22
70	1.4583	.2498	.5000	.070 SUB DR. AND # 6-32 SET SCREW	WGP5-23
80	1.6667				WGP5-24
90	1.8750				WGP5-25
100	2.0833				WGP5-26
120	2.5000				WGP5-27

*Theoretical



SECS PRE. I Tol.



Ratio = No. of Teeth ÷ 4

P.A. 14 1/2° • Pitch 64

Right Hand • Four Thread

Bores 1/8 • 3/16 • 1/4

Bronze QQ-B-637 Alloy 464

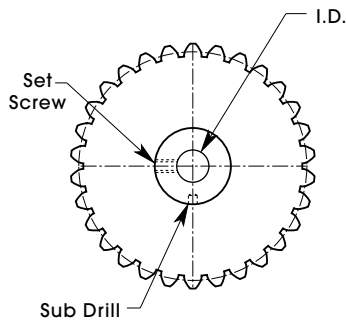
Mates With WD13, WD14 & WD15 Worm

QUANTITY DISCOUNTS AVAILABLE.

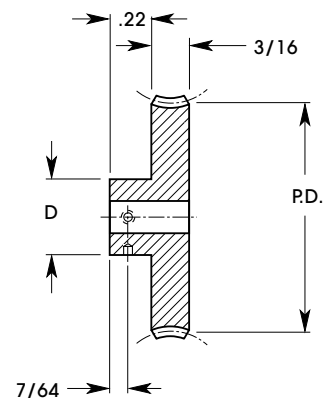
Special Bores Available on Request. Clamp Available on Request.

NO. OF TEETH	PITCH DIAMETER* -.001	INNER DIAMETER +.0005	D	DRILL AND SCREW	CATALOG NUMBER
40	.6250				WGP6-1
50	.7813				WGP6-2
60	.9375				WGP6-3
70	1.0938				WGP6-4
80	1.2500	.1248	.3125	.029 SUB DR. AND # 2-56 SET SCREW	WGP6-5
90	1.4063				WGP6-6
100	1.5625				WGP6-7
110	1.7188				WGP6-8
120	1.8750				WGP6-9
40	.6250				WGP6-10
50	.7813				WGP6-11
60	.9375				WGP6-12
70	1.0938				WGP6-13
80	1.2500	.1873	.3750	.040 SUB DR. AND # 4-40 SET SCREW	WGP6-14
90	1.4063				WGP6-15
100	1.5625				WGP6-16
110	1.7188				WGP6-17
120	1.8750				WGP6-18
40	.6250				WGP6-19
50	.7813				WGP6-20
60	.9375				WGP6-21
70	1.0938				WGP6-22
80	1.2500	.2498	.5000	.070 SUB DR. AND # 6-32 SET SCREW	WGP6-23
90	1.4063				WGP6-24
100	1.5625				WGP6-25
110	1.7188				WGP6-26
120	1.8750				WGP6-27

*Theoretical



SECS PRE. I Tol.



Ratio = No. of Teeth ÷ 4

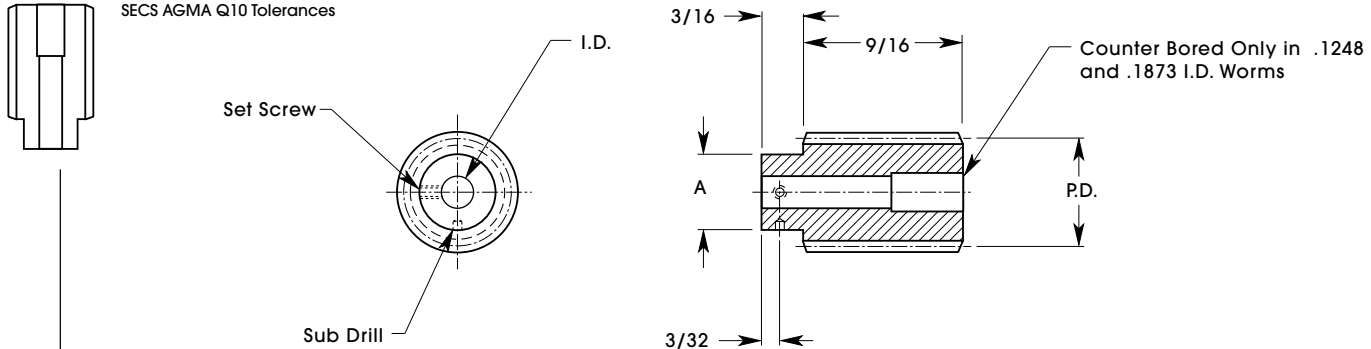
WORMS

Pitch 48 • Right Hand

Single Thread • Double Thread • Four Thread

Bores 1/8 • 3/16

303 Stainless Steel – Clear Passivate



48 PITCH	SINGLE THREAD	DOUBLE THREAD	FOUR THREAD
LEAD	.0654	.1309	.2618
LEAD ANGLE	3°35'	7°7'	14°2'
PRESSURE ANGLE	14-1/2°	20°	25°

QUANTITY DISCOUNTS AVAILABLE.

PITCH DIAMETER* -.001	INNER DIAMETER +.0005	A	SUB DRILL	SET SCREW	CATALOG NUMBER		
					SINGLE THREAD	DOUBLE THREAD	FOUR THREAD
.3333	.1248	.3125	.029	#2-56	WS1	WD3	WF5
	.1873		.040	#4-40	WS2	WD4	WF6

*Theoretical

Special Worm Gears Available on Request. For Mating Worm Gears See Preceding Section.

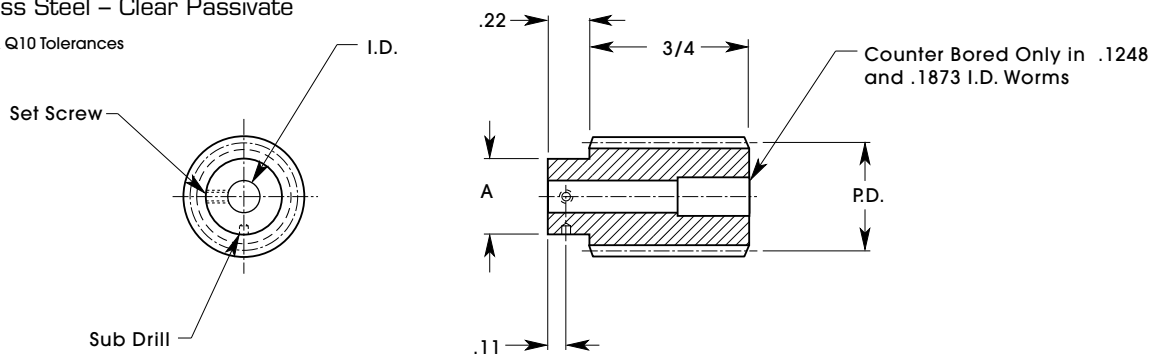
Pitch 64 • Right Hand

Single Thread • Double Thread • Four Thread

Bores 1/8 • 3/16 • 1/4

303 Stainless Steel – Clear Passivate

SECS AGMA Q10 Tolerances



64 PITCH	SINGLE THREAD	DOUBLE THREAD	FOUR THREAD
LEAD	.04908	.0982	.19635
LEAD ANGLE	1°47'	3°35'	7°7'
PRESSURE ANGLE	14-1/2°	14-1/2°	14-1/2°

QUANTITY DISCOUNTS AVAILABLE.

PITCH DIAMETER* -.001	INNER DIAMETER +.0005	A	SUB DRILL	SET SCREW	CATALOG NUMBER		
					SINGLE THREAD	DOUBLE THREAD	FOUR THREAD
.5000	.1248	.3125	.029	#2-56	WS7	WD10	WF13
	.1873	.3750	.040	#4-40	WS8	WD11	WF14
	.2498	.4375	.086	#6-32	WS9	WD12	WF15

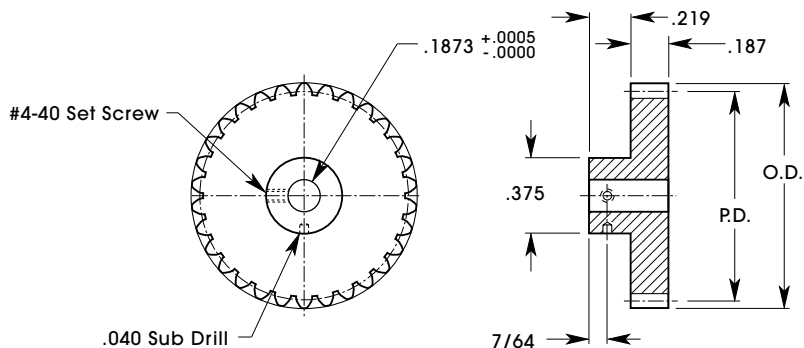
*Theoretical

Special Worm Gears Available on Request. For Mating Worm Gears See Preceding Section.

