

# MARTINDALE

## *Motor Repair Hand Tools*

- Chamfering Tools, • Tamping Tools, • Hammers & Mallets, • Hand Grinders, • Wire Slot Cleaning Brushes, • Wire Strippers, • Slotting Files, • Wedge Drivers, • Wedge Removers, • And Many More.....



Reliable Solutions Today!



**MARTINDALE** • 1375 Hird Ave • Cleveland, OH 44107  
Phone (216) 521-8567 • Fax Local 521-9476 / USA & Canada (800) 344-9191  
E-Mail: [sales@martindaleco.com](mailto:sales@martindaleco.com)  
Web Site: [www.martindaleco.com](http://www.martindaleco.com)

# MARTINDALE

## Over 95 Years of Service.

Founded in 1913, Martindale has been able to field test many hand tools over the years for undercutting, chamfering, slot cleaning, winding, wire stripping, and many other motor applications. We bring to the Electric Motor Repair Industry only those tools our customers rated as SUITED BEST and USED MOST universally.



Martindale carries the largest variety of hand tools available for electric motor repair. Chamfering tools, coil tamping tools, hammers, mallets, hand grinders, wire brushes, wire strippers, slotting files, wedge drivers, wedge removers, and many more.

The following pages contain Hand Tools most needed in the industry. Martindale is carefully adding only those tools which bring years of both practical and reliable use to help you, our valued customer.

E-mail us quantities and catalog numbers at [sales@martindaleco.com](mailto:sales@martindaleco.com) for a prompt quotation of your needs. We appreciate the opportunity to be of service and look forward to meeting all of your electric motor repair tool requirements.



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# Chamfering Tools

## Commutator Slot Shaver II

Replaceable Blade



A new twist on an old design, this tool lightly chamfers commutator bar edges after undercutting. Pull it along the copper, shaving off the burs, then flip it over and do the edge of an adjacent bar.

The holder is designed for comfort, important when many bars need to be chamfered by one person! Made of high speed steel, the inexpensive & easily replaceable 45° inserts are available in .020", .040", & .060" thicknesses.

	Catalog Number
Slot Shaver II, complete with .020" thick HSS Insert	.SLSC2020
Slot Shaver II, complete with .040" thick HSS Insert	.SLSC2040
Slot Shaver II, complete with .060" thick HSS Insert	.SLSC2060
Net Weight 2.5 oz., Shipping Weight 1 lb.	

	Catalog Number
Insert Only, H.S.S., .020" thick; For Slot Shaver II	.SLSC2B020
Insert Only, H.S.S., .040" thick; For Slot Shaver II	.SLSC2B040
Insert Only, H.S.S., .060" thick; For Slot Shaver II	.SLSC2B060
Net Weight 1 oz., Shipping Weight 1 lb.	

## Commutator Slot Shaver

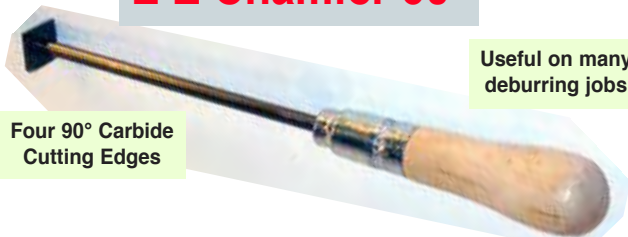


The Commutator Slot Shaver is a simple little hand tool to lightly chamfer the edges of commutator bars after undercutting. Pull it along the copper, shaving off the burs — flip it over and do the other edge.

Made of hardened high-speed steel; it can be quickly resharpened on a grinding wheel.

	Catalog Number
Slot Shaver	.SLSC73
Net Weight 3 oz., Shipping Weight 6 oz.	

## E-Z Chamfer 90°



Useful on many deburring jobs

Four 90° Carbide Cutting Edges

Specially ground 4 cornered carbide insert chamfers copper on both sides of commutator slots after undercutting. Flat sides of the insert can be used for scraping, deburring and chamfering corners on many parts. When insert is dull on all cutting edges, it is easily replaced.

	Catalog Number
E-Z Chamfer 90° complete with carbide insert	.SLSC74
Replacement Carbide Insert only (90°)	.SLSC745
Net Weight 4 oz., Shipping Weight 8 oz.	

## E-Z Chamfer 60°



Three 60° Cutting Edges, for thin mica

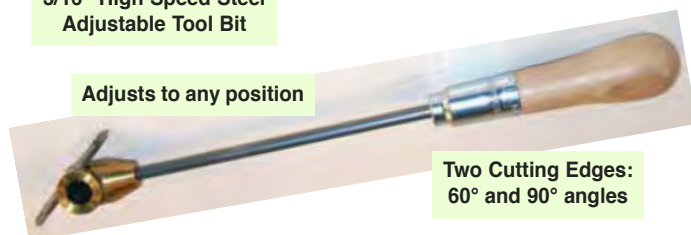
Special ground, 3 cornered insert, chamfers copper on both sides of commutator slots after undercutting. Tool is originally supplied with a H.S.S. insert. An optional Carbide replacement insert is available.

The offset blade holder provides knuckle clearance when deburring. This holder can be retracted into the handle along with extra inserts, for easier storage when not in use. The insert is easily replaced when it becomes dull on all three corners.

