FAIRLOC® HUB ANTI-BACKLASH GEARS • 120 PITCH

AGMA 10
.104 FACE
20° PRESSURE ANGLE

MATERIAL:

Gears - 303 Stainless Steel
2024 Aluminum
T4 or T351 Alloy, Anodized before cutting

Hubs - 303 Stainless Steel
Springs - 302 Stainless Steel, Spring Temper

Available on special order:
14-1/2° P.A., teeth not listed, different bore size, passivation for Stainless Steel.

Fairloc® hubs require controlled shaft tolerances. Suggested clearance fit between the bore and the shaft is .0001/.0008

INCH COMPONENT CATALOG NUMBER

| B Bore Code | .1248 (1/8) | 3 |
| .1873 (3/16) | 4 |
| .2498 (1/4) | 6 |

Material Code - Gears

303 Stainless Steel S

2024 Aluminum T
T4 or T351 Alloy, Anodized before cutting A

Example:
S1A56A-F120A200 is an Aluminum Anti-Backlash Gear with 200 Teeth and .2498 Bore Fairloc® Hub.

FAIRLOC® HUB CLEARANCE RADIUS .31 MAX.
ANTI-BACKLASH GEARS • 120 PITCH

AGMA 10
.104 FACE
1/8, 3/16 & 1/4 BORE
20° PRESSURE ANGLE

MATERIAL:
Gears - 303 Stainless Steel
2024-T4 or -T351 Aluminum Alloy, anodized before cutting.
Hubs - 303 Stainless Steel
Springs - 302 Stainless Steel, Spring Temper

HUB STYLE: PIN OR CLAMP TYPE

<table>
<thead>
<tr>
<th>B Bore Selection</th>
<th>H Pin Type</th>
<th>C Clamp Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code Size</td>
<td>Dia.</td>
<td>Dia.</td>
</tr>
<tr>
<td>3 .1248 (1/8)</td>
<td>2 .312</td>
<td>3 .187</td>
</tr>
<tr>
<td>4 .1873 (3/16)</td>
<td>4 .375</td>
<td>5 .250</td>
</tr>
<tr>
<td>6 .2498 (1/4)</td>
<td>6 .437</td>
<td>7 .312</td>
</tr>
</tbody>
</table>

Available on special order: 14-1/2° P.A., teeth not listed, different bore size, passivation for Stainless Steel.

INCH COMPONENT CATALOG NUMBER

<table>
<thead>
<tr>
<th>B Bore Code</th>
<th>No. of Teeth Code</th>
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</thead>
<tbody>
<tr>
<td>.1248 (1/8)</td>
<td>S9 70 A - Z</td>
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<tr>
<td>.1873 (3/16)</td>
<td></td>
</tr>
<tr>
<td>.2498 (1/4)</td>
<td>P</td>
</tr>
</tbody>
</table>

Hub Style Code (See above)
Pin Type 2, 4 or 6
Clamp Type 3, 5 or 7
Material Code - Gears 303 Stainless Steel

Example: S9703A-Z3J220-P is a Stainless Steel Clamp Type Anti-Backlash Gear with 200 Teeth and .1248 Bore.
ANTI-BACKLASH GEARS • 120 PITCH

AGMA 10
.104 FACE
1/8, 3/16 & 1/4 BORE
20° PRESSURE ANGLE

› MATERIAL:
Gears - 303 Stainless Steel
    2024 Aluminum
    T4 or T351 Alloy, Anodized before cutting
Hubs - 303 Stainless Steel
Springs - 302 Stainless Steel, Spring Temper

› HUB STYLE: PIN OR CLAMP TYPE

<table>
<thead>
<tr>
<th>B Bore Selection</th>
<th>H Pin Type</th>
<th>C Clamp Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>.1248 (1/8)</td>
<td>.31</td>
</tr>
<tr>
<td>4</td>
<td>.1873 (3/16)</td>
<td>.37</td>
</tr>
<tr>
<td>6</td>
<td>.2498 (1/4)</td>
<td>.50</td>
</tr>
</tbody>
</table>

Available on special order:
14-1/2° P.A., teeth not listed, different bore size, passivation for Stainless Steel.

---

**INCH COMPONENT CATALOG NUMBER**

<table>
<thead>
<tr>
<th>B Bore Code</th>
<th>Hub Style Code</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>.1248 (1/8)</td>
<td>(See above)</td>
<td>303 Stainless Steel</td>
</tr>
<tr>
<td>.1873 (3/16)</td>
<td></td>
<td>2024 Aluminum</td>
</tr>
<tr>
<td>.2498 (1/4)</td>
<td></td>
<td>T4 or T351 Alloy, Anodized before cutting</td>
</tr>
</tbody>
</table>

Pin Type                   Clamp Type
SUB DRILL FOR CLAMPS SEE INDEX
SET SCREW SUPPLIED

**Example:**
S1A5A-C120S200 is a Stainless Steel Clamp Type Anti-Backlash Gear with 200 Teeth and .1248 Bore.
FAIRLOC® HUB ANTI-BACKLASH GEARS • 96 PITCH

AGMA 10
.104 FACE
20° PRESSURE ANGLE

> MATERIAL:
  Gears - 303 Stainless Steel
  2024 Aluminum
  T4 or T351 Alloy, Anodized before cutting
  Hubs - 303 Stainless Steel
  Springs - 302 Stainless Steel, Spring Temper

Available on special order:
14-1/2° P.A., teeth not listed, different bore size, passivation for Stainless Steel.

