



FSI

Fastening Systems International

Serving the Blind Fastening Needs of Aerospace, Military & Industrial Markets



PT-100
Air Hydraulic Riveter



D-100
Hand Hydraulic Riveter

D-700C
Hand Hydraulic Riveter



D-180
Hand Hydraulic Riveter



PT-4000
Cordless Riveter



PT-301
Pneumatic Blind Riveter



PT-704B
Air Hydraulic Riveter



D-9000-MIL-2

NSN 5180-01-470-6539

Cage Code: 64878



PT-4500
Cordless Riveter





FSI
FASTENING SYSTEMS
INTERNATIONAL

PT-4500 Cordless Blind Riveter for CHERRYMAX® & Blind Bolts

POWERFUL

VERSATILE

LIGHTWEIGHT

PRODUCTIVE



Specifications for PT-4500:

Pulling Force:	5,000 lbs.
Stroke:	0.984"
Dimensions:	11.5" H x 12" L x 3.25" W
Power Source:	2.1 Ah, 18vdc Li-Ion Battery
Charger Source:	Dual Voltage 120 volt, 60Hz 220 volt, 50 Hz
Charger Cycle Time:	40 Minutes
Optimal Operating Temp. Range	50 F to 122°F
Housing Material:	Impact Resistant Glass Filled Nylon

The New, Higher Capacity PT-4500 Cordless Blind Riveter offers the sheet metal technician capability for installation of most all 1/4" diameter blind rivets while retaining all the features of the PT-4000 with respect to size, weight and versatility.

Powered by a slide on 18 VDC Li-Ion battery pack with fuel gage, the PT-4500 brushless motor drives a mechanical ball screw gear system that provides capability for the most demanding applications. With its rapid extended stroke capability the tool is comparable to most all air operated riveters, thereby optimizing cycle time between any blind rivet installation. Weighing less than 5 lbs with the standard nose assembly in place, sheet metal artisans will immediately find this riveter to offer the ultimate in overall performance and reliability.

The PT-4500 Kit includes the tool, 1 each battery pack and dual voltage battery charger.

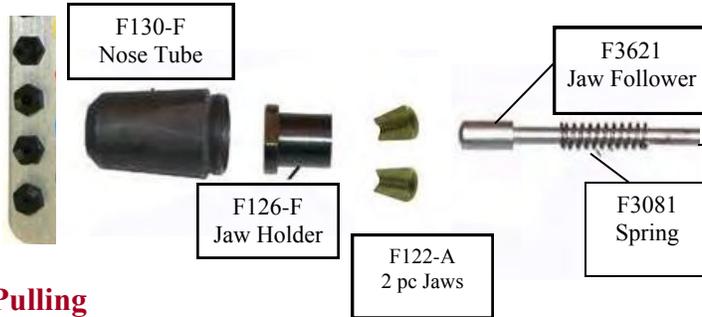


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PT-4500 (optional) Configurations

Standard Configuration

Nosepiece

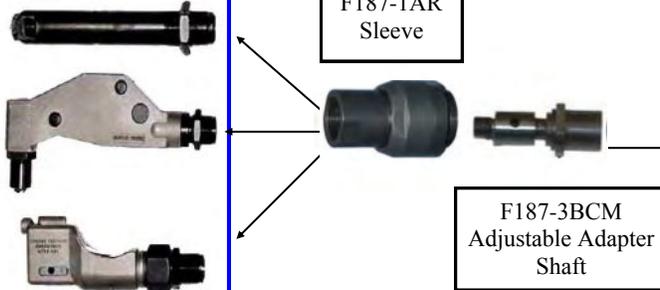


CherryMax® Pulling Head Configuration

Extended Straight Pulling Head F1074

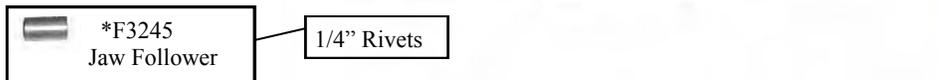
Right Angle Pulling Head F1075

Offset Pulling Head F1076



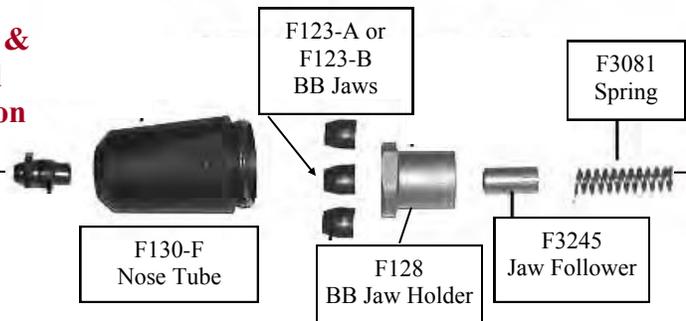
CherryMax® & Pop® Rivets Configuration

*Note: Replace Jaw Follower F3621 with F3245 (see spare parts canister) when installing 1/4" dia. rivets. You may also use the F123 (3pc) jaws for 1/8" thru 1/4" diameter blind rivets. Use F142 Nosepiece.



MS90353/54 "U" & "S" Type Blind Bolt Configuration

Nosepiece



Spare Parts:

F-4500A Battery Pack 18 v Battery Pack
 F-3500A Battery Charger Dual Voltage 110/220

Rivet Types:

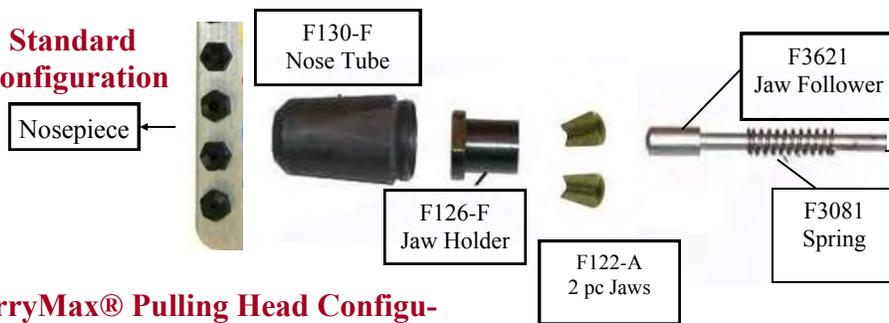
Types of rivets installable with the PT-4500 include, but are not limited to, virtually all CherryMax®(M7885), Avdel®, or Cherry Monobolts®, Cherry Interlock®, Huck MagnaLok®, and Pop type rivets. The PT-4500 is also capable of installing both 5/32" and 3/16" Blind Bolts (MS90353/54-S/U) with the proper nosepieces (provided in the Mil-1 and MIL-2 kits).



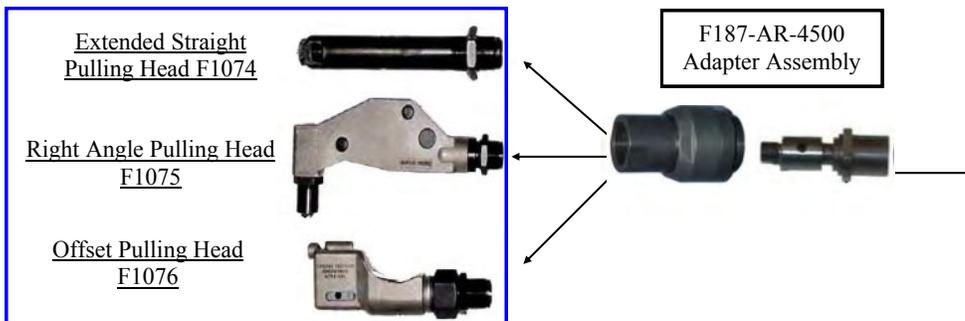
Aerospace and Industrial Sheet Metal
•Applications•

PT-4500-MIL-1 Configurations

Standard Configuration

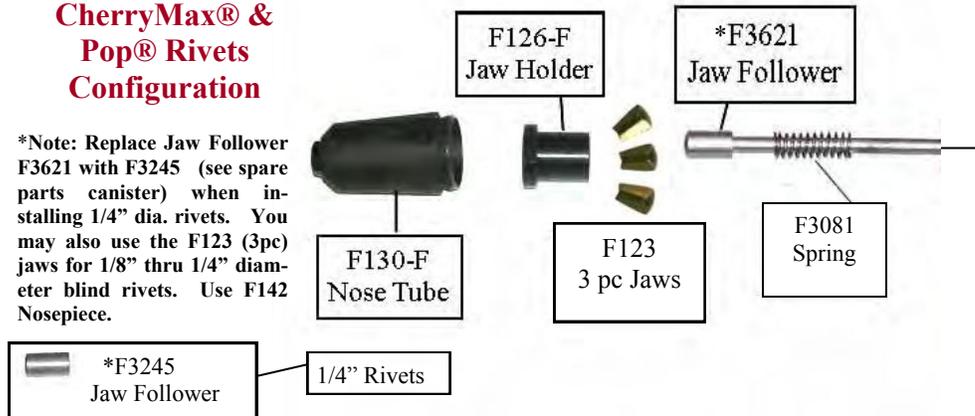


CherryMax® Pulling Head Configurations (not Included in MIL-1 Kit)

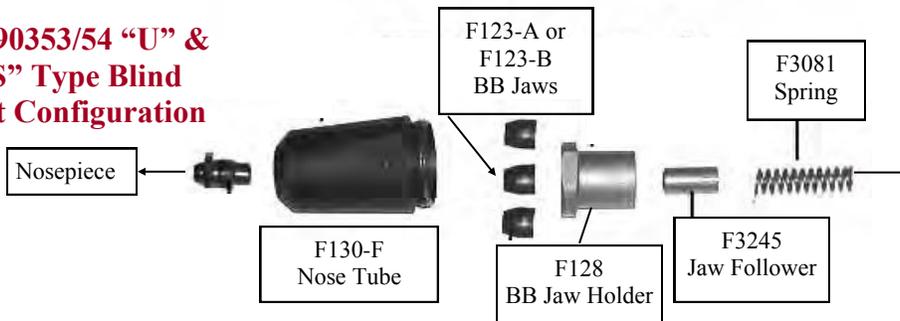


CherryMax® & Pop® Rivets Configuration

*Note: Replace Jaw Follower F3621 with F3245 (see spare parts canister) when installing 1/4" dia. rivets. You may also use the F123 (3pc) jaws for 1/8" thru 1/4" diameter blind rivets. Use F142 Nosepiece.



MS90353/54 "U" & "S" Type Blind Bolt Configuration



Rivet Types:

Types of rivets installable with the PT-4500 include, but are not limited to, virtually all CherryMax®(M7885), Avdel®, or Cherry Monobolts®, Cherry Interlock®, Huck Magna-Lok®, and Pop type rivets. The PT-4500 is also capable of installing both 5/32" and 3/16" Blind Bolts (MS90353/54-S/U) with the proper nosepieces (provided in the MIL-1 and MIL-2 kits).



Spare Parts:

F-4500A Battery Pack 18 v Battery Pack
 F-3500A Battery Charger Dual Voltage 110/220

Aerospace and Industrial Sheet Metal
•Applications•



**FASTENING SYSTEMS
INTERNATIONAL, INC**

POWERFUL

LIGHT WEIGHT

LONG STROKE

VERSATILE

Brushless Motor

**18 VDC Li-Ion
Battery w/ Fuel Gage**

**Installs Fasteners
Thru 1/4" Diameter**

**Rapid Stroke
Capability**

**1206 East MacArthur Str.
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GSA

PT-4500H

Cordless Blind Rivet & Lockbolt Installation Tool



The PT-4500H provides unparalleled speed, performance, and ergonomic features that leads the industry. Available both as a blind riveter and/or lockbolt installation tool for most all industrial and aerospace applications thru 1/4 inch (6.4 mm) diameter, it quickly adapts to Huck, FSI, Cherry and Olympic nose assemblies, including special right angle, offset, close edge distance (CED) and extended straight versions. Powered by a slide on 18 VDC Li-Ion battery pack with fuel gage, **the PT-4500H's** brushless motor drives a mechanical ball screw gear system that provides capability for the most demanding applications. With its rapid extended stroke capability the tool is comparable to most all air operated riveters, thereby optimizing cycle time between any blind rivet or lockbolt installation. Weighing less than 5 lbs with the standard rivet nose assembly in place, sheet metal artisans will immediately find this riveter to offer the ultimate in overall performance and reliability. The PT-4500H also provides built in led lighting if needed in darkened areas. Contact your nearest FSI dealer or our factory at **800-344-2393** to arrange a demonstration.

PT-4500H Series Cordless Blind Riveter & Lockbolt Tools



PT-4500H w/Side Ejection
Adapter F1458-SE for 1/4"
Lockbolts



PT-4500H w/Huck 3700
Series Offset Pulling Head
adapter F4187-AR-4500



PT-4500H standard
configuration for Huck 352
style pulling heads

Typical Fasteners Installed w/ the PT-4500H



NAS & GP Lockbolts



MS Blind Bolts



LGLP & MLGP Lockbolts

Specifications

Pull Force:	5,000 lbs (22.4 kN)
Stroke:	.984" (25mm)
Motor Type:	Brushless
Power Source:	18 VDC, 2.1 Ah, Li-Ion
Vibration:	<2.5M/s ²
Noise:	Lpa 78.5 Db(A)
Optimal Operating Temp Range	50°F to 122°F (10°C to 50°C)
Weight (w/ battery):	4.725 Lbs (2.143 KG)
Tool Dimensions (w/ battery):	11.5"H x 12"L x 3.25"W 292.1mm x 304.8mm x 82.55mm

Charger Dimensions: 3.5"H x 7.5"L x 4.5"W 88.9mm x 190.5mm x 114.3mm
Charger Weight: 1.145 lbs (0.519 Kg)
Charger Input: 100-240 V, 50-60 Hz
Charger Output: 21 V + 2.5 A 60 Watts
Charge Cycle: 40 min.
Average Charge Cycle Life: 1,000
Battery Temp Range: -23°F to 131°F (-5°C to 55°C)
Certifications: UL® & CE Approved

PT-4500H-568CED Kit

5/32"-1/4" Blind Bolt Installation Kit

POWERFUL

VERSATILE

DURABLE

HIGH PRODUCTION



MS90353/54S&U, MS21140/41S&U
Blind Bolts



The PT-4500H-568CED battery operated cordless installation tool kit provides ergonomic design with optimum speed and reliability for installation of single action (MS90353/54S/U and MS21140/41S/U) aerospace blind bolts thru 1/4" diameter. The Riveter can also install most all single action blind rivets and lockbolts with the appropriate HUCK style nose assemblies. Using the F4187-AR-4500 rotating adapter, the Huck 3700 series offset nose assemblies are also easily attached to the PT-4500H. The PT-4500H-568CED kit features the patented, close edge distance nose assemblies making it the perfect solution for light production, MRO, BDR, and mobility kit use. The kit includes the Riveter, 5/32, 3/16, and 1/4 CED nose assemblies, two 18 VDC LI-Ion batteries, 110V/220V battery charger and foamed carrying case.