	Catalog Number
E-Z Chamfer 60° complete with H.S.S. Insert	.SLSC74PT
Replacement Carbide Insert only (60°)	.SLSC745PT
Net Weight 4 oz., Shipping Weight 6 oz.	

## Adjustable Slot Scraper

3/16" High Speed Steel Adjustable Tool Bit



Adjusts to any position

Two Cutting Edges: 60° and 90° angles

For removing fins of mica and burs of copper from the edges of commutator bars after undercutting with a U-shaped saw.

Do not use for undercutting mica because any tool that rakes out the mica may injure the insulation by tearing out mica slivers and thus permitting dirt to work down into the insulation.

	Catalog Number
Slot Scraper	.SLSC69
Extra Blade	.SLSC694
Net Weight 8 oz., Shipping Weight 12 oz.	



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# Commutator Slotting Files

If you have only a few motors, undercut your mica with handy Commutator Slotting Files. They do the work rapidly, are easy to use and leave a 60° V-shaped slot.

They are made in the two styles shown below.



8", Double End, Curved

Net Weight 2 oz.



Net Weight 2 oz.

Single End with handle

	Catalog Number
8", Double End, Curved . . . .	SLFL08
Single End, with handle . . . .	SLFL01

# Mini-Bar Mica Hand Saw

This hand-held undercutting saw is a handy way of accurately undercutting those small commutators where the use of a powered under-cutter is too awkward or cannot be justified.

This tool uses replaceable blades which are ground to specific thicknesses so that the proper width undercut can be made. The blade is reversible so that it can be used for either a "Push" or a "Draw" cut.

Replaceable blades are available in thicknesses of .015", .020", .026", .030", .035", .040", and .043".

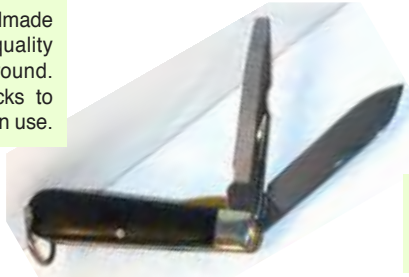


	Catalog Number
Mini-Bar Mica Hand Saw, complete with tool holder and one blade (specify thickness) . . . . .	SLSC (Plus Thickness)
Replacement Blade (Specify Thickness) . . . . .	SLSCB (Plus Thickness)

# Electrician's Knife

This is not an ordinary pocket knife. It is a quality tool guaranteed to satisfy the exacting demands of workmen accustomed to rugged and dependable performance.

**No. 1 Knife** — Handmade from very highest quality steel. Hand ground. Screwdriver blade locks to prevent closing when in use.



3-3/4" long closed.  
6-1/2" long open.  
Net Weight 5 oz.

	Catalog Number
No. 1 Electrician's Knife . . . . .	ELKN01

# Orange Sticks

	Catalog Number
Orange Sticks, Package of 12 . . . . .	MARTOS
Net Weight 1 oz. (Pkg. of 12)	

Orange Sticks (called so because they were originally made from orange wood) can be used for forming, shaping and positioning fine magnet wire where fingers can't reach or work comfortably. Also used for opening and holding open, contacts on relays and the such. These hardwood, non conductive, sticks have tapered ends for prying open contacts and can be trimmed and/or sharpened with a knife.



Approximately 3/16" x 7"

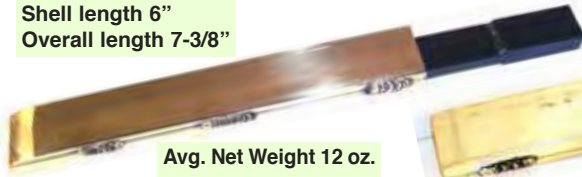


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# Wedge Drivers

## Two Models: Standard & Heavy-Duty

**Standard Model:**  
Shell length 6"  
Overall length 7-3/8"



Avg. Net Weight 12 oz.

**Heavy-Duty Model:**  
Shell length 10"  
Overall length 12-1/2"



Avg. Net Weight 1 lb. 12 oz.

A Heavy-duty Wedge Driver is available in addition to the Standard model.

The large steel head of the Heavy-duty tool allows it to be used as a slide hammer, or to drive it with the palm of the hand.

Outer shells of both are made of brass to avoid rust; driving pins are made of steel.

Price schedule below shows sizes available.

### Standard Model

Size:	Catalog Number	Size:	Catalog Number
1/32" x 3/8" . . . . .	WGDR70S22	1/8" x 5/8" . . . . .	WGDR70S27
1/16" x 3/8" . . . . .	WGDR70S23	1/8" x 7/8" . . . . .	WGDR70S28
1/16" x 5/8" . . . . .	WGDR70S24	3/16" x 3/8" . . . . .	WGDR70S30
3/32" x 5/8" . . . . .	WGDR70S25	3/16" x 5/8" . . . . .	WGDR70S29

### Heavy-duty Model

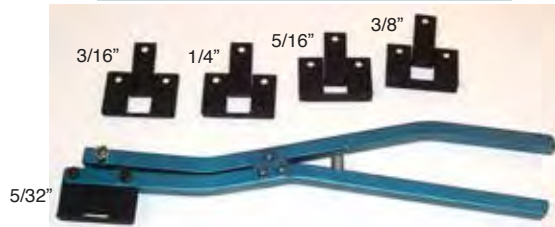
Size:	Catalog Number	Size:	Catalog Number
1/32" x 3/8" . . . . .	WGDR70H22	1/8" x 1/2" . . . . .	WGDR70H26
1/16" x 3/8" . . . . .	WGDR70H23	1/8" x 5/8" . . . . .	WGDR70H27
1/16" x 5/8" . . . . .	WGDR70H24	1/8" x 7/8" . . . . .	WGDR70H28
3/32" x 5/8" . . . . .	WGDR70H25	3/16" x 5/8" . . . . .	WGDR70H29

