

# MARTINDALE

## Other Products



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# MARTINDALE

## Over 90 Years of Service.

Martindale Electric Co. started in the electric motor maintenance tool manufacturing business in 1913. From the start, we put emphasis on quality materials and workmanship — and on dedicated customer service.



Our approach worked. We prospered and grew. Gradually, we added new products to our line, including uniquely manufactured items such as Demagnetizers & Electric Etchers. We can also supply Blowers/Vacuums, Air Grinders, Coil Winding Equipment & much more, as described in the pages to follow.

Martindale is stocked and staffed to promptly meet your needs. Each and every employee adheres to the standards of product quality and customer service that has kept us the one stop shop for circular saw blades and electric motor repair tools for more than 90 years!

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## Martindale Electric Etchers

Three Versatile Etchers for Tool Room, Machine Shop, or Production Line.

**Martindale Etchers write like a pencil** on all articles made of iron and steel. Letters or numbers are burned into the metal making a clear, legible, and permanent record. Shapes can be more easily etched than stamped.

**Electrical etching is quick and easy;** merely plug the Etcher in, choose the "heat" best suited to the job, put the work on the ground plate, and begin to write. For etching large parts that can't conveniently be placed on the ground plate, a ground clamp is furnished. Depth of mark in the article being etched can be varied by the operator's speed of writing as well as by changing the amount of current

drawn.

**A Martindale Electric Etcher will quickly pay for itself.** Besides the time it will save, mistakes and thefts will often be avoided if tools, dies, etc., are marked.

**In the Tool Room or Machine Shop** — For marking tools, dies, jigs, gauges, etc., with such information as type, company name, department symbol, operation symbol, date of purchase, etc., etc.

**In Production** — For marking inspection data on parts or sub assemblies, for marking hardness data on tools, specifications on nameplates, etc., etc.

### Included With All Etchers:

With all three models of Martindale Etchers, (also see page 59) the following accessories are included:

- 1 — Writing lead assembly consisting of 5' heavily insulated wire, handle, brass electrode, and connector.
- 1 — Ground lead wire — 5' heavily insulated wire, with connectors.
- 1 — 6-1/2" x 4" steel writing plate with hold-down clip.
- 1 — Battery clip for use when marking large pieces.
- 2 — Writing points — 1 solid copper and 1 with tungsten tip.



Utility Etcher

This popular low-priced Etcher, has been improved in several ways over previous models. It is suitable for all lighter etching applications on smooth iron or steel.

#### Features:

Three Heats: 1. 250 Watts; 2. 450 Watts; 3. 600 Watts.

Rotary Switch — 4 positions: Off, 1, 2, and 3.

Case includes storage space for accessories.

Accessories supplied are listed below.

For Catalog Numbers, etc., see next page.



No. 5-M  
Standard Etcher

No. 5-M Standard Etcher replaces the former 3-M and 4-M models and is constructed to meet all requirements specified in government Spec. MIL-E-3118, Type 2 Heavy-Duty. With ten writing heats No. 5-M Standard Etcher is recommended for the widest variety of etching including heavy production work.

#### Features:

Ten Heats: 65, 100, 200, 300, 400, 500, 700, 900, 1100, and 1300 Watts.

Rotary Switch for quick and easy control of writing heats.

Case includes storage space for accessories.

Accessories supplied are listed below.

For Catalog Numbers, etc., see next page.



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02/05

## Model C-M Heavy-Duty Etcher

5



Model C-M has found wide acceptance as a production line etching tool and also in tool rooms where heavy parts are marked. Its wide range of heats makes it suitable for use on small parts or (on one of the two highest heats) for marking large pieces such as crowbars, shovels, castings, etc.

The case for Model C-M is similar to the No. 5-M Standard Etcher. Pilot light and "On" and "Off" switch are included.

### Features:

Six Heats: 180, 310, 425, 550, 800, and 1375 Watts.

*Heat taps are taken from the secondary winding — the full primary is always in the circuit. This permits leaving the etcher connected to the line without danger of overheating when not in use, providing writing point and ground lead are not left in contact.*

Case includes storage space for accessories.