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Blind Bolt Dedicated Tools - Available Sizes

Part No	Size
PT-4500H-4301-05CED	* 5/32 Blind Bolt
PT-4500H-4307-06CED	* 3/16 Blind Bolt
PT-4500H-4313-08CED	* 1/4 Blind Bolt

Standard Nose Assemblies Available for the PT-4500H Cordless Riveter

ASP FASTENERS

SIZE	PART NO.	DESCRIPTION
13/64" (06)	99-2642	3/16" ASP, STANDARD
13/64" (06)	99-2643	3/16" ASP, LONG
17/64" (08)	99-2645	1/4" ASP, STANDARD
17/64" (08)	99-2646	1/4" ASP, LONG
21/64" (10)	99-2648	5/16" ASP, STANDARD
21/64" (10)	99-2649	5/16" ASP, LONG

LGP LOCKBOLT

5/32" (05)	99-2501	5/32" LGP, STANDARD
5/32" (05)	99-2500	5/32" LGP, SHORT
5/32" (05)	99-2502	5/32" LGP, LONG
3/16" (06)	99-2507	3/16" LGP, STANDARD
3/16" (06)	99-2506	3/16" LGP, SHORT
3/16" (06)	99-2508	3/16" LGP, LONG
1/4" (08)*	99-2513	1/4" LGP, STANDARD
1/4" (08)*	99-2512	1/4" LGP, SHORT
1/4" (08)*	99-2514	1/4" LGP, LONG

NAS & GP LOCKBOLTS

5/32" (05)	99-2549T	5/32" GP, STANDARD
5/32" (05)	99-2548T	5/32" GP, SHORT
5/32" (05)	99-2550T	5/32" GP, LONG
5/32" (05)	99-2549S	5/32" NAS, STANDARD
5/32" (05)	99-2548S	5/32" NAS, SHORT
5/32" (05)	99-2550S	5/32" NAS, LONG
3/16" (06)	99-2555	3/16" GP, STANDARD
3/16" (06)	99-2554	3/16" GP, SHORT
3/16" (06)	99-2556	3/16" GP, LONG
1/4" (08)*	99-2561	1/4" GP, STANDARD
1/4" (08)*	99-2560	1/4" GP, SHORT
1/4" (08)*	99-2562	1/4" GP, LONG

Huck SMLS (NAS1919/1921S)

1/8" (04)	99-2725	1/8" SMLS, STANDARD
1/8" (04)	99-2724	1/8" SMLS, SHORT
1/8" (04)	99-2726	1/8" SMLS, LONG
5/32" (05)	99-2731	5/32" SMLS, STANDARD
5/32" (05)	99-2730	5/32" SMLS, SHORT
5/32" (05)	99-2732	5/32" SMLS, LONG
3/16" (06)	99-2737	3/16" SMLS, STANDARD
3/16" (06)	99-2736	3/16" SMLS, SHORT
3/16" (06)	99-2738	3/16" SMLS, LONG

BLIND BOLTS (MS90353/54S/U & MS21140/41S/U)

5/32" (05)	99-2701	5/32" BLIND BOLT, STANDARD
5/32" (05)	99-2700	5/32" BLIND BOLT, SHORT
5/32" (05)	99-2702	5/32" BLIND BOLT, LONG
3/16" (06)	99-2707	3/16" BLIND BOLT, STANDARD
3/16" (06)	99-2706	3/16" BLIND BOLT, SHORT
3/16" (06)	99-2708	3/16" BLIND BOLT, LONG
1/4" (08)	99-2713	1/4" BLIND BOLT, STANDARD
1/4" (08)	99-2712	1/4" BLIND BOLT, SHORT
1/4" (08)	99-2714	1/4" BLIND BOLT, LONG

* Note: requires the F1458-SE Side-Ejection Adapter



PT-4500H



PT-4500H with Side-Ejection Adapter



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Website: www.fsirivet.com

GSA Contract No. GS-06F-0009L

CAGE Code: 64878

PT-4500H-ASP Kit

ASP® Fastener Installation Kit

POWERFUL

VERSATILE

DURABLE

HIGH PRODUCTION



ASP® Double Flush Fastener



ASP® Torque Driver

The PT-4500H battery operated cordless riveter is designed for high speed and reliable installation of the most popular aerospace fasteners thru 1/4" diameter. This dedicated ASP® Riveter kit includes the -06, -08, and -10 in line nose assemblies, -06, -08, and -10 torque drivers, two 18 VDC Li-Ion batteries with fuel gage, a 110V/220V battery charger and carrying case. The tool includes the adapter that enables the user to quickly change nose assemblies to permit use of other common HUCK style nose assemblies to install blind rivets and lockbolts. Using the F4187-AR-4500 rotating adapter, the Huck 3700 series & new 99LGP & 99GP offset nose assemblies are also easily attached to the PT-4500H. Ideally suited for limited production, MRO, and mobility kit use, the PT-4500H features a mandrel collection canister and a built-in LED lighting system for illumination in darkened work areas.

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ASP® Dedicated Tools Available Sizes

Part No	Size
1. PT-4500H-6ASP	* -06 ASP®
2. PT-4500H-8ASP	* -08 ASP®
3. PT-4500H-10ASP	* -10 ASP®

FSRRK-568

NSN: 5130-01-670-1489

Blind Rivet & Blind Bolt Rivet Removal Kit

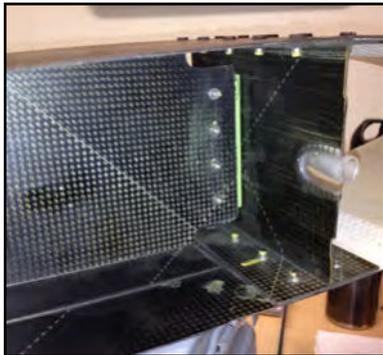
- KIT SOLUTION**
- MOBILE**
- REMOVAL**
- PREPARATION**



Introducing the FSRRK-568 Blind Bolt, Hi-Lok and Blind Rivet Removal Kit. Developed for Unit Level maintenance for the repair of the Blackhawk and Apache Stabilators. This kit includes all the items required to remove 5/32", 3/16" and 1/4" diameter blind dome head and button head rivets. The kit is complete with micro-stop cages, specially developed head marking punches, special micro-stop anti-rotation feet and a variable speed air operated drill. The kit contains special threaded cobalt drills for removal and hole preparation. This kit is a perfect addition to the K-3000-MIL-1 Composite Material repair kit or the K-1000 Sheet Metal Mechanics Tool kit. Pat.Pending©

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Blackhawk Stabilator



Contract:

FSRRK-568 Operating Instructions

Step 1: Assemble the punch and punch foot (per required diameter). Center the punch assembly over the head of the fastener that is to be removed. With a hammer, create anti-rotational indentations on the head of the fastener with a single sharp blow.

Step 2: Install the correct pilot drill bit and foot on the micro-stop cage. *See drill bit chart.* Set the depth so the countersink foot engages the anti-rotation indentations created with step 1. Using the drill provided in the kit remove the lock ring portion of the fastener.

Step 3: Install the correct finish drill bit into the micro-stop cage and set the depth to remove only the head of the fastener. *See drill bit chart.* Drill until only the head of the fastener is removed. (*See warning*)

Step 4: With a punch knock-out the remaining portion of the fastener.

Warning: *Drill 700 rpm only. Higher speeds may cause damage to the composite material.*



Step # 1



Step # 2



Step # 3



Step # 4

Drill Bit Chart

Fasteners	Punch Foot	Countersink Foot	Pilot Drill	Finish Drill
5/32" Blind Bolt (MS90354/MS21141S&U)	FRP-5/32	CSF-5/32	ALTD-30-X	ALTD-21-X
3/16" Blind Bolt (MS90354/MS21141S&U)	FRP-3/16	CSF-3/16	ALTD-13/64-X	ALTD-11-X
1/4" Blind Bolt (MS90354/MS21141S&U)	FRP-1/4	CSF-1/4	ALTD-17/64-X	ALTD-F-X
5/32" Blind Rivet (NAS1919S) Monel & Cres	FRP-5/32	CSF-5/32	ALTD-5/32-X	ALTD-20-X
3/16" Blind Rivet (NAS1919S) Monel & Cres	FRP-3/16	CSF-3/16	ALTD-3/16-X	ALTD-10-X
1/4" Blind Rivet (NAS1919S) Monel & Cres	FRP-1/4	CSF-1/4	ALTD-17/64-X	ALTD-F-X

Combination Blind Rivet, Blind Bolt and Blind Nut Installation Tool Kit

POWERFUL

PORTABLE

VERSATILE

USER FRIENDLY

**Aerospace & Military
Line Maintenance**

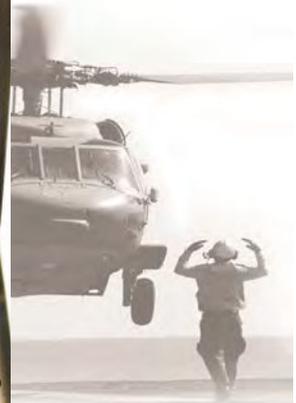
**Industrial Sheet Metal
Applications**

Battle Damage Repair

**Ideal for Expanded Unit
Level Maintenance**

Fly Away Kits

**Installs All CherryMax®
thru 1/4" & Single Action
Blind Bolts thru 3/16"**



IDEAL FOR FIELD MAINTENANCE, MODIFICATION AND BDR APPLICATIONS, THE D-9000-MIL-2 provides hand mechanical, hand hydraulic, air-hydraulic, and cordless blind riveters all in one convenient carrying case. Weighing less than 30 lbs, the kit includes a wide variety of nosepieces which permit installation of most all single action aerospace blind rivets thru 3/16" O.S. diameter including 1/4" diameter CherryMax as well as industrial blind rivets thru 1/4" diameter. Pull-up Studs and Driving Anvils for UNC, UNF, and Metric threads are also included to permit installation of blind rivet nuts and inserts from 6-32 thru 3/8-16 and 5MM thru 10MM. The kit also includes special right angle, offset, and extended straight pulling heads for all CherryMax®, Huck Clinch®, and Allmax® blind rivets (M7885/NAS9300) in sizes thru 3/16" over-size, as well as an adapter for use with the MS20600 series self-plugging and NAS1400A rivet side ejection straight, offset, and right angle pulling heads (not included in this kit) for sizes 3/32" thru 3/16" diameter.

D-9000-MIL-2 Kit Major Components

AIR HYDRAULIC



PT-100M Riveter
Pull Force: 4,000 lbs
Stroke: .625"

MANUAL



D-28 Riveter
Hand Mechanical

CORDLESS



PT-4000 Riveter
Pull Force: 4,496 lbs.
Stroke: .787"

HAND HYDRAULIC



D-700C Riveter-Nutsetter
Pull Force: 5,000 lbs.
Stroke: .800"

Metric Pull-Up Studs

Extended Straight Pulling Head
CherryMax® 1/8-3/16" Dia.
F1074 (NSN 5120-01-430-5386)

Right Angle Pulling Head
CherryMax® 1/8-3/16" Dia.
F1075 (NSN 5120-01-430-5346)

Offset Pulling Head
CherryMax® 1/8-3/16" Dia.
F1076 (NSN 5120-01-430-5328)

12-Volt Battery Charger
F-4000A (NSN 5130-01-398-4700)

Grip Gauge
F269C3 (found next to instruction booklet)

Stroke Gauge
F101

Pull-Up Studs

Pulling Head Adapters
for CherryMax® and
Olympic Heads

Nosepiece Bar

Blind Bolt Accessories
and Spare Parts

12-Volt DC Battery Packs
F-3001A (NSN 5130-01-398-4699)



Blind Insert & Rivnut® Capabilities

The D-9000-MIL-2 Kit contains the pull-up studs and driving anvils used in conjunction with the hand hydraulic D-700C combination riveter/nutsetter, which allows installation of blind nuts (NAS1329/30 & MS27130/31) and AVK, TSN® and Nutsert® style inserts. The D-700C provides 5,000 lbf of pulling force and because of its unique two-stage valve system, wrist effort is reduced as the pull force increases. The D-700C VariMax® feature also allows the pull force to be adjusted when installing Rivnuts®. This minimizes the chance of thread failure from excessive pull force or improper installation due to inadequate upset loads.

A blind nut stroke gauge and blind rivet grip gauge are also included to help insure proper fastener selection and installation. The kit is housed in a weather tight metal box and comes with a built in fastener and tooling selection chart permanently affixed to the inside lid. Operating instructions are provided in both a written manual and CD-ROM format to help insure proper care and use. This kit has been approved for use in the U.S. Army's Standard Automotive Tool Set ("SATS") and is currently being used by all U.S. Military service branches.