RIGHT & LEFT HAND HELICAL GEARS

Helical Angle 45° • Bore .1875 • Face 3/16 • Pitch 48

303 Stainless Steel — Clear Passivate
Aluminum 2024 — Chromic Acid Anodize



AGMA Q10 Tolerances

*Theoretical

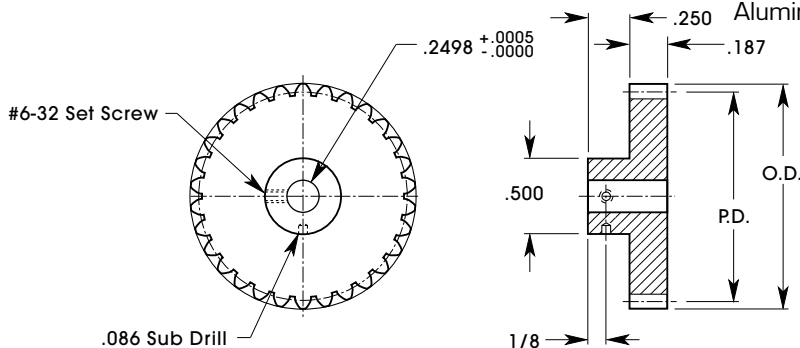
QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER 303 STAINLESS STEEL		CATALOG NUMBER ALUMINUM 2024	
			RIGHT HAND	LEFT HAND	RIGHT HAND	LEFT HAND
20	.5892	.631	HG1	HG25	HG2	HG26
25	.7365	.778	HG3	HG27	HG4	HG28
30	.8838	.925	HG5	HG29	HG6	HG30
35	1.0311	1.072	HG7	HG31	HG8	HG32
40	1.1784	1.220	HG9	HG33	HG10	HG34
45	1.3258	1.367	HG11	HG35	HG12	HG36
50	1.4730	1.514	HG13	HG37	HG14	HG38
60	1.7676	1.809	HG15	HG39	HG16	HG40
70	2.0622	2.104	HG17	HG41	HG18	HG42
80	2.3568	2.398	HG19	HG43	HG20	HG44
90	2.6516	2.693	HG21	HG45	HG22	HG46
100	2.9460	2.987	HG23	HG47	HG24	HG48

Special Number of Teeth, Bore Size, Materials and Finishes Available on Request.

Helical Angle 45° • Bore .2500 • Face 3/16 • Pitch 48

303 Stainless Steel — Clear Passivate
Aluminum 2024 — Chromic Acid Anodize



AGMA Q10 Tolerances

*Theoretical

QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER 303 STAINLESS STEEL		CATALOG NUMBER ALUMINUM 2024	
			RIGHT HAND	LEFT HAND	RIGHT HAND	LEFT HAND
20	.5892	.631	HG49	HG73	HG50	HG74
25	.7365	.778	HG51	HG75	HG52	HG76
30	.8838	.925	HG53	HG77	HG54	HG78
35	1.0311	1.072	HG55	HG79	HG56	HG80
40	1.1784	1.220	HG57	HG81	HG58	HG82
45	1.3258	1.367	HG59	HG83	HG60	HG84
50	1.4730	1.514	HG61	HG85	HG62	HG86
60	1.7676	1.809	HG63	HG87	HG64	HG88
70	2.0622	2.104	HG65	HG89	HG66	HG90
80	2.3568	2.398	HG67	HG91	HG68	HG92
90	2.6516	2.693	HG69	HG93	HG70	HG94
100	2.9460	2.987	HG71	HG95	HG72	HG96

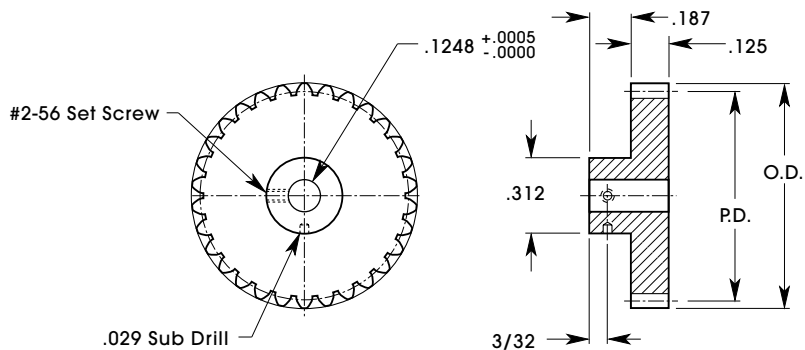
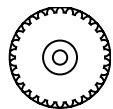
Special Number of Teeth, Bore Size, Materials and Finishes Available on Request.

HELICAL GEARS *RIGHT & LEFT HAND*

Pitch 64 • Face 1/8 • Bore .1250 • Helical Angle 45°

303 Stainless Steel — Clear Passivate

Aluminum 2024 — Chromic Acid Anodize



AGMA Q10 Tolerances

*Theoretical

QUANTITY DISCOUNTS AVAILABLE.

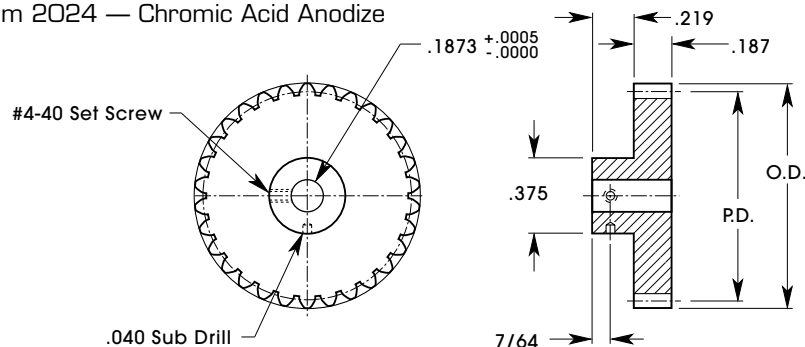
NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER 303 STAINLESS STEEL		CATALOG NUMBER ALUMINUM 2024	
			RIGHT HAND	LEFT HAND	RIGHT HAND	LEFT HAND
20	.4419	.473	HG97	HG121	HG98	HG122
25	.5524	.583	HG99	HG123	HG100	HG124
30	.6629	.694	HG101	HG125	HG102	HG126
35	.7733	.804	HG103	HG127	HG104	HG128
40	.8838	.915	HG105	HG129	HG106	HG130
45	.9943	1.025	HG107	HG131	HG108	HG132
50	1.1048	1.136	HG109	HG133	HG110	HG134
60	1.3257	1.357	HG111	HG135	HG112	HG136
70	1.5466	1.577	HG113	HG137	HG114	HG138
80	1.7676	1.799	HG115	HG139	HG116	HG140
90	1.9889	2.020	HG117	HG141	HG118	HG142
100	2.2096	2.241	HG119	HG143	HG120	HG144

Special Number of Teeth, Bore Size, Materials and Finishes Available on Request.