## Coil Tamping Tools



Size:	Catalog Number
3/16" x 7/8" . . . . .	CTTLD584
5/16" x 1-1/4" . . . . .	CTTLD585
3/8" x 2" . . . . .	CTTLD586
3/8" x 4" . . . . .	CTTLD587

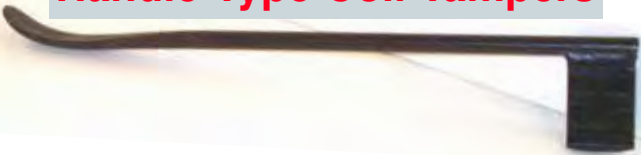
## Coil Tamping Pliers



No more struggling with stator or armature windings that cannot be tamped with conventional tamping tools. Designed to tamp the windings in long bore or small bore stators where restricted space does not allow the use of conventional tamping tools.

A set consists of the pliers and 5 different jaws machined from steel bar stock. The jaws are easily changed to fit your special needs and may be purchased as a set or individually.

## Handle-Type Coil Tampers



These Coil Tampers have the same tamping faces as the Coil Tamping Tools above but are mounted on 12" handles. The coils can be either pried or hammered into place. They are particularly advantageous on small stators.

The end of the handle is formed into a spoon shape for pressing the ends of the coils into place.

	Catalog Number
No. 1 Handle-Type Coil Tamper, 3/16" x 7/8" face . . . . .	CTTL664
No. 2 Handle-Type Coil Tamper, 5/16" x 1-1/4" face . . . . .	CTTL665
No. 3 Handle-Type Coil Tamper, 3/8" x 2" face . . . . .	CTTL666

	Catalog Number
Tamping Pliers and Jaws (Set of 5) . . . . .	ICTTPJ15
Tamping Pliers only . . . . .	ICTTP
Jaws (Set of 5) 5/32" to 3/8" . . . . .	ICTTPJ
#1 Jaws 5/32" width . . . . .	ICTTPJ01
#2 Jaws 3/16" width . . . . .	ICTTPJ02
#3 Jaws 1/4" width . . . . .	ICTTPJ03
#4 Jaws 5/16" width . . . . .	ICTTPJ04
#5 Jaws 3/8" width . . . . .	ICTTPJ05

## Armature Wedge Remover



Blade width from 3/32" at point to 1/8" at back end. Overall length is 9"

	Catalog Number
Armature Wedge Remover . . . . .	WGRM71
Net Weight 11 oz.	

## Internal Coil Tampers



**Bent Handle Type** — Similar straight handle type available for assembled coils.

When using these internal Coil Tampers the operator does not put his hand inside the stator, as the Tamper uses the leverage principle and does away with most of the hammering. They are about 9" long and made of tough, hardened, high-grade steel.

	Catalog Number
Internal Coil Tamper, Bent Handle . . . . .	CTTLB
Internal Coil Tamper, Straight Handle . . . . .	CTTLS
Net Weight 8 oz.	



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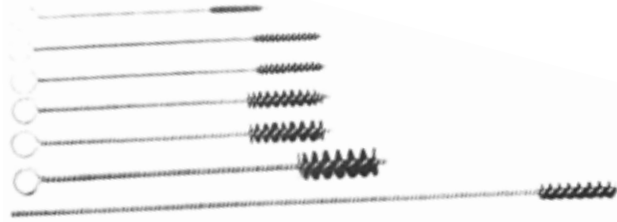
# Slot Cleaning Brushes

No.	Brush Dia. / Length	Overall Length	Catalog Number
2510	1/4" x 2"	10"	<a href="#">SCLB2510</a>
3110	5/16" x 2-1/2"	10"	<a href="#">SCLB3110</a>
3812	3/8" x 2-1/2"	12"	<a href="#">SCLB3812</a>
5012	1/2" x 2-1/2"	12"	<a href="#">SCLB5012</a>
5018	1/2" x 2-1/2"	18"	<a href="#">SCLB5018</a>
5024	1/2" x 2-1/2"	24"	<a href="#">SCLB5024</a>
5034	1/2" x 2-1/2"	34"	<a href="#">SCLB5034</a>
6220	5/8" x 3"	20"	<a href="#">SCLB6220</a>
6230	5/8" x 3"	30"	<a href="#">SCLB6230</a>

Especially handy for cleaning burnout and chemical stripping residue in rotors and stators. **7**

Carbon steel wire brush (.006 dia. wire) is stiff enough to clean stubborn residue, but soft enough not to remove iron.

Long enough to reach those hard to get to places.



# Winder's Shears

These high quality shears are made by Clauss Cutlery. All three are hot hammer-forged of high carbon cutlery steel. Double plated chrome over nickel, with stainless steel tension adjusting screw, for maximum protection from rust.

No. 925 — Multi-purpose compact cutting tool for wire splicing or electronic work. Cuts all medium gauge wires, insulation materials, etc. Overall length is 5" and cutting length is 1-3/4".