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FSI

**FASTENING SYSTEMS
INTERNATIONAL**

D-700C (NSN 5120-01-397-6806)

Hand Hydraulic Riveter

POWERFUL

VERSATILE

RELIABLE

COMPACT



**Installs All CherryMax®
thru 1/4" and Single
Action Blind Bolts thru
3/16" Diameter**

**Rivnuts® and Threaded
Inserts**

**5,000 lbs of Pulling
Force and More Than
3/4" Stroke**

Field Repairable

Evolving from the highly successful D-100 Blind Riveter the D-700C addresses user needs for an even more versatile, powerful, reliable, and field repairable tooling system. A two stage valve permits a greatly reduced wrist effort for installation of a wide variety of straight pull blind fasteners including all CherryMax® style (NAS9300/M7885) blind rivets, Cherry Blind Bolts MS90353/54 S/U type (thru 3/16" dia.), Rivnuts® thru 5/16" and thin wall blind inserts thru 3/8". The D-700C riveter is provided with the Vari-Max™ adjustable pressure control (F-700-VM) to permit precise setting of pulling when installing blind fasteners requiring critical upset loads.



* Patent # US8,307,690B2

D-700C Specifications:

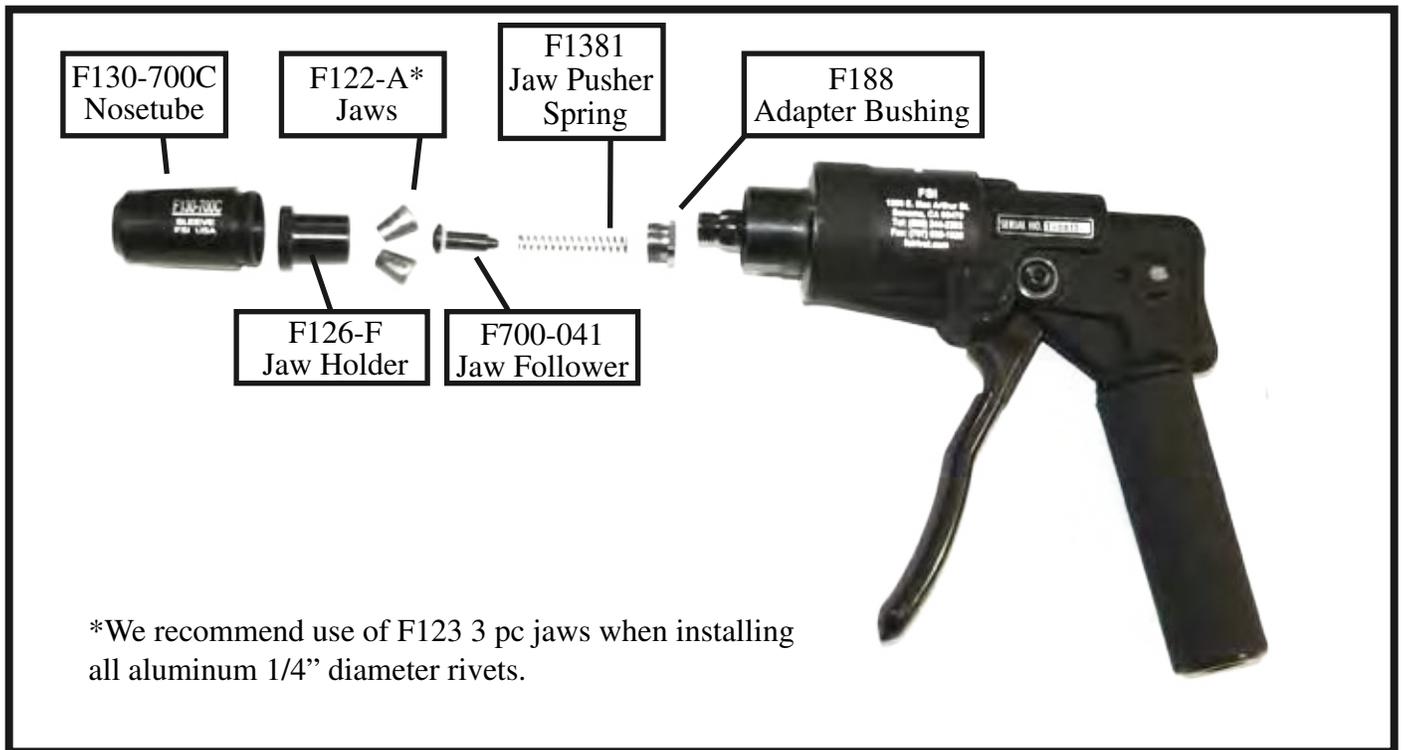
Stroke:	0.8" (20.3mm)	Overall Length:	7.5" (190.5mm)
Pulling Force:	5,000 lbs.	Special Feature:	Vari-Max™ pull Force Adjustable
Overall Height:	6.56" (166.6 mm)		
Overall Width:	2.00" (50.8 mm)	Retract Action	Single Pushbutton
Weight:	1.95 lbs. (884.5 g)	Wrist Effort for 3000 lb Fastener	30 lbs.

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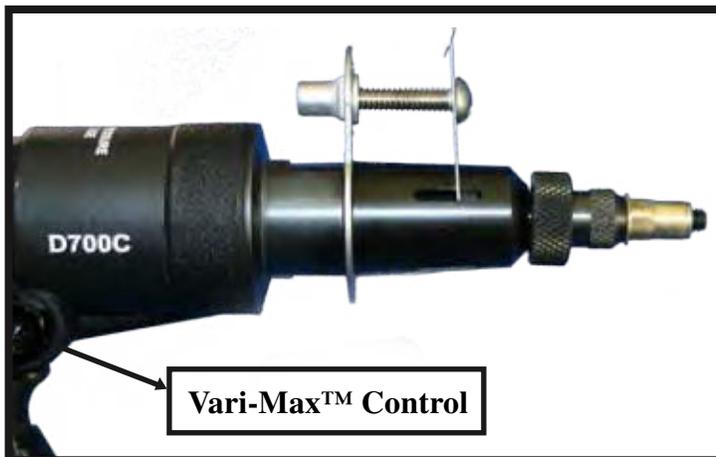


Rivnut is a registered trade mark of Bollhuff.

D-700C Hand Hydraulic Riveter Components



D-700C with Vari-Max™ Control (D-700-VM)



The D-700-VM Vari-Max™ feature enables the user to set a pull force when upsetting a blind rivet nut or insert to help insure a proper installation without damaging the threads of the blind nut insert or the threads on the pull-up stud. The normal operating range for the D-700-VM is 600 to 5,000 lbf. The Vari-Max™ is located on the tool on the side opposite the release button (right side of the tool facing forward).

The D-700C may be utilized to install a variety of blind fasteners. It can be used with any of the nosepieces and accessories supplied in all FSI Kits.



1206 E. MacArthur Street
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Fax: 707-935-1828 sales@fsirivet.com
www.fsirivet.com





D-700-MIL-2 (NSN 5180-01-430-5361)

Hand Hydraulic Blind Rivet & Blind Bolt Tool Kit

POWERFUL

VERSATILE

RELIABLE

COMPACT

Installs All CherryMax® thru 1/4" and Single Action Blind Bolts thru 3/16" Diameter

Rivnuts® and Threaded Inserts

5,000 lbs of Pulling Force and More Than 3/4" Stroke

Field Repairable

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Evolving from the highly successful D-100-MIL-2 blind rivet tool kit, the D-700-MIL-2 addresses user needs for an even more versatile, powerful, reliable and field repairable tooling system. This kit features the special CherryMax® Right Angle, Offset and Extended Straight Pulling Heads for all sizes thru 3/16" OS diameter. In addition the D-700C can be easily adapted to install wire draw rivets thru 3/16" diameter including CherryMax® "AB", Avdel MBC, Cherrylock® "A" Code and Avdel Interlock® blind rivets. The D-700C may be used with any of the nosepieces and accessories supplied in the D-100 Series Kits (ie D-100-MIL-1 & D-100-MIL-2). Made in the USA. * Pat. Pending

D-700C Specifications:

Stroke:	0.8" (20.3mm)	Overall Length:	7.5" (190.5mm)
Pulling Force:	5,000 lbs.	Special Feature:	Vari-Max™ pull Force Adjustable
Overall Height:	6.56" (166.6 mm)		
Overall Width:	2.00" (50.8 mm)	Retract Action	Single Pushbutton
Weight:	1.95 lbs. (884.5 g)	Wrist Effort for 3000 lb Fastener	30 lbs.

D-700-MIL-4 NSN: 5120-01-430-5325

HAND HYDRAULIC BLIND RIVET TOOL KIT FOR CHERRYMAX® INSTALLATION

POWERFUL

VERSATILE

COMPACT

LIGHTWEIGHT



Made in USA

THE D-700-MIL-4 BLIND RIVET TOOL KIT affords the aerospace/military technician the ability to install a wide variety of high break load blind fasteners with minimal wrist effort. Utilizing a patented, smart power valve system, the D-700C riveter contained in the kit permits installation of most all straight pull, single action blind rivets through 1/4" diameter. The Kit includes four threaded quick change rivet nosepieces for the D-700C riveter which has a unique two piece jaw system which allows the riveter to quickly be adapted to install 3/32" and 1/8" diameter pull thru nut plate rivets, as well as any CherryMax® (NAS9300), Huck Clinch®, Allmax® (M7885), SuperMax®, Cherry SST®, Huck Max® and most CherryMax® "AB" rivets.



Applications

Pulling Head	Rivet	Diameter
 F1782	CherryMax CherryMax "AB" CherryMax SST	-4, -5, -6 -4, -5, -6* -4, -5, -6
 F1075	CherryMax CherryMax "AB" CherryMax SST	-4, -5, -6 -4, -5, -6* -4, -5, -6

*Not Aluminum

Specifications For D-700C Riveter

Stroke:	0.8" (20.3 mm)	Overall Length:	7.5" (190.5 mm)
Pulling Force:	5,000 lbs.	Wrist Effort for	
Overall Height:	6.56" (166.6 mm)	3,000 lb. Fastener:	30 lbs.
Overall Width:	2.00" (50.8 mm)	Retract Actions:	Single Pushbutton
Weight:	1.95 lbs. (884.5 g)		



D-700-MIL-4 Kit Contents

QTY.	FSI Part #	Description National Stock #
1	D-700C	Hand Riveter 5120-01-397-6806
1	F1782	Offset Head
1	F1075	Right Angle Head 5120-01-430-5346
1	F187-1AR	Adapter Sleeve Rotating
1	F187-2A	Adapter Puller Shaft
1	F156	Nosepiece, 3/32"
1	F159	Nosepiece, 1/8"
1	F143	Nosepiece, 3/16" 5120-01-430-5344
1	F797	Carrying Case

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D-700-MIL-4 Components



D-700-MIL-4
NSN 5120-01-430-5325

Many additional capabilities are available for the D-700C riveter including accessories for installation of Hi-Shear® Blind Bolts, Huck SMLS (NAS1919/21S), Rivnuts®, Huck Blind Bolts (MS90353/54S&U), Cherry Maxi-bolt® & Maxi-bolt Plus® Blind Bolts, AVK Inserts, Davis Elliptical Nuts and Rivetless Nut Plates. Consult your local FSI representative or our website at www.fsirivet.com.



D-700C Optional Configurations

Blind Bolts**



Rivnut Configuration**



MS & NAS1400A Side Ejection Head**

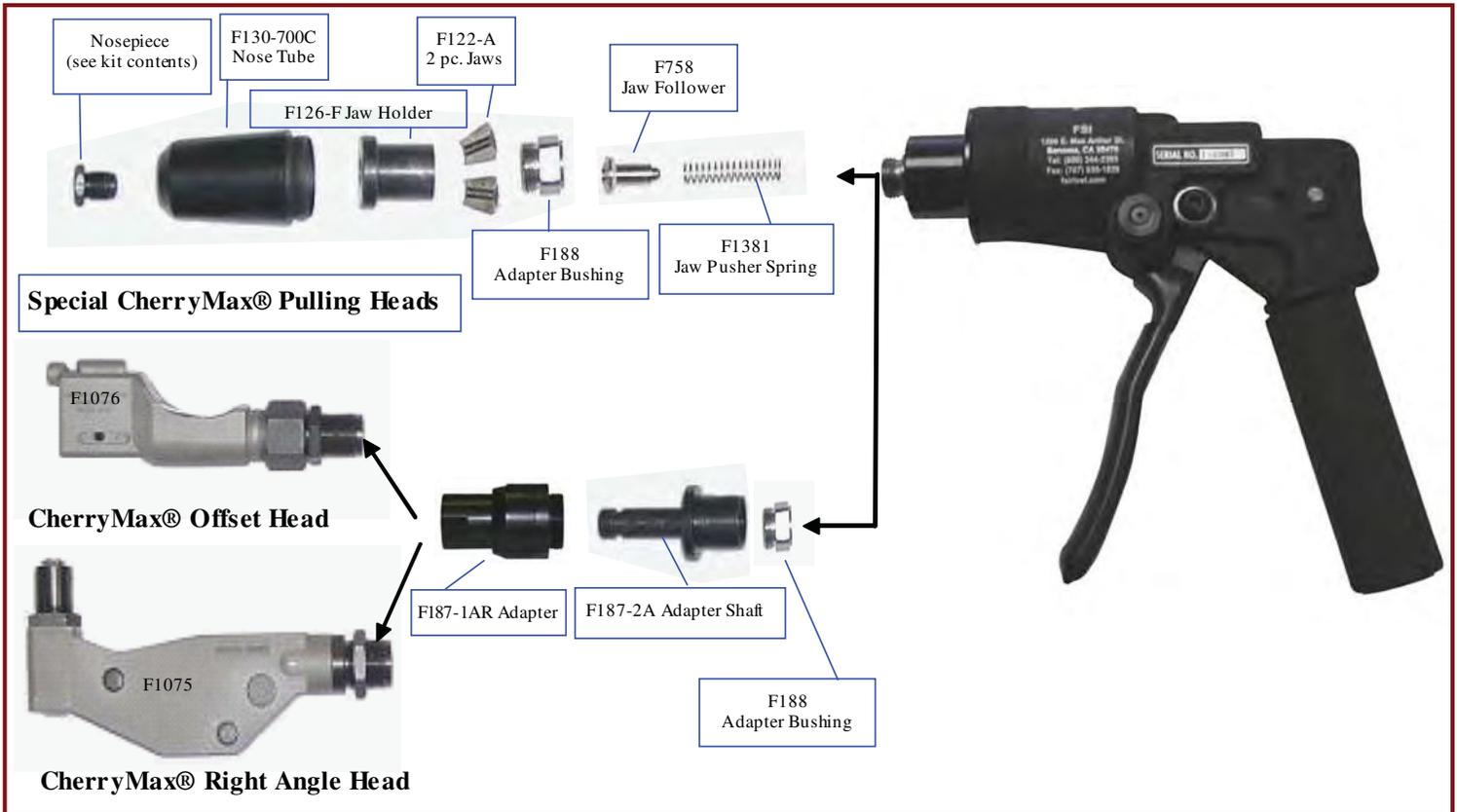


F1074 CherryMax Extended Straight Head**



**Optional Head; Not Included in D-700-Mil-4 Kit

D-700-MIL-4 Standard Configurations



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Hi-Shear is a registered trade mark for Lisi Aerospace, Cherry Maxi-bolt & Maxi-bolt Plus are registered trade marks of Cherry Aerospace, Rivnut is a registered trade mark of Bollhoff.



