Sheet Metal Tools/HVAC

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ທ ທ Klein's line of sheet metal and HVAC tools make it easy to work with sheet metal, ductwork and tubing. These job-matched tools are proven to stand the test of time with superior results.

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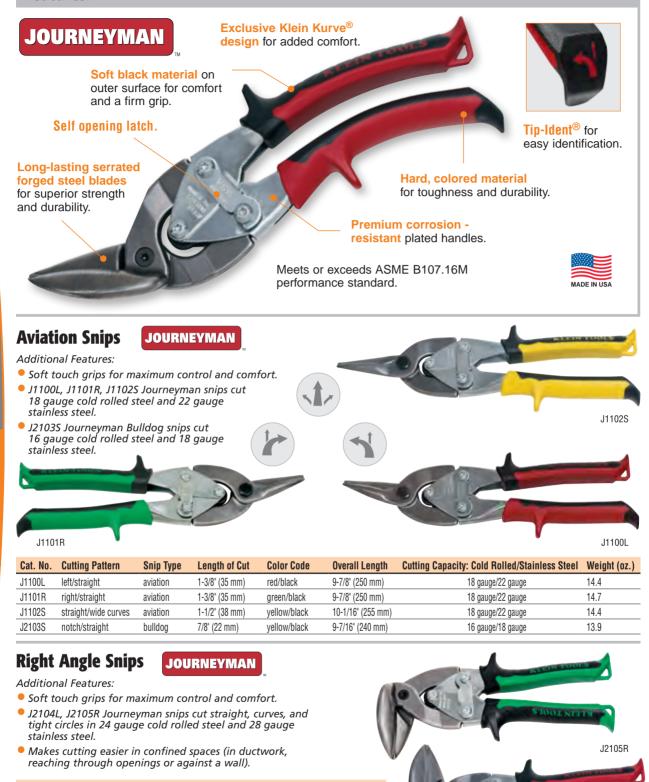
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Cutting & Notching Tools – Journeyman[™] Snips

Features:



Cat. No.	Cutting Pattern					Cutting Capacity: Cold Rolled/Stainless Steel	Weight (oz.)	60
J2104L	left curves/tight circles/straight	right angle	1-1/4" (32 mm)	red/ black	7-15/16" (201 mm)	24 gauge/28 gauge	14.4	No.
J2105R	right curves/tight circles/straight				7-15/16" (201 mm)	24 gauge/28 gauge	14.4	

All dimensions are in inches and (millimeters).

AWARNING: Always wear approved eye protection.

AWARNING: Never use on or near live electrical circuits

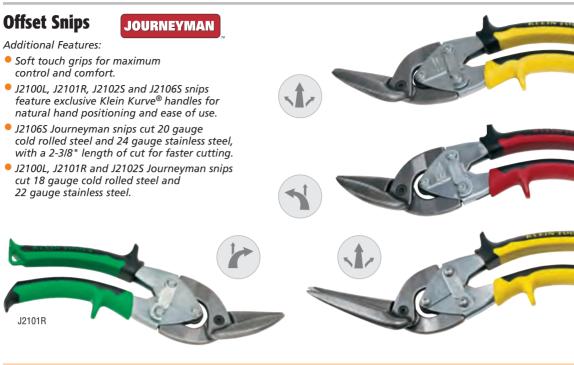
AWARNING: NOT insulated. Will NOT protect against electrical shock.

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HVAC

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Cutting & Notching Tools – Journeyman[™] Snips



Cat. No.	Cutting Pattern	Snip Type	Length of Cut	Color Code	Overall Length	Cutting Capacity: Cold Rolled/Stainless Steel	Weight (oz.)
J2100L	left/straight	offset	1-1/4" (32 mm)	red/black	9-1/2" (241 mm)	18 gauge/22 gauge	15.5
J2101R	right/straight	offset	1-1/4" (32 mm)	green/black	9-1/2" (241 mm)	18 gauge/22 gauge	15.7
J2102S	straight/wide curves	offset	1-1/2" (38 mm)	yellow/black	9-1/2" (241 mm)	18 gauge/22 gauge	15.5
J2106S	straight/wide curves	long cut offset	2-3/8" (38 mm)	yellow/black	10-1/2" (266 mm)	20 gauge/24 gauge	18.2

