

## Recoil Wire Thread Inserts

Create **Strong  
New Threads**



### Recoil inserts and tooling systems for OEM applications

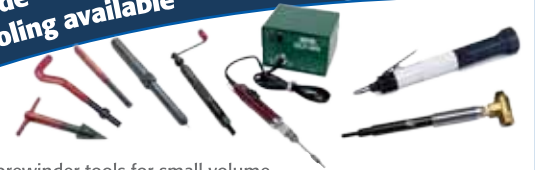
Recoil wire thread inserts are widely used by major manufacturers in a variety of markets: including automotive, electronics, aerospace, military, power generation and manufacturing equipment.

**The benefits of using Recoil are:**

- Provides a permanent and wear resistant thread stronger than the original thread.
- Ideally suited for use in light weight materials such as aluminium, magnesium and carbon fibre.
- Ex-stock availability on a huge variety of both standard and special products.
- Quick and simple installation process reduces maintenance costs, keeping application downtime to a minimum.

- Comprehensive technical support from our dedicated, multi-lingual European support team.
- Commitment to the highest quality products and operating systems: AS9100, ISO9001, QS9000, TS16949:2002 accreditation. SBAC TS 157 approval. Ford Q1 status. Boeing BACI12AE qualification.

**We have a wide range of tooling available**



From simple hand prewinder tools for small volume usage to pneumatic or electric tools for continual high production needs.

#### Locking Inserts

**For extreme vibration conditions**  
Locking inserts retain bolts under the most severe conditions.

#### Strip Feed Inserts

**For rapid installation**  
Inserts are retained in a plastic strip which is passed rapidly through a slot in the front end assembly nozzle, indexing them to the installation mandrel.

#### Tangless®

**No tang to break off, retrieve or lose.**  
Reduces costs by significantly decreased installation and inspection time. Bi-directional design eliminates insert orientation requirement.

# Size Chart

Metric				
Size	Standard Insert Part No.	Locking Insert Part No.	Installed Length D's	Installed Length mm
M5-0.8	05052	15052	1	5
M5-0.8	05053	15053	1.5	7.5
M5-0.8	05054	15054	2	10
M5-0.8	05055	15055	2.5	12.5
M5-0.8	05056	15056	3	15
M6-1	05062	15062	1	6
M6-1	05063	15063	1.5	9
M6-1	05064	15064	2	12
M6-1	05065	15065	2.5	15
M6-1	05066	15066	3	18
M7-1	05072	15072	1	7
M7-1	05073	15073	1.5	10.5
M7-1	05074	15074	2	14
M7-1	05075	15075	2.5	17.5
M7-1	05076	15076	3	21
M8-1.25	05082	15082	1	8
M8-1.25	05083	15083	1.5	12
M8-1.25	05084	15084	2	16
M8-1.25	05085	15085	2.5	20
M8-1.25	05086	15086	3	24
M9-1.25	05092		1	9
M9-1.25	05093		1.5	13.5
M9-1.25	05094		2	18
M9-1.25	05095		2.5	22.5
M9-1.25	05096		3	27
M10-1.5	05102	15102	1	10
M10-1.5	05103	15103	1.5	15
M10-1.5	05104	15104	2	20
M10-1.5	05105	15105	2.5	25
M10-1.5	05106		3	30
M12-1.75	05122	15122	1	12
M12-1.75	05123	15123	1.5	18
M12-1.75	05124	15124	2	24
M12-1.75	05125	15125	2.5	30
M12-1.75	05126	15126	3	36
M14.2	05142	15142	1	14
M14.2	05143	15143	1.5	21
M14.2	05144	15144	2	28
M14.2	05145	15145	2.5	35
M14.2	05146	15146	3	42
M18-2.5	05182	15182	1	18
M18-2.5	05183	15183	1.5	27
M18-2.5	05184	15184	2	36
M18-2.5	05185	15185	2.5	45
M18-2.5	05186	15186	3	54
M20-2.5	05202	15202	1	20
M20-2.5	05203	15203	1.5	30
M20-2.5	05204	15204	2	40
M20-2.5	05205	15205	2.5	50
M20-2.5	05206	15206	3	60
M22-2.5	05222	15222	1	22
M22-2.5	05223	15223	1.5	33
M22-2.5	05224	15224	2	44
M22-2.5	05225		2.5	55
M22-2.5	05226		3	66

