

BESSEY Product Training



BESSEY Tools North America Cutting Tools

Cutting Tools



Simply better.

Manufacturing Process: What Makes BESSEY Unique

- q BESSEY Tools has been in the cutting tool business for 70+ years
- q Sourced and manufactured to BESSEY specifications
- q Unique snip configurations...common only to BESSEY
- q BESSEY has high-quality aviation snips but, what sets us apart is that our standard of **quality**, **unique styles**, and **elevated blade hardness** begins where everyone else finishes



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Elevated Blade Hardness

- q Different qualities of steel require different qualities of snips
 - q The tensile strength of (sheet-) metals is measured in PSI .
 - q The greater the tensile strength of a sheet metal, the more difficult it is to cut with a snip or a nibbler.
- q Tensile strength
 - q Cold rolled carbon steel: 50,000 – 94,000 PSI
 - q Stainless steel: 79,000 to 120,000 PSI
 - q Extra hard exotic alloys: Up to 200,000 PSI
- q BESSEY Choices
 - q You need a harder metal in a snip to cut harder metals
 - q Even the lowest quality snips will cut... but, they may only cut a few times
 - q BESSEY offers choices where others do not...see next slide



Elevated Blade Hardness

- q A harder strength metal in a snip will enable the snip to last longer, produce better cuts and ...with less fatigue than a lower quality snip.

Grades of blade steel:	Min HRC ⁽¹⁾	Approx. Tensile Strength of Blade PSI	QUALITY - BESSEY Snips by Part # versus Others
HSS-TiN	64-68 ⁽²⁾	370,000	D27AH-TiN, D27AHL-TiN
HSS	64-68	370,000	D27AH, D27AHL
Special high grade steel	60+	320,000	BESSEY D15AL, D15A, D15S, D29SS, D29SSL, D29ASS, D29ASSL
High grade steel	58+	300,000	BESSEY aviation snips D16L, D16R & D16S <u>and many/most other readily available commercial snips</u>
Quality steel	54+	266,000	Lower quality aviation snips

(1) Rockwell hardness (2) Extra hard coating

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Quality

- q Ideal snips are made in Europe
 - q Each snip is hand tested and calibrated
 - q Every raw part is QC tested for adherence to ISO and internal quality standards
- q Standard Snips
 - q High volume standard snips are often sourced elsewhere
 - q ALL BESSEY cutting tools must meet BESSEY QC specifications
 - q We do not just source products...we source BESSEY specified products



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Unique – „Ideal“ Snips

- q Blade shape allows flow-through cutting
- q Work passes over the blade for continuous cuts for greater productivity
- q Metal does not tend to curl up as much for greater safety
- q Models with Ideal Shape are: D27AH, D27AHL, D15A, D15AL, D29ASS, D29ASSL, D29SS, D29SSL



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Unique – D15A Aviation Snips

- q 25% smaller than standard aviation snips
- q Same cutting performance as standard aviation snips
- q „Ideal“ blade configuration for smoother cutting and safety
- q Left, right and straight versions – Available 2011
- q Cuts very small radii, fits well in almost any pocket



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Unique – „Long Nose“ Snips (D22AL)

- q Blade shape allows flow-through cutting
- q For cutting a slightly lighter grade of sheet metals and fencing etc
- q „Ideal“ blade configuration for smoother cutting and safety
- q Models with Ideal Shape are: D22AL



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Unique – „Super Power“ Tin Snips

- 1) American Pattern tin snip blades married to compound leverage
- 2) Compound action system
- 3) One hand thumb locking system
- 4) 8.5“ and 11“ lengths, straight or offset blade versions in either length, cushion grips on all versions



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Unique – Stainless Steel Multi Purpose Snips

- q Stainless resists staining, rust, pitting etc.
- q Great for any toolbox or tool bench
- q Versions: Straight blade, offset blade, small format, cable cutter

D48: 7-1/2" long



D48A: 7-1/2" long



D49: 6-1/2" long



D47: 5-1/2" long



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Standard Products – Folding Knives

- q ABS, Wood and Aluminum handle version
- q Knives lock and fold, 6-1/4 long when open, belt clipped
- q ABS version has storage for 5 standard blades and a thumb pad

D-BKPH



D-BKAH



D-BKWH



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Standard Products – Aviation Snips

- q Left, right and straight
- q BESSEY quality
- q Very fine serrations on the blade results in better cuts

D16



D16L



D16S



Thank you for your attention!

BESSEY Tools North America