Cutting & Notching Tools

1102S

Aviation Snips – Regular/Offset/Bulldog

- Forged and heat-treated steel blades for strength and durability.
 Regular and offset blades have the capacity of cutting 18 gauge cold-rolled sheet metal and 22 gauge stainless steel sheet metal.
- Offset blades provide ease of cutting tight curves and keep user's hand away from metal.
- Buildog snips (Cat. No. 2103) for notching or trimming 16 gauge cold-rolled sheet metal and 18 gauge stainless steel sheet metal.
- Spring-loaded for self-opening action.
- Latch keeps jaws closed when not in use.
- Hardened handles for extra strength.
- Contoured plastic handles are comfortable and color-coded by cutting pattern.

Cat. No.	Cutting Pattern	Snip Type	Length of Cut	Color Code	Overall Length	Cutting Capac- ity	Weight (oz.)
1100L	left / straight	aviation	1-3/8" (35 mm)	red	9-3/4" (248 mm)	18 ga.	14.4
1101R	right / straight	aviation	1-3/8" (35 mm)	green	9-3/4" (248 mm)	18 ga.	14.7
1102S	straight / wide curve	aviation	1-1/2" (38 mm)	yellow	10-1/8" (257 mm)	18 ga.	14.4
2100L	left / straight	offset	1-1/4" (32 mm)	red	9-1/2" (241 mm)	18 ga.	15.5
2101R	right / straight	offset	1-1/4" (32 mm)	green	9-1/2" (241 mm)	18 ga.	15.7
2102S	straight / wide curve	offset	1-1/2" (38 mm)	yellow	9-1/2" (241 mm)	18 ga.	15.5
2103	notch	bulldog	7/8" (22 mm)	yellow	9-1/4" (235 mm)	16 ga.	13.9

 Replacement springs for aviation snips

 P406
 replacement spring for Cat. Nos. 1100L and 1102S

 P407
 replacement spring for Cat. No. 1101R

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All dimensions are in inches and (millimeters).

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AWARNING: Never use on or near live electrical circuits

AWARNING: NOT insulated. Will NOT protect against electrical shock.

HVAC

J2102S

.121001

J2106S

2101R

2100L

Cutting & Notching Tools



Hand Notcher Allows guick, clean, 30° "V" shaped cuts in sheet metal. Drop-forged, high-impact steel iaw with 13/16" (21 mm) maximum throat depth. Jaws' hook design allows easy notching of corners and take-off tabs without slippage. 86551

- All steel construction with nickel-plate and black-oxide finish provides long life and durability.
- Hardened steel handles include hand guards and are covered with vinyl grips for added comfort and easy operation.

Cat. No.	Overall Length	Handle Color	Weight (lbs.)
86551	8-1/2" (216 mm)	blue	1.0

Nibbler Tool

- Cuts soft sheet metal, plastic, soft copper and aluminum, and tubing. Ideal for air conditioning and heating installation, automobile work, model making, and sheet metal construction. 1/4" cutting kerf. 76011B Cat. No. Description Cuts Up to Weight (oz. 76011B nibbler cutter 18 gauge soft sheet metal, soft copper 5.6 with blade and aluminum up to 1/16", and tubing from a 1" I.D. **Replacement Parts** replacement blade for Cat. No. 76011B 76012B
- hardened wire, nails, or any other rounded surface.
- Lightweight magnesium handles.

Cat. No.	Overall Length	Handle Color	Weight (oz.)			
3100	13" (330 mm)	gray	13.4			
Replacem	Replacement Parts					
3101 replacement blades for Cat. No. 3100						

Seaming & Folding Tools

Seamers – Straight and Offset

- Compound-leverage mechanism easily and accurately bends, seams, and flattens sheet metal and non-ferrous metals.
- Jaw marked in 1/4" (6 mm) increments for precise bending measurements.
- All-steel construction and nickel-chrome plated hardware provide long life and durability.
- Vinyl grips with handle stops for added comfort and easy operation.
- Straight-handle model is used for most general applications.
- Offset-handle model (not pictured) is for use in overhead or confined areas .
- Broader jaw model for forming wider folds.
- Folds 22 gauge CRSM and 24 gauge SSSM.