No. 4248 & 4268 — Similar to No. 925 but larger and for heavier duty. Overall length approximately 8" and cutting length No. 4248 is 2" & Model 4268 is 2-3/4".



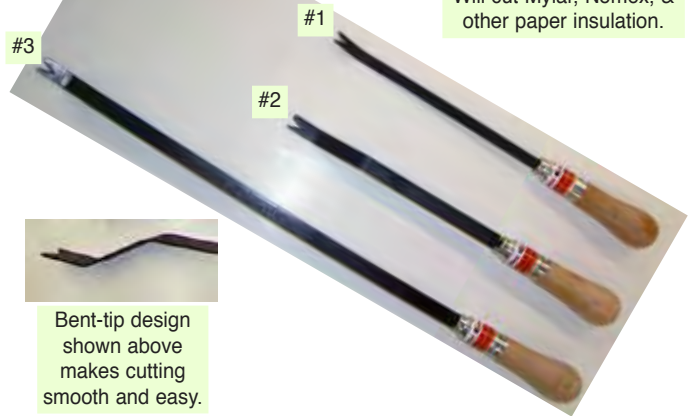
No. TC-4-1/2 — These insulation shears are perfect for cutting cloths of glass, cambric, etc. After starting a cut into the insulation, these shears can be easily "pushed" into the material to quickly form the shape needed. Overall length is 4-1/2" and cutting length is 1-1/4".

	Catalog Number
No. 925 Winder's Shears	<a href="#">.WISH925</a>
No. 4248 Winder's Shears	<a href="#">.WISH4248</a>
No. 4268 Winder's Shears	<a href="#">.WISH4268</a>
No. TC-4-1/2 Winder's Shears	<a href="#">.WISHTC4</a>

# Insulation Trimmers

Martindale can resharpen this tool for you.

Will cut Mylar, Nomex, & other paper insulation.



Bent-tip design shown above makes cutting smooth and easy.

Martindale Paper & Insulation Trimmers will cut Mylar, Nomex, and other paper insulation clean and parallel to the stator.

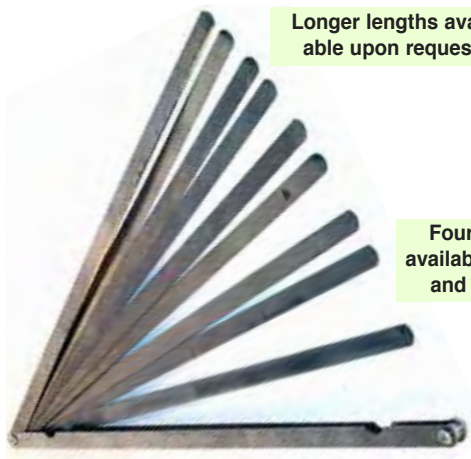
Available in three lengths to suit various size stators. They are available individually or in a set of all three.

These trimmers can be sent to Martindale for quality resharpening, saving you time and money.

	Catalog Number
Trimmers Set of (3), Insulation, Paper	<a href="#">.SLSCPI10</a>
Trimmer #1, Insulation, Paper, (11.5" O.A.L. x 3/8" W.)	<a href="#">.SLSCPI1</a>
Trimmer #2, Insulation, Paper, (11.5" O.A.L. x 1/2" W.)	<a href="#">.SLSCPI2</a>
Trimmer #3, Insulation, Paper, (20" O.A.L. x 1/2" W.)	<a href="#">.SLSCPI3</a>

# Armature Air Gap Gauge

Longer lengths available upon request.



Four different sets available, including 24" and 36" long sets.

The Model 16-U is naturally still our most popular model but we've had so many requests for still longer gauge sets, we have decided to make this gauge available in 24" and 36" long sets.

These gauges are universal in that their blades used singly or in combination, allow almost any size air gap to be measured.

The Model 16-D is designed for use on smaller diameter motors or where access is otherwise limited. Its narrower blades allow it access in smaller radii or where the inspection opening is restricted.

No.	No. of Blades	Blade Width	Blade Length	Blade Thicknesses (In Thousandths)	Catalog Number
16-U	13	1/2"	16"	3, 4, 5, 6	<a href="#">AGGG16U</a>
24-U	13	1/2"	24"	8, 10, 12, 15	<a href="#">AGGG24U</a>
36-U	13	1/2"	36"	25, 32, 40, 50, 62	<a href="#">AGGG36U</a>
16-D	9	1/4"	16"	2, 3, 4, 5, 6, 8, 10, 15, 25	<a href="#">AGGG16D</a>



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## Lamination Tooth Straighteners



□ Designed with square end to permit use of socket or box end wrench to apply torque.

□ Teardrop shaped blade adds strength and minimizes flexing when using full length of tool.

□ Superior strength and leverage to any similar tools on the market.

□ Available in three sizes to fit stator slots up to 150 h.p.

Overall Length: 8", 9" and 10" respectively.

Blade Height	Wrench Fitting	Catalog Number
1/2"	3/8" Sq.	ICTTLS1
5/8"	1/2" Sq.	ICTTLS2
3/4"	3/4" Sq.	ICTTLS3
Complete set of 3		ICTTLS

## Winder's Horn

This "winder's friend" is especially helpful for forming and shaping the ends of stator coils and armature windings.

The tool is made of a synthetic fiber material which will not damage the insulating film on magnet wire. Approximately 12" long and a 1/2" thick.

