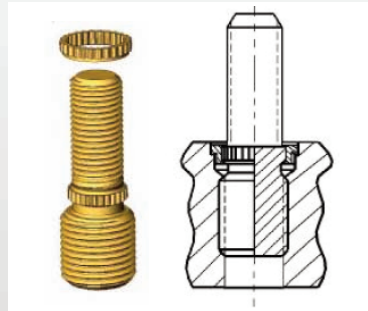
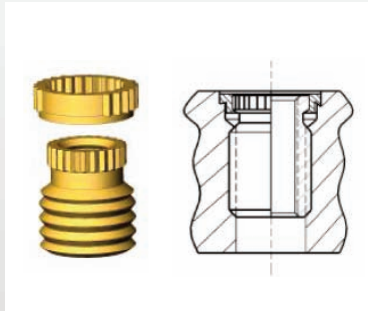


Ring-locked Studs, Inserts and Lock-rings

Used in mated pairs, Ring Locked Inserts and Studs are ideal for use in gear boxes, engines, pumps and vehicles in general. They provide excellent performance in high fatigue/high vibration applications. Their superior torsional resistance combined with a serrated Lockring, prevent the stud from backing out, in either soft or hard parent materials.



Ring-locked Inserts

AS51991/MS51991
 AS51993/MS51993
 DOD-I-63276/1
 MS51498
 RDJ100-(X)
 RJ200-(X)
 RDJ200-(X)
 RJ300-(X)
 RJ900-(X)
 RDJ900-(X)
 R1000-(X)
 R1100-(X)
 RJ1200-(X)



Ring-locked Studs

AS1561
 AS1620
 AS3319-AS3322
 AS51989/MS51989
 AS51992/MS51992
 DOD-S-63275/1
 MS51497
 MS51551
 SHF-(X)
 SFC-(X)
 SFCH-(X)

RJ2000-(X)
 RJ1700-(X)
 RDJ3600-(X)
 05-13008

Lock Rings for Ring-locked Fasteners

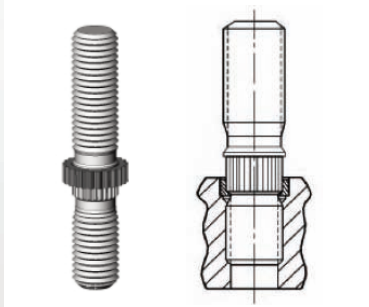
AS51990	RR-(X)
AS51997	RLRR-(X)
DOD-S-63276/2	RL-(X)
MS51990	RLRR1997-(X)
MS51997	RLH-(X)S3C-(X)



Ring-locked Inserts and Studs

- Standard and oversize styles available.
- Manufactured in both inch and metric threads.
- Solid configurations for plugs or special requirements.
- Hydraulic sealing configurations (low pressure)
- Produced in all common aerospace materials to MS, AN, NAS, SAE and other specifications.
- All styles available in standard configurations or with internal thread locking features.

Ring-locked Studs, Inserts and Lock-rings



Size-on-size Ring-locked Studs

AS3319	AS3321	SFC-(X)
AS3320	AS3322	SFCH-(X)

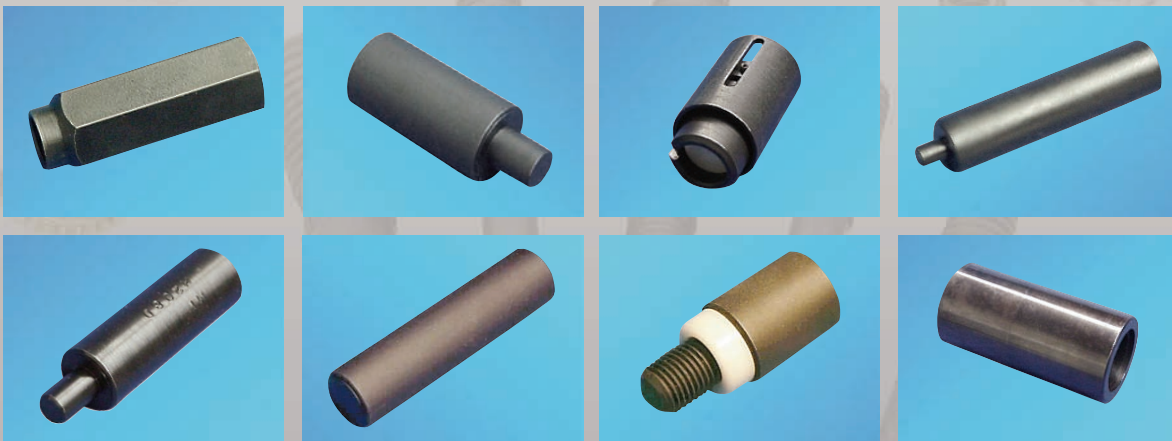


Size-on-size studs are similar to ring locked studs except that both threads have the same nominal diameter allowing the stud to be installed into minimum size bosses.

Ring-Locked Studs & Inserts	Ring-locked Inserts & Studs						
	Stud	Size-on-size Stud	Hydraulic Stud	Insert	Captive Locking Insert	Polymide Resin Lock Insert	Hydraulic Insert
<i>Features and Benefits</i>							
Standard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Includes Lock-ring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Thread Lock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic Applications	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Installation and Removal Tools

Ring-locked Inserts and Studs require special tooling for installation and removal. FDI stocks the entire line of tools for your applications. A small selection of drive tools and wrenches are shown below.



SPECIAL TOOLING REQUIRED