Cat. No.	Туре	Jaw Size	Overall Length	Handle Color	Weight (lbs.)
86553	straight-hand seamer	3"	8-3/8" (213 mm)	blue	1.45
86552	offset-hand seamer	3"	8" (203 mm)	blue	1.46
86556	straight-hand seamer	6"	8-3/8" (213 mm)	blue	1.87

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86556

Sheet Metal Tools/HVA

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Seamer Tongs, Straight and Offset

- Hot-drop forged for strength.
- Bending depth indicators marked in 1/4" (6 mm) increments.
- Cushioned handles.
- Offset-handle model for greater power and easy use in overhead and confined areas.

Cat. No.	Туре	Jaw Size	Overall Length	Bends	Handle Color	Weight (lbs.)
86554	offset	3"	9-3/4" (248 mm)	22 ga. CRSM	red	1.8
86555	straight	3"	9-3/4" (248 mm)	22 ga. CRSM	red	1.8

86555

Tube Benders

86554

Swivel Handle Tube Bender

- Swivel handle repositions midway through bend to gain control, reduce efforts, and prevent handles from crossing.
- Easily fabricates bends up to 180°.
- Calibrated to show angle of bend.

Cat. No.	Closed Overall Length	Tube O.D.	Weight (lbs.)
8900-1/4	10" (254 mm)	1/4"	1.0
8900-3/8	14-1/4" (362 mm)	3/8"	1.75
8900-1/2	21-7/8" (556 mm)	1/2"	3.50

Professional 4-in-1 Tube Bender



89030

- Bends four popular tube sizes.
 Calibrated markings for accurate left-hand, right-hand, and offset bends up to 90°.
- For soft copper, aluminum, and steel tubing.
- Bends 3/16", 1/4", 5/16" and 3/8"(6 mm and 8 mm)
 O.D. tubing.

Cat. No.	Closed Overall Length	Weight (lbs.)
89030	10" (254 mm)	1.0

Spring Type Tube Bender Sets

- 8-Pc. Set: Bends 1/4" to 7/8" O.D. tubing.
 3-Pc. Set: Bends 1/4" to 3/8" O.D. tubing.
- Easily allows hand bending of soft copper and aluminum tubing into any shape without collapsing walls.
- Belled end for quick tube removal.

Cat. No.	Туре	Overall Length	Weight (oz.)
89018	8 pc. set	10" (254 mm) - 12" (305 mm)	50.75
89019	3 pc. set	10" (254 mm)	10

All dimensions are in inches and (millimeters).

AWARNING: Always wear approved eye protection.



Folding Tools



• Two folding depths: 3/8" (10 mm) and 1" (25 mm).

- Handy sight gauges for accurate depth alignment.
- Made of heavy-duty 16 gauge steel for folding strength.

Cat. No.	Overall Length	Folds	Weight (lbs.)
88980	12" (305 mm)	24 ga. CRSM and 28 ga. SSSM	1.3
88981	18" (457 mm)	24 ga. CRSM and 28 ga. SSSM	2.0
88982	24" (610 mm)	24 ga. CRSM and 28 ga. SSSM	2.6



AWARNING: Never use on or near live electrical circuits.





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Tube Cutters

Professional Tube Cutter



88904

- Accurate 4 roller tracking system no spiraling.
- Professional reaming tool.
- Extra cutting wheel included in handle.

Cat. No. Cuts		Weight (lbs.)	
88904	1/8" – 1-1/8" steel and copper tubing	1.31	
Replacement Parts			
88905	replacement wheel for Cat. No. 88904	.08	

Professional Tube Cutter





88976

- Smooth feed mechanism for precise, right angle cutting action.
 Includes retractable reamer with
 - filing surface and spare cutter wheel.
- Not designed for cutting stainless steel or hard tempered tubing.