Fairloc® hubs require controlled shaft tolerances.
Suggested clearance fit between the bore and the shaft is .0001/.0008

FAIRLOC® HUB ANTI-BACKLASH GEAR • 96 PITCH

INCH COMPONENT CATALOG NUMBER

S 1 A 5 A - F 0 9 6

B Bore Code
.1248 (1/8) 3
.1873 (3/16) 4
.2498 (1/4) 6

Material Code - Gears
303 Stainless Steel S
2024 Aluminum A
T4 or T351 Alloy, Anodized before cutting

Example:
S1A5S-A-F096S180 is a Stainless Steel Anti-Backlash Gear with 180 Teeth and .1248 Bore Fairloc® Hub.
ANTI-BACKLASH GEARS • 96 PITCH

AGMA 10
.104 FACE
1/8, 3/16 & 1/4 BORE
20° PRESSURE ANGLE

> MATERIAL:
- Gears - 303 Stainless Steel
  2024 Aluminum
  T4 or T351 Alloy, Anodized before cutting
- Hubs - 303 Stainless Steel
  Springs - 302 Stainless Steel, Spring Temper

> HUB STYLE: PIN OR CLAMP TYPE

<table>
<thead>
<tr>
<th>B Bore Selection</th>
<th>H Pin Type</th>
<th>C Clamp Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>.1248 (1/8)</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>.1873 (3/16)</td>
<td>4</td>
</tr>
<tr>
<td>6</td>
<td>.2488 (1/4)</td>
<td>6</td>
</tr>
</tbody>
</table>

Available on special order:
14-1/2° P.A., teeth not listed, different bore size, passivation for Stainless Steel.

Example:
S9703A-ZH144AP is an Aluminum Pin Type Anti-Backlash Gear with 144 Teeth and .1248 Bore.
ANTI-BACKLASH GEARS • 96 PITCH

AGMA 10
.104 FACE
1/8, 3/16 & 1/4 BORE
20° PRESSURE ANGLE

➤ MATERIAL:
Gears - 303 Stainless Steel
2024-T4 or -T351 Aluminum Alloy, anodized before cutting.
Hubs - 303 Stainless Steel
Springs - 302 Stainless Steel, Spring Temper

➤ HUB STYLE: PIN OR CLAMP TYPE

<table>
<thead>
<tr>
<th>B Bore Selection</th>
<th>H Pin Type</th>
<th>C Clamp Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>.1248 (1/8)</td>
<td>.31</td>
</tr>
<tr>
<td>4</td>
<td>.1873 (3/16)</td>
<td>.37</td>
</tr>
<tr>
<td>6</td>
<td>.2498 (1/4)</td>
<td>.50</td>
</tr>
</tbody>
</table>

Available on special order:
14-1/2°P.A., teeth not listed, different bore size, passivation for Stainless Steel.

INCH COMPONENT CATALOG NUMBER

B Bore Code
.1248 (1/8) 3
.1873 (3/16) 4
.2498 (1/4) 6

Hub Style Code (See above)
Pin Type P
Clamp Type C
Material Code - Gears
303 Stainless Steel S
2024-T4 or -T351 Aluminum Alloy, anodized before cutting. A

Example:
S1A59A-P096S170 is a Stainless Steel Pin Type Anti-Backlash Gear with 170 Teeth and .1248 Bore.

REV: 11.9.12 mh
ANTI-BACKLASH GEARS • 80 PITCH

AGMA 10
.104 FACE
1/8, 3/16 & 1/4 BORE
20° PRESSURE ANGLE

> MATERIAL:
Gears - 303 Stainless Steel
2024 Aluminum
T4 or T351 Alloy, Anodized before cutting
Hubs - 303 Stainless Steel
Springs - 302 Stainless Steel, Spring Temper

> HUB STYLE: PIN OR CLAMP TYPE

<table>
<thead>
<tr>
<th>B Bore Selection</th>
<th>H Pin Type</th>
<th>C Clamp Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>.1248 (1/8)</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>.1873 (3/16)</td>
<td>4</td>
</tr>
<tr>
<td>6</td>
<td>.2498 (1/4)</td>
<td>6</td>
</tr>
</tbody>
</table>

Available on special order:
14-1/2° P.A., teeth not listed, different bore size, passivation for Stainless Steel.