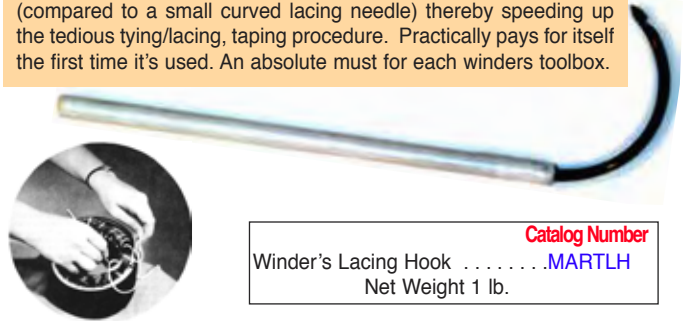


Winder's Horn ..... **Catalog Number** **MARTWH**  
Net Weight 2 oz.

## Winder's Lacing Hook

An economical, time saving tool which speeds up the time consuming job of securing soft magnet wire coils.

The pencil size handle gives the winder better control of the tool (compared to a small curved lacing needle) thereby speeding up the tedious tying/lacing, taping procedure. Practically pays for itself the first time it's used. An absolute must for each winder's toolbox.



Winder's Lacing Hook ..... **Catalog Number** **MARTLH**  
Net Weight 1 lb.

## Hand Held Wire Stripper

Abisofix<sup>®</sup> is a portable electric wire stripping machine that is handy and lightweight. It provides neat stripping of round magnetic copper wires in a variety of applications.

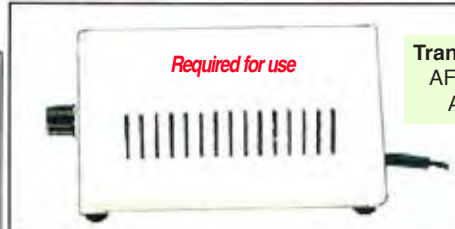
The drive in the Abisofix<sup>®</sup> instrument is a series wound motor of 16-42V. **A transformer is required for use, and available in either 115V or 230V.**



**Complete Units:**  
AFST1, 3 or 5



**Replacement Heads:**  
AFSTMK1, 3 or 5



**Transformer Units:**  
AFTRAFO115 or  
AFTRAO230

**Complete Units:** **Catalog Number**  
Wire Stripper, For Wire .00787 - .03149" or AWG 32-20 . **MAWSAFST1**  
Wire Stripper, For Wire .0240 - .07870" or AWG 22-12 . **MAWSAFST3**  
Wire Stripper, For Wire .04720 - .15750" or AWG 16-5 . **MAWSAFST5**  
Net Weight: 1 lb. 4 oz.

**Replacement Heads:** **Catalog Number**  
Head Only, For AFST1 . . . . . **MAWSAFSTMK1**  
Head Only, For AFST3 . . . . . **MAWSAFSTMK3**  
Head Only, For AFST5 . . . . . **MAWSAFSTMK5**  
Net Weight: 1 lb.

**Transformer (Required):** **Catalog Number**  
115V. . . . . **MAWSAFTRAFO115**  
230V . . . . . **MAWSAFTRAFO230**  
Net Weight: 4 lbs.



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# Martindale Automatic Wire Stripper

Makes Wire Stripping Fast and Easy



Martindale Automatic Wire Strippers are always ready for use. They require no "cocking" or setting.

Their triple action of clamping the wire, cutting the insulation, and stripping it, is automatically timed and performed with one squeeze on the handles. Length of strip is regulated by amount of wire extending beyond the blades. Maximum strip is 7/8"; for longer, just repeat process. Wire size is shown beneath each stripping hole.

After the stripping action, a partial release of pressure on the handles opens jaws and wire is removed. Full release of pressure returns the tool to the starting position, ready for next strip.

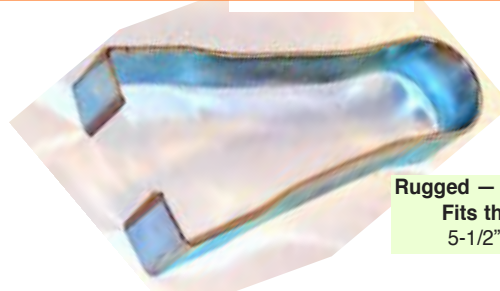
Blades are interchangeable and replaceable.

Model	Sizes	Catalog Number	
		Strippers	Extra Blade Sets
No. 0-01	16 to 26 gauge, 6 stripping holes	MAWS001	MAWS001B
No. 02	10 to 22 gauge, 6 stripping holes	MAWS02	MAWS02B
No. 1-2	10 to 18 gauge 4 stripping holes	MAWS12	MAWS12B
No. 3	8 to 12 gauge, 3 stripping holes	MAWS3	MAWS3B
Net Weight 13 oz., Shipping Weight 2 lb.			

## Martindale Handy Wire Stripper

This Stripper is the answer to suggestions made by Electricians who use such a tool for long periods. It is large enough to fit the hand and the rounded edges reduce fatigue and irritation.

It is made of the best grade spring steel and the cutting edges are easily resharpened.