Cat. No.	Overall Length	Cuts	Weight (oz.)
88975	5" (127 mm)	1/8" - 1-1/8" O.D. tubing	6.5
Replacem	ent Parts		
88976	replacement wheels +	screw for Cat. No. 88975	

Swaging Tool – Punch Type

Professional 6-in-1 Swaging Punch



- Hex design for ease of extraction.
- 66400
- Precision machined surface for ease of forming.
 High-alloy steel, heat-treated for strength and durability.

Cat. No.	Overall Length	Swages	Weight (oz.)
66400	5-3/16" (132 mm)	3/16", 1/4", 5/16", 3/8" 1/2", 5/8" O.D. tubing	5.92

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All dimensions are in inches and (millimeters)

AWARNING: Always wear approved eye protection.

Professional Mini Tube Cutter



- Perfect for tight space cutting. Requires only 1-3/8" swing radius.
- Smooth feed mechanism for precise, right angle cutting action.
- Not designed for cutting stainless steel or hard tempered tubing.

Cat. No.	Overall Length	Cuts	Weight (oz.)			
88977	1-3/4" (44 mm)	1/8"-5/8" O.D. tubing	2.5			
Replacem	Replacement Parts					

88978 replacement wheels + screw for Cat. No. 88977

Tube Cutter Accessories

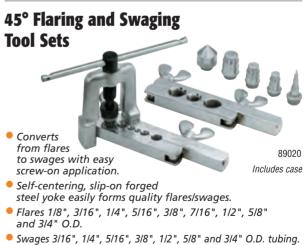
Inner-Outer Reaming and Deburring Tool

- Reams inside and outside edges of tubing.
- Deburrs with clockwise and counter-clockwise rotations.
- Reams copper, aluminum, and brass tubing.

Cat. No.	Overall Length	Color	Reams	Weight (oz.)
89025	2-1/4" (57 mm)	yellow	3/16" to 1-1/2"	10.08

89025

Tube Flaring & Swaging Tools



 Cat. No. 89021 Flares 3/16", 1/4", 5/16", 3/8", 7/16", 1/2" and 5/8" O.D. tubing.

Cat. No.	Dimensions	Weight
89020	6-1/8" L (157 mm) x 6-1/2" W (165 mm) x 4-13/32" H (112 mm)	4.71 lbs.
89021	7" (178 mm) L x 4-13/16" W (122 mm) x 3-9/32" H (236 mm)	2.0 lbs.

AWARNING: Never use on or near live electrical circuits.

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Duct Stretching & Slitting Tools

Duct Stretcher



Cat. No.	Overall Length	Weight (oz.)
89565	16" (406 mm)	12

Crimping Tools



Duct Slitting Tool

RISIN TOOLS	
 Blade used to scribe a line or pierce and enlarge holes in sheet metal. 	DS7
• Cushion-Grip handle for greater comfort and control.	
 Patented Tip-Ident[®] quickly identifies the type of too and tip orientation. 	I

Cat. No.	Overall Length	Weight (oz.)
DS7	12-5/8" (321 mm)	5.6

Sheet Metal Screws

Sheet Metal Fasteners



Zinc plated.

Self-Piercing

• Sheet metal screws with self piercing tips.

Slotted 1/4" hex head washer.

Cat. No.	Length	Driver Type	Size	Qty	Head Type
8910-3/4	3/4" (19 mm)	1/4" slotted	#8	1000	hex washer
8910-1/2	1/2" (13 mm)	1/4" slotted	#8	1000	hex washer

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Magnetic Hex Drivers

Magnetic Hex Drivers

- For driving sheet metal screws.
- Strong Rare Earth magnets for maximum holding.
- 1/4" hex shank with quick release groove.



