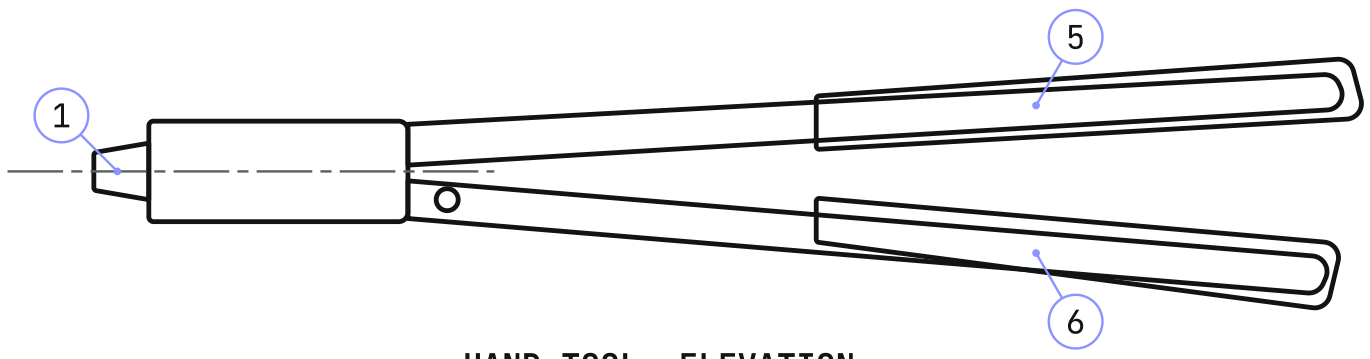
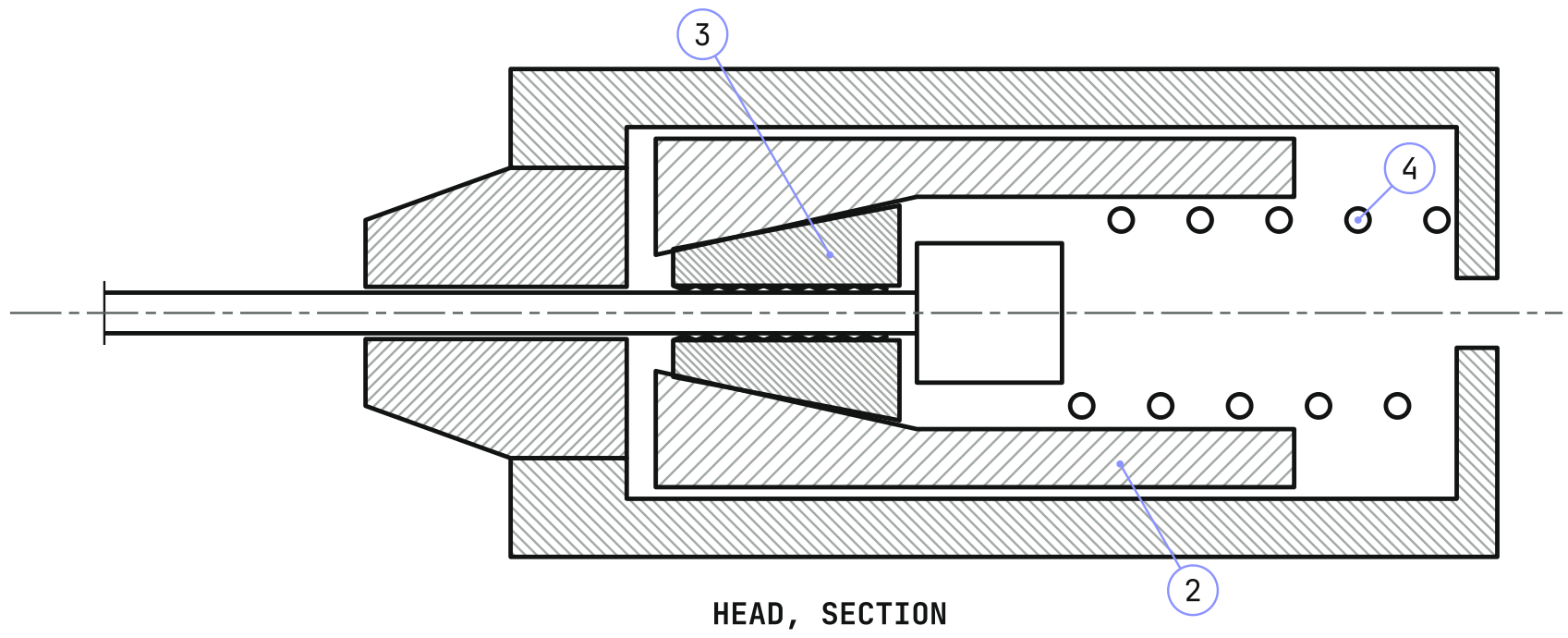
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Blind Rivet Tools: Pullers, Nosepieces and Pulling Heads