See accessories included with Etchers, bottom of page 4.

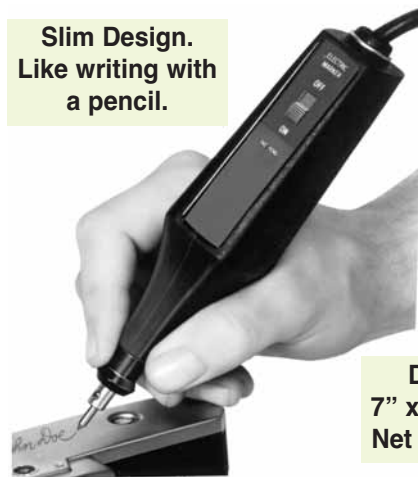
	No. 5-M Standard Etcher <b>Catalog Number</b>	Utility Etcher <b>Catalog Number</b>	Model C-M Heavy- Duty Etcher <b>Catalog Number</b>
Etcher Complete, as specified (including one Solid Copper Point and one Tungsten-Tipped Point), 115 V., 60 Hz. . . . .	.ETCH5MA	ETCHUTA	ETCHCMA
230 V., 60 Hz. . . . .	.ETCH5MB	ETCHUTB	—
Extra Writing Lead Assembly (5' heavily insulated wire, handpiece, and solid copper point only) . . . . .	.ETCH10WLC	ETCH10WLC	ETCH10WLC
Extra Writing Lead Assembly (as above, but with tungsten-tipped point only) . . . . .	.ETCH10WLT	ETCH10WLT	ETCH10WLT
Extra Solid Copper Writing Point only . . . . .	.ETCH10C	ETCH10C	ETCH10C
Extra Tungsten-Tipped Writing Point only . . . . .	.ETCH10T	ETCH10T	ETCH10T
Extra Ground Lead only with end connections (no ground plate) . . . . .	.ETCH10GL	ETCH10GL	ETCH10GL
Extra Electrode (Point Holder) . . . . .	.ETCH101	ETCH101	ETCH101
Shipping Weight . . . . .	.26 lbs.	15 lbs.	27 lbs.

## Martindale Electric Marker

This handy, low-cost industrial-quality marker quickly and easily engraves metal, glass, stone, ceramics, plastics, hard rubber, wood, etc. Cuts right into the surface to leave a permanent mark which can't be wiped off and won't wear away in normal use. Perfect for marking stock numbers, part numbers, sizes or names right on components, tools, and equipment.

Unique design reduces bouncing, puts power in the tip. Powerful coil provides 7,200 strokes-per-minute — won't stall under normal heavy operation. Stroke is adjustable to vary depth of mark. Equipped with a carbide tipped point for average marking. Diamond points are available for engraving extra hard materials (50 to 64 Rockwell, scale C).

**Slim Design.  
Like writing with  
a pencil.**



**Dimensions:  
7" x 1-3/4" x 1-3/8"  
Net Weight 13 ozs.**

	<b>Catalog Number</b>
Marker with carbide-tipped point, 115 V., 60 Hz. . . . .	.ELMK01A
Marker as above but with 3-wire cord and plug . . . . .	.ELMK03A
Marker with carbide-tipped point, 230 V., 50 Hz. . . . .	.ELMK01B
Replacement point with carbide tip . . . . .	.ELMKPC
Replacement point with diamond tip . . . . .	.ELMKPD