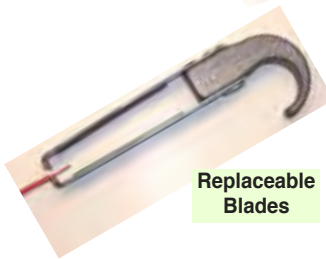


Rugged — Comfortable  
Fits the hand.  
5-1/2" Length

	Catalog Number
Handy Wire Stripper (Net Weight 4 oz.)	WRST72

## Wire Skinner and Straightener

The blades of the Wire Skinner and Straightener are easily removable for resharpening. Sets of new blades can be attached when the old ones are worn out.



Replaceable  
Blades



	Catalog Number
Wire Skinner and Straightener (Net Weight 3 oz.)	WSST01
Extra Blades (Set) (Net Weight 1 oz.)	WSST01B

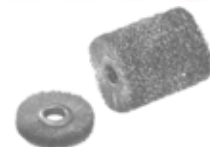
## Twin Wheel Wire Stripper

Strips wire from 8 to 46 AWG.

The abrasive method of stripping wire utilizes either wire or fiberglass brushes to abrade the insulation off the conductor. This type of stripping is both quicker and less damaging to the wire than scraping processes. This unit can handle round, square, rectangular or oval shaped magnet wire and also standard wire with most common types of insulation. This tool also removes oxides from component leads quickly and easily to promote better soldered connections. A built-in guard affords protection from fingers coming in contact with the wire of fiberglass wheels.



Description	Catalog Number
Twin Wheel Stripper, complete with fiberglass wheels, 115 VAC, 50/60 Hz.	MAWS1A
Twin Wheel Stripper, complete with fiberglass wheels, 230 VAC, 50/60 Hz.	MAWS1B
Net Weight 17 lbs.	
Description (Brushes sold separately)	Catalog Number
Wire Brushes, .003 Bristle, 1-1/2" O.D., for fine wire, Set of 10 brushes	MAWS1003
Wire Brushes, .004 Bristle, 1-1/2" O.D., for general purpose wire, Set of 10 brushes	MAWS1004
Wire Brushes, .006 Bristle, 1-1/2" O.D., for fabric and enamel insulated wire, Set of 10 brushes	MAWS1006
Wire Brushes, .009 Bristle, 1-1/2" O.D., for heavy insulation, Set of 10 brushes	MAWS1009
Fiber Glass Wheel, General Purpose 25 to 46 AWG Wire, per pair	MAWS1FGW



Wire Brushes for general purpose to heavy-duty wire stripping.



Fiberglass cylindrical brushes for fine wire stripping.



**MARTINDALE** • 1375 Hird Ave • Cleveland, OH 44107  
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 E-Mail: sales@martindaleco.com  
 Web Site: [www.martindaleco.com](http://www.martindaleco.com)

## Martindale Bearing Tool Sets



**No. 1-a  
Bearing  
Tool Set**

The No. 1-a Bearing Tool Set above is used to insert or extract sleeve bearings of motors or other machines. Capacity is 1/2" to 1-1/16" inside diameter. Included with each set are 2 bearing supports for different motor frames and 9 taps for different diameter bushings or bearings.



**No. 2  
Bearing  
Tool Set**

The No. 2 Bearing Tool Set above is a heavy-duty unit for inserting or extracting sleeve bearings or bushings from 25/64" to 1-5/8" inside diameter. It is made of hardened steel.

The set consists of 3 bearing supports, 3 reducing studs, and 9 taps in the hinge-top box as shown.

Without scoring the walls, the Tool will exert the strong, steady pressure necessary to seat oversized bearings.



**Blind Bushing Attachment**

This simple attachment, made of tough forged steel, is sold with either of the above sets or separately. It quickly screws on the end of the Tool Shaft and its long fingers reach down inside a blind bushing, hook over the end to remove the bushing when handles are turned. Removes bushings from 1/2" to 1-1/16" I.D.

	<b>Catalog Number</b>
No. 1-a Bearing Tool Set .....	BGTL1A
Net Weight 5 lbs., Shipping Weight 5-1/2 lbs.	
No. 2 Bearing Tool Set .....	BGTL2
Net Weight 8 lbs., Shipping Weight 9 lbs.	
Blind Bushing Attachment .....	BGTL3
Net Weight 1 lb., Shipping Weight 2 lbs.	

## Hand Knurling Tool

**For shaft diameters from approximately 1/8" to 1-1/8"**

Knurling expands the diameter of a shaft from approximately .001" to .010", to allow for a tighter press fit of a bearings inner race. The self-centering design of this three knurling wheel tool distributes the pressure evenly. It's portable in nature and can be taken out into the field, saving tear-down time and expense returning equipment to the shop to perform this operation on a lathe.



	<b>Catalog Number</b>
Hand Knurling Tool .....	.MARTHKT
Net Weight 1 lb. 8 ozs., Shipping Weight 2 lbs.	

## Repairman's Stethoscope

This tool provides a low cost method of locating and identifying worn motor and equipment bearings and bushings, worn gears, and other trouble spots which can be traced by sound. The 2-piece probe reaches 11-3/4".



	<b>Catalog Number</b>
Repairman's Stethoscope .....	.MARTRS
Net Weight 6 ozs., Shipping Weight 1 lb.	



## Two Types of Faces: Rawhide and Nylon

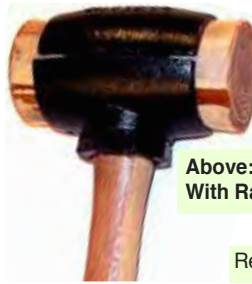
Rawhide or Nylon Faced Hammers are a necessity for any electrical repair shop or machine shop. Carefully balanced, they permit striking a controlled and powerful blow. Hammers can be purchased with either Rawhide or Nylon Faces in malleable iron heads. Handles are high-grade hickory.