D-700-365HL Rivetless Nut Plate Installation Tool (MS14200)

POWERFUL

VERSATILE

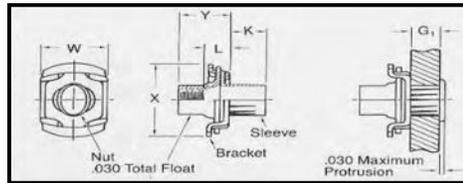
COMPACT

LIGHTWEIGHT



Patent Pending

Typical Rivetless Nutplate



Field Serviceable

Single-Action Installation Capability

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Utilizing FSI's performance proven D-700 Series Hand Hydraulic Tool with Vari-Max™ control, the D-700-365HL Rivetless Nut Plate Installation Tool provides the user a unique, single-action installation capability. The tool is easily adjustable for fastener sleeve length and material thickness. The D-700-365HL has a built-in pressure control valve to regulate the pull force to insure proper installation. Currently available in the most popular 10-32 thread size with the 100° flaring anvil, the tool was specified by Hill Air Force Base for use in the F-16 Falcon Star modification program. Field serviceable and weighing in at only 33 oz., the D-700-365HL minimizes wrist effort while providing a reliable and long ser-vic-e life. For ordering information consult you local FSI representative or visit our website at www.fsirivet.com.

Specifications For D-700 Riveter

Stroke:	0.8" (20.3 mm)	Weight:	1.95 lbs. (884.5 g)
Pulling Force:	5,000 lbs	Wrist Effort for	
Overall Height:	6.56" (166.6 mm)	3,000 lb Fastener:	30 lbs.
Overall Width:	2.00" (50.8 mm)	Retract Actuator:	Single Push Button
Overall Length:	7.5" (190.5 mm)		

D-700-365HL is a Systems Mark of Fastening Systems International, Inc.

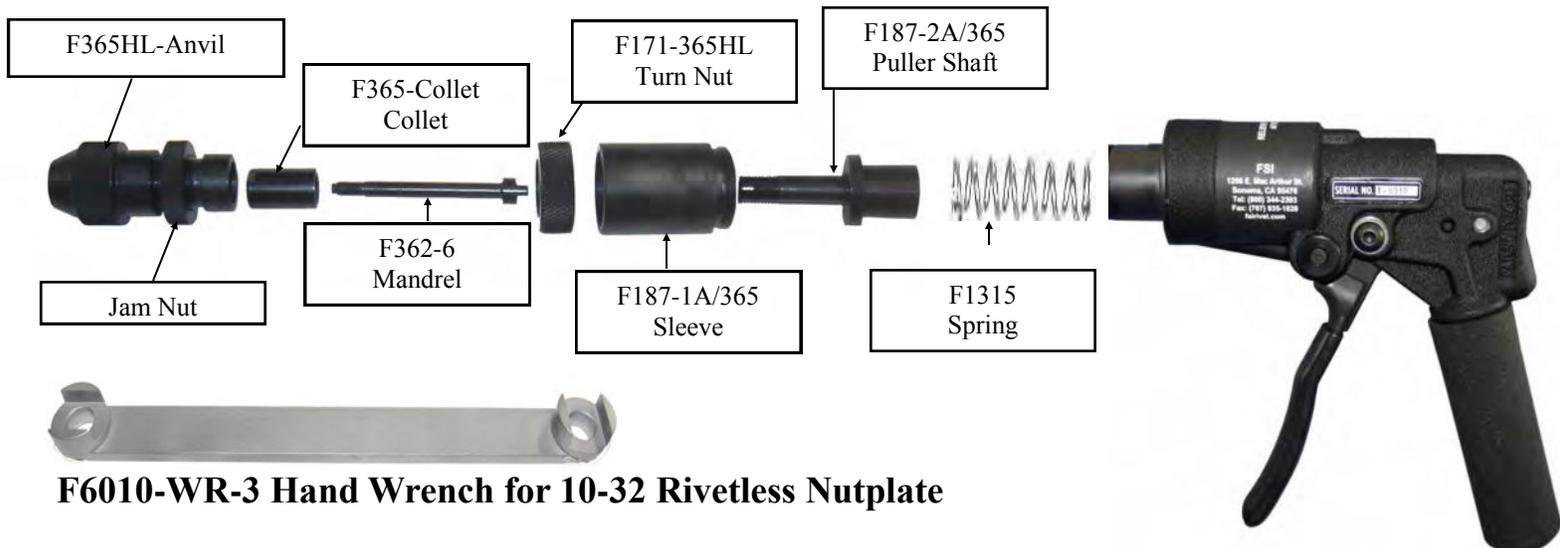
D-700-365HL Components

The purpose of the tool is to install a rivetless floating nut plate, which is a common aerospace fastener of 3-piece construction. The nut is made of 1050 carbon steel (A-286) and the sleeve is made of 300 Series CRES steel cadmium plated or passivated. The bracket, or basket is made of carbon steel (17-7Ph CRES steel or A-286 CRES steel) heat treated to spring temper and cadmium plated or passivated. The tool will install the fastener by producing sufficient pull force to fully seat the anti-rotational lobes (located on the sleeve) into the work piece, while at the same time, flaring the stainless steel sleeve to fully captivate the fastener. This installation meets or exceeds push-out, torque-out and tensile requirements of MIL-N-25027 specification covering nut performance.



D-700-365HL Rivetless Nutplate Tool Kit

F365HL Assembly



F6010-WR-3 Hand Wrench for 10-32 Rivetless Nutplate

D-700A/HS Kit Installation Tool For Hi-Shear® Blind Bolts & Nuts

POWERFUL

VERSATILE

LIGHTWEIGHT

FIELD SERVICEABLE



D-700A/HS STANDARD FEATURES

5000 lbs Capacity

Compact Size

Adjustable Pull Force

0.800" Stroke

Kit Includes: 8-32, 10-32 & 1/4-28 Thread sizes



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The D-700A/HS HAND HYDRUALIC RIVETER, utilizing FSI's newest D-700C configuration with Vari-Max™, provides the user a compact and light weight means of installing Hi-Shear® Blind Bolts (BN351/352 type) and Blind Nuts (BN360 Series) up to 1/4-28 UNF thread size. The tool is easily adjustable for fastener sleeve length and material thickness. The D-700A/HS has a built-in pressure control valve to regulate the pull force to insure proper installation without damaging threads. Accepting the standard Hi Shear® Blind Bolt Anvils, Chucks and Mandrels (pull-up studs), the D-700A/HS provides over 5000 lbs pull force over .800" stroke. Each riveter comes with an adjustable pressure setting screw covering 600 to 5000 lbs of pull force. The D-700A/HS weighs less than 3.0 lbs. (excluding Hi-Shear® Nose Assembly), and is no larger than most compact, pistol grip style drill motors. Field Serviceable, coupled with rugged cast aluminum construction and true versatility the D-700A/HS offers the sheet metal technician the latest in blind fastener installation capability. The D-700A/HS can also be easily adapted to install a wide variety of aerospace and industrial blind rivets. Consult an FSI representative or the factory for details.



D-700A/HS Specifications

Stroke:	0.8" (20.3mm)	Weight:	2.65 lbs.
Pulling Force:	5000 lbs.	Wrist Effort for	
Overall Height:	6.56" (166.6 mm)	3,000 lb. Fastener	30 lbs.
Overall Width:	2.00" (50.8 mm)	Retract Actuator:	Single Push Button
Length:	11.2" w/ assy.	Special Feature:	Vari-Max®

Typical Fasteners Installable with the D-700A/HS include but are not limited to: Rivnuts®, AVK Inserts, Shur-lok® Blind Nuts, Davis Elliptical Nuts, Avdel TSN and Nutsets.



FSI
FASTENING SYSTEMS
INTERNATIONAL

PT-100 (NSN 5130-01-397-6805)

Air Hydraulic Riveter

POWERFUL

VERSATILE

PRODUCTIVE

LIGHTWEIGHT



Evolving out of the successful **D-100 Series Hand Hydraulic version**, the **air operated PT-100 Series Blind Riveter** continues the tradition of offering a unique blend of power, versatility, and compact size. Almost all straight pull style blind rivets with required installation loads of 4,000 lbs or less can be installed with the PT-100 Series Riveter. Although frequently used to install **CherryMax®** and **Huck-Clinch®** Blind Rivets (NAS9300/M7885), a wide variety of adapters, nosepieces, special pulling head and the new **FX-2000 Series Flexible Extensions** are available to insure maximum versatility for any single action blind rivet requirement. **Cherrylock "A"®/ Olympic-Lok®** (NAS 1400A), **Huck SMLS** (NAS 1900 S), **Cherry Monobolt®/Huck Magnalok®** (IFI-134/M7885/10) and standard **Pop®** Style Rivets (MIL-R-24243) are all installable with the PT-100 Series Riveter.

The PT-100 Series Riveter utilizes a patented, air motor driven, multiple valve cylindrical hydraulic pump assembly. Unlike most blind riveters, the PT-100 Series Riveter permits stroke control. Upon trigger actuation, the tool's nose assembly moves forward as long as the trigger is depressed or until maximum stroke is reached. The jaw assembly, which holds the rivet stem, remains stationary. Trigger movement allows the user to monitor and control the stroke length of the tool as required. A releasing trigger is provided to eject the stem from the nose assembly after the rivet is installed. A built in hydraulic pressure relief system helps insure tool safety and longevity.



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PT-100 Specifications:

Pulling Force:	4,000 lbs (17.793 Kn)
Stroke Max:	0.625" (16 mm)
Weight	30 oz. (850 grams)
Dimensions:	6"H x 6.75"L x 2.025"W (154mm x 173mm x 52mm)
Power Source:	Air Operated (90 to 120 psig) (620 to 825 KPa) Multiple valve, Cylindrical Hydraulic Pump Assembly with Built in Pressure Relief System



PT-100 Series Riveter Optional Adapter Configurations



PT-100 APPLICATIONS:

► ABDR / AIRFRAME

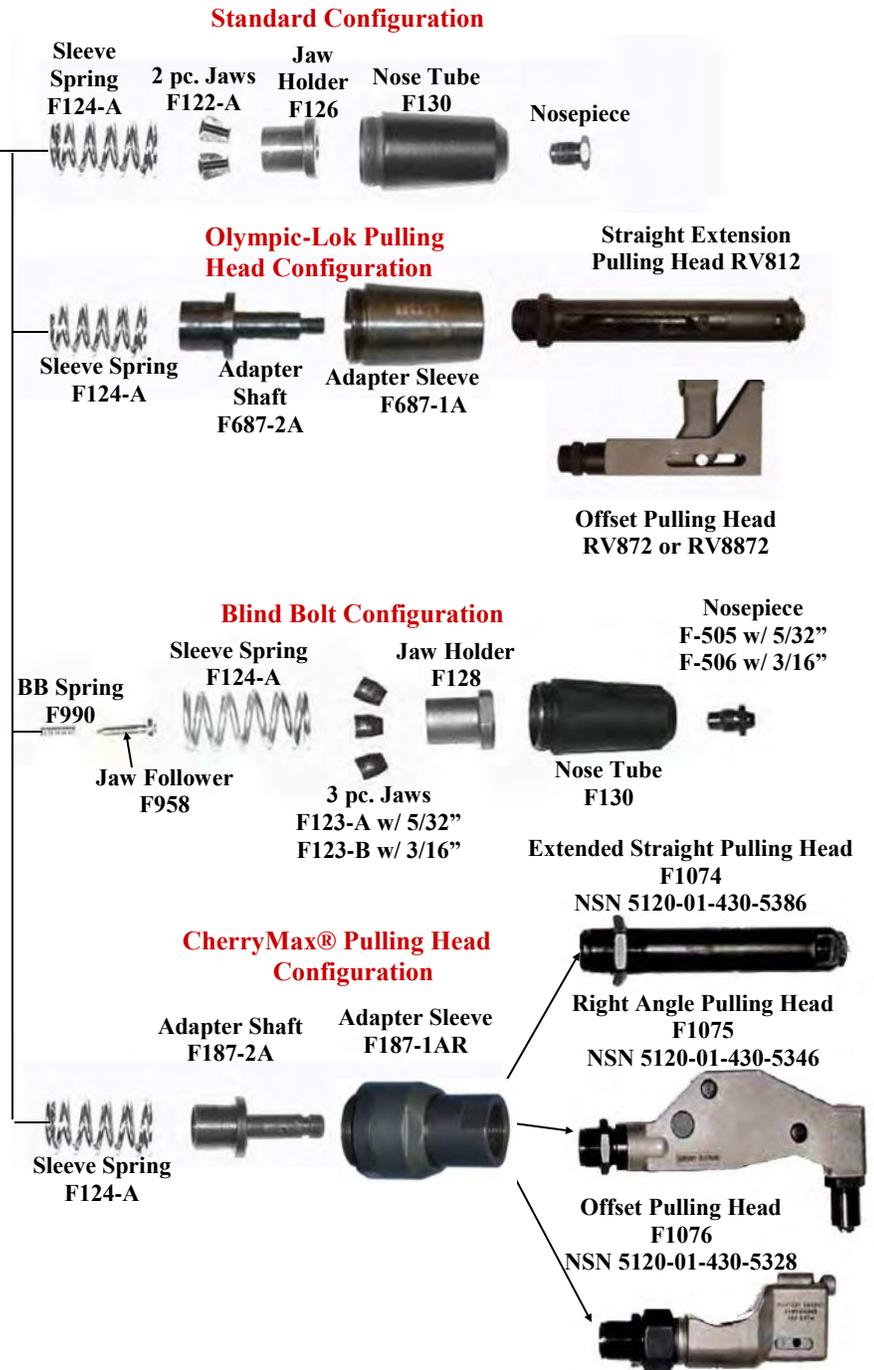
Designed originally for the USAF ABDR Program, the PT-100 riveter permits the installation of CherryMax® and Huck style blind rivets thru 1/4" diameter.