Pitch 64 • Face 3/16 • Bore .1875 • Helical Angle 45°

303 Stainless Steel — Clear Passivate

Aluminum 2024 — Chromic Acid Anodize



AGMA Q10 Tolerances

*Theoretical

QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER 303 STAINLESS STEEL		CATALOG NUMBER ALUMINUM 2024	
			RIGHT HAND	LEFT HAND	RIGHT HAND	LEFT HAND
20	.4419	.473	HG145	HG169	HG146	HG170
25	.5524	.583	HG147	HG171	HG148	HG172
30	.6629	.694	HG149	HG173	HG150	HG174
35	.7733	.804	HG151	HG175	HG152	HG176
40	.8838	.915	HG153	HG177	HG154	HG178
45	.9943	1.025	HG155	HG179	HG156	HG180
50	1.1048	1.136	HG157	HG181	HG158	HG182
60	1.3257	1.357	HG159	HG183	HG160	HG184
70	1.5466	1.577	HG161	HG185	HG162	HG186
80	1.7676	1.799	HG163	HG187	HG164	HG188
90	1.9889	2.020	HG165	HG189	HG166	HG190
100	2.2096	2.241	HG167	HG191	HG168	HG192

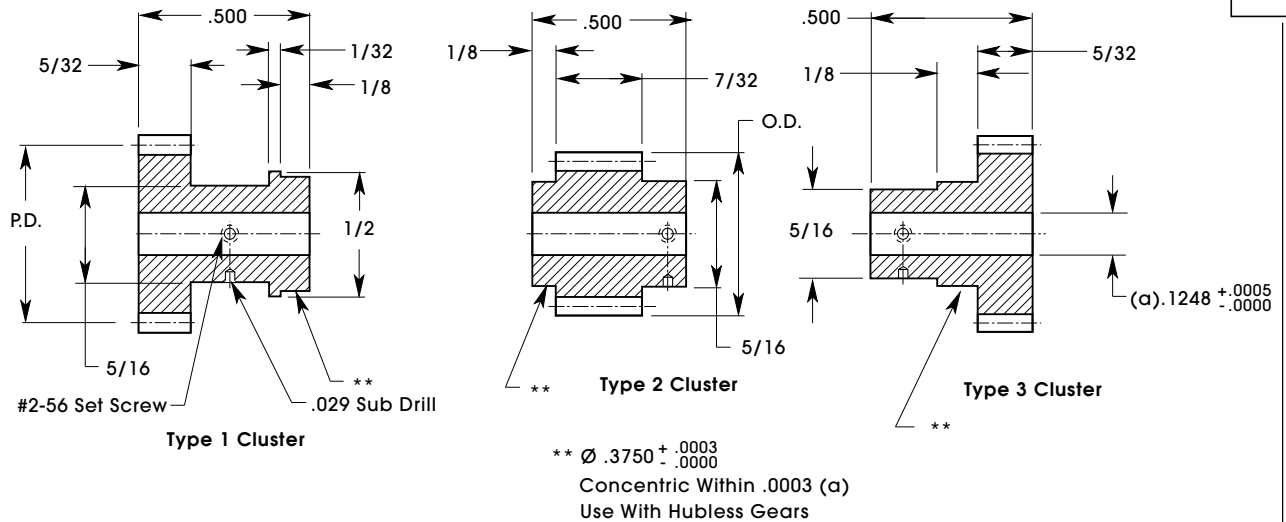
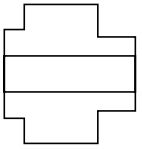
Special Number of Teeth, Bore Size, Materials and Finishes Available on Request.

CLUSTER GEAR & HUBS

Pitch 48 • 64 • 72 • 80 • 96 • 120

P.A. 20° • Bore .1250

303 Stainless Steel — Clear Passivate



AGMA Q10 Tolerances

QUANTITY DISCOUNTS AVAILABLE.

PITCH	NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER/CLUSTER		
				TYPE 1	TYPE 2	TYPE 3
48	20	.4167	.4583	CLG1-1	CLG2-1	CLG3-1
	30	.6250	.6667	CLG1-2	CLG2-2	CLG3-2
	40	.8333	.8750	CLG1-3	CLG2-3	CLG3-3
	50	1.0417	1.0833	CLG1-4	CLG2-4	CLG3-4
64	25	.3906	.4212	CLG1-5	CLG2-5	CLG3-5
	30	.4688	.5000	CLG1-6	CLG2-6	CLG3-6
	40	.6250	.6563	CLG1-7	CLG2-7	CLG3-7
	50	.7813	.8125	CLG1-8	CLG2-8	CLG3-8
72	30	.4167	.4444	CLG1-9	CLG2-9	CLG3-9
	40	.5556	.5833	CLG1-10	CLG2-10	CLG3-10
	50	.6944	.7222	CLG1-11	CLG2-11	CLG3-11
	60	.8333	.8611	CLG1-12	CLG2-12	CLG3-12
80	35	.4375	.4625	CLG1-13	CLG2-13	CLG3-13
	40	.5000	.5250	CLG1-14	CLG2-14	CLG3-14
	50	.6250	.6500	CLG1-15	CLG2-15	CLG3-15
	60	.7500	.7750	CLG1-16	CLG2-16	CLG3-16
96	40	.4167	.4375	CLG1-17	CLG2-17	CLG3-17
	50	.5208	.5417	CLG1-18	CLG2-18	CLG3-18
	60	.6250	.6458	CLG1-19	CLG2-19	CLG3-19
	80	.8333	.8542	CLG1-20	CLG2-20	CLG3-20
120	50	.4167	.4333	CLG1-21	CLG2-21	CLG3-21
	60	.5000	.5167	CLG1-22	CLG2-22	CLG3-22
	80	.6667	.6833	CLG1-23	CLG2-23	CLG3-23
	100	.8333	.8500	CLG1-24	CLG2-24	CLG3-24

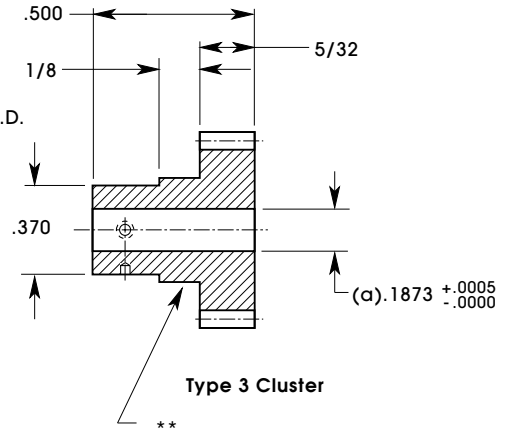
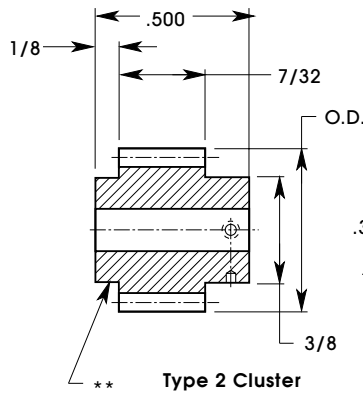
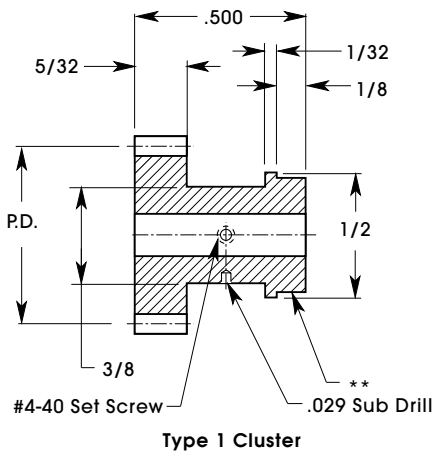
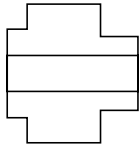
*Theoretical Special Number of Teeth, Bore Size, Materials and Finishes Available on Request.

CLUSTER GEAR & HUBS

Pitch 48 • 64 • 72 • 80 • 96 • 120

Bore .1875 • P.A. 20°

303 Stainless Steel — Clear Passivate



** $\varnothing .3750 \pm .0003$
-.0000

Concentric Within .0003 (a)
Use With Hubless Gears

AGMA Q10 Tolerances

QUANTITY DISCOUNTS AVAILABLE.

PITCH	NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER/CLUSTER		
				TYPE 1	TYPE 2	TYPE 3
48	20	.4167	.4583	CLG4-1	CLG5-1	CLG6-1
	30	.6250	.6667	CLG4-2	CLG5-2	CLG6-2
	40	.8333	.8750	CLG4-3	CLG5-3	CLG6-3
	50	1.0417	1.0833	CLG4-4	CLG5-4	CLG6-4
64	25	.3906	.4212	CLG4-5	CLG5-5	CLG6-5
	30	.4688	.5000	CLG4-6	CLG5-6	CLG6-6
	40	.6250	.6563	CLG4-7	CLG5-7	CLG6-7
	50	.7813	.8125	CLG4-8	CLG5-8	CLG6-8
72	30	.4167	.4444	CLG4-9	CLG5-9	CLG6-9
	40	.5556	.5833	CLG4-10	CLG5-10	CLG6-10
	50	.6944	.7222	CLG4-11	CLG5-11	CLG6-11
	60	.8333	.8611	CLG4-12	CLG5-12	CLG6-12
80	35	.4375	.4625	CLG4-13	CLG5-13	CLG6-13
	40	.5000	.5250	CLG4-14	CLG5-14	CLG6-14
	50	.6250	.6500	CLG4-15	CLG5-15	CLG6-15
	60	.7500	.7750	CLG4-16	CLG5-16	CLG6-16
96	40	.4167	.4375	CLG4-17	CLG5-17	CLG6-17
	50	.5208	.5417	CLG4-18	CLG5-18	CLG6-18
	60	.6250	.6458	CLG4-19	CLG5-19	CLG6-19
	80	.8333	.8542	CLG4-20	CLG5-20	CLG6-20
120	50	.4167	.4333	CLG4-21	CLG5-21	CLG6-21
	60	.5000	.5167	CLG4-22	CLG5-22	CLG6-22
	80	.6667	.6833	CLG4-23	CLG5-23	CLG6-23
	100	.8333	.8500	CLG4-24	CLG5-24	CLG6-24

