# ARTINDALE 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........





# Over 90 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 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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## **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 IISLSC2B020
Insert Only, H.S.S., .040" thick; For Slot Shaver IISLSC2B040
Insert Only, H.S.S., .060" thick; For Slot Shaver IISLSC2B060
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.

## E-Z Chamfer 90°



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	Cata	loa	Nun	nber
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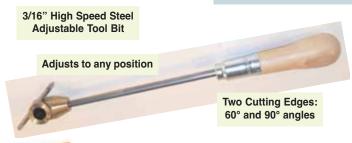


Special ground, 3 cornered insert, chamfers copper on both sides of commutator slots after undercutting. Tool is originally supplied with a H.S.S. insert. An optional Carbide replacement insert is available.

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

## Adjustable Slot Scraper



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
Extra BladeSLSC694
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.



### Catalog Number

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

## Single End with handle

## **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 undercutter 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

## **Electrician's Knives**

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.



These are not ordinary pocket knives. They are quality tools guaranteed to satisfy the exacting demands of workmen accustomed to rugged and dependable performance.

No. 3 Linesman's Folding Skinning Knife — Highest quality materials, large shackle.

4-3/8" long closed. 7-1/2" long open. Net Weight 5 oz.



## Catalog Number

# **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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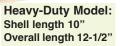
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03/06

## **Wedge Drivers**

Two Models: Standard & Heavy-Duty

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



Avg. Net Weight 12 oz. 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.

## Standard Model

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

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

Price schedule below shows sizes available.

## **Heavy-duty Model**

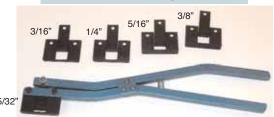
Catalog Number	Size:	Catalog Number
		WGDR70H26
	-	WGDR70H27
		WGDR70H28
		WGDR70H29
	WGDR70H22 WGDR70H23 WGDR70H24	WGDR70H23   1/8" x 5/8"

## **Coil Tamping Tools**



Size:		Catalog Numbe
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**



# **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

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

or hammered into place. They are particularly advantageous on small sta-

	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

No more struggling with stator or armature windings that cannot be tampered 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.

	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**



Catalog Number	7
Armature Wedge Remover	
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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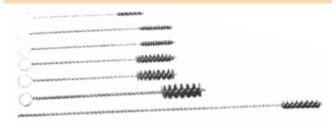
# **Slot Cleaning Brushes**

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

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

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	WISH925
No. 4248 Winder's Shears	WISH4248
No. 4268 Winder's Shears	WISH4268
No. TC-4-1/2 Winder's Shears	WISHTC4

## **Armature Air Gap Gauge**



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. of	Blade	Blade	Blade Thicknesses	
No.	Blades	Width	Length	(In Thousandths)	Catalog Number
16-U	13	1/2"	16"	3, 4, 5, 6	AGGG16U
24-U	13	1/2"	24"	8, 10, 12, 15	AGGG24U
36-U	13	1/2"	36"	25, 32, 40, 50, 60	AGGG36U
16-D	9	1/4"	16"	2, 3, 4, 5, 6, 8, 10, 15, 25	AGGG16D

# **Lamination Tooth Straighteners**



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

- → 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.

Blade Height	Wrench Fitting	Catalog Number
1/2"	3/8" Sq.	ICTTLTS1
5/8"	1/2" Sq.	ICTTLTS2
3/4"	3/4" Sq.	ICTTLTS3
Complet	ICTTLTS	



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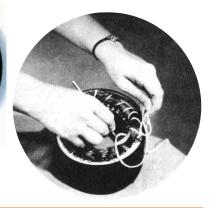
# **Winder's Lacing Hook**

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 winders toolbox.

Net Weight 1 lb.





## Winder's Horn

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

Winder's Lacing Hook . . .

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.