8660

Cat. No.	Description	Weight (lbs.)	
86600	1/4" magnetic hex driver – 3 pack	.12	
86601	5/16" magnetic hex driver – 3 pack	.14	
86602	3/8" magnetic hex driver – 3 pack	.16	
10-Pack Punch Card for Individual Sale			
86600-10	1/4" magnetic hex driver	.43	
86601-10	5/16" magnetic hex driver	.49	
86602-10	3/8" magnetic hex driver	.57	

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Refrigeration Wrenches

Ratcheting Refrigeration Wrenches

- Fully reversible ratchet wrenches designed for refrigeration packing gland nuts and valve stem sockets.
- Also designed for beam-clamp installation.
- Wrenches are compact in size, with clearly marked sockets for four nut sizes.
- Quick-flip reversing lever permits instant ratchet reversal.
- Wrenches are ruggedly built and have polished chrome finish with smooth edges for comfort.

Nylon Tie Tensioning Tools

Nylon Tie Tensioning Tools

- Designed for work with ties rated at 120 - 250 lbs. (54 - 113 kg).
- Tensions up to 65 lbs. of force (30 kg).
- Maximum tie width of 15/32" (12 mm).
- Handle grips for comfort.
- Excess tie material is automatically cut off (Cat. No. 86571 only).

Cat. No.	Description	Weight (lbs.)
86570	nylon tie tensioning tool – manual	0.87
86571	nylon tie tensioning tool – automatic	1.01

Special-Purpose Knives

Serrated Duct Knife

- Cuts duct board and flexible duct.
- Double-edged knife regular and serrated.
- Cushion-grip handle for comfort.
- Includes puncture resistant nylon sheath with belt loop.

Cat. No.	Blade Steel	Blade Length	Weight (lbs.)
DK06	stainless steel	5.5" (140 mm)	0.53

Specialty Screwdrivers

11-in-1 Screwdriver/Nut Driver with Schrader® Valve Removal/Installation Bit

Additional Features:

- Versatile 11-in-1 tool for the professional.
- Includes unique style bit for installation/removal of common TR-4 Schrader® valves and aggressive thread extractor tip for backing out broken cores.
- Great for HVAC and other industrial applications.
- Cushion-Grip handle for greater torque and comfort.
- Blast finish bit tips provide a firm hold and reduce cam out.

Cat. No. Contains 32527 .44 3/8", 5/16" and 1/4" nut drivers, #1 and #2 Phillips, #1 square and #2 square, 1/4" and 3/16" slotted, Schrader® valve core removal/installation - extractor

All dimensions are in inches and (millimeters)

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				68310	
	Cat. No.	Socket Sizes	Length	Weight (lbs.)	
	68309	3/16" and 1/4" sq. x 1/2" and 9/16" hex	6-13/16" (173 mm)	.43	
	68310	3/16" and 5/16" sq. x 1/4" and 3/8" sq.	5-1/2" (140 mm)	.20	
	68310-24	24 pack of Cat. No. 68310	5-1/2" (140 mm)	4.70	









Sheet Metal Tools/HVAC





Schrader[®] is a registered trademark of Schrader International, Inc.

Weight (lbs.)





Setting Hammer



- Durable epoxy resin handle helps to protect neck from fraying and splintering if incorrectly struck or over struck.
- High-strength fiberglass shaft absorbs shock and keeps head tight.
- Cushioned, PVC grip bonded to handle.
- Special high-carbon steel, octagon shaped head with flat striking surface and rounded cross peen.

Cat. No.	Head Weight	Overall Length	Weight (lbs.)
820-16	16 oz. (454 g)	13" (330 mm)	1.6

Riveting Hammer



- High-carbon steel round head is forged and hardened.
- Flat striking surface with rounded cross peen.
- Straight-grain American hickory handle is stained and lacquered.

Cat. No.	Head Weight	Overall Length	Weight (lbs.)
821-12	12 oz. (340 g)	12-1/4" (311 mm)	1.1

Dead Blow Hammers



- Non-marring. Less rebound than regular hammers.
- 40% more driving power than other dead blow hammers.
 Increased surface protection.
- Applications: HVAC, metal fabrication, electronics, oil and mining, wood and metal assembly, automotive, aerospace.

Cat. No.	Head Weight	Overall Length	Weight (lbs.)
811-16	16 oz. (454 g)	12.5" (318 mm)	1.44
811-32	32 oz. (908 g)	18" (457 mm)	1.8





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