*Theoretical

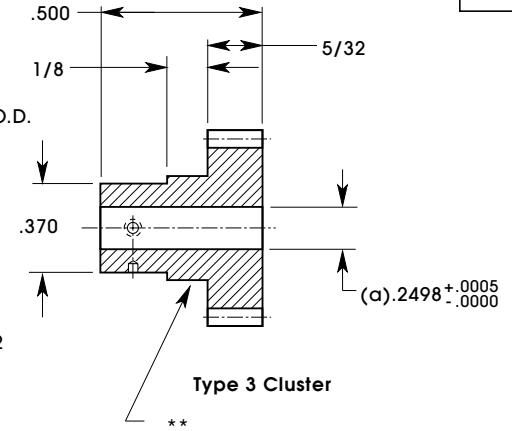
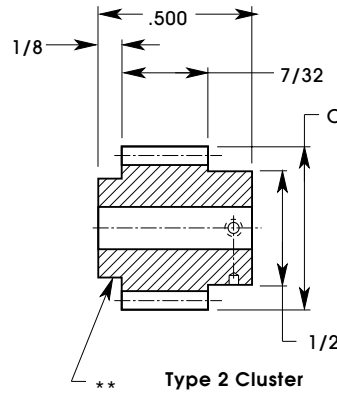
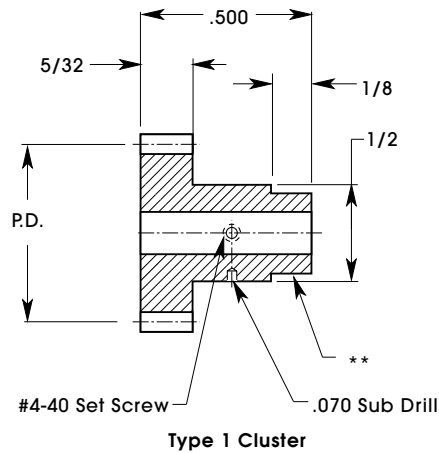
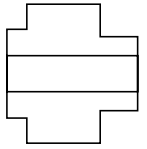
Special Number of Teeth, Bore Size, Materials and Finishes Available on Request.

CLUSTER GEAR & HUBS

Pitch 48 • 64 • 72 • 80 • 96 • 120

P.A. 20° • Bore .2500

303 Stainless Steel — Clear Passivate



** $\varnothing .3750 + .0003 / -.0000$
Concentric Within .0003 (a)
Use With Hubless Gears

AGMA Q10 Tolerances

QUANTITY DISCOUNTS AVAILABLE.

PITCH	NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER/CLUSTER		
				TYPE 1	TYPE 2	TYPE 3
48	25	.5208	.5625	CLG7-1	CLG8-1	CLG9-1
	30	.6250	.6667	CLG7-2	CLG8-2	CLG9-2
	40	.8333	.8750	CLG7-3	CLG8-3	CLG9-3
	50	1.0417	1.0833	CLG7-4	CLG8-4	CLG9-4
64	25	.3906	.4212	CLG7-5	CLG8-5	CLG9-5
	30	.4688	.5000	CLG7-6	CLG8-6	CLG9-6
	40	.6250	.6563	CLG7-7	CLG8-7	CLG9-7
	50	.7813	.8125	CLG7-8	CLG8-8	CLG9-8
72	40	.5556	.5833	CLG7-9	CLG8-9	CLG9-9
	50	.6944	.7222	CLG7-10	CLG8-10	CLG9-10
	60	.8333	.8611	CLG7-11	CLG8-11	CLG9-11
	70	.9722	1.0000	CLG7-12	CLG8-12	CLG9-12
80	35	.4375	.4625	CLG7-13	CLG8-13	CLG9-13
	40	.5000	.5250	CLG7-14	CLG8-14	CLG9-14
	50	.6250	.6500	CLG7-15	CLG8-15	CLG9-15
	60	.7500	.7750	CLG7-16	CLG8-16	CLG9-16
96	50	.5208	.5417	CLG7-17	CLG8-17	CLG9-17
	60	.6250	.6458	CLG7-18	CLG8-18	CLG9-18
	70	.7292	.7500	CLG7-19	CLG8-19	CLG9-19
	80	.8333	.8542	CLG7-20	CLG8-20	CLG9-20
120	60	.5000	.5167	CLG7-21	CLG8-21	CLG9-21
	70	.5833	.6000	CLG7-22	CLG8-22	CLG9-22
	80	.6667	.6833	CLG7-23	CLG8-23	CLG9-23
	100	.8333	.8500	CLG7-24	CLG8-24	CLG9-24

*Theoretical

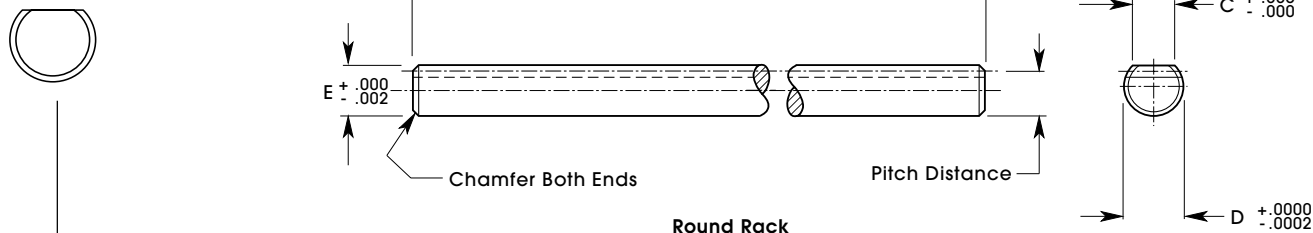
Special Number of Teeth, Bore Size, Materials and Finishes Available on Request.

PRECISION RACKS FINE PITCH

Pitch 24 • 32 • 48 • 64 • 72 • 96 • 120 • P.A. 20°

— Round —

Stainless Steel — Clear Passivate

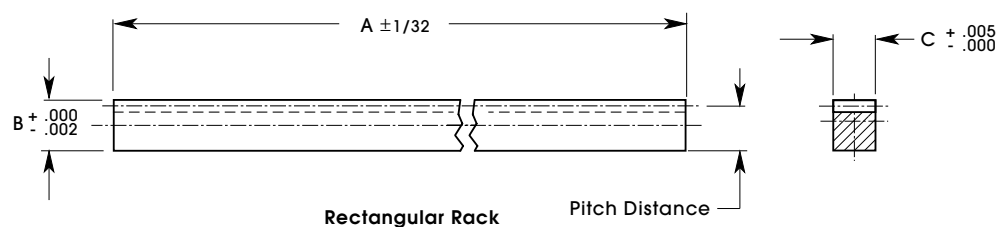


PITCH	A	PITCH DIST. B	C	D	E	CATALOG NUMBER
24	18"	.438	3/16	.4997	.480	RG1
32	18"	.309	3/16	.3747	.340	RG2
48	18"	.199	5/32	.2497	.220	RG3
64	11"	.204	5/32	.2497	.220	RG4
72	11"	.142	1/8	.1872	.156	RG5
96	11"	.145	1/8	.1872	.156	RG6
120	11"	.107	3/32	.1247	.115	RG7

Pitch 24 • 32 • 48 • 64 • 72 • 96 • 120 • P.A. 20°

— Rectangular —

Stainless Steel — Clear Passivate



PITCH	A	B	C	PITCH DISTANCE	CATALOG NUMBER
24	18"	.480	.230	.438	RG8
32	18"	.480	.230	.449	RG9
48	18"	.480	.230	.459	RG10
64	11"	.480	.230	.464	RG11
72	11"	.355	.167	.341	RG12
96	11"	.355	.167	.344	RG13
120	11"	.355	.167	.347	RG14

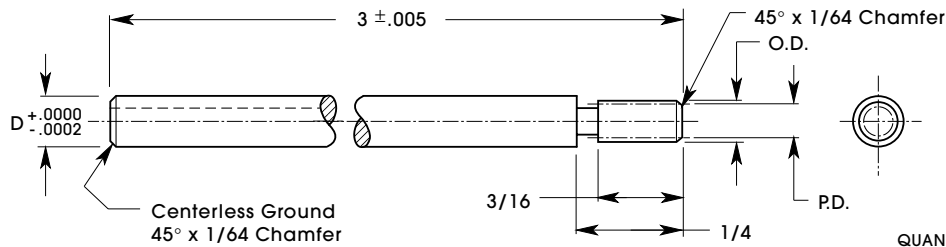
PINION SHAFTS

P.A. 20° • Pitch 48•64•72•80•96•120

14-1/2° P.A. on Request

Shafts 1/8 • 3/16 • 1/4

303 Stainless Steel — Clear Passivate



QUANTITY DISCOUNTS AVAILABLE.