INCH COMPONENT CATALOG NUMBER

S 9 7 0 A - Z G P

B Bore Code
.1248 (1/8) 3
.1873 (3/16) 4
.2498 (1/4) 6

Hub Style Code (See above)
Pin Type 2, 4 or 6
Clamp Type 3, 5 or 7

Material Code - Gears
303 Stainless Steel
2024 Aluminum
T4 or T351 Alloy, Anodized before cutting A

Example:
S9703A-Z3G120-P is a Stainless Steel Clamp Type Anti-Backlash Gear with 120 Teeth and .1248 Bore.
ANTI-BACKLASH GEARS • 80 PITCH

AGMA 10
.104 FACE
1/8, 3/16 & 1/4 BORE
20° PRESSURE ANGLE

▷ MATERIAL:
Gears - 303 Stainless Steel
2024 Aluminum
T4 or T351 Alloy, Anodized before cutting
Hubs - 303 Stainless Steel
Springs - 302 Stainless Steel, Spring Temper

▷ HUB STYLE: PIN OR CLAMP TYPE

<table>
<thead>
<tr>
<th>B Bore Selection Code</th>
<th>H Pin Type Code</th>
<th>C Clamp Type Code</th>
<th>Dia.</th>
<th>Dia.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>.1248 (1/8)</td>
<td>P</td>
<td>.31</td>
<td>.188</td>
</tr>
<tr>
<td>4</td>
<td>.1873 (3/16)</td>
<td>P</td>
<td>.37</td>
<td>.250</td>
</tr>
<tr>
<td>6</td>
<td>.2498 (1/4)</td>
<td>P</td>
<td>.50</td>
<td>.312</td>
</tr>
</tbody>
</table>

Available on special order:
14-1/2° P.A., teeth not listed, different bore size, passivation for Stainless Steel.

INCH COMPONENT CATALOG NUMBER

<table>
<thead>
<tr>
<th>B Bore Code</th>
<th>Hub Style Code</th>
<th>Material Code - Gears</th>
</tr>
</thead>
<tbody>
<tr>
<td>.1248 (1/8)</td>
<td>Pin Type</td>
<td>303 Stainless Steel</td>
</tr>
<tr>
<td>.1873 (3/16)</td>
<td>Clamp Type</td>
<td>2024 Aluminum</td>
</tr>
<tr>
<td>.2498 (1/4)</td>
<td>(See above)</td>
<td>T4 or T351 Alloy, Anodized before cutting</td>
</tr>
</tbody>
</table>

Example:
S1A5A-P080S150 is a Stainless Steel Pin Type Anti-Backlash Gear with 150 Teeth and .1248 Bore.
**Material:**
- Gears: 303 Stainless Steel, 2024 Aluminum
- Hubs: 303 Stainless Steel
- Springs: 302 Stainless Steel, Spring Temper

Available on special order:
- 14-1/2° P.A., teeth not listed, different bore size, passivation for Stainless Steel.

Fairloc® hubs require controlled shaft tolerances.
Suggested clearance fit between the bore and the shaft is .0001/.0008

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**INCH COMPONENT CATALOG NUMBER**

<table>
<thead>
<tr>
<th>B Bore Code</th>
<th>No. of Teeth Code</th>
<th>Material Code - Gears</th>
</tr>
</thead>
<tbody>
<tr>
<td>.1248 (1/8)</td>
<td>S</td>
<td>303 Stainless Steel</td>
</tr>
<tr>
<td>.1873 (3/16)</td>
<td>A</td>
<td>303 Stainless Steel</td>
</tr>
<tr>
<td>.2498 (1/4)</td>
<td>F</td>
<td>2024 Aluminum</td>
</tr>
</tbody>
</table>

Example:

S1A5A-F072A150 is an Aluminum Anti-Backlash Gear with 150 Teeth and .1873 Bore Fairloc® Hub.
ANTI-BACKLASH GEARS • 72 PITCH

AGMA 10
.104 FACE
1/8, 3/16 & 1/4 BORE
20° PRESSURE ANGLE

▶ MATERIAL:
Gears - 303 Stainless Steel
2024 Aluminum
T4 or T351 Alloy, Anodized before cutting
Hubs - 303 Stainless Steel
Springs - 302 Stainless Steel, Spring Temper

▶ HUB STYLE: PIN OR CLAMP TYPE

<table>
<thead>
<tr>
<th>B Bore Selection</th>
<th>H Pin Type</th>
<th>C Clamp Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>.1248 (1/8)</td>
<td>.312</td>
</tr>
<tr>
<td>4</td>
<td>.1873 (3/16)</td>
<td>.375</td>
</tr>
<tr>
<td>6</td>
<td>.2498 (1/4)</td>
<td>.437</td>
</tr>
</tbody>
</table>

Available on special order:
14-1/2° P.A., teeth not listed, different bore size, passivation for Stainless Steel.

Example:
S9703A-Z2F120AP is an Aluminum Pin Type Anti-Backlash Gear with 120 Teeth and .1248 Bore.
ANTI-BACKLASH GEARS • 72 PITCH

AGMA 10
.104 FACE
1/8, 3/16 & 1/4 BORE
20° PRESSURE ANGLE

 MATERIAL:
Gears - 303 Stainless Steel or 2024 Aluminum
T4 or T351 Alloy, Anodized before cutting
Hubs - 303 Stainless Steel
Springs - 302 Stainless Steel, Spring Temper

 HUB STYLE: PIN OR CLAMP TYPE
Two style codes available per bore size.