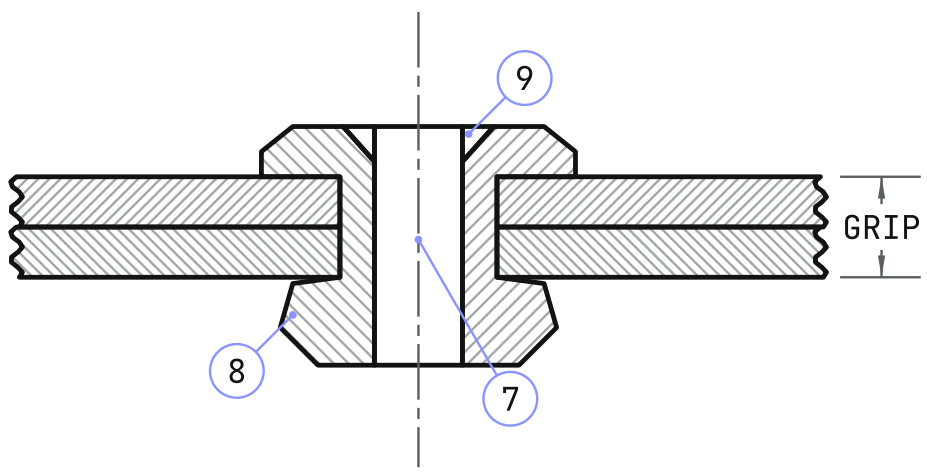
A blind rivet tool grips the stem and pulls it while its nose holds the rivet head down, so the blind head forms on the far side.



HAND TOOL, ELEVATION
SCALE 1:2



HEAD, SECTION
SCALE 2:1



MECHANICAL LOCK, INSTALLED
SCALE 4:1

STEM AFTER THE PULL	
LOCK	STEM
FRICTION	TRIM, FILE FLUSH
MECHANICAL	BREAKS AT NOTCH
NEVER FILE A LOCKED STEM	

NOTES
1. PULLING HEAD BY RIVET DIAMETER AND HEAD STYLE.
2. RIVET LENGTH FROM THE GRIP.
3. SEAT THE HEAD WITH FIRM, STEADY PRESSURE, THEN PULL.
4. HOLD THE TOOL SQUARE UNTIL THE STEM BREAKS.
5. BLIND RIVETS ONLY WHERE THE REPAIR DATA ALLOWS.

ITEM	DESCRIPTION
9	LOCK COLLAR
8	SLEEVE
7	STEM
6	HANDLE, LEVER
5	HANDLE, FIXED
4	JAW SPRING
3	JAWS
2	JAW CASE
1	NOSEPIECE

TOOL, HAND, BLIND RIVET, PULL TYPE	
SHEET 1 OF 1	
DWG TAP-TG-078	REV A
SCALE 1:1	

Types and sizes

Type	Takes	Use
Hand riveter (pliers type)	Pull-stem rivets, by nosepiece	Field work and short runs.
Lever riveter (long handles)	Larger diameters and harder stems, by nosepiece	More pull for less hand force.
Pneumatic or hydraulic puller	By pulling head	Production work and most mechanical-lock rivets.
Nosepiece	One per rivet diameter	Holds the head down and lets the stem into the jaws.
Pulling head	By rivet family, diameter and head style	Matches a power tool to a mechanical-lock rivet, protruding or flush head.
Grip gauge	By rivet family	Measures the stack, so the rivet length suits the grip.

What to check when buying

Check	What to look for
Capacity	The rivet diameters and stem materials the tool is rated for, stated by the maker.
Heads	Nosepieces or pulling heads for every diameter and head style you install.
Stroke	Long enough to break the stem of the longest grip you install in one pull.
Jaws	Hardened and replaceable, sold as spares.
Stem handling	A stem collector or a clear path out, so stems do not fall into the structure.
Power tools	Weight and balance in the hand, air pressure stated by the maker, a trigger that holds until the stem breaks.

Educational reference only, not approved data. Always consult the applicable SRM, AMM, or AC 43.13-1B and your certifying authority.

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Accessories

Item	What it is for
Nosepiece set	One per rivet diameter.
Pulling heads	Mechanical-lock rivets by family, diameter and head style.
Grip gauge	The rivet length for the stack.
Spare jaws and jaw spring	Worn jaws let the stem slip.
Stem collector	Keeps broken stems out of the structure.
Feeler gauge 0.005 in	Checks that the head is tight.

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