AGMA Q10 Tolerances

*Theoretical

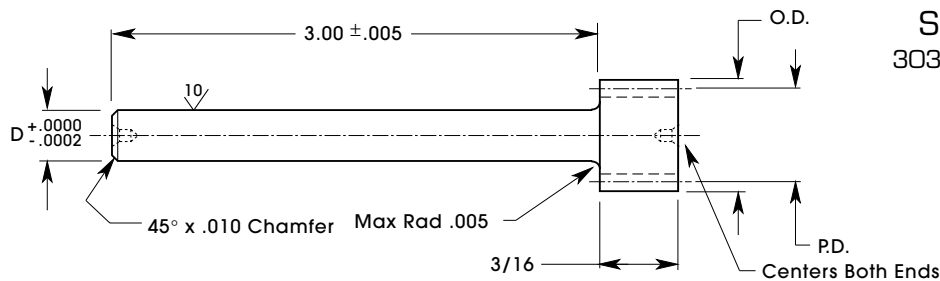
D	NUMBER OF TEETH	PITCH	P.D.* -.001	O.D. -.001	CATALOG NUMBER
.1247	10	96	.1042	.125	PS1
	12	120	.1000	.116	PS2
.1872	10	72	.1388	.166	PS6
	10	96	.1042	.125	PS7
	11	96	.1145	.135	PS8
	12	96	.1250	.146	PS9
	14	96	.1458	.166	PS10
	10	80	.1250	.150	PS11
.2497	12	80	.1500	.175	PS12
	10	48	.2083	.250	PS13
	12	64	.1875	.219	PS14
	14	64	.2187	.250	PS15
	14	72	.1944	.222	PS16
	16	72	.2222	.250	PS17
	16	96	.1666	.187	PS18
	18	96	.1875	.208	PS19
	10	80	.1250	.150	PS20
	12	80	.1500	.175	PS21
	14	80	.1750	.200	PS22
	16	80	.2000	.225	PS23
	18	80	.2250	.250	PS24

Special Enlarged Pinions Available on Request. Refer to Engineering Section for Explanation.

P.A. 20° • Pitch 48•64•72•80•96•120

Shafts 1/8 • 3/16 • 1/4

303 Stainless Steel — Clear Passivate



QUANTITY DISCOUNTS AVAILABLE.

AGMA Q10 Tolerances AGMA Q12 and Q14 Available on Request *Theoretical

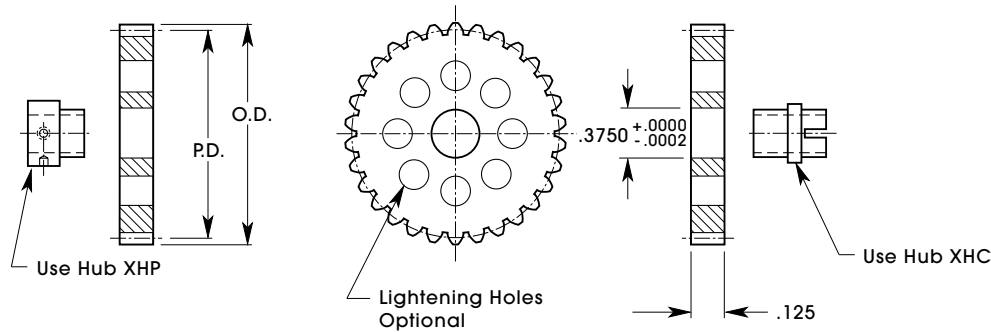
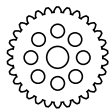
D	NUMBER OF TEETH	PITCH	P.D.* -.001	O.D. -.001	CATALOG NUMBER
.1247	16	64	.2500	.281	PS25
	20	64	.3125	.343	PS26
	18	72	.2500	.278	PS27
	24	72	.3333	.361	PS28
	20	80	.2500	.275	PS29
	24	96	.2500	.271	PS30
	32	96	.3333	.354	PS31
.1872	12	48	.2500	.291	PS32
	18	48	.3750	.416	PS33
	16	64	.2500	.281	PS34
	20	64	.3125	.343	PS35
	18	72	.2500	.278	PS36
	24	72	.3333	.361	PS37
	20	80	.2500	.275	PS38
.2497	12	24	.5000	.583	PS39
	16	32	.5000	.562	PS40
	12	48	.2500	.291	PS41
	18	48	.3750	.416	PS42
	16	64	.2500	.281	PS43
	20	64	.3125	.343	PS44
	24	64	.3750	.406	PS45

Special Enlarged Pinions Available on Request. Refer to Engineering Section for Explanation.

HUBLESS SPUR GEARS

Pitch 24 • Face 1/8 • Bore .3750 • P.A. 20°

303 Stainless Steel — Clear Passivate
Aluminum 2024 — Chromic Acid Anodize



AGMA Q10 Tolerances AGMA Q12 and Q14 Available on Request

QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER/MATERIAL	
			STAINLESS STEEL	ALUMINUM 2024
21	.8750	.9583	GH10-21	GH11-21
24	1.0000	1.0833	GH10-24	GH11-24
25	1.0416	1.1250	GH10-25	GH11-25
30	1.2500	1.3333	GH10-30	GH11-30
32	1.3333	1.4166	GH10-32	GH11-32
35	1.4583	1.5416	GH10-35	GH11-35
36	1.5000	1.5833	GH10-36	GH11-36
40	1.6667	1.7500	GH10-40	GH11-40
42	1.7500	1.8333	GH10-42	GH11-42
45	1.8750	1.9583	GH10-45	GH11-45
46	1.9166	2.0000	GH10-46	GH11-46

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER/MATERIAL	
			STAINLESS STEEL	ALUMINUM 2024
48	2.0000	2.0833	GH10-48	GH11-48
50	2.0833	2.1666	GH10-50	GH11-50
55	2.2916	2.3750	GH10-55	GH11-55
56	2.3333	2.4166	GH10-56	GH11-56
60	2.5000	2.5833	GH10-60	GH11-60
64	2.6666	2.7500	GH10-64	GH11-64
65	2.7083	2.7916	GH10-65	GH11-65
70	2.9166	3.0000	GH10-70	GH11-70
72	3.0000	3.0833	GH10-72	GH11-72
84	3.5000	3.5833	GH10-84	GH11-84
96	4.0000	4.0833	GH10-96	GH11-96

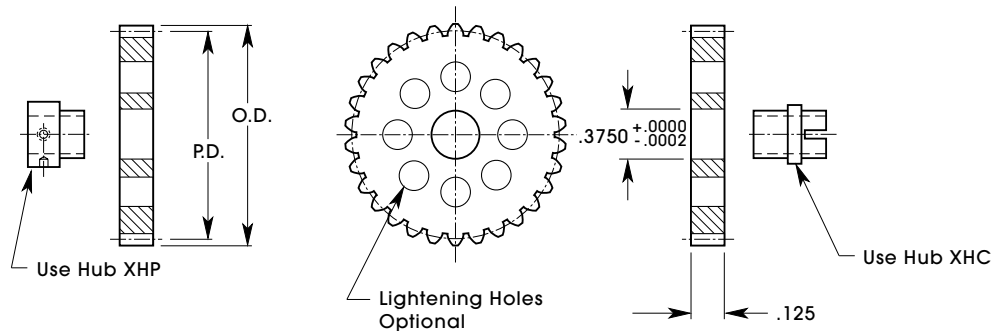
*Theoretical

Special Number of Teeth, Bore Size, Materials and Finishes Available on Request.