<table>
<thead>
<tr>
<th>Code</th>
<th>Size</th>
<th>Pin Type</th>
<th>Code</th>
<th>Dia.</th>
<th>Clamp Type</th>
<th>Dia.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>.1248 (1/8)</td>
<td>P</td>
<td>.31</td>
<td>C</td>
<td>.188</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>.1873 (3/16)</td>
<td>P</td>
<td>.37</td>
<td>C</td>
<td>.250</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>.2498 (1/4)</td>
<td>P</td>
<td>.50</td>
<td>C</td>
<td>.312</td>
<td></td>
</tr>
</tbody>
</table>

Available on special order:
14-1/2° P.A., teeth not listed, different bore size, passivation for Stainless Steel.

INCH COMPONENT CATALOG NUMBER

<table>
<thead>
<tr>
<th>B Bore Code</th>
<th>Hub Style Code (See above)</th>
<th>Material Code - Gears</th>
</tr>
</thead>
<tbody>
<tr>
<td>.1248 (1/8)</td>
<td>Pin Type (P)</td>
<td>303 Stainless Steel</td>
</tr>
<tr>
<td>.1873 (3/16)</td>
<td>Clamp Type (C)</td>
<td></td>
</tr>
<tr>
<td>.2498 (1/4)</td>
<td></td>
<td>2024 Aluminum</td>
</tr>
</tbody>
</table>

Example:
S1A53A-P072S145 is a Stainless Steel Pin Type Anti-Backlash Gear with 145 Teeth and .1248 Bore.
FAIRLOC® HUB ANTI-BACKLASH GEARS • 64 PITCH

AGMA 10
.104 FACE
20° PRESSURE ANGLE

> MATERIAL:
  Gears - 303 Stainless Steel
  2024 Aluminum
  T4 or T351 Alloy, Anodized before cutting
  Hubs - 303 Stainless Steel
  Springs - 302 Stainless Steel, Spring Temper

Available on special order:
14-1/2° P.A., teeth not listed, different
bore size, passivation for Stainless Steel.

Fairloc® hubs require controlled shaft tolerances.
Suggested clearance fit between the bore and the
shaft is .0001/.0008

FAIRLOC® HUB CLEARANCE
RADIUS .31 MAX.

INCH COMPONENT
CATALOG NUMBER
S 1 A 5 A - F 0 6 4

B Bore Code
.1248 (1/8) 3
.1873 (3/16) 4
.2498 (1/4) 6

Material Code - Gears
303 Stainless Steel S
2024 Aluminum
T4 or T351 Alloy, Anodized before cutting A

Example:
S1A5A-F064A125 is an Aluminum Anti-Backlash
Gear with 125 Teeth and .2498 Bore Fairloc® Hub.

<table>
<thead>
<tr>
<th>No. of Teeth Code</th>
<th>No. of Teeth</th>
<th>P.D.</th>
<th>O.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>085</td>
<td>85</td>
<td>1.3281</td>
<td>1.359</td>
</tr>
<tr>
<td>090</td>
<td>90</td>
<td>1.4063</td>
<td>1.438</td>
</tr>
<tr>
<td>095</td>
<td>95</td>
<td>1.4844</td>
<td>1.516</td>
</tr>
<tr>
<td>096</td>
<td>96</td>
<td>1.5000</td>
<td>1.531</td>
</tr>
<tr>
<td>100</td>
<td>100</td>
<td>1.5625</td>
<td>1.594</td>
</tr>
<tr>
<td>105</td>
<td>105</td>
<td>1.6406</td>
<td>1.672</td>
</tr>
<tr>
<td>110</td>
<td>110</td>
<td>1.7188</td>
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</tr>
<tr>
<td>115</td>
<td>115</td>
<td>1.7969</td>
<td>1.828</td>
</tr>
<tr>
<td>120</td>
<td>120</td>
<td>1.8750</td>
<td>1.906</td>
</tr>
<tr>
<td>125</td>
<td>125</td>
<td>1.9531</td>
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<td>128</td>
<td>128</td>
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<td>130</td>
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<td>2.063</td>
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<td>2.9688</td>
<td>3.000</td>
</tr>
<tr>
<td>192</td>
<td>192</td>
<td>3.0000</td>
<td>3.031</td>
</tr>
</tbody>
</table>

FAIRLOC® HUB ANTI-BACKLASH GEARS • 64 PITCH

PHONE: 516.328.3300 • FAX: 516.326.8827 • WWW.SDP-SI.COM
ANTI-BACKLASH GEARS • 64 PITCH

AGMA 10
.104 FACE
1/8, 3/16 & 1/4 BORE
20° PRESSURE ANGLE

MATERIAL:
Gears - 303 Stainless Steel
2024 Aluminum
T4 or T351 Alloy, Anodized before cutting
Hubs - 303 Stainless Steel
Springs - 302 Stainless Steel, Spring Temper

HUB STYLE: PIN OR CLAMP TYPE

<table>
<thead>
<tr>
<th>B Bore Selection Code</th>
<th>H Pin Type Code</th>
<th>C Clamp Type Code</th>
<th>P.D. O.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>Size</td>
<td>Dia.</td>
<td>Code</td>
</tr>
<tr>
<td>3</td>
<td>.1248 (1/8)</td>
<td>.312</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>.1873 (3/16)</td>
<td>.375</td>
<td>5</td>
</tr>
<tr>
<td>6</td>
<td>.2458 (1/4)</td>
<td>.437</td>
<td>7</td>
</tr>
</tbody>
</table>

Available on special order:
14-1/2° P.A., teeth not listed, different
bore size, passivation for Stainless Steel.