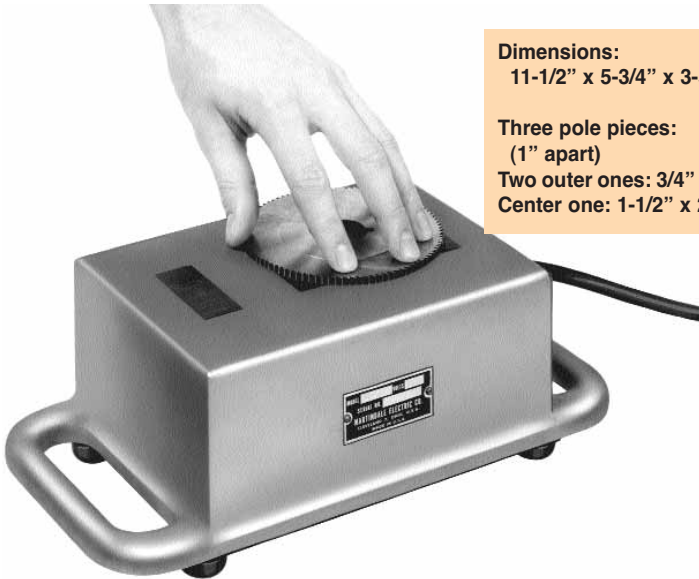


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## Model D-3 Demagnetizer

- Demagnetizers Keep Tools**
- Free of Metal-Slivers and Chips —
  - Saves Production Time —
  - Reduces Cost of Tool Maintenance —

### “Surface” Type



**Dimensions:**  
11-1/2" x 5-3/4" x 3-5/8"

**Three pole pieces:**  
(1" apart)  
**Two outer ones:** 3/4" x 2"  
**Center one:** 1-1/2" x 2"

Above: Object to be demagnetized is drawn slowly across surface.



Right: Model D-3 used in inverted position to demagnetize a surface plate.

Cutting tools such as milling cutters, drills, saws, taps, dies, etc., do not operate at full efficiency if, because of magnetism, their cutting edges have small metal chips clinging to them.

### Demagnetizing Is Quick and Easy

To demagnetize a cutting tool (or a metal part that has acquired magnetism from a magnetic chuck) you merely draw it slowly back and forth across the poles of the Model D-3 and then slowly draw it away. As the tool passes repeatedly through the magnetic field, its magnetism becomes progressively weaker. After a few seconds it is entirely demagnetized and can be put back into efficient operation.

### Demagnetizing Large Parts

In cases where it is not convenient to move the part, Model D-3 can be held upside down by its handles and passed over the part until its entire surface has been exposed. A foot switch leaves both hands free when the demagnetizer is in use and assures the current being turned off when not in use.

Model D-3 is powerful, it draws 12 amperes.

**Catalog Number**  
Model D-3 Demagnetizer, 115 V., 60 Hz. [.DEMGD3A](#)  
Net Weight 19 lbs., Shipping Weight 20 lbs.

## Model P-2 Demagnetizer

Model P-2 accomplishes the same result as Model D-3 (above) on any magnetized object that will go through the 5-3/4" inside diameter of the plastic-encapsulated coil.

In using Model P-2 both hands are left free to handle the work, as a foot switch is used for turning the power on and off.

While it is intended primarily for use at the bench, this demagnetizer can also be used as a portable tool for some limited applications.

Model P-2 draws 5.5 amperes. Magnetic field is approximately 280 gauss.

**Catalog Number**  
Model P-2 Demagnetizer, 115 V., 60 Hz. . . [.DEMGP2A](#)  
Net Weight 14 lbs., Shipping Weight 16 lbs.

### “Pass-Through” Type

**Coil I.D.:**  
5-3/4"

**Dimensions:**  
9" x 9" x 3-3/4"



Foot-switch leaves both hands free.



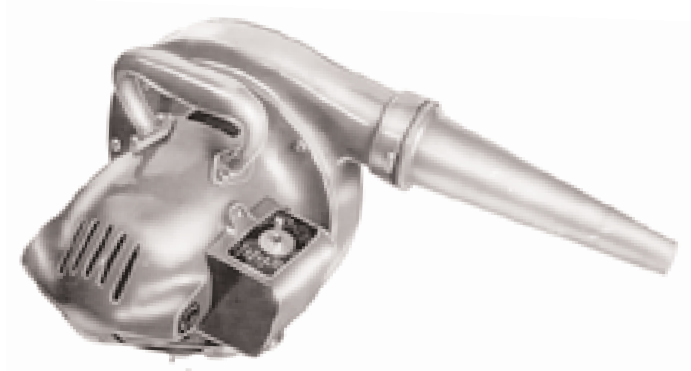
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The portable blower-cleaners shown on this page are offered in 1-1/2 h.p., 1-4/10 h.p. and 2/3 h.p. models to make a full range of capacities to suit a wide variety of industrial needs. The first three models can be quickly converted from blowers to vacuum cleaners with the 1-1/2" diameter suction attachments shown at the bottom of this page.

Also included is a "Hot & Cold" blower which delivers 160° F. electrically heated air, or ambient temperature air, at the flip of a switch. The "Hot & Cold" model cannot be used as a vacuum cleaner.

All these blowers are engineered for year-in and year-out dependability. All are equipped with sealed precision ball bearings; no oiling required.

## Model H Dual-Speed Blower



Model H is 1-1/2 h.p.; air speed 381 m.p.h.; air volume 196 cubic feet per minute; water lift 48". Equipped with 20 ft. 3-wire power cord and plug.

	Catalog Number
Model H Blower, 115 V., 60 Hz. . . . .	.BLWRHA
Model H Blower, 230 V., 50/60 Hz. . . . .	.BLWRHB
Net Weight 15 lbs. 8 ozs., Shipping Weight 17 lbs.	

## Model G General-Duty Blower



Model G is 1-4/10 h.p.; air speed 389 m.p.h.; air volume 155 cubic feet per minute; water lift 40". Equipped with 20 ft. 3-wire power cord and plug.

	Catalog Number
Model G Blower, 115 V., 60 Hz. . . . .	.BLWRGA
Net Weight 12 lbs. 8 ozs., Shipping Weight 14 lbs.	





**Model F  
Medium-Duty Blower**

Model F is 2/3 h.p.; air speed 307 m.p.h.; air volume 109 cubic feet per minute; water lift 25". Equipped with 20 ft. 3-wire power cord and plug.

	<b>Catalog Number</b>
Model F Blower, 115 V., 60 Hz. . . . .	.BLWRFA
Model F Blower, 230 V., 50/60 Hz. . . . .	.BLWRFB
Net Weight 9 lbs. 8 ozs., Shipping Weight 11 lbs.	

**Model L  
"Hot & Cold" Blower**

Model L is 1/3 h.p.; air speed 227 m.p.h.; air volume 64 cubic feet per minute; water lift 16". Equipped with 20 ft. 3-wire power cord and plug.

In addition to use as a conventional blower, Model L is used as an electric torch, providing an air stream heated to 160°F. for a variety of industrial uses including drying of electrical insulation, switchboards, electronic equipment, and other delicate items. Intensity of air speed and temperature can be varied by moving the blower nearer to or farther from the work. Model L *cannot be used as a vacuum cleaner.*



	<b>Catalog Number</b>
Model L Blower, 115 V., 60 Hz. . . . .	.BLWRLA
Model L Blower, 230 V., 50/60 Hz. . . . .	.BLWRLB
Net Weight 10 lbs. 8 ozs., Shipping Weight 12 lbs.	

**Suction Attachment Set C  
for Blower Models H, G & F**



The suction attachments pictured at the left convert models H, G, & F from blowers to hand-held or shoulder carried portable vacuum cleaners. All attachments are 1-1/2" diameter; included are: 4' hose with swivel connector, 6" nozzle with clip-on brush, 11" flat fibre nozzle, dust bag, and shoulder belt. Replacement attachments can be bought separately.

	<b>Catalog Number</b>
Suction Attachment Set C . . . . .	.BLWRC
Net Weight 3 lbs., Shipping Weight 4 lbs.	



More motor failures result from dust and dirt than from any other cause. Martindale Portable Blowers provide the means of preventing greasy, gritty accumulations on motors and machines, and thus lengthen the life of expensive equipment.

The high velocity air-stream from these blowers is clean and dry and entirely safe on delicate parts. The power of the air-stream is easily regulated by moving nearer to or farther from the object being cleaned.

The two blowers and various attachments and adaptations shown on this page and on page 49 are of the very highest quality designed for strenuous industrial use. Should accidental breakage or damage occur, replacement parts are available. We also offer full repair service.



Specifications					
Model	H.P.	Water Lift	Air Speed M.P.H.	Air Volume Cu. Ft. Min.	Net Weight (less cord)
Heavy-Duty	2-1/2	60"	325	230	16 lbs.
Mill-Type	1-1/2	49"	278	210	14 lbs.

Universal Motors, plug into any convenient lighting outlet. Each blower is supplied with 11" semi-hard rubber blower nozzle and 50 feet of heavy-duty 3-wire cord.

## Standard Suction Attachments "Set B"



Both models can be quickly converted into a convenient efficient vacuum cleaner by the use of Standard Suction Attachments shown at left: (All 1-1/2" diam.)

	<b>Catalog Number</b>
Heavy-Duty Blower, 115 V., 60 Hz. . . . .	BLWRHDA
Mill-Type Blower, 115 V., 60 Hz. . . . .	BLWRMA
Standard Suction Attachments, Set B . . . . .	BLWRB
If Suction Attachment Set parts are ordered separately:	
Shoulder Strap . . . . .	BLWRB01
Hose Connector . . . . .	BLWRB02
5' Hose . . . . .	BLWRC9114
Dust Bag . . . . .	BLWRB03
Flat Fibre Nozzle . . . . .	BLWRB04
6" Plastic Nozzle with Brush . . . . .	BLWRC01



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**Special Attachments and Cleaning Tools  
(All with 1-1/2" diameter fittings, for  
use with above Martindale Blowers)**



Using a Martindale Heavy-Duty Blower, 14" aluminum floor nozzle with fibre floor shoes, double curved aluminum handle, dust bag and hose to clean concrete flooring.  
On smooth floors we recommend the 1/4" aluminum nozzle with nylon brush.

**Switchboard Cleaning Set**



This set can be used with either of the above Martindale Portable Blowers. The 3" round nozzle and brush are completely insulated for safety. The extension pieces are made of plastic, the adapter of fibre. Extremely light in weight and easy to use; popular for dusting venetian blinds, etc. in addition to cleaning around switchboards.

	Catalog Number
Switchboard Cleaning Set (Shown above)	BLWR03
Floor Cleaning Tools:	
Double Curved Aluminum Handle (used with floor nozzles)	BLWRB08
14" Floor Nozzle with Neoprene Squeegee Blades for wet pick-up (used only with Tank-Type Cleaners)	BLWRB09
14" Floor Nozzle with Nylon Brush for smooth floors	BLWRB10
14" Floor Nozzle with Fibre Shoes for rough surfaces	BLWRB11
10' Neoprene Heavy-Duty Hose (wet or dry pick-up)	BLWRB12
10' Canvas-Covered Heavy-Duty Rubber Hose (wet or dry pick-up)	BLWR02
10' Spiral-Flex Vinyl Hose (medium-duty, wet or dry)	BLWRB13
Nipple for connecting 2 pcs. of Hose	BLWRB14



# Martindale Tank-Type Industrial Vacuum Cleaners

Powerful — Efficient — Wet or Dry Pick-Up — 1-4/10 H.P. or 2-Speed 1-1/2 H.P

### Special Features:

- \* A 3-in-1 outfit for use as:  
 Tank-Type Vacuum Cleaner  
 Portable Blower (as shown page 47)  
 Portable Vacuum Cleaner (dry pick-up)
- \* Heavy-Duty baked enamel tank, 10 or 15 gal. capacity.
- \* Change over to Portable Blower or Portable Vacuum Cleaner in seconds, as motor units are Martindale Portable Blowers (shown on page 47). All accessories are interchangeable.
- \* Tools for every purpose available. See listing below — also page 47. If tools you require are not pictured or listed, please call.



**Above:**  
 Models 10G and 10H are both 10 gallon capacity and are equipped with Portable Blower Models G and H respectively, described on page 47. Dust bag and support rod (