*Theoretical

Pitch 32 • Face 1/8 • Bore .3750 • P.A. 20°

303 Stainless Steel — Clear Passivate
Aluminum 2024 — Chromic Acid Anodize



AGMA Q10 Tolerances AGMA Q12 and Q14 Available on Request

QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER/MATERIAL	
			STAINLESS STEEL	ALUMINUM 2024
28	.8750	.9375	GH14-28	GH15-28
32	1.0000	1.0625	GH14-32	GH15-32
35	1.0938	1.1563	GH14-35	GH15-35
36	1.1250	1.1875	GH14-36	GH15-36
40	1.2500	1.3125	GH14-40	GH15-40
42	1.3125	1.3750	GH14-42	GH15-42
45	1.4063	1.4688	GH14-45	GH15-45
48	1.5000	1.5625	GH14-48	GH15-48
50	1.5625	1.6250	GH14-50	GH15-50
55	1.7188	1.7813	GH14-55	GH15-55
60	1.8750	1.9375	GH14-60	GH15-60

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER/MATERIAL	
			STAINLESS STEEL	ALUMINUM 2024
64	2.0000	2.0625	GH14-64	GH15-64
65	2.0313	2.0938	GH14-65	GH15-65
70	2.1875	2.2500	GH14-70	GH15-70
72	2.2500	2.3125	GH14-72	GH15-72
75	2.3438	2.4063	GH14-75	GH15-75
80	2.5000	2.5625	GH14-80	GH15-80
85	2.6563	2.7188	GH14-85	GH15-85
90	2.8125	2.8750	GH14-90	GH15-90
96	3.0000	3.0625	GH14-96	GH15-96
112	3.5000	3.5625	GH14-112	GH15-112
128	4.0000	4.0625	GH14-128	GH15-128

*Theoretical

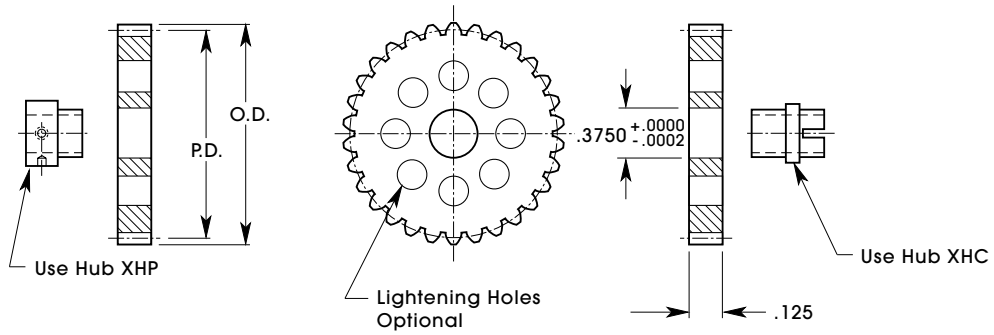
Special Number of Teeth, Bore Size, Materials and Finishes Available on Request.

*Theoretical

HUBLESS SPUR GEARS

P.A. 20° • Bore .3750 • Face 1/8 • Pitch 48

303 Stainless Steel — Clear Passivate
Aluminum 2024 — Chromic Acid Anodize



AGMA Q10 Tolerances – AGMA Q12 and Q14 Available on Request

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER/MATERIAL	
			STAINLESS STEEL	ALUMINUM 2024
48	1.0000	1.0417	GH12-48	GH13-48
54	1.1250	1.1667	GH12-54	GH13-54
60	1.2500	1.2917	GH12-60	GH13-60
64	1.3333	1.3750	GH12-64	GH13-64
65	1.3542	1.3958	GH12-65	GH13-65
70	1.4583	1.5000	GH12-70	GH13-70
72	1.5000	1.5417	GH12-72	GH13-72
75	1.5625	1.6042	GH12-75	GH13-75
80	1.6667	1.7083	GH12-80	GH13-80
84	1.7500	1.7917	GH12-84	GH13-84
85	1.7708	1.8125	GH12-85	GH13-85
90	1.8750	1.9167	GH12-90	GH13-90

*Theoretical

Special Number of Teeth, Bore Size, Materials and Finishes Available on Request.

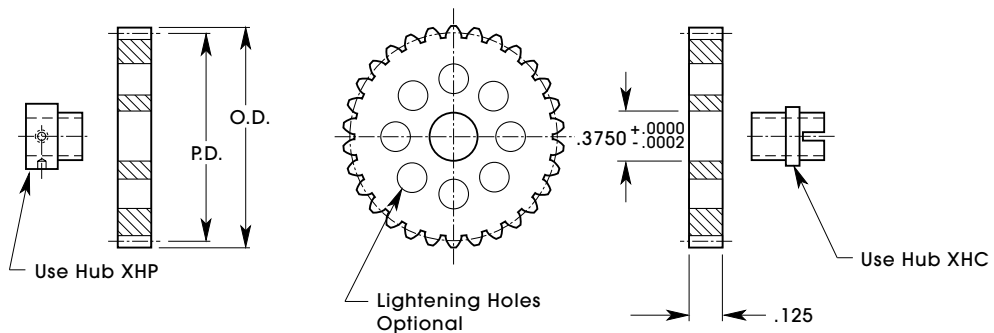
QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER/MATERIAL	
			STAINLESS STEEL	ALUMINUM 2024
92	1.9167	1.9583	GH12-92	GH13-92
95	1.9792	2.0208	GH12-95	GH13-95
96	2.0000	2.0417	GH12-96	GH13-96
100	2.0833	2.1250	GH12-100	GH13-100
105	2.1875	2.2292	GH12-105	GH13-105
110	2.2917	2.3333	GH12-110	GH13-110
115	2.3958	2.4375	GH12-115	GH13-115
120	2.5000	2.5417	GH12-120	GH13-120
130	2.7083	2.7500	GH12-130	GH13-130
140	2.9167	2.9583	GH12-140	GH13-140
144	3.0000	3.0417	GH12-144	GH13-144
150	3.1250	3.1667	GH12-150	GH13-150

*Theoretical

P.A. 20° • Bore .3750 • Face 1/8 • Pitch 64

303 Stainless Steel — Clear Passivate
Aluminum 2024 — Chromic Acid Anodize



AGMA Q10 Tolerances AGMA Q12 and Q14 Available on Request

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER/MATERIAL	
			STAINLESS STEEL	ALUMINUM 2024
64	1.0000	1.0313	GH16-64	GH17-64
72	1.1250	1.1563	GH16-72	GH17-72
75	1.1719	1.2031	GH16-75	GH17-75
80	1.2500	1.2813	GH16-80	GH17-80
84	1.3125	1.3438	GH16-84	GH17-84
85	1.3281	1.3594	GH16-85	GH17-85
90	1.4063	1.4375	GH16-90	GH17-90
92	1.4375	1.4688	GH16-92	GH17-92
95	1.4844	1.5156	GH16-95	GH17-95
96	1.5000	1.5313	GH16-96	GH17-96
100	1.5625	1.5938	GH16-100	GH17-100

*Theoretical

Special Number of Teeth, Bore Size, Materials and Finishes Available on Request.

QUANTITY DISCOUNTS AVAILABLE.