INCH COMPONENT CATALOG NUMBER

<table>
<thead>
<tr>
<th>No. of Teeth Code</th>
<th>P.D.</th>
<th>O.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>085</td>
<td>1.3281</td>
<td>1.359</td>
</tr>
<tr>
<td>090</td>
<td>1.4063</td>
<td>1.438</td>
</tr>
<tr>
<td>095</td>
<td>1.4844</td>
<td>1.516</td>
</tr>
<tr>
<td>096</td>
<td>1.5000</td>
<td>1.531</td>
</tr>
<tr>
<td>100</td>
<td>1.5625</td>
<td>1.594</td>
</tr>
<tr>
<td>105</td>
<td>1.6406</td>
<td>1.672</td>
</tr>
<tr>
<td>110</td>
<td>1.7188</td>
<td>1.750</td>
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<tr>
<td>115</td>
<td>1.7969</td>
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<td>1.984</td>
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<tr>
<td>192</td>
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<td>3.031</td>
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</table>

Example:
S970A-Z3E096AP is an Aluminum Clamp Type
Anti-Backlash Gear with 96 Teeth and .1248 Bore.
ANTI-BACKLASH GEARS • 64 PITCH

AGMA 10
.104 FACE
1/8, 3/16 & 1/4 BORE
20° PRESSURE ANGLE

 MATERIAL:
Gears - 303 Stainless Steel
2024-T4 or -T351 Aluminum Alloy,
anodized before cutting.
Hubs - 303 Stainless Steel
Springs - 302 Stainless Steel, Spring Temper

 HUB STYLE: PIN OR CLAMP TYPE

<table>
<thead>
<tr>
<th>B Bore Selection Code</th>
<th>H Pin Type Code</th>
<th>C Clamp Type Code</th>
<th>P.D. O.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>.1248 (1/8)</td>
<td>P .31</td>
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<td>4</td>
<td>.1873 (3/16)</td>
<td>P .37</td>
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<td>.2498 (1/4)</td>
<td>P .50</td>
<td></td>
</tr>
</tbody>
</table>

Available on special order:
14-1/2° P.A., teeth not listed, different bore size, passivation for Stainless Steel.

- SUB DRILL
- SET SCREW SUPPLIED
- FOR CLAMPS SEE INDEX

Example:
S1A53A-C064S100 is a Stainless Steel Clamp Type Anti-Backlash Gear with 100 Teeth and .1248 Bore.

REV: 11.9.12 mh
FAIRLOC® HUB ANTI-BACKLASH GEARS • 48 PITCH

AGMA 10
.104 FACE
20° PRESSURE ANGLE

> MATERIAL:
  Gears - 303 Stainless Steel
  2024 Aluminum
  T4 or T351 Alloy, Anodized before cutting
  Hubs - 303 Stainless Steel
  Springs - 302 Stainless Steel, Spring Temper

Available on special order:
14-1/2° P.A., teeth not listed, different
bore size, passivation for Stainless Steel.

Fairloc® hubs require controlled shaft tolerances.
Suggested clearance fit between the bore and the
shaft is .0001/.0008

<table>
<thead>
<tr>
<th>No. of Teeth Code</th>
<th>No. of Teeth</th>
<th>P.D.</th>
<th>O.D.</th>
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</thead>
<tbody>
<tr>
<td>065</td>
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<td>72</td>
<td>1.5000</td>
<td>1.542</td>
</tr>
<tr>
<td>075</td>
<td>75</td>
<td>1.5625</td>
<td>1.604</td>
</tr>
<tr>
<td>080</td>
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<td>090</td>
<td>90</td>
<td>1.8750</td>
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<tr>
<td>095</td>
<td>95</td>
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<td>096</td>
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<td>2.0000</td>
<td>2.042</td>
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<tr>
<td>100</td>
<td>100</td>
<td>2.0833</td>
<td>2.125</td>
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<tr>
<td>105</td>
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<td>144</td>
<td>3.0080</td>
<td>3.042</td>
</tr>
</tbody>
</table>

Example:
S1A53A-F048S120 is a Stainless Steel Anti-
Backlash Gear with 120 Teeth and .1248 Bore
Fairloc® Hub.
ANTI-BACKLASH GEARS • 48 PITCH

AGMA 10
.104 FACE
1/8, 3/16 & 1/4 BORE
20° PRESSURE ANGLE

▷ MATERIAL:
Gears - 303 Stainless Steel
2024 Aluminum
T4 or T351 Alloy, anodized before cutting
Hubs - 303 Stainless Steel
Springs - 302 Stainless Steel, Spring Temper

▷ HUB STYLE: PIN OR CLAMP TYPE

<table>
<thead>
<tr>
<th>B Bore Selection</th>
<th>H Pin Type</th>
<th>C Clamp Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>.1248 (1/8)</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>.1873 (3/16)</td>
<td>4</td>
</tr>
<tr>
<td>6</td>
<td>.2498 (1/4)</td>
<td>6</td>
</tr>
</tbody>
</table>

Available on special order:
14-1/2° P.A., teeth not listed, different bore size, passivation for Stainless Steel.