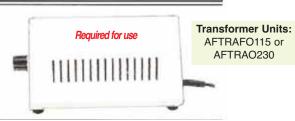
# **Hand Held Wire Stripper**

Abisofix<sup>®</sup> is a portable wire stripping machine with 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: Wire Stripper, For Wire .00787 - .03149" or AWG 32-20 . .MAWSAFST1 Wire Stripper, For Wire .00240 - .07870" or AWG 22-12 . .MAWSAFST3 Wire Stripper, For Wire .04720 - .15750" or AWG 16-5 . . .MAWSAFST5 Net Weight: 1 lb. 4 oz.

Replacement Headts:	Catalog Number
	MAWSAFSTMK1
Head Only, For AFST3	MAWSAFSTMK3
Head Only, For AFST5	MAWSAFSTMK5
Net We	eight: 1 lb.

Transforner (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.

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

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



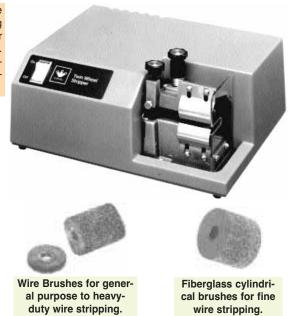
## Twin Wheel Wire Stripper

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	MAWS1A
wheels, 115 VAC, 50/60 Hz.	
Net Weight 19 lbs.	

Description (Brushes sold separately)	Catalog Number
1 ( 1 )/	
Wire Brushes, .003 Bristle,1-1/2" O.D.,	MAWS1003
for fine wire, Set of 10 brushes	
Wire Brushes, .004 Bristle,1-1/2" O.D.,	MAWS1004
for general purpose wire, Set of 10 brushes	
Wire Brushes, .006 Bristle,1-1/2" O.D.,	MAWS1006
for fabric and enamel insulated wire,	
Set of 10 brushes	
Wire Brushes, .009 Bristle,1-1/2" O.D.,	MAWS1009
for heavy insulation, Set of 10 brushes	
Fiber Glass Wheel, General Purpose	MAWS1FGW
25 to 46 AWG Wire, per pair	





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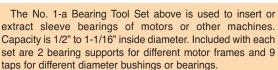
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## **Martindale Bearing Tool Sets**



No. 1-a Bearing Tool Set





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.

## Catalog Number

	saulog Harrist
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 l	bs.

# **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

Catalog Number

returning equipment to the shop to perform this operation on a lathe.



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".

Catalog Number

Repairman's Stethoscope ...........MARTRS

Net Weight 6 ozs., Shipping Weight 1 lb.





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## **Rawhide and Nylon-Faced Hammers**

#### 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.

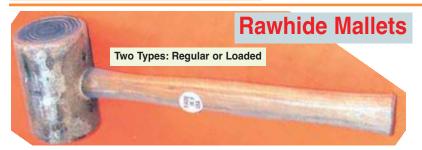
Anyone can change the faces of these Hammers in a matter of seconds. It is necessary only to loosen the large nut under the head, slide the bottom half of the head down, and the faces are easily removed and replaced. When the nut is tightened, the jaws hold the faces in a vise-like grip.

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



Jaw	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 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			



## **trucothane TM 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.

	Standard Models					Slimline Models			Sledge Models			
Model No.	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.

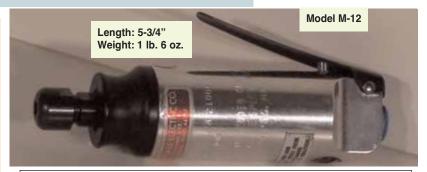
12

Model M-12 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.

Model M-12 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 grinder around the spindle, where it effectively blows grinding dusts away from the work and operator.

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



	Catalog Number
Model M-12 Air Grinder, complete with 1/4" collet and wrenches	AGRD1814
1/8" Collet (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.

	Catalog Number
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.



# Catalog Number Automatic Air Filter-Lubricator . . . . . . FILL01 Air Hose, 10 ft. long; complete



## **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.



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