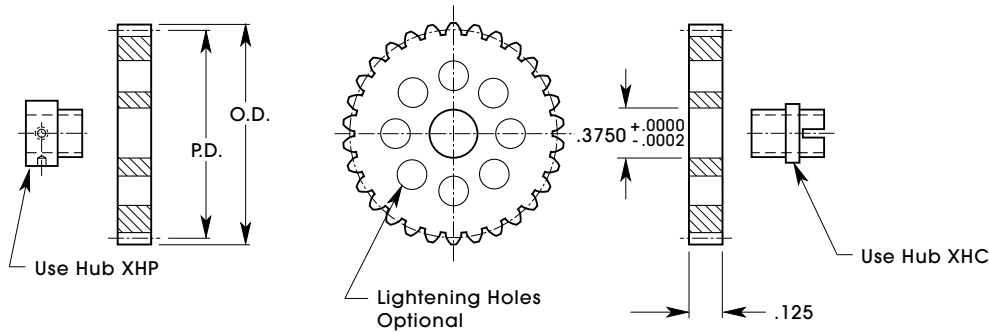
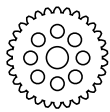
NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER/MATERIAL	
			STAINLESS STEEL	ALUMINUM 2024
105	1.6406	1.6719	GH16-105	GH17-105
110	1.7188	1.7500	GH16-110	GH17-110
120	1.8750	1.9063	GH16-120	GH17-120
130	2.0313	2.0625	GH16-130	GH17-130
140	2.1875	2.2188	GH16-140	GH17-140
150	2.3438	2.3750	GH16-150	GH17-150
160	2.5000	2.5313	GH16-160	GH17-160
170	2.6563	2.6875	GH16-170	GH17-170
180	2.8125	2.8438	GH16-180	GH17-180
184	2.8750	2.9063	GH16-184	GH17-184
192	3.0000	3.0313	GH16-192	GH17-192

*Theoretical

HUBLESS SPUR GEARS

Pitch 72 • Face 1/8 • Bore .3750 • P.A. 20°

303 Stainless Steel — Clear Passivate
Aluminum 2024 — Chromic Acid Anodize



AGMA Q10 Tolerances —AGMA Q12 and Q14 Available on Request

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER/MATERIAL	
			STAINLESS STEEL	ALUMINUM 2024
72	1.0000	1.0278	GH18-72	GH19-72
81	1.1250	1.1528	GH18-81	GH19-81
90	1.2500	1.2778	GH18-90	GH19-90
92	1.2778	1.3056	GH18-92	GH19-92
95	1.3194	1.3472	GH18-95	GH19-95
96	1.3333	1.3611	GH18-96	GH19-96
100	1.3889	1.4167	GH18-100	GH19-100
105	1.4583	1.4861	GH18-105	GH19-105
110	1.5278	1.5556	GH18-110	GH19-110
120	1.6667	1.6944	GH18-120	GH19-120
130	1.8056	1.8333	GH18-130	GH19-130

*Theoretical Special Number of Teeth, Bore Size, Materials and Finishes Available on Request.

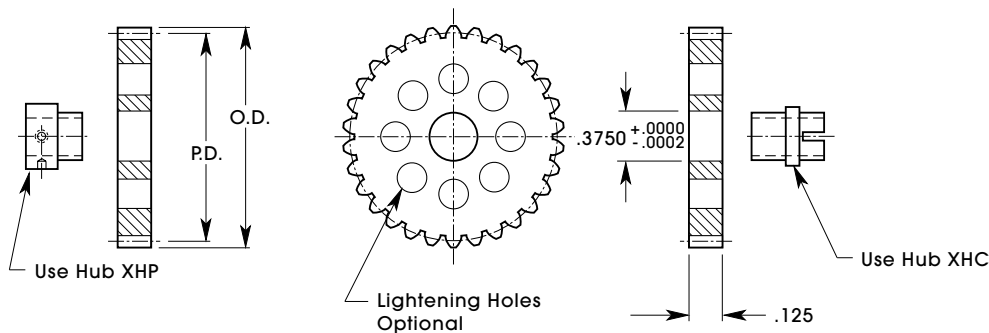
QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER/MATERIAL	
			STAINLESS STEEL	ALUMINUM 2024
140	1.9444	1.9722	GH18-140	GH19-140
150	2.0833	2.1111	GH18-150	GH19-150
160	2.2222	2.2500	GH18-160	GH19-160
170	2.3611	2.3889	GH18-170	GH19-170
180	2.5000	2.5278	GH18-180	GH19-180
190	2.6389	2.6667	GH18-190	GH19-190
200	2.7778	2.8055	GH18-200	GH19-200
210	2.9167	2.9444	GH18-210	GH19-210
220	3.0556	3.0833	GH18-220	GH19-220
230	3.1944	3.2222	GH18-230	GH19-230

*Theoretical

Pitch 80 • Face 1/8 • Bore .3750 • P.A. 20°

303 Stainless Steel — Clear Passivate
Aluminum 2024 — Chromic Acid Anodize



AGMA Q10 Tolerances —AGMA Q12 and Q14 Available on Request

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER/MATERIAL	
			STAINLESS STEEL	ALUMINUM 2024
70	.8750	.9000	GH20-70	GH21-70
80	1.0000	1.0250	GH20-80	GH21-80
85	1.0625	1.0875	GH20-85	GH21-85
90	1.1250	1.1500	GH20-90	GH21-90
95	1.1875	1.2125	GH20-95	GH21-95
100	1.2500	1.2750	GH20-100	GH21-100
110	1.3750	1.4000	GH20-110	GH21-110
120	1.5000	1.5250	GH20-120	GH21-120
130	1.6250	1.6500	GH20-130	GH21-130
140	1.7500	1.7750	GH20-140	GH21-140
150	1.8750	1.9000	GH20-150	GH21-150

*Theoretical Special Number of Teeth, Bore Size, Materials and Finishes Available on Request.

QUANTITY DISCOUNTS AVAILABLE.

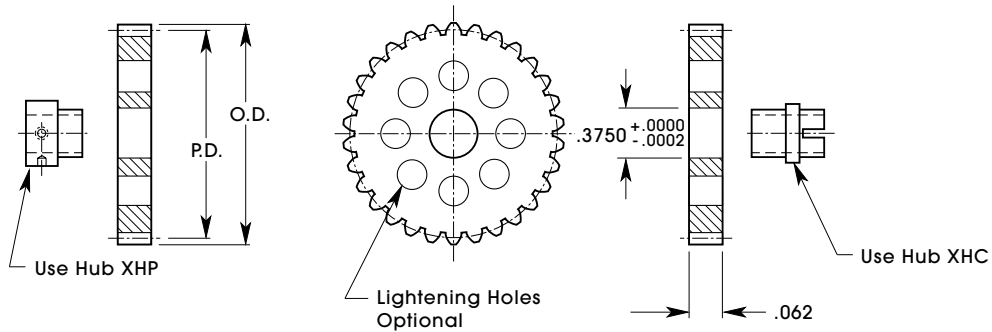
NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER/MATERIAL	
			STAINLESS STEEL	ALUMINUM 2024
160	2.0000	2.0250	GH20-160	GH21-160
170	2.1250	2.1500	GH20-170	GH21-170
180	2.2500	2.2750	GH20-180	GH21-180
190	2.3750	2.4000	GH20-190	GH21-190
200	2.5000	2.5250	GH20-200	GH21-200
210	2.6250	2.6500	GH20-210	GH21-210
220	2.7500	2.7750	GH20-220	GH21-220
230	2.8750	2.9000	GH20-230	GH21-230
240	3.0000	3.0250	GH20-240	GH21-240
280	3.5000	3.5250	GH20-280	GH21-280

*Theoretical

HUBLESS SPUR GEARS

P.A. 20° • Bore .3750 • Face 1/16 • Pitch 96

303 Stainless Steel — Clear Passivate
Aluminum 2024 — Chromic Acid Anodize



AGMA Q10 Tolerances — AGMA Q12 and Q14 Available on Request

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER/MATERIAL	
			STAINLESS STEEL	ALUMINUM 2024
84	.8750	.8958	GH22-84	GH23-84
96	1.0000	1.0208	GH22-96	GH23-96
100	1.0417	1.0625	GH22-100	GH23-100
105	1.0938	1.1146	GH22-105	GH23-105
110	1.1458	1.1667	GH22-110	GH23-110
120	1.2500	1.2708	GH22-120	GH23-120
130	1.3542	1.3750	GH22-130	GH23-130
140	1.4583	1.4792	GH22-140	GH23-140
150	1.5625	1.5833	GH22-150	GH23-150
160	1.6667	1.6875	GH22-160	GH23-160
170	1.7708	1.7917	GH22-170	GH23-170

*Theoretical

Special Number of Teeth, Bore Size, Materials and Finishes Available on Request.