**Rawhide Faces** — Made of top-grade water-buffalo hide, unsurpassed for resiliency and ability to transmit hard effective blows without damage to delicate surfaces; will not chip or shear, are non-sparking, and stand up under severe conditions.

**Nylon Faces** — The long-wearing tough qualities of Nylon make these faces very practical where an all-around soft-faced hammer is needed. They will not chip or mushroom, are resistant to oil, gasoline, etc., and are virtually indestructible.

Anyone can change the faces of these Hammers in a matter of seconds. It is necessary only to loosen the large nut under the head, slide the bottom half of the head down, and the faces are easily removed and replaced. When the nut is tightened, the jaws hold the faces in a vise-like grip.

**Note** — Diameters shown for Nylon Faces are the cavities into which the Faces fit. Striking surfaces are 1/4" larger.



Jaw-Head Hammers

Above: With Rawhide Faces

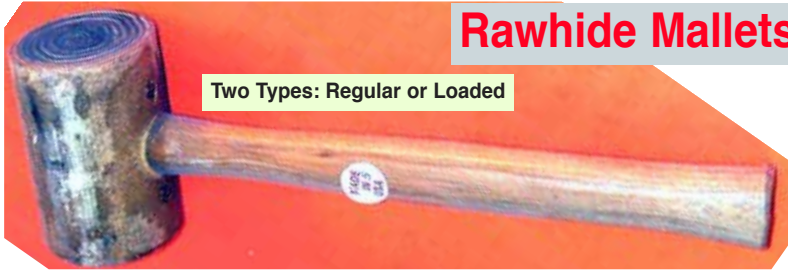


Above: With Nylon Faces

Replacement handles available

Jaw-Head Hammers			Catalog Number	
No.	Diam.	Net Wt.	With Rawhide Faces	With Nylon Faces
J-1	1-1/4"	1-1/2 lbs.	HAMMJ1R	HAMMJ1N
J-2	1-1/2"	2 lbs.	HAMMJ2R	HAMMJ2N
J-3	1-3/4"	2-3/4 lbs.	HAMMJ3R	HAMMJ3N
J-4	2"	4 lbs.	HAMMJ4R	HAMMJ4N
J-5	2-3/4"	6-1/2 lbs.	HAMMJ5R	HAMMJ5N

Extra Faces		Catalog Number	
No.	Diam.	With Rawhide Faces	With Nylon Faces
1	1-1/4"	HAMMJ1RF	HAMMJ1NF
2	1-1/2"	HAMMJ2RF	HAMMJ2NF
3	1-3/4"	HAMMJ3RF	HAMMJ3NF
4	2"	HAMMJ4RF	HAMMJ4NF
5	2-3/4"	HAMMJ5RF	HAMMJ5NF



## Rawhide Mallets

Two Types: Regular or Loaded

Rawhide Mallets are designed for lighter duty work than the Hammers shown above. They are available in two types: Regular and Loaded.

**Regular Mallets** — are lightweight, perfect for gentle tapping or sharp light blows on precision operations.

**Loaded Mallets** — are weighted with strip lead between the rawhide layers in the center of the head where it is never seen or used as a striking surface. The Loaded Mallet weighs about twice the Regular Mallet at little extra cost.

Regular Rawhide Mallets				
No.	Diam.	Length	Net Weight	Catalog Number
0	1"	2"	1/8 lbs.	HAMM00
1	1-1/4"	2-1/2"	1/4 lbs.	HAMM01
2	1-1/2"	3"	3/8 lbs.	HAMM02
3	1-3/4"	3-3/8"	1/2 lbs.	HAMM03
4	2"	3-1/2"	3/4 lbs.	HAMM04
5	2-3/4"	4-1/2"	1-3/8 lbs.	HAMM05
6	2-3/4"	4-3/4"	1-1/2 lbs.	HAMM06

Loaded Rawhide Mallets				
No.	Diam.	Length	Net Weight	Catalog Number
7	1-1/4"	2-1/2"	1/2 lbs.	HAMM07
8	1-1/2"	3"	3/4 lbs.	HAMM08
9	1-3/4"	3-3/8"	1 lbs.	HAMM09
10	2"	3-1/2"	1-1/4 lbs.	HAMM10
11	2-3/4"	4-1/4"	2-1/2 lbs.	HAMM11



Made in USA

Affordably Priced

## trucothane™ DEAD BLOW Hammers

The original is back and it's better than ever. From the same people who developed and introduced the original soft faced, one piece hot cast hammer with dead blow heads. The shot filled head provides dead blow action for sustained impact, maximum power and striking force. The one piece construction has no exposed metal on the head or handle.

These high quality custom formulated hot cast polyurethane hammers will not mark or spark and outlast other rawhide, rubber, nylon, and other plastic type heads many times over.