► GROUND VEHICLES

The PT-100 riveter is easily adapted to install Pop Type rivets, Monobolts®, Magnalok®, Avex®, Cherry Q and Olympic® Bulb-tite rivets thru 1/4" diameter. These fasteners are used in ground vehicles, including HMMWV, CUCV, Oshkosh trucks, mobility vans, postal service trucks, overseas shipping containers and portable electronic shelters.

► MARINE APPLICATIONS

Due to its compact size and light weight, the PT-100 has become the riveter of choice for all shipboard blind rivet applications. Positive stroke control permitting the technician to "walk" a rivet into a limited blind side clearance area coupled with the ability to retain the rivet stem until the installer chooses to release it, makes the PT-100 an outstanding asset in any sheet metal mechanics tool inventory.



PT-100 Specifications

Pulling Capacity: 4000 lbs.

Power Source: Air Operated (90 to 120 psig)
Multiple Valve, Cylindrical
Hydraulic Pump Assembly
with built in pressure relief
system

Stroke: 0.625"

Weight: 30 oz.

Dimensions: 6" H x 6.75" L x 2.025" W

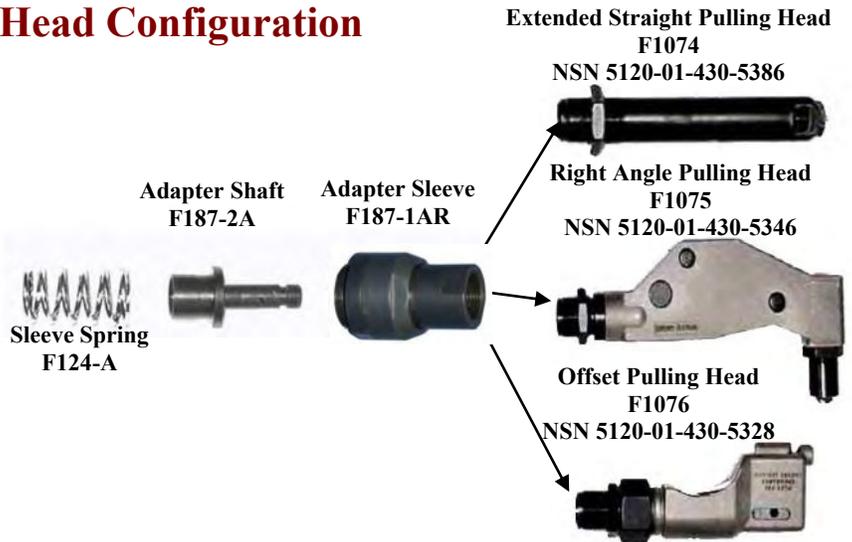
The PT-100 series riveter utilizes a patented, air motor driven, multiple valve, cylinder hydraulic pump assembly.

Unlike most blind riveters, the PT-100 series riveter permits stroke control. Upon trigger actuation, the tool's nose assembly moves forward as long as the trigger is depressed or until maximum stroke is reached. The jaw assembly, which holds the rivet stem, remains stationary. Trigger movement allows the user to monitor and control the stroke length of the tool as required. A releasing trigger is provided to eject the stem from the nose assembly after the rivet installation. This feature enables positive stem retention, which insures tool safety and aids in FOD prevention. Made in the USA.

CherryMax® Pulling Head Configuration



U.S. Patented Protected. PT-100 is a Systems Mark of Fastening Systems International, Inc.





PT-100-WR/T (NSN 5180-01-557-4034)

For NAS1400A & M7885/NAS9300 Style Blind Rivets



**SIDE EJECTION
PULLING HEADS**



POWERFUL

VERSATILE

COMPACT

LIGHTWEIGHT

Reacting to the need for a versatile tool kit for aerospace and military aircraft maintenance and repair applications involving both wire draw style NAS1400A (Olympic-lok® and Cherrylock “A”®) and bulbed, compressed column style M7885/NAS9300 (CherryMax®, HuckMax®, Allmax®) blind rivets, FSI is pleased to offer the PT-100-WR/T Blind Rivet Tool Kit.

Utilizing FSI’s popular 4,000 lb pull force PT-100 air hydraulic riveter, the kit contains nosepieces and pulling heads to enable installation of all M7885/NAS9300 style rivets thru 1/4” diameter and all NAS1400A style rivets thru 3/16” diameter. In addition the kit includes the adapter and the NAS1400A code blind rivet side ejection nose assemblies to enable access into restricted space areas while also affording the technician the ability to re-grip the rivets which may have longer stroke installation requirements. In addition to the two (2) piece jaw set furnished with the riveter, there is also a three (3) piece jaw set included in the spare parts canister. The three piece jaw set is normally used on all aluminum, serrated stemmed rivets for sizes 1/8” thru 3/16” diameter, however; they may be used on most all single action rivet types thru 3/16” diameter. Contact your local FSI representative or email our factory at sales@fsirivet.com for your specific needs. Made in the USA.

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PT-100 Specifications:

Pulling Force:	4,000 lbs (17.793 Kn)
Stroke Max:	.625” (16 mm)
Weight	30 oz. (850 grams)
Dimensions:	6”H x 6.75”L x 2.025”W (154mm x 173mm x 52mm)
Power Source:	Air Operated (90 to 120 psig) (620 to 825 KPa) Multiple valve, Cylindrical Hydraulic Pump Assembly with Built in Pressure Relief System



PT-100 Series Riveter Optional Adapter Configurations



PT-100 APPLICATIONS:

▶ ABDR / AIRFRAME

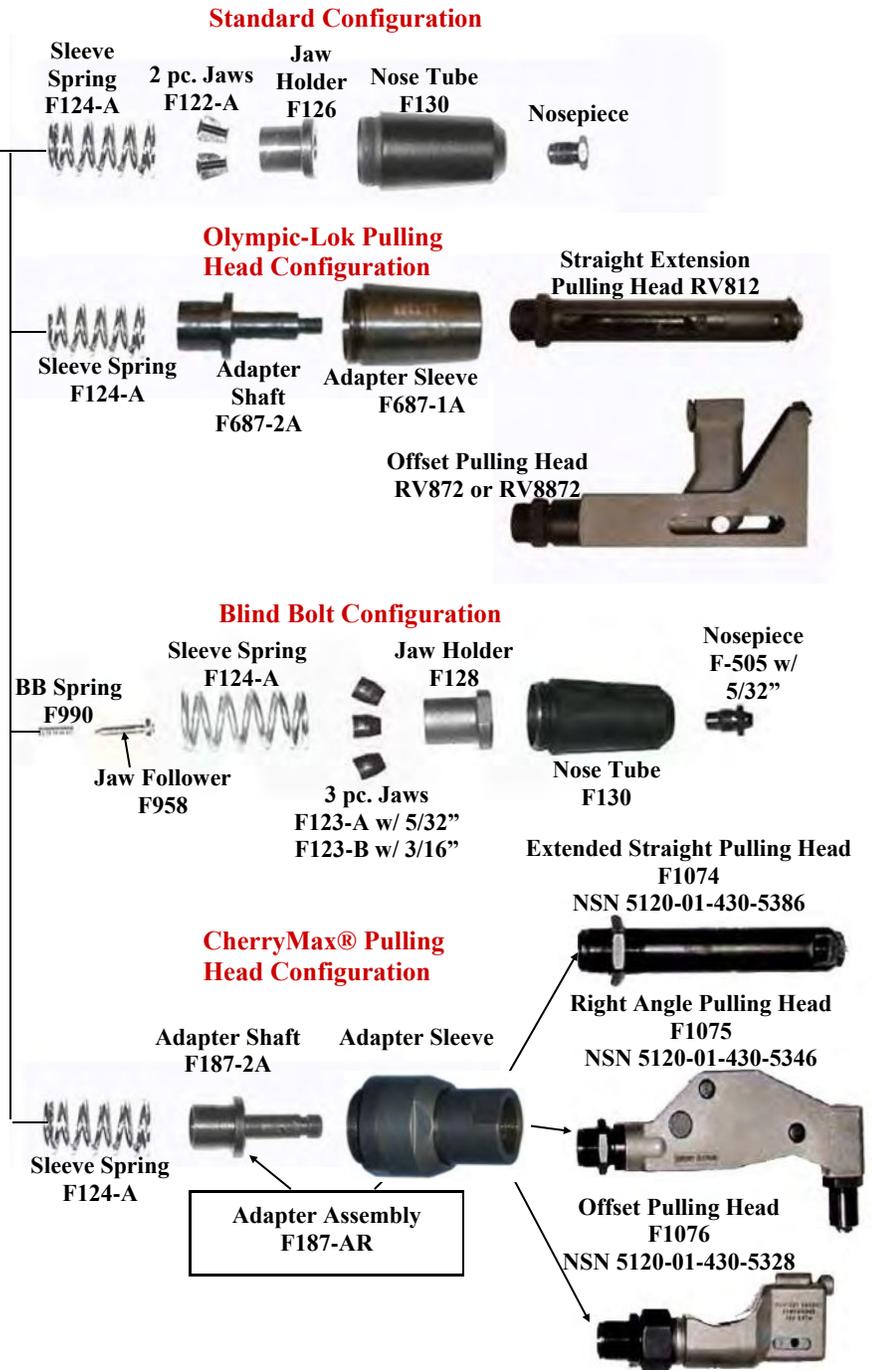
Designed originally for the USAF ABDR Program, the PT-100 riveter permits the installation of all CherryMax®/Huck-Clinch® style rivets thru 1/4" diameter.

▶ GROUND VEHICLES

The PT-100 riveter is easily adapted to install Pop Type rivets, Monobolts®, Magnalok®, Avex®, Cherry Q and Olympic® Bulbtite rivets thru 1/4" diameter. These fasteners are used in ground vehicles, including HMMWV, CUCV, Oshkosh trucks, mobility vans, postal service trucks, overseas shipping containers and portable electronic shelters.

▶ MARINE APPLICATIONS

Due to its compact size and light weight, the PT-100 has become the riveter of choice for all shipboard blind rivet applications. Positive stroke control permitting the technician to "walk" a rivet into a limited blind side clearance area coupled with the ability to retain the rivet stem until the installer chooses to release it, makes the PT-100 an outstanding asset in any sheet metal mechanics tool inventory.



Cordless Blind Riveter

POWERFUL

VERSATILE

LIGHTWEIGHT

PRODUCTIVE

**Fast & Efficient....
Rivals air powered
Performance**

**Built In Overload
Protection**

Ergonomically Balanced



The New, Higher Capacity PT-4000 Cordless Blind Riveter offers the sheet metal technician capability for installation of most all 1/4" diameter blind rivets while retaining all the features of the PT-3000 with respect to size, weight and versatility. Falling within the USAF TO-1-1-688, the PT-4000 develops in excess of 4,400 lbs pulling force over a stroke of more than 3/4 inch. Utilizing the same battery packs and charger as the PT-3000 riveter, the PT-4000 is a logical addition for any organization normally requiring 1/4" diameter blind riveting capability. This kit also provide capability to install both 5/32" and 3/16" diameter Blind Bolts (MS90353/54 & MS21140/41 in S&U versions) rivets. It also contains FSI patented rotating adapters for use with the right angle, offset, and extended straight CherryMax* pulling heads

PT-4000 Specifications

Pulling Force:	4,496 lbs. (20 Kn)
Stroke:	.787"
Dimensions:	11-7/8" H x 10-3/8" L x 2-5/8" W
Power Source:	3.2 Ah, 12vdc Nickel-Metal (NiMH) Hydride Battery
Charger Source:	120 volt, 60 Hz or 220 volt, 50 Hz
Charger Cycle Time:	40 Minutes
Operating Temp. Range (ambient):	32 to 120°F
Housing Material:	Impact Resistant Glass Filled Nylon

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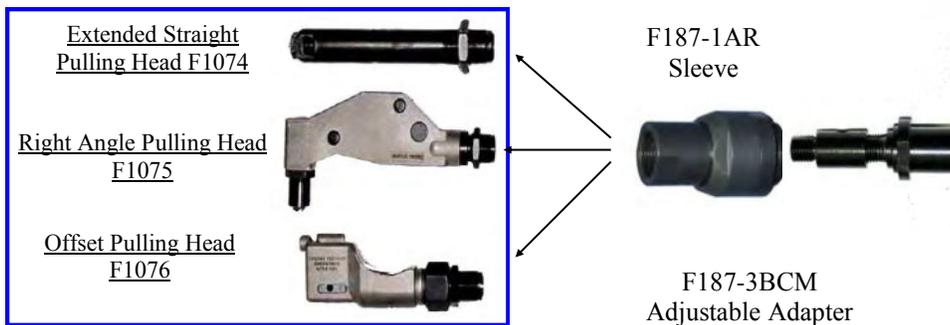


PT-4000-MIL-1 Configurations

Standard Configuration



CherryMax® Pulling Head (optional) Configuration



PT-4000 Features:

- ▶ **Powerful:** Installs Virtually all Straight Pull Blind Rivets including **CherryMax®** (NAS9300/M7885) thru 1/4" diameter and Blind Bolts thru 3/16" diameter.
- ▶ **Ergonomically Balanced:** Helps minimize **RTD's** (repetitive trauma disorders) associated with most Hand Pump or Squeeze Type Riveters typically used in remote locations where power is not readily available
- ▶ **Over 3/4" Stroke:** Permits installation of most Blind Rivets in one cycle
- ▶ **Operating Temperature Protection:** Riveter automatically shuts down if overheated
- ▶ **Quick Charge Battery Pack:** 40 Minute recharge
- ▶ **Positive Stroke Control:** Operator can re-grip rivet as many times as necessary for proper installation
- ▶ **Built In Overload Protection:** Riveter automatically shuts down if used improperly
- ▶ **No Stem Jamming:** If battery discharges while riveting, riveter will always retain sufficient power to return to its full forward position

Rivet Types:

Types of rivets installable with the PT-4000 include, but are not limited to, virtually all CherryMax® (NAS9300/M7885), Pop/Avdel® Monobolts®, Pop/Avdel Interlock®, Huck MagnaLok®, and Pop type rivets. The PT-4000 is also capable of installing both 5/32" and 3/16" diameter Blind Bolts (MS90353/54 & MS21140/41 in S/U versions) with the proper nosepieces (provided in the Mil-1 and MIL-2 kits).