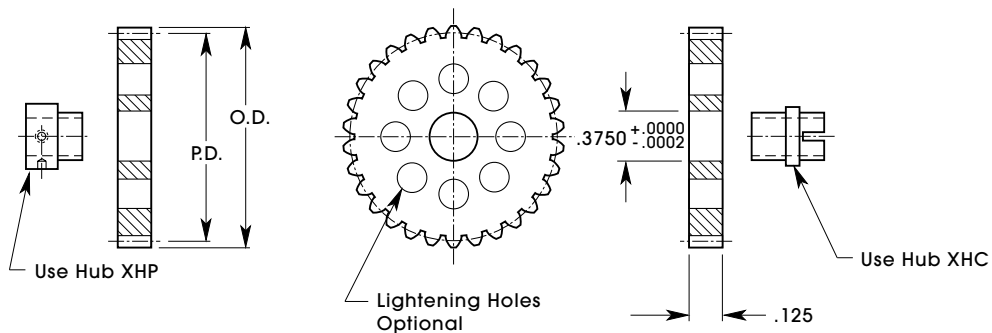
QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER/MATERIAL	
			STAINLESS STEEL	ALUMINUM 2024
180	1.8750	1.8958	GH22-180	GH23-180
190	1.9792	2.0000	GH22-190	GH23-190
200	2.0833	2.1042	GH22-200	GH23-200
220	2.2917	2.3125	GH22-220	GH23-220
240	2.5000	2.5208	GH22-240	GH23-240
250	2.6042	2.6250	GH22-250	GH23-250
260	2.7083	2.7292	GH22-260	GH23-260
280	2.9167	2.9375	GH22-280	GH23-280
288	3.0000	3.0208	GH22-288	GH23-288
300	3.1250	3.1457	GH22-300	GH23-300

*Theoretical

P.A. 20° • Bore .3750 • Face 1/8 • Pitch 96

303 Stainless Steel — Clear Passivate
Aluminum 2024 — Chromic Acid Anodize



AGMA Q10 Tolerances — AGMA Q12 and Q14 Available on Request

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER/MATERIAL	
			STAINLESS STEEL	ALUMINUM 2024
84	.8750	.8958	GH24-84	GH25-84
96	1.0000	1.0208	GH24-96	GH25-96
100	1.0417	1.0625	GH24-100	GH25-100
105	1.0938	1.1146	GH24-105	GH25-105
110	1.1458	1.1667	GH24-110	GH25-110
120	1.2500	1.2708	GH24-120	GH25-120
130	1.3542	1.3750	GH24-130	GH25-130
140	1.4583	1.4792	GH24-140	GH25-140
150	1.5625	1.5833	GH24-150	GH25-150
160	1.6667	1.6875	GH24-160	GH25-160
170	1.7708	1.7917	GH24-170	GH25-170

*Theoretical

Special Number of Teeth, Bore Size, Materials and Finishes Available on Request.

QUANTITY DISCOUNTS AVAILABLE.

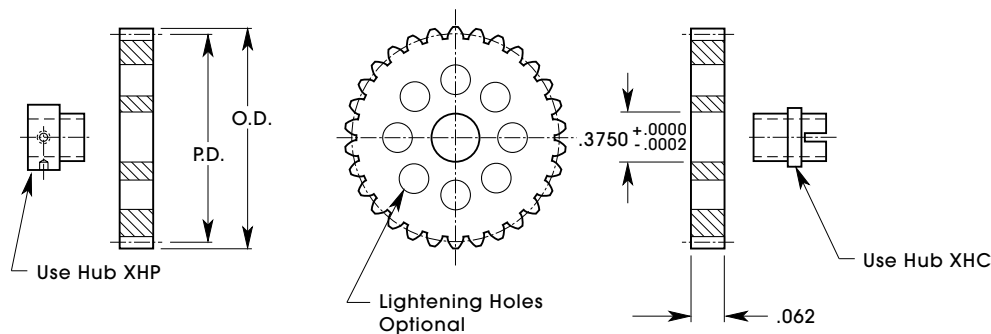
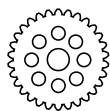
NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER/MATERIAL	
			STAINLESS STEEL	ALUMINUM 2024
180	1.8750	1.8958	GH24-180	GH25-180
190	1.9792	2.0000	GH24-190	GH25-190
200	2.0833	2.1042	GH24-200	GH25-200
220	2.2917	2.3125	GH24-220	GH25-220
240	2.5000	2.5208	GH24-240	GH25-240
250	2.6042	2.6250	GH24-250	GH25-250
260	2.7083	2.7292	GH24-260	GH25-260
280	2.9167	2.9375	GH24-280	GH25-280
288	3.0000	3.0208	GH24-288	GH25-288
300	3.1250	3.1457	GH24-300	GH25-300

*Theoretical

HUBLESS SPUR GEARS

Pitch 120 • Face 1/16 • Bore .3750 • P.A. 20°

303 Stainless Steel — Clear Passivate
Aluminum 2024 — Chromic Acid Anodize



AGMA Q10 Tolerances — AGMA Q12 and Q14 Available on Request

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER/MATERIAL	
			STAINLESS STEEL	ALUMINUM 2024
100	.8333	.8500	GH26-100	GH27-100
105	.8750	.8917	GH26-105	GH27-105
110	.9167	.9333	GH26-110	GH27-110
120	1.0000	1.0167	GH26-120	GH27-120
130	1.0833	1.1000	GH26-130	GH27-130
140	1.1666	1.1833	GH26-140	GH27-140
150	1.2500	1.2667	GH26-150	GH27-150
160	1.3333	1.3500	GH26-160	GH27-160
180	1.5000	1.5167	GH26-180	GH27-180
200	1.6666	1.6833	GH26-200	GH27-200

*Theoretical Special Number of Teeth, Bore Size, Materials and Finishes Available on Request.

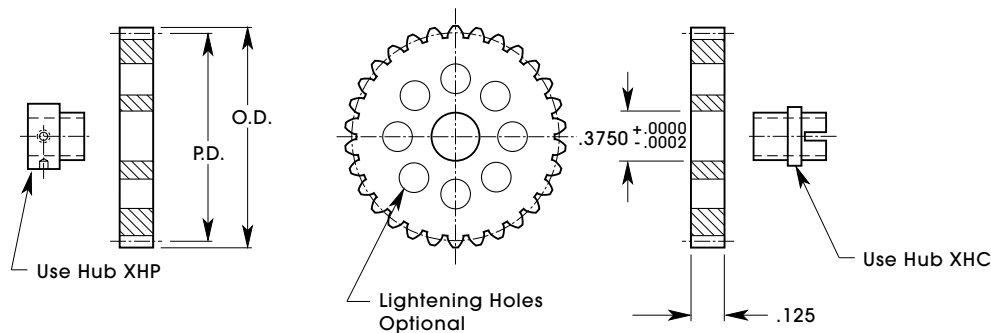
QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER/MATERIAL	
			STAINLESS STEEL	ALUMINUM 2024
210	1.7500	1.7667	GH26-210	GH27-210
240	2.0000	2.0167	GH26-240	GH27-240
250	2.0833	2.1000	GH26-250	GH27-250
270	2.2500	2.2667	GH26-270	GH27-270
300	2.5000	2.5167	GH26-300	GH27-300
325	2.7083	2.7250	GH26-325	GH27-325
350	2.9167	2.9333	GH26-350	GH27-350
360	3.0000	3.0167	GH26-360	GH27-360
375	3.1250	3.1417	GH26-375	GH27-375

*Theoretical

Pitch 120 • Face 1/8 • Bore .3750 • P.A. 20°

303 Stainless Steel — Clear Passivate
Aluminum 2024T4 — Chromic Acid Anodize



AGMA Q10 Tolerances — AGMA Q12 and Q14 Available on Request

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER/MATERIAL	
			STAINLESS STEEL	ALUMINUM 2024
100	.8333	.8500	GH28-100	GH29-100
105	.8750	.8917	GH28-105	GH29-105
110	.9167	.9333	GH28-110	GH29-110
120	1.0000	1.0167	GH28-120	GH29-120
130	1.0833	1.1000	GH28-130	GH29-130
140	1.1666	1.1833	GH28-140	GH29-140
150	1.2500	1.2667	GH28-150	GH29-150
160	1.3333	1.3500	GH28-160	GH29-160
180	1.5000	1.5167	GH28-180	GH29-180
200	1.6666	1.6833	GH28-200	GH29-200

*Theoretical Special Number of Teeth, Bore Size, Materials and Finishes Available on Request.

QUANTITY DISCOUNTS AVAILABLE.

NO. OF TEETH	PITCH DIAMETER* -.001	OUTSIDE DIAMETER -.002	CATALOG NUMBER/MATERIAL	
			STAINLESS STEEL	ALUMINUM 2024
210	1.7500	1.7667	GH28-210	GH29-210
240	2.0000	2.0167	GH28-240	GH29-240
250	2.0833	2.1000	GH28-250	GH29-250
270	2.2500	2.2667	GH28-270	GH29-270
300	2.5000	2.5167	GH28-300	GH29-300
325	2.7083	2.7250	GH28-325	GH29-325
350	2.9167	2.9333	GH28-350	GH29-350
360	3.0000	3.0167	GH28-360	GH29-360
375	3.1250	3.1417	GH28-375	GH29-375

*Theoretical