Example:
S9703A-ZZD080-P is a Stainless Steel Pin Type Anti-Backlash Gear with 80 Teeth and .1248 Bore.
**ANTI-BACKLASH GEARS • 48 PITCH**

AGMA 10  
.104 FACE  
1/8, 3/16 & 1/4 BORE  
20° PRESSURE ANGLE

**MATERIAL:**  
Gears - 303 Stainless Steel  
2024-T4 or -T351 Aluminum Alloy, anodized before cutting.  
Hubs - 303 Stainless Steel  
Springs - 302 Stainless Steel, Spring Temper

**HUB STYLE: PIN OR CLAMP TYPE**

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>.1248 (1/8)</td>
<td>P</td>
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<td>4</td>
<td>.1873 (3/16)</td>
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<td>.37</td>
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<td>6</td>
<td>.2498 (1/4)</td>
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<td>.50</td>
<td>C</td>
<td>312</td>
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</table>

Available on special order:  
14-1/2° P. A., teeth not listed, different bore size, passivation for Stainless Steel.

**INCH COMPONENT CATALOG NUMBER**

- **B Bore Code**
  - .1248 (1/8) 3
  - .1873 (3/16) 4
  - .2498 (1/4) 6

- **Hub Style Code** (See above)
  - Pin Type P
  - Clamp Type C

- **Material Code - Gears**
  - 303 Stainless Steel S
  - 2024-T4 or -T351 Aluminum Alloy, anodized before cutting.

**Example:** S1A5S-P048S072 is a Stainless Steel Pin Type Anti-Backlash Gear with 72 Teeth and .1248 Bore.

REV: 12.13.2012  JC
ANTI-BACKLASH GEARS • 32 PITCH

AGMA 10
3/16 FACE
1/4 BORE
20° PRESSURE ANGLE

MATERIAL:
Gears - 303 Stainless Steel
2024-T4 or -T351 Aluminum Alloy, anodized before cutting.
Hubs - 303 Stainless Steel
Springs - 302 Stainless Steel, Spring Temper

Available on special order:
14-1/2° P.A., teeth not listed, different bore size, passivation for Stainless Steel.

Example:
S1A86A-P032S048 is a Stainless Steel Pin Type Anti-Backlash Gear with 48 Teeth.

REV: 12.13.2012 JC
ANTI-BACKLASH GEARS • 24 PITCH

AGMA 10
3/16 FACE
1/4 BORE
20° PRESSURE ANGLE

MATERIAL:
Gears - 303 Stainless Steel
2024-T4 or -T351 Aluminum Alloy, anodized before cutting.
Hubs - 303 Stainless Steel
Springs - 302 Stainless Steel, Spring Temper

Available on special order:
14-1/2° P.A., teeth not listed, different bore size, passivation for Stainless Steel.

Example: S1A86A-P024S035 is a Stainless Steel Pin Type Anti-Backlash Gear with 35 Teeth.

Table of No. of Teeth Code and Material Code:

<table>
<thead>
<tr>
<th>No. of Teeth Code</th>
<th>No. of Teeth</th>
<th>P.D.</th>
<th>O.D.</th>
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</thead>
<tbody>
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<tr>
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</tr>
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<td>035</td>
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<td>036</td>
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<td>038</td>
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<tr>
<td>042</td>
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<td>048</td>
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<td>072</td>
<td>72</td>
<td>3.0000</td>
<td>3.083</td>
</tr>
</tbody>
</table>

Example:
S1A86A-P024S035 is a Stainless Steel Pin Type Anti-Backlash Gear with 35 Teeth.
AGMA 10
.104 FACE
20° PRESSURE ANGLE

MATERIAL:
Gears - 303 Stainless Steel
2024 Aluminum
T4 or T351 Alloy, Anodized before cutting
Hubs - 303 Stainless Steel
Springs - 302 Stainless Steel, Torsion Type,
Spring Temper

Available on special order:
14-1/2° P.A., teeth not listed, different
bore size, passivation for Stainless Steel.

Fairloc® hubs require controlled shaft tolerances.
Suggested clearance fit between the bore and the
shaft is .0001/.0008.

Material Code - Gears
303 Stainless Steel S
2024 Aluminum
T4 or T351 Alloy,
Anodized before cutting A

Example:
S1M5A-F120A090 is an Aluminum Mini-
Lash Gear with 90 Teeth and .2498 Bore
Fairloc® Hub.
MINI-LASH GEARS • 120 PITCH

AGMA 10
.104 FACE
1/8, 3/16 & 1/4 BORE
20° PRESSURE ANGLE

 MATERIAL:
Gears - 303 Stainless Steel
2024-T4 or -T351 Aluminum
Alloy, anodized before cutting.
Hubs - 303 Stainless Steel
Springs - 302 Stainless Steel, Torsion Type,
Spring Temper

 HUB STYLE: PIN OR CLAMP TYPE

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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<th></th>
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<tr>
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<td>.312</td>
<td>3</td>
<td>.187</td>
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<tr>
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<td>.1873 (3/16)</td>
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<td>.250</td>
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<td>.2498 (1/4)</td>
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<td>.437</td>
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<td></td>
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</table>

Available on special order:
14-1/2° P.A., teeth not listed, different bore size, passivation for Stainless Steel.