UNC				
Size	Standard Insert Part No.	Locking Insert Part No.	Installed Length D's	Installed Length inch
8-32	03582	13582	1	0.164
8-32	03583	13583	1.5	0.246
8-32	03584	13584	2	0.328
8-32	03585	13585	2.5	0.41
8-32	03586	13586	3	0.492
10-24	03602	13602	1	0.19
10-24	03603	13603	1.5	0.285
10-24	03604	13604	2	0.38
10-24	03605	13605	2.5	0.475
10-24	03606	13606	3	0.57
12-24	03622	13622	1	0.216
12-24	03623	13623	1.5	0.324
12-24	03624	13624	2	0.432
12-24	03625	13625	2.5	0.54
12-24	03626	13626	3	0.648
1/4-20	03042	13042	1	0.25
1/4-20	03043	13043	1.5	0.375
1/4-20	03044	13044	2	0.5
1/4-20	03045	13045	2.5	0.625
1/4-20	03046	13046	3	0.75
5/16-18	03052	13052	1	0.312
5/16-18	03053	13053	1.5	0.468
5/16-18	03054	13054	2	0.624
5/16-18	03055	13055	2.5	0.78
5/16-18	03056	13056	3	0.936
3/8-16	03062	13062	1	0.375
3/8-16	03063	13063	1.5	0.563
3/8-16	03064	13064	2	0.75
3/8-16	03065	13065	2.5	0.938
3/8-16	03066	13066	3	1.125
7/16-14	03072	13072	1	0.438
7/16-14	03073	13073	1.5	0.657
7/16-14	03074	13074	2	0.876
7/16-14	03075	13075	2.5	1.095
7/16-14	03076	13076	3	1.314
1/2-13	03082	13082	1	0.438
1/2-13	03083	13083	1.5	0.657
1/2-13	03084	13084	2	0.876
1/2-13	03085	13085	2.5	1.095
1/2-13	03086	13086	3	1.314
9/16-12	03092	13092	1	0.562
9/16-12	03093	13093	1.5	0.843
9/16-12	03094	13094	2	1.124
9/16-12	03095	13095	2.5	1.405
9/16-12	03096	13096	3	1.686

UNF				
Size	Standard Insert Part No.	Locking Insert Part No.	Installed Length D's	Installed Length inch
8-36	04582	14582	1	0.164
8-36	04583	14583	1.5	0.246
8-36	04584	14584	2	0.328
8-36	04585		2.5	0.41
8-36	04586		3	0.492
10-32	04602	14602	1	0.19
10-32	04603	14603	1.5	0.285
10-32	04604	14604	2	0.38
10-32	04605	14605	2.5	0.475
10-32	04606	14606	3	0.57
12-28	04622		1	0.216
12-28	04623		1.5	0.324
12-28	04624		2	0.432
12-28	04625		2.5	0.54
12-28	04626		3	0.648
1/4-28	04042	14042	1	0.25
1/4-28	04043	14043	1.5	0.375
1/4-28	04044	14044	2	0.5
1/4-28	04045	14045	2.5	0.625
1/4-28	04046	14046	3	0.75
5/16-24	04052	14052	1	0.312
5/16-24	04053	14053	1.5	0.468
5/16-24	04054	14054	2	0.624
5/16-24	04055	14055	2.5	0.78
5/16-24	04056	14056	3	0.936
3/8-24	04062	14062	1	0.375
3/8-24	04063	14063	1.5	0.563
3/8-24	04064	14064	2	0.75
3/8-24	04065	14065	2.5	0.938
3/8-24	04066	14066	3	1.125
7/16-20	04072	14072	1	0.438
7/16-20	04073	14073	1.5	0.657
7/16-20	04074	14074	2	0.876
7/16-20	04075	14075	2.5	1.095
7/16-20	04076	14076	3	1.314
1/2-20	04082	14082	1	0.5
1/2-20	04083	14083	1.5	0.75
1/2-20	04084	14084	2	1
1/2-20	04085	14085	2.5	1.25
1/2-20	04086	14086	3	1.5
9/16-18	04092	14092	1	0.562
9/16-18	04093	14093	1.5	0.843
9/16-18	04094	14094	2	1.124
9/16-18	04095	14095	2.5	1.405
9/16-18	04096	14096	3	1.686

**Only the most popular kit sizes from our range are shown:**

- Metric sizes available - from M2-0.4 to M52-5
- BSW sizes available - from 1/8-40 to 1-8
- UNC sizes available - from 2-56 to 1 1/2-6
- BSF sizes available - from 3/16-32 to 1-10
- UNF sizes available - from 3-56 to 1 1/2-12

The range also includes BSC, BSP, NPT 8 TPI UN, BA and UNC left hand thread forms. Most sizes available in free running, screw locking and Tangless® forms.



TS 504515-000  
FM 80437

EMS 60542

**0800 019 8180**  
 **0800 901 352**  
 **0800 182 6928**

Alternatively call: **00 44 1952 290 011**

Email: [info@afsrecoil.net](mailto:info@afsrecoil.net)

[www.afsrecoil.net](http://www.afsrecoil.net)



**Part of the Alcoa Fastening Systems Group**



A wide range of wire thread inserts, tangless inserts, installation tooling & thread repair kits.

[www.afsrecoil.net](http://www.afsrecoil.net)



Extensive range of quarter-turn fasteners, tension latches, slam latches & the capability to make to your specific requirements.

[www.afscamloc.net](http://www.afscamloc.net)



Wide range of standard and application-specific nuts including self-locking, washer & flange nuts.

[www.afsimmonds.net](http://www.afsimmonds.net)



Lockbolts, structural blind fasteners, & associated tooling.

[www.afshuck.net](http://www.afshuck.net)



Non-structural rivets in a variety of materials & complimentary tooling.

[www.afsmarson.net](http://www.afsmarson.net)



Slotted nuts, bearing nuts & special nuts made specifically for your requirements.

[www.afsnep.net](http://www.afsnep.net)