

TENSION PULL-TYPE HUCKBOLT® FASTENERS

Includes part numbers:

- NAS 1465 - 1472
- NAS 1525 - 1532
- NAS 6965 - 6972
- NAS 2005V - 2012V
- NAS 6935 - 6942
- NAS 2125 - 2132
- NAS 1475 - 1482
- NAS 1456 - 1462
- NAS 1535 - 1542
- NAS 1516 - 1522
- NAS 6955 - 6962
- NAS 6946 - 6952
- NAS 2115V - 2122V
- NAS 2105V - 2112V

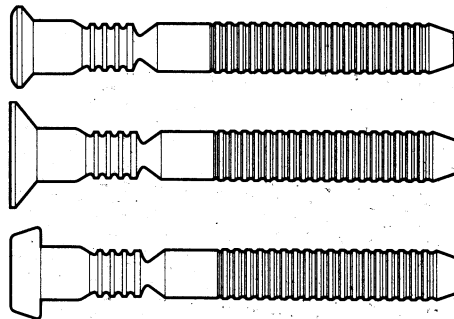
Designed for use in high-strength aerospace applications, the Huckbolt Fastener is readily adaptable to high volume production methods. Common applications include primary airframes, main spars, and engine mounts.

There is a wide variety of collar configurations and materials not shown. The tooling shown in this section will install all NAS Tension pull-type lockbolts.

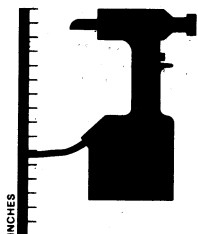
NOTE: These fasteners are available in Stump Type (without pintail) and are intended for hammer drive installation or automated installation.



Collar for tension lockbolt fasteners.



Tension pull-type lockbolt fasteners, crown, flush, and protruding heads.



Model 230

Type: Pneumatic

Applications: Medium production

Features: Lightweight tool for fast, uniform installations.

NOTE: Nose assemblies shown in *italic* are available in chisel design—tapered flats for improved centerline to edge clearance. Specify by adding **CM** to part number, for example: 99-2549T**CM**

¹ "E" (Aluminium) material only

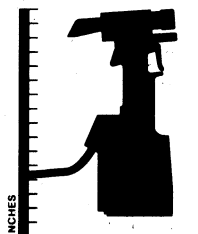
² Will not install DT alloy steel

Nose Assemblies				
<i>5/32</i>	<i>3/16</i>	<i>1/4</i>	<i>5/16</i>	<i>3/8</i>
99-2548T	99-2554 ²	99-2560 ¹		
99-2549T	99-2555 ²	99-2561 ¹		
99-2550T	99-2556 ²	99-2562 ¹		

³ Requires adapter part number 119400 and stroke limiter part number 118362

⁴ Requires adapter part number 117831 and stroke limiter part number 118362

⁵ Requires adapter part number 122134



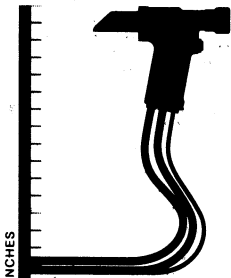
Model 245

Type: Pneumatic

Applications: High speed production

Features: Optimum stroke for one cycle installation of fasteners to 3/8 diameter, heavy duty for years of dependable service. Minimum moving parts.

Nose Assemblies				
<i>5/32</i>	<i>3/16</i>	<i>1/4</i>	<i>5/16</i>	<i>3/8</i>
99-2551T	99-2557	99-2563	99-2566	99-2569 ¹
99-2552T	99-2558	99-2564	99-2567	99-2570 ¹
99-2553T	99-2559	99-2565	99-2568	99-2571 ¹
99-1703 ³	99-1704 ³	99-1705 ³	99-1537 ⁴	
99-1703-1 ³	99-1704-1 ³	99-1705-1 ³	99-1538 ⁴	
99-1506 ⁴	99-1508 ⁴	99-1510 ⁴	99-1720 ⁵	
99-1507 ⁴	99-1509 ⁴	99-1511 ⁴		
99-1528 ⁴		99-1530 ⁴		



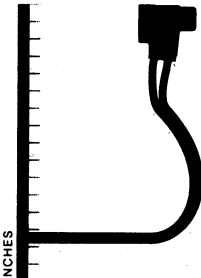
Model 2502/A2502

Type: Hydraulic

Applications: High speed production

Features: Small, lightweight, with just one moving part for increased reliability, and an offset piston for limited clearance.

Nose Assemblies				
<i>5/32</i>	<i>3/16</i>	<i>1/4</i>	<i>5/16</i>	<i>3/8</i>
99-2551T	99-2557	99-2563	99-2566	99-2569 ¹
99-2552T	99-2558	99-2564	99-2567	99-2570 ¹
99-2553T	99-2559	99-2565	99-2568	99-2571 ¹



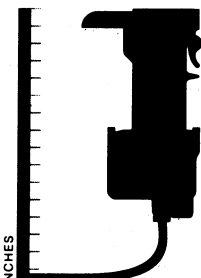
Model 700/A700 series

Type: Hydraulic

Applications: Limited clearance

Features: Built in nose assembly for convenience and dependability, in an extremely small package.

Nose Assemblies				
<i>5/32</i>	<i>3/16</i>	<i>1/4</i>	<i>5/16</i>	<i>3/8</i>
	706GP	708GP	710GP	712GP



Model 352

Type: Pneumatic

Applications: High speed production

Features: Narrow centerline-to-edge measurement allows installations in limited clearance applications.

Nose Assemblies				
<i>5/32</i>	<i>3/16</i>	<i>1/4</i>	<i>5/16</i>	<i>3/8</i>
99-2548T	99-2554 ³	99-2560 ²		
99-2549T	99-2555 ³	99-2561 ²		
99-2550T	99-2556 ³	99-2562 ²		

NOTE: Nose assemblies shown in *italic* are available in chisel design—tapered flats for improved centerline to edge clearance. Specify by adding **CM** to part number, for example: 99-2552T**CM**

¹ Increase hydraulic unit pull pressure to 8400 psi

² "E" (Aluminium) material fasteners only

³ Will not install DT alloy steel