CherryMax® is a registered trade mark of Cherry Aerospace, Monobolt® & Interlock® are registered trade marks of Stanley Engineered Fasteners, Magna-Lok® is a registered trade mark of Arconic Fastening Systems.



PT-4000H Cordless Blind Rivet, Blind Bolt & Lockbolt Installation Tool

POWERFUL

VERSATILE

LIGHTWEIGHT

POSITIVE FOD CONTROL



REACTING TO THE NEED FOR A VERSATILE, CORDLESS RIVETER AND LOCKBOLT INSTALLATION TOOL that uses conventional aerospace pulling heads, FSI is pleased to offer the PT-4000H. Eliminating trip hazards from air hose while providing positive FOD control, the 12 VDC Battery operated PT-4000H affords the sheet metal technician true portability.

Providing pull forces capable of installing virtually all straight pull blind fasteners thru 1/4" diameter and lockbolts thru 3/16" diameter, the PT-4000H can also be quickly adapted to offset and extended straight pulling heads for a variety of fasteners. Utilizing many of the pulling heads or nose assemblies already in commercial aerospace and military tool sets (see back page), the PT-4000H can be purchased with or without nose assemblies to offer back up capability for hand or air operated tool systems.

PT-4000H Specifications

Stroke:	0.787"	Weight:	4.96 lbs.
Pulling Force:	up to 4496 lbs.	Power Source:	12 VDC 3.2 Ah, (NiMH)
Overall Height:	11 7/8" w/ battery	Charge Time:	40 minute
Overall Width:	2-5/8"	Average Battery	
Length:	6-13/16" w/o canister	Cycle Life:	approx. 1,000 charges

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- **Typical Fasteners Installable with the PT-4000H include but are not limited to:**
- Huck Blind Rivets (NAS 1919/1921 S or U) 1/8" thru 1/4"
- CherryMax ® & Huck-Clinch® (NAS 9300/M7885) 1/8" thru 1/4"
- Cherry "A" Code/Olympic Lok® (NAS 1400A) 3/32" thru 3/16"
- CherryMax AB® (NAS 1398AB/1399AB) 1/8" thru 1/4"
- Cherry & Huck Blind Bolts (MS90353/90354 S or U) 1/8" thru 1/4"
- Cherry & Huck Lockbolts (NAS) 5/32" & 3/16"
- Huck ASP® Fasteners



Standard Nose Assemblies Available for the PT-4000H Cordless Riveter

ASP FASTENERS

SIZE	PART NO.	DESCRIPTION
13/64" (06)	99-2642	3/16" ASP, STANDARD
13/64" (06)	99-2643	3/16" ASP, LONG
17/64" (08)	99-2645	1/4" ASP, STANDARD
17/64" (08)	99-2646	1/4" ASP, LONG
21/64" (10)	99-2648	5/16" ASP, STANDARD
21/64" (10)	99-2649	5/16" ASP, LONG

LGP LOCKBOLT

5/32" (05)	99-2501	5/32" LGP, STANDARD
5/32" (05)	99-2500	5/32" LGP, SHORT
5/32" (05)	99-2502	5/32" LGP, LONG
3/16" (06)	99-2507	3/16" LGP, STANDARD
3/16" (06)	99-2506	3/16" LGP, SHORT
3/16" (06)	99-2508	3/16" LGP, LONG

GP LOCKBOLT

5/32" (05)	99-2549T	5/32" GP, STANDARD
5/32" (05)	99-2548T	5/32" GP, SHORT
5/32" (05)	99-2550T	5/32" GP, LONG
3/16" (06)	99-2555	3/16" GP, STANDARD
3/16" (06)	99-2554	3/16" GP, SHORT
3/16" (06)	99-2556	3/16" GP, LONG

NAS LOCKBOLT

5/32" (05)	99-2549S	5/32" NAS, STANDARD
5/32" (05)	99-2548S	5/32" NAS, SHORT
5/32" (05)	99-2550S	5/32" NAS, LONG

NAS LOCKBOLT

3/16" (06)	99-2555	3/16" NAS, STANDARD
3/16" (06)	99-2554	3/16" NAS, SHORT
3/16" (06)	99-2556	3/16" NAS, LONG

Huck SMLS (NAS1919/1921S)

1/8" (04)	99-2725	1/8" SMLS, STANDARD
1/8" (04)	99-2724	1/8" SMLS, SHORT
1/8" (04)	99-2726	1/8" SMLS, LONG
5/32" (05)	99-2731	5/32" SMLS, STANDARD
5/32" (05)	99-2730	5/32" SMLS, SHORT
5/32" (05)	99-2732	5/32" SMLS, LONG

3/16" (06)	99-2737	3/16" SMLS, STANDARD
3/16" (06)	99-2736	3/16" SMLS, SHORT
3/16" (06)	99-2738	3/16" SMLS, LONG

BLIND BOLTS (MS90353/54S/U)

5/32" (05)	99-2701	5/32" BLIND BOLT, STANDARD
5/32" (05)	99-2700	5/32" BLIND BOLT, SHORT
5/32" (05)	99-2702	5/32" BLIND BOLT, LONG
3/16" (06)	99-2707	3/16" BLIND BOLT, STANDARD
3/16" (06)	99-2706	3/16" BLIND BOLT, SHORT
3/16" (06)	99-2708	3/16" BLIND BOLT, LONG

BLIND RIVETS (NAS9300/M7885)

1/8" (04)	99-3458-202	1/8" BLIND RIVET, STANDARD
1/8" (04)	99-3459-202	1/8" BLIND RIVET, LONG
5/32" (05)	99-3458-202	5/32" BLIND RIVET, STANDARD
5/32" (05)	99-3459-202	5/32" BLIND RIVET, LONG
3/16" (06)	99-3458-202	3/16" BLIND RIVET, STANDARD
3/16" (06)	99-3459-202	3/16" BLIND RIVET, LONG



PT-4000H With Blind Bolt Nose Assembly

(REQUIRES ADAPTER 123437-2)

1/8", 5/32, 3/16"	99-1336 or H781A-456	OFFSET CHERRYMAX
1/8", 5/32, 3/16"	99-1334 or H753A-456	RIGHT-ANGLE CHERRYMAX

BLIND RIVETS (MS20600 & NAS1400A)

MS20600 (REQUIRES ADAPTER 123437-1)

3/32" (03)	H9015-3C or RV355-3	MS SIDE-EJECTION HEAD
3/32" (03)	RV375-3	MS OFFSET HEAD
3/32" (03)	RV380-3	MS RIGHT ANGLE
1/8" (04)	H9015-4C or RV355-4	MS SIDE-EJECTION HEAD
1/8" (04)	RV375-4	MS OFFSET HEAD
1/8" (04)	RV380-4	MS RIGHT ANGLE
5/32" (05)	H9015-5C or RV355-5	MS SIDE-EJECTION HEAD
5/32" (05)	RV375-5	MS OFFSET HEAD
5/32" (05)	RV380-5	MS RIGHT ANGLE
3/16" (06)	H9015-6C or RV355-6	MS SIDE-EJECTION HEAD
3/16" (06)	RV375-6	MS OFFSET
3/16" (06)	RV380-6	MS RIGHT ANGLE

NAS1400A (REQUIRES ADAPTER 123437-1)

3/32" (03)	H9055-3 or RV812-3	NAS1400A SIDE-EJECTION
3/32" (03)	RV872-3	NAS1400A OFFSET
3/32" (03)	RV882-3	NAS1400A RIGHT ANGLE
1/8" (04)	H9055-4 or RV812-4	NAS1400A SIDE-EJECTION
1/8" (04)	RV872-4	NAS1400A OFFSET
1/8" (04)	RV882-4	NAS1400A RIGHT ANGLE
5/32" (05)	H9055-5 or RV812-5	NAS1400A SIDE-EJECTION
5/32" (05)	RV872-5	NAS1400A OFFSET
5/32" (05)	RV882-5	NAS1400A RIGHT ANGLE
3/16" (06)	H9055-6 or RV812-6	NAS1400A SIDE-EJECTION
3/16" (06)	RV872-6	NAS1400A OFFSET
3/16" (06)	RV882-6	NAS1400A RIGHT ANGLE



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Toll Free: 1-800-344-2393 • (707) 935-1170 •
Fax: (707) 935-1828 • CAGE Code: 64878 •
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**FSI****FASTENING SYSTEMS
INTERNATIONAL**

The F4000 Series Close Edge Distance (CED) Nose Assemblies



CED Pulling Head Assembly



Reacting to the airframe sheet metal artisans' need for improved close edge distance (CED) nose assemblies for single action blind rivets, blind bolts, and lockbolts, FSI is pleased to offer the **F4000 Series CED Nose Assemblies**. Fitting conveniently onto the most popular aerospace quality air-hydraulic and cordless riveters, the F4000 Series CED Nose Assemblies are available in a 1.5" and 3.0" configurations eliminating the need in many cases to utilize much more expensive offset pulling head assemblies. The F4000 Series CED nose assemblies are available in all sizes from 1/8" diameter thru 1/4" diameter for most all single action, straight pull aerospace blind rivets and blind bolts, as well as 5/32" and 3/16" diameter Lockbolts. These CED nose assemblies offer maximum capability for minimum edge distance applications where a straight nose assembly may be utilized. For a complete listing of all F4000 Series CED nose assemblies, please see the back of this bulletin. For fasteners not currently covered please consult your local FSI representative or contact our factory at (800) 344-2393 or e-mail us at sales@fsirivet.com.

Made in USA

Patent # 7,530,155



Cage Code# 64878

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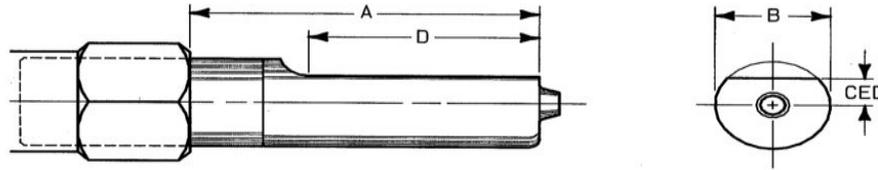


FSI

FASTENING SYSTEMS INTERNATIONAL

The F4000 Series Close Edge Distance (CED) Nose Assemblies

CLOSE EDGE DISTANCE PULLING HEAD SPECIFICATIONS



Pulling Head Chart

PART NO.	DESCRIPTION	A	B	CED	D
F4049-05CED	5/32 NAS LOCKBOLT, CED. STD	2.27	.632	.214	1.50
F4050-05CED	5/32 NAS LOCKBOLT, CED. LONG	3.77	.632	.214	3.00
F4055-06CED	3/16 NAS LOCKBOLT, CED. STD	2.27	.700	.230	1.50
F4056-06CED	3/16 NAS LOCKBOLT, CED. LONG	3.77	.700	.230	3.00
F4258-501CED	1/8 NAS1919/1921 SMLS. CED, STD	2.27	.632	.225	1.50
F4126-04CED	1/8 NAS1919/1921 SMLS. CED, LONG	3.77	.632	.225	3.00
F4258-502CED	5/32 NAS1919/1921 SMLS. CED, STD	2.27	.632	.225	1.50
F4132-05CED	5/32 NAS1919/1921 SMLS. CED, LONG	3.77	.632	.225	3.00
F4258-503CED	3/16 NAS1919/1921 SMLS. CED, STD	2.27	.700	.230	1.50
F4138-06CED	3/16 NAS1919/1921 SMLS. CED, LONG	3.77	.700	.230	3.00
F4258-CED	1/8-3/16 NAS9300/M7885, CED, STD	2.27	.632	.225	1.50
F4259-CED	1/8-3/16 NAS9300/M7885, CED, LONG	3.77	.632	.225	3.00
F4301-05CED	5/32 MS90353/54U&S. CED, STD	2.77	.632	.214	1.50
F4302-05CED	5/32 MS90353/54U&S. CED, LONG	3.77	.632	.214	3.00
F4307-06CED	3/16 MS90353/54U&S. CED, STD	2.27	.700	.230	1.50
F4308-06CED	3/16 MS90353/54U&S. CED, LONG	3.77	.700	.230	3.00
F4313-08CED	1/4 MS90353/54U&S. CED, STD	2.27	.748	.270	1.50
F4314-08CED	1/4 MS90353/54U&S. CED, LONG	3.77	.748	.270	3.00

NOTE: ALL DIMENSION ARE IN INCHES

Made in USA

Patent # 7,530,155



Cage Code# 64878

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FSI

FASTENING SYSTEMS INTERNATIONAL

New Special Pulling Head Rotating Adapters



F4187-AR
5/32" 3/16"
1/4" Offset
Blind Bolt
Head

**Fully Rotating
Bi-Directional
Prevents Thread
Damage**



F187-AR
Right Angle
Head for
CherryMax
1/8" thru
3/16"



F4187-AR for Blind Bolts

F187-AR for CherryMax

FSI is pleased to announce the introduction of its New ROTATING ADAPTERS. Available for use with all FSI Cordless, Air Hydraulic, and Hand Hydraulic Blind Riveters and Lockbolt tools, these adapters permit the artisan to position the special right angle and offset pulling heads through a complete 360° angle of rotation in either a clockwise or counterclockwise direction. This eliminates the need to loosen the jam nuts on the pulling heads to position the heads to fit the work area need. This helps minimize potential damage to the threads on the pulling head due to inadvertent loosening (unthreading) of the head during the positioning and re-positioning process. Available for use with Cherry Aerospace, Huck, and Olympic style offset and right angle pulling heads, these adapters provide a major improvement in flexibility with negligible changes in adapter profile and weight. Made in the USA.



Pat. # 8,640,315

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D-100-MIL-1 (5180-01-201-4978) HAND HYDRAULIC BLIND RIVET TOOL KIT

POWERFUL

VERSATILE

LIGHTWEIGHT

COMPACT

Over 5,000 lbs of Pulling Force

Requires No External Power

Installs All CherryMax® and Huck-Clinch thru 1/4" Dia.

Adaptable for Rivnuts®

D-180 Specifications:

Pull Force:	5000 lbs
Stroke:	.825"
Overall Dimensions:	9.50" L x 1.75" W x 6.25" H
Weight:	1.5 lbs.
Power Source:	Hand Operated, Two Valve Cylindrical Hydraulic Pump Assembly with Pressure Relief Valve.

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Since their introduction in 1983, the FSI Blind Fastener Installation Kits have become a standard in the aircraft/aerospace industry. Designed to meet the varied blind fastening needs of the aircraft repair specialist, the kits feature the D-180 Series hand hydraulic riveter which provides a unique blend of power, versatility, and compact size never before available in one hand tool. Virtually any straight pull (single action) blind fastener with a required load of 5,000 lbs or less can be installed with the D-180 Series Riveter.

Designed originally for military applications the D-100-MIL Series has become very popular with commercial airlines, private airplane and helicopter fleet owners, as well as aerospace vehicle manufacturers' field modification and repair teams because of its wide capability and compact size. Relying on the D-180 riveter, this kit provides the ability to install all CherryMax® rivets (1/8"-1/4"), Pull-thru Nutplate rivets (3/32"-1/8"), all Pop® type rivets from 3/32" thru 1/4" diameter. In addition pull up studs and driving anvils provided for Rivnut® sizes 6-32, 8-32, 10-32, 1/4-28, 10-24, 1/4-20, 5/16-18 and 3/8-16 (up to three rad). An adapter is included to permit the tool to be used with the Right Angle, Offset and Extended Straight pulling heads for CherryMax® and Huck-Clinch® blind rivets. These pulling are not included in the D-100-MIL-1 Kit, however there is space available in the kit if purchased.



Patent # 12/420,712 USA Made



D-100-MIL-2 (5180-01-201-4979) HAND HYDRAULIC BLIND RIVET TOOL KIT

POWERFUL

VERSATILE

LIGHTWEIGHT

COMPACT

Over 5,000 lbs of Pulling Force

Requires No External Power

**Installs All CherryMax® and
Huck-Clinch thru 1/4" Dia.**

Adaptable for Rivnuts®

D-180 Specifications:

Pulling Force	5000 lbs
Stroke Max.	.825"
Overall Dimensions:	9.50" L x 1.75" W x 6.25" H
Weight:	1.5 lbs.
Power Source:	Hand Operated, Two valve, cylindrical hydraulic pump, with pressure relief valve.

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Designed originally for military applications the **D-100-MIL Series** has become very popular with commercial airlines, private airplane and helicopter fleet owners, as well as aerospace vehicle manufacturers' field modification and repair teams because of its wide capability and compact size. Relying on the D-180 (military version) riveter, this kit provides the ability to install all CherryMax® rivets (1/8"-1/4"), Pull-thru Nutplate rivets (3/32"-1/8"), all Pop® type rivets from 3/32" thru 1/4" diameter. In addition pull up studs and driving anvils provided for Rivnut® sizes 6-32, 8-32, 10-32, 1/4-28, 10-24, 1/4-20, 5/16-18 and 3/8-16 (up to three rad). An adapter is included to permit the tool to be used with the Right Angle, Offset and Extended Straight pulling heads for CherryMax® and Huck-Clinch® blind rivets.

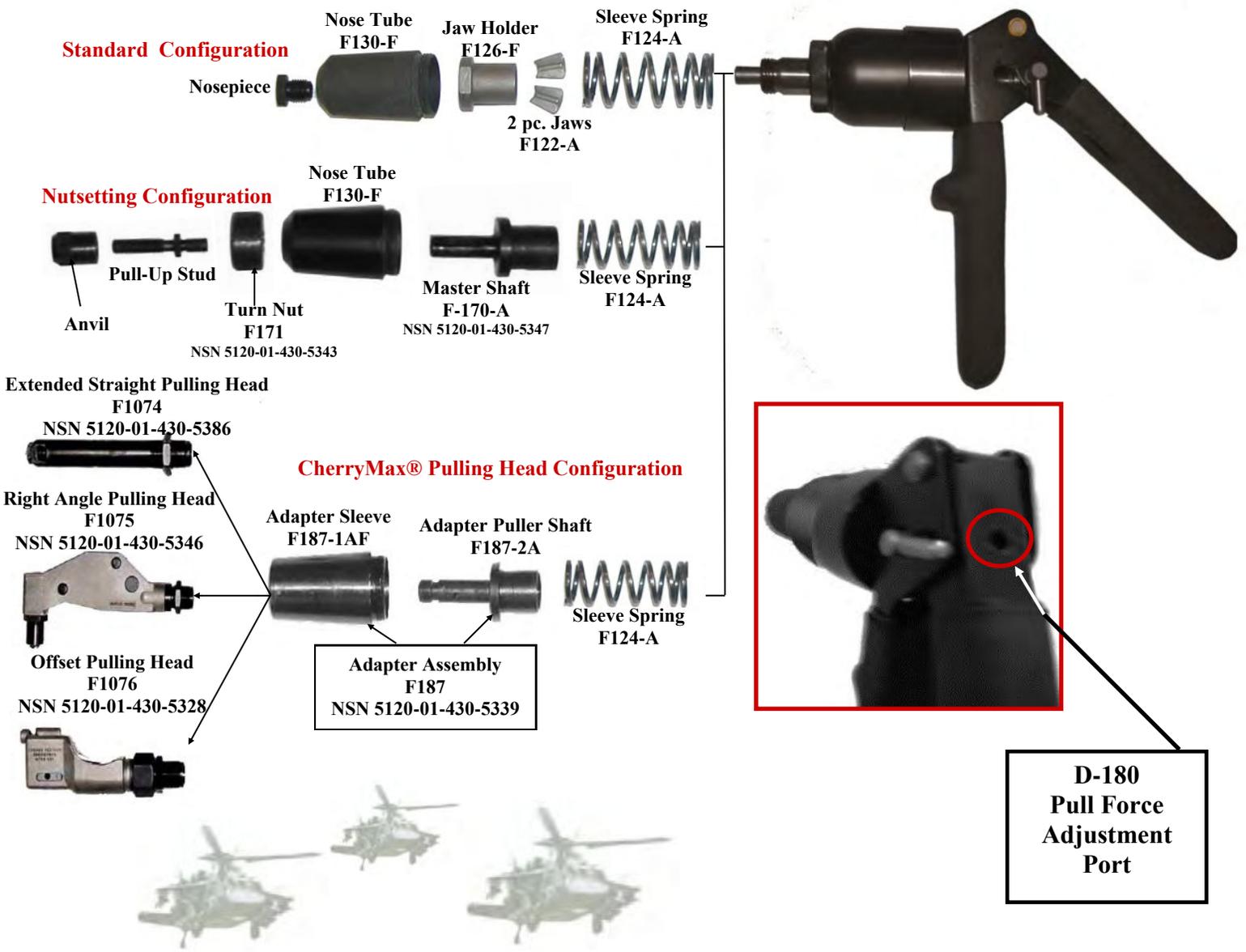
Patent # 12/420,712 USA Made

CherryMax is a registered trademark of Cherry Aerospace. Huck-Clinch is a registered trademark of Huck International. Pop is a registered trademark of Emhart Corp. Rivnut is a registered trademark of Bullhoff Fastenings Ltd.

D-100-MIL Series Components

Requiring no external power, the D-180 Series Riveters are ideally suited for any limited production or repair operation. This light weight and compact riveter can be used in limited access areas where other riveters often require very costly adaptive tooling. Several of the fasteners and some of the typical special pulling head adapter configurations are illustrated below. For other blind rivet styles please consult factory for nosepiece and/or adapter part number information. The D-180 may be used with any of the nosepieces and accessories supplied in the D-100, PT-100, PT-3000, PT-4000 and D-700 kits.

D-100-MIL-2 (NSN 5180-01-201-4979) Tool Configurations



NOTE: The Offset, Right Angle, and Extended Straight Pulling Heads for CherryMax®, included in the D-100-MIL-2 are not a part of the D-100-MIL-1 kit (5180-01-201-4978); however space is provided so that they may be added as needed. The kits are supplied in a weather tight metal carrying case (2 1/2" x 6 1/2" x 10") along with operating instructions, parts list and warranty card.



Phillips Bits

Part #	Description
ALAB-ACR1X	Apex #1– Phillips Bit
ALAB-ACR2X	Apex #2 - Phillips Bit
ALAB-ACR3X	Apex #3 - Phillips Bit
ALAB-ACR4X	Apex #4 - Phillips Bit
ALAB-ACR12X	Apex #1, 2" Length Phillips Bit
ALAB-ACR22X	Apex #2, 2" Length Phillips Bit
ALAB-24X	Apex #2, 4" Length Phillips Bit
ALAB-26X	Apex #2, 6" Length Phillips Bit
ALAB-ACR32X	Apex #3 X 2" Length Phillips Bit

Common Flat Tip

Part #	Description
ALAB-FT1	# 1 Flat Tip Apex Bit
ALAB-FT2	# 2 Flat Tip Apex Bit
ALAB-FT3	# 3 Flat Tip Apex Bit
ALAB-FT4	# 4 Flat Tip Apex Bit
ALAB-FT32	# 3 X 2" Flat Tip Apex Bit



Allen Bits

Part #	Description
ALAB-185-0	5/64" Allen Apex Bit
ALAB-185-1	3/32" Allen Apex Bit
ALAB-185-1X	7/64" Allen Apex Bit
ALAB-185-2	1/8" Allen Apex Bit
ALAB-185-2X	9/64" Allen Apex Bit
ALAB-185-3	5/32" Allen Apex Bit
ALAB-185-4	3/16" Allen Apex Bit
ALAB-185-5	7/32" Allen Apex Bit
ALAB-185-6	1/4" Allen Apex Bit
ALAB-185-8X	3/8" Allen Apex Bit
ALAB-185-7X	5/16" Allen Apex Bit





Torque-Set Power Bits

Part #	Description
AL170-0	#0 X 1-1/4" Torq-Set Power Bit, 1/4" shank
AL170-1	#1 X 1-1/4" Torq-Set Power Bit, 1/4" shank
AL170-2	#2 X 1-1/4" Torq-Set Power Bit, 1/4" shank
AL170-3	#3 X 1-1/4" Torq-Set Power Bit, 1/4" shank
AL170-4	#4 X 1-1/4" Torq-Set Power Bit, 1/4" shank
AL170-5	#5 X 1-1/4" Torq-Set Power Bit, 1/4" shank
AL170-6	#6 X 1-1/4" Torq-Set Power Bit, 1/4" shank
AL170-8	#8 X 1-1/4" Torq-Set Power Bit, 1/4" shank
AL170-10	#10 X 1-1/4" Torq-Set Power Bit, 1/4" shank
AL170-1/4B	1/4" X 1-1/4" Torq-Set Power Bit, 1/4" shank
AL170-8A	#8 X 1-1/4" Torq-Set Power Bit, 5/16" shank
AL170-10A	#10 X 1-1/4" Torq-Set Power Bit, 5/16" shank

Torque-Sets

Part #	Description
AL212-0	#0 X 1" Torq-Set Bit, 1/4" shank
AL212-1	#1 X 1" Torq-Set Bit, 1/4" shank
AL212-2	#2 X 1" Torq-Set Bit, 1/4" shank
AL212-3	#3 X 1" Torq-Set Bit, 1/4" shank
AL212-4	#4 X 1" Torq-Set Bit, 1/4" shank
AL212-5	#5 X 1" Torq-Set Bit, 1/4" shank
AL212-6	#6 X 1" Torq-Set Bit, 1/4" shank
AL212-8	#8 X 1" Torq-Set Bit, 1/4" shank
AL212-10	#10 X 1" Torq-Set Bit, 1/4" shank
AL212-1/4	1/4" X 1" Torq-Set Bit, 1/4" shank
AL212-8A	#8 X 1-1/4" Torq-Set Bit, 5/16" shank
AL212-10A	#10 X 1-1/4" Torq-Set Bit, 5/16" shank
AL212-1/4A	1/4" X 1-1/4" Torq-Set Bit, 5.16" shank

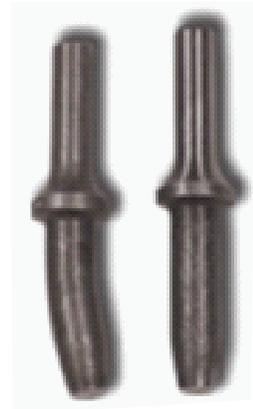


Hi-Shear Rivet Gun Punches

Part #	Description
ALRGP-3/32-L	3/32" Rivet Gun Punch
ALRGP-1/8-L	1/8" Rivet Gun Punch
ALRGP-5/32-L	5/32" Rivet Gun Punch
ALRGP-3/16-L	3/16" Rivet Gun Punch
ALRGP-1/4-L	1/4" Rivet Gun Punch

Straight Rivet Sets

Part #	Size	Length
ALRS-3/32-2.5	3/32"	2-1/2"
ALRS/18-2.5	1/8"	2-1/2"
ALRS-5/32-2.5	5/32"	2-1/2"
ALRS-1/4-2.5	1/4"	2-1/2"
ALRS-3/32-3.5	3/32"	3-1/2"
ALRS-3/16-3.5	3/16"	3-1/2"
ALRS-1/4-3.5	1/4"	3-1/2"
ALRS-3/32-5.5	3/32"	5-1/2"
ALRS-1/8-5.5	1/8"	5-1/2"
ALRS-5/32-5.5	5/32"	5-1/2"
ALRS-3/16-5.5	3/16"	5-1/2"
ALRS-1/4-5.5	1/4"	5-1/2"
ALRS-3/32-7.5	3/32"	7-1/2"
ALRS-1/8-6.5	1/8"	7-1/2"
ALRS-7.5	5/32"	7-1/2"
ALRS-3/16-7.5	3/16"	7-1/2"
ALRS-1/4-7.5	1/4"	7-1/2"



Offset Rivet Sets

Part #	Size	Length
ALRS-3/32-2.5-0	3/32"	2-1/2"
AIRS-1/8-2.5-0	1/8"	2-1/2"
ALRS-5/32-2.5-0	5/32"	2-1/2"
ALRS-3/16-3.5-0	3/16"	2-1/2"
ALRS1/4-3.5-0	1/4"	2-1/2"
ALRS-3/32-3.5-0	3/32"	3-1/2"
ALRS-1/8-3.5-0	1/8"	3-1/2"
ALRS-5/32-3.5-0	5/32"	3-1/2"
ALRS-3/16-3.5-0	3/16"	3-1/2"
ALRS-1/4-3.5-0	1/4"	3-1/2"
ALRS-3/32-5.5-0	3/32"	5-1/2"
ALRS-1/8-5.5-0	1/8"	5-1/2"
ALRS-5/32-5.5-0	5/32"	5-1/2"
ALRS-3/16-5.5-0	3/16"	5-1/2"
ALRS-1/4-5.5-0	1/4"	5-1/2"
ALRS-3/32-7.5-0	3/32"	7-1/2"
ALRS-1/8-7.5-0	1/8"	7-1/2"
ALRS-5/32-7.5-0	5/32"	7-1/2"
ALRS-3/16-7.5-0	3/16"	7-1/2"
ALRS-1/4-7.5-0	1/4"	7-1/2"



Flush Rivets Sets

Part #	Face Dia.	Length
ALRS-3/4F	3/4"	2-1/16"
ALRS-1F	1"	2-1/16"



Misc. Rivet Gun Sets

Part #	Description
ALRGC-451	Rivet Gun Chisel
ALRS-0E1	Offset Rivet Gunn Ext.
ALRCC-1/8	1/8" Rivet Gun Collar Cutter
ALRCC-5/32	5/32" Rivet Gun Collar Cutter
ALRCC-3/16	3/16" Rivet Gun Collar Cutter
ALRCC-1/4	1/4" Rivet Gun Collar Cutter



Hi-Torque Drivers

Part #	Description
ALCSL-1	#1 Coin Slot, 1/4" Drive
ALCSL-2	#2 Coin Slot, 1/4" Drive
ALCSL-3	#3 Coin Slot, 1/4" Drive
ALCSL-4	#4 Coin Slot, 1/4" Drive
ALCSL-4A	#4 Coin Slot, 3/8" Drive
ALCSL-5	#5 Coin Slot, 3/8" Drive
ALCSL-6	#6 Coin Slot, 3/8" Drive
ALCSL-7	#7 Coin Slot, 3/8" Drive
ALCSL-8	#8 Coin Slot, 3/8" Drive



Countersink / Microstop

Part #	Description
ALCSC-MICRO	Countersink Cage / Microstop
ALCSC-40-100	#40 X 100deg Countersink Cutter
ALCSC-30-100	#30 X 100deg Countersink Cutter
ALCSC-20-100	#20 X 100deg Countersink Cutter
ALCSC-10-100	#10 X 100deg Countersink Cutter
ALCSC-3/16-100	3/16" X 100deg Countersink Cutter
ALCSC-1/4-100	1/4" X 100deg Countersink Cutter
ALCSC-5/16-100	5/16" X 5/8" X 100deg C-sink Cutter
ALCCS-6-100	Chatterless Countersink
ALDT-1/4	Deburring Tool, 1/4"
ALDT-9/16	Deburring Tool, 9/16"



Cobalt Threaded Drill Bits

Size	Decimal Equiv.	Stubby Part #	Medium Part #	Long Part #
#40	0.098	ALTD-40-S	ALTD-40-M	ALTD-40-L
#30	0.1285	ALTD-30-S	ALTD-30-M	ALTD-30-L
#27	0.144	ALTD-27-S	ALTD-27-M	ALTD-27-L
#21	0.159	ALTD-21-S	ALTD-21-M	ALTD-21-L
#20	0.161	ALTD-20-S	ALTD-20-M	ALTD-20-L
#13	0.185	ALTD-13-S	ALTD-13-M	ALTD-13-L
3/16"	0.1875	ALTD-3/16-S	ALTD-3/16-M	ALTD-3/16-L
#10	0.1935	ALTD-10-S	ALTD-10-M	ALTD-10-L
#6	0.204	ALTD-6-S	ALTD-6-M	ALTD-6-L
1/4"	0.250	ALTD-1/4-S	ALTD-1/4-M	ALTD-1/4-L
5/16"	0.3125	ALTD-5/16-S	ALTD-5/16-M	ALTD-5/16-L



Threaded Drill Bit Extensions

Part #	Description
ALTE2	2" Threaded Drill Extension
ALTE4	4" Threaded Drill Extension
ALTE7	7" Threaded Drill Extension
ALTE9	10" Threaded Drill Extension





Hi-Lok Tools

Part #	Description
ALHLR-5/32 x 1/4	5/32" x 1/4" Hi-Lok Removal Socket
ALHLR-5/32 x 3/8	5/32" x 3/8" Hi-Lok Removal Socket
ALHLR-3/16 x 1/4	3/16" x 1/4" Hi Lok Removal Socket
ALHLR-3/16 x 3/8	3/16" x 3/8" Hi-Lok Removal Socket
ALHLR-1/4 x 1/4	1/4" x 1/4" Hi-Lok Removal Socket
ALHLR-1/4 x 3/8	1/4" x 3/8" Hi-Lok Removal Socket
ALCC-5/32	5/32" Threaded Hollow Collar Cutter
ALCC-3/16	3/16" Threaded Hollow Collar Cutter
ALCC-1/4	1/4" Threaded Hollow Collar Cutter
ALCC-5/16	5/16" Threaded Hollow Collar Cutter

Hole Finders

Part #	Description
ALHF-40	#40 Hole Finder, Bushing Type
ALHF-30	#30 Hole Finder, Bushing Type
ALHF-21	#21 Hole Finder, Bushing Type
ALHF-10	#10 Hole Finder, Bushing Type
ALHF-1/4	1/4" Hole Finder, Bushing Type

Rivet Shavers

Part #	Description
ALRSB-5/16	5/16" Threaded Rivet Shaver Bit
ALRSB-3/8	3/8" Threaded Rivet Shaver Bit
ALRSB-7/16	7/16" Threaded Rivet Shaver Bit
ALRSB-1/2	1/2" Threaded Rivet Shaver Bit
ALRSB-9/16	9/16" Threaded Rivet Shaver Bit
ALRSB-5/8	5/8" Threaded Rivet Shaver Bit



Blind Hole Spotters

Part #	Description
ALBHS-1/8	1/8" Blind Hole Spotters, 6pk
ALBHS-5/32	5/32" Blind Hole Spotters, 6pk
ALBHS-3/16	3/16" Blind Hole Spotters, 6pk
ALBHS-1/4	1/4" Blind Hole Spotters, 6pk
ALBHS-5/16	5/16" Blind Hole Spotters, 6pk
ALBHS-3/8	3/8" Blind Hole Spotters, 6pk
ALBHS-7/16	7/16" Blind Hole Spotters, 6pk
ALBHS-1/2	1/2" Blind Hole Spotters, 6pk

Chucking Piloted Reamers Standard Sizes HSS



Reamer Size	Pilot Size	Part #
0.153	0.140	ALCR153X140
0.161	0.125	ALCR161X125
0.168	0.153	ALCR168X153
0.184	0.168	ALCR184X168
0.199	0.184	ALCR199X184
0.215	0.200	ALCR215X200
0.231	0.215	ALCR231X215
0.247	0.231	ALCR247X231
0.262	0.247	ALCR262X247
0.278	0.262	ALCR278X262
0.293	0.278	ALCR293X278
0.309	0.293	ALCR309X293
0.325	0.309	ALCR325X309
0.340	0.325	ALCR340X325
0.356	0.340	ALCR356X340
0.372	0.356	ALCR372X356
0.387	0.372	ALCR387X372
0.403	0.387	ALCR403X387
0.418	0.403	ALCR418X403
0.434	0.418	ALCR434X418
0.437	0.421	ALCR437X421
0.450	0.434	ALCR450X434
0.465	0.450	ALCR465X450
0.481	0.465	ALCR481X465
0.497	0.481	ALCR497X481
0.500	0.484	ALCR500X484
0.512	0.500	ALCR512X500
0.529	0.512	ALCR529X512
0.530	0.513	ALCR530X513
0.543	0.529	ALCR543X529

**Threaded Piloted Reamers
Standard Sizes
HSS
2-1/4" OAL, 1/4-28 Thread**



Reamer Size	Pilot Size	Part #
0.153	0.140	ALTR153X140
0.168	0.153	ALTR168X153
0.184	0.168	ALTR184X168
0.199	0.184	ALTR199X184
0.215	0.200	ALTR215X200
0.231	0.215	ALTR231X215
0.247	0.231	ALTR247X231
0.262	0.247	ALTR262X247
0.278	0.262	ALTR278X262
0.293	0.278	ALTR293X278
0.309	0.293	ALTR309X293
0.323	0.310	ALTR323X310
0.325	0.309	ALTR325X309
0.340	0.325	ALTR340X325
0.356	0.340	ALTR356X340
0.372	0.356	ALTR372X356
0.387	0.372	ALTR387X372
0.403	0.387	ALTR403X387
0.418	0.403	ALTR418X403
0.434	0.418	ALTR434X418
0.450	0.434	ALTR450X434
0.465	0.450	ALTR465X450
0.481	0.465	ALTR481X465
0.497	0.481	ALTR497X481
0.500	0.484	ALTR500X484
0.512	0.500	ALTR512X500
0.529	0.512	ALTR529X512
0.543	0.529	ALTR543X529



Piloted Cobalt Core Drills		
Drill Size	Pilot Size	Part #
0.128	0.098	ALCD128X098
0.156	0.125	ALCD156X125
0.161	0.098	ALCD161X098
0.185	0.098	ALCD185X127
0.185	0.127	ALCD185X127
0.187	0.156	ALCD187X156
0.200	0.156	ALCD200X156
0.216	0.184	ALCD216X184
0.247	0.187	ALCD247X187
0.250	0.124	ALCD250X124
0.312	0.250	ALCD312X250
0.437	0.250	ALCD437X250
0.437	0.375	ALCD437X375
0.480	0.437	ALCD480X437
0.500	0.187	ALCD500X187
0.500	0.250	ALCD500X250
0.500	0.312	ALCD500X312
0.500	0.375	ALCD500X375



Clecos - Temporary Fasteners	
Part #	Description
CBX-3/32	3/32" Cylindrical Cleco, 0-1/2" Grip Range
CBX-1/8	1/8" Cylindrical Cleco, 0-1/2" Grip Range
CBX-5/32	5/32" Cylindrical Cleco, 0-1/2" Grip Range
CBX-3/16	3/16" Cylindrical Cleco, 0-1/2" Grip Range
CBX-1/4	1/4" Cylindrical Cleco, 0-1/2" Grip Range
	Additional Lengths Available
WNX-3/32	3/32" Wing Nut Cleco, 0-1/2" Grip Range
WNX-1/8	1/8" Wing Nut Cleco, 0-1/2" Grip Range
WNX-5/32	5/32" Wing Nut Cleco, 0-1/2" Grip Range
WNX-3/16	3/16" Wing Nut Cleco, 0-1/2" Grip Range
WNX-1/4	1/4" Wing Nut Cleco, 0-1/2" Grip Range
	Additional Lengths Available
HNX-3/32	3/32" Hex Nut Cleco, 0-1/2" Grip Range
HNX-1/8	1/8" Hex Nut Cleco, 0-1/2" Grip Range
HNX-5/32	5/32" Hex Nut Cleco, 0-1/2" Grip Range
HNX-3/16	3/16" Hex Nut Cleco, 0-1/2" Grip Range
HNX-1/4	1/4" Hex Nut Cleco, 0-1/2" Grip Range

Clecos - Temporary Fasteners

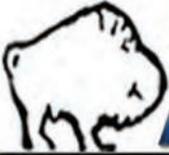
Part #	Description
K-3/32	#40 (3/32") Spring Cleco, 0-1/4" Grip Range
K-1/8	#30 (1/8") Spring Cleco, 0-1/4" Grip Range
K-5/32	#21 (5/32") Spring Cleco, 0-1/4" Grip Range
K-3/16	#10 (3/16") Spring Cleco, 0-1/4" Grip Range
K-1/4	1/4" Spring Cleco, 0-1/4" Grip Range
	Additional Lengths Available
FS123G	1/2" Side Grip Clamp, 0-1/2" Capacity
	Installation Tools
F74	Cleco Pliers for "K" and "FS" Parts
CBHT-01	Wedge-Lok Hand Tool for CBX Parts
SR9A-25	Power Hex Runner for HNX Parts
W500-30-931GB	Wedge-Lok Power Tool for CBX Parts



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