Example:
S9713A-Z3J084-P is a Stainless Steel Clamp Type Mini-Lash Gear with 84 Teeth and .1248 Bore.

REV: 10.11.12 mh
AGMA 10
.104 FACE
20° PRESSURE ANGLE

**MATERIAL:**
- Gears - 303 Stainless Steel
  - 2024 Aluminum
  - T4 or T351 Alloy, Anodized before cutting
- Hubs - 303 Stainless Steel
- Springs - 302 Stainless Steel, Torsion Type, Spring Temper

Available on special order:
- 14-1/2° P.A., teeth not listed, different bore size, passivation for Stainless Steel.

Fairloc® hubs require controlled shaft tolerances. Suggested clearance fit between the bore and the shaft is .0001/.0008.

---

**FAIRLOC® HUB MINI-LASH GEARS • 96 PITCH**

**INCH COMPONENT CATALOG NUMBER**

```
S 1 M 5 A - F 0 9 6
```

**B Bore Code**
- .1248 (1/8) 3
- .1873 (3/16) 4
- .2498 (1/4) 6

**Material Code - Gears**
- 303 Stainless Steel S
- 2024 Aluminum
- T4 or T351 Alloy, Anodized before cutting A

**Example:**
S1M53A-F096S074 is a Stainless Steel Mini-Lash Gear with 74 Teeth and .1248 Bore Fairloc® Hub.
MINI-LASH GEARS • 96 PITCH

AGMA 10
.104 FACE
1/8, 3/16 & 1/4 BORE
20° PRESSURE ANGLE

MATERIAL:
Gears - 303 Stainless Steel
2024-T4 or -T351 Aluminum Alloy, anodized before cutting.
Hubs - 303 Stainless Steel
Springs - 302 Stainless Steel, Torsion Type, Spring Temper

HUB STYLE: PIN OR CLAMP TYPE

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
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<tbody>
<tr>
<td>3</td>
<td>.1248 (1/8)</td>
<td>2</td>
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<td>6</td>
<td>2498 (1/4)</td>
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<td>.437</td>
<td>7</td>
<td>.312</td>
</tr>
</tbody>
</table>

Available on special order:
14-1/2° P.A., teeth not listed, different bore size, passivation for Stainless Steel.

Example:
S9713A-Z2H064-P is a Stainless Steel Pin Type Mini-Lash Gear with 64 Teeth and .1248 Bore.
FAIRLOC® HUB MINI-LASH GEARS • 80 PITCH

AGMA 10
.104 FACE
20° PRESSURE ANGLE

MATERIAL:
- Gears - 303 Stainless Steel
  2024 Aluminum
  T4 or T351 Alloy, Anodized before cutting
- Hubs - 303 Stainless Steel
- Springs - 302 Stainless Steel, Torsion Type,
  Spring Temper

Available on special order:
14-1/2° P.A., teeth not listed, different
bore size, passivation for Stainless Steel.

Fairloc® hubs require controlled shaft tolerances.
Suggested clearance fit between the bore and the
shaft is .0001/.0008.

INCH COMPONENT CATALOG NUMBER
S 1 M 5 A - F 0 8 0

B Bore Code
.1248 (1/8) 3
.1873 (3/16) 4
.2498 (1/4) 6

Material Code - Gears
303 Stainless Steel S
2024 Aluminum A
T4 or T351 Alloy,
Anodized before cutting

Example:
S1M54A-F080A085 is an Aluminum Mini-
Lash Gear with 85 Teeth and .1873 Bore
Fairloc® Hub.
MINI-LASH GEARS • 80 PITCH

AGMA 10
.104 FACE
1/8, 3/16 & 1/4 BORE
20° PRESSURE ANGLE

➤ MATERIAL:
Gears - 303 Stainless Steel
2024-T4 or -T351 Aluminum Alloy, anodized before cutting.
Hubs - 303 Stainless Steel
Springs - 302 Stainless Steel, Torsion Type, Spring Tempered

➤ HUB STYLE: PIN OR CLAMP TYPE

<table>
<thead>
<tr>
<th>B Bore Selection</th>
<th>Size</th>
<th>H Pin Type</th>
<th>Code</th>
<th>Dia.</th>
<th>C Clamp Type</th>
<th>Code</th>
<th>Dia.</th>
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<tbody>
<tr>
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<td>.1248 (1/8)</td>
<td>2</td>
<td>.312</td>
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<td>.1873 (3/16)</td>
<td>4</td>
<td>.375</td>
<td>5</td>
<td>250</td>
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<td></td>
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<td>6</td>
<td>.2498 (1/4)</td>
<td>6</td>
<td>.437</td>
<td>7</td>
<td>.312</td>
<td></td>
<td></td>
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</tbody>
</table>

Available on special order:
14-1/2° P.A., teeth not listed, different bore size, passivation for Stainless Steel.

Example:
S9713A-23G048-P is a Stainless Steel Clamp Type Mini-Lash Gear with 48 Teeth and .1248 Bore.
FAIRLOC® HUB MINI-LASH GEARS • 72 PITCH

AGMA 10
.104 FACE
20° PRESSURE ANGLE

MATERIAL:

- Gears - 303 Stainless Steel
- 2024 Aluminum
- T4 or T351 Alloy, Anodized before cutting
- Hubs - 303 Stainless Steel
- Springs - 302 Stainless Steel, Torsion Type,
  Spring Temper

Available on special order:
14-1/2° P.A., teeth not listed, different
bore size, passivation for Stainless Steel.

Fairloc® hubs require controlled shaft tolerances.
Suggested clearance fit between the bore and the
shaft is .0001/.0008.

INCH COMPONENT
CATALOG NUMBER

S 1 M 5 A - F 0 7 2

B Bore Code
.1248 (1/8) 3
.1873 (3/16) 4
.2498 (1/4) 6

Material Code - Gears
303 Stainless Steel S
2024 Aluminum
T4 or T351 Alloy,
Anodized before cutting A

Example:
S1M56A-F072A058 is an Aluminum Mini-
Lash Gear with 58 Teeth and .2498 Bore
Fairloc® Hub.

FAIRLOC® HUB
CLEARANCE
RADIUS .31 MAX.

<table>
<thead>
<tr>
<th>No. of Teeth Code</th>
<th>No. of Teeth</th>
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<th>O.D.</th>
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<td>054</td>
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MINI-LASH GEARS • 72 PITCH

AGMA 10
.104 FACE
1/8, 3/16 & 1/4 BORE
20° PRESSURE ANGLE

› MATERIAL:
Gears - 303 Stainless Steel
2024-T4 or -T351 Aluminum Alloy, anodized before cutting.
Hubs - 303 Stainless Steel
Springs - 302 Stainless Steel, Torsion Type, Spring Temper

› HUB STYLE: PIN OR CLAMP TYPE

<table>
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<th>H Pin Type</th>
<th>C Clamp Type</th>
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Available on special order:
14-1/2° P.A., teeth not listed, different bore size, passivation for Stainless Steel.

INCH COMPONENT CATALOG NUMBER

| S 9 7 1 A - Z F | | P |

B Bore Code
.1248 (1/8) 3
.1873 (3/16) 4
.2498 (1/4) 6

Hub Style Code (See above)
Pin Type 2, 4 or 6
Clamp Type 3, 5 or 7

Material Code - Gears
303 Stainless Steel
2024-T4 or -T351 Aluminum Alloy, anodized before cutting. A

Example:
S9713A-Z2F054-P is a Stainless Steel Pin Type Mini-Lash Gear with 54 Teeth and .1248 Bore.
### FAIRLOC® HUB MINI-LASH GEARS • 64 PITCH

**AGMA 10**
.104 FACE
20° PRESSURE ANGLE

**MATERIAL:**
- **Gears**: 303 Stainless Steel
  - 2024 Aluminum
  - T4 or T351 Alloy, Anodized before cutting
- **Hubs**: 303 Stainless Steel
- **Springs**: 302 Stainless Steel, Torsion Type, Spring Temper

Available on special order:
- 14-1/2° P.A., teeth not listed, different bore size, passivation for Stainless Steel.

Fairloc® hubs require controlled shaft tolerances. Suggested clearance fit between the bore and the shaft is .0001/.0008.

---

**INCH COMPONENT CATALOG NUMBER**

**B Bore Code**
- .1248 (1/8) 3
- .1873 (3/16) 4
- .2498 (1/4) 6

**Material Code - Gears**
- 303 Stainless Steel S
- 2024 Aluminum A
  - T4 or T351 Alloy, Anodized before cutting

Example:
S1M5A-F064S054 is a Stainless Steel Mini-Lash Gear with 54 Teeth and .1248 Bore Fairloc® Hub.

---

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MINI-LASH GEARS • 64 PITCH

AGMA 10
.104 FACE
1/8, 3/16 & 1/4 BORE
20° PRESSURE ANGLE

MATERIAL:
Gears - 303 Stainless Steel
2024 Aluminum
T4 or T351 Alloy, Anodized before cutting
Hubs - 303 Stainless Steel
Springs - 302 Stainless Steel, Torsion Type,
Spring Temper

HUB STYLE: PIN OR CLAMP TYPE

Available on special order:
14-1/2° P.A., teeth not listed, different
bore size, passivation for Stainless Steel.

INCH COMPONENT CATALOG NUMBER

S 9 7 1 [A - Z] E [ ] [ ] [ ] P

B Bore Code
.1248 (1/8) 3
.1873 (3/16) 4
.2498 (1/4) 6

Hub Style Code (See above)
Pin Type 2, 4 or 6
Clamp Type 3, 5 or 7

Material Code - Gears
303 Stainless Steel
2024 Aluminum
T4 or T351 Alloy,
Anodized before cutting

Example: S9713A-Z3E048-P is a Stainless Steel Clamp Type Mini-Lash Gear with 48 Teeth and .1248 Bore.