Model No.	Standard Models					Slimline Models				Sledge Models		
	0	1	2	3	4	S0	S1	S2	S3	7	12	14
Catalog Number	HAMMT0	HAMMT1	HAMMT2	HAMMT3	HAMMT4	HAMMTS0	HAMMTS1	HAMMTS2	HAMMTS3	HAMMT7	HAMMT12	HAMMT14
Face Diameter	1-1/4"	1-5/8"	2"	2-1/4"	2-5/8"	7/8"	1-1/4"	1-1/2"	1-5/8"	2-3/4"	3-1/4"	3-1/4"
Head Length	3-1/8"	3-3/4"	4-1/8"	4-5/8"	5-3/8"	3-1/8"	4-1/4"	4-1/4"	5-1/4"	7"	8"	8"
Overall Length	10"	11"	12-3/4"	14"	15-1/4"	10"	10-1/2"	12"	13"	20"	30"	36"
Net Weight	10 oz.	1-1/8 lb.	1-1/3 lb.	2-5/8 lb.	3-1/4 lb.	6 oz.	14 oz.	1-1/8 lb.	1-3/8 lb.	5-1/2 lb.	10-1/2 lb.	12 lb.

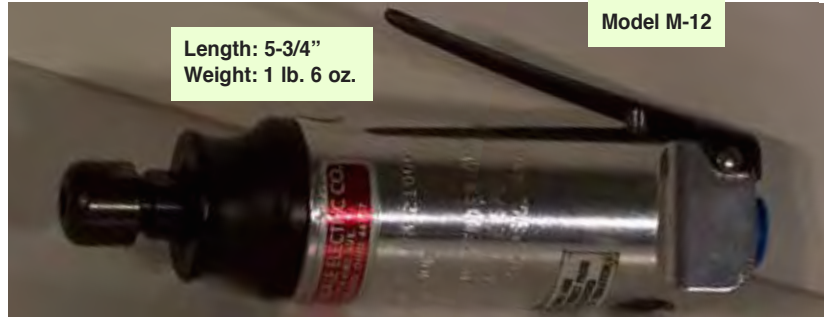
## Martindale Production Air Grinder

Model M-12 air grinder is designed for hard usage such as encountered in foundries, etc. It will stand up to steady production work with rotary burs and with mounted grinding wheels or points up to 1-1/2" diameter. Turns 18,000 r.p.m., 1/2 h.p. at 90 PSI air pressure. Uses approximately 18-22 CFM.

This hand-held air grinder has a built-in speed regulator, specially designed nose piece for firm easy grip, 1/4" female N.P.T.F. air inlet, 1/4" collet, and the necessary wrenches as standard equipment.

Air exhaust is at the front of the air grinder around the spindle, where it effectively blows grinding dusts away from the work and operator.

OPTIONAL EQUIPMENT: 1/8" reducer can be substituted for 1/4" collet at no extra charge.



Length: 5-3/4"  
Weight: 1 lb. 6 oz.

Model M-12

	<b>Catalog Number</b>
Model M-12 Air Grinder, complete with 1/4" collet and wrenches	.AGRD1814
1/8" Reducer (Optional Equipment)	.AGRDC18
Automatic Air Filter-Lubricator (See Description Below)	.FILL01

## No. 38-A Carbide Rotary Bur Kit

The No. 38-A Kit includes a high-speed precision manufactured air grinder with 1/4" collet. This grinder is similar to the one above except it's operating speed is 21,000 r.p.m. to accommodate the 5 solid carbide 1/4" diameter rotary burs included with the kit.

Burs included are RB4, RC4, RD4, RH4, and RJ4; all are 1/4" diameter cutting surface and shank, of five different shapes. All are "double-cut" making them suitable for use on either extremely hard or relatively soft materials. Burs can be re-ordered by number and are listed on page 30.

The high quality grinder is manufactured for Martindale by ARO® and is a compact 5-3/4" long; lightweight 1 lb., 6 oz.; and high speed 21,000 r.p.m. Recommended air pressure is 70-90 PSI, air inlet is 1/4" female N.P.T.F.



	<b>Catalog Number</b>
Carbide Rotary Bur Kit No. 38-A, Complete in storage box	.CABU38A
Automatic Air Filter-Lubricator (See Description Below)	.FILL01
Net Weight 2 lbs. 6 ozs., Shipping Weight 4 lbs.	

## Automatic Air Filter-Lubricator

Highly recommended for use with any air powered tools. This Fog Type Filter-Lubricator is designed to remove dirt, pipe scale, and most liquid aerosols which cause wear and premature failure. It also will deliver the right amount of lubrication to extend the service life of your air tools.

Consists of 2 die cast bowls with transparent nylon sight gauges, a 40 micron filter element, and a connecting nipple.



	<b>Catalog Number</b>
Automatic Air Filter-Lubricator	.FILL01
Air Hose, 10 ft. long; complete with quick connector	.AIRH10



Model 10  
22,000 r.p.m.  
1/10 h.p.  
115 V. A.C.-D.C.

Dimensions: 9-3/4" long x 2-3/4" diam.

## Martindale Hand Grinder

— built by DUMORE —

Model 10 is ideal for full-shift duty in the tool room or in production bench grinding, de-burring, etc. It is forced-air cooled, and two precision bearings in steel seats assure positive rigidity. Model 10 uses high-speed steel or carbide burs up to 3/8" diam., or mounted wheels up to 1" diam. Has 1/4" collet and 1/8" reducing sleeve.

Model 10 is U/L approved and sold with our guarantee of satisfaction.

	<b>Catalog Number</b>
Model 10 Grinder with 1/4" collet and 1/8" reducing sleeve	.DUMG10
Net Weight 3-1/2 lbs., Shipping Weight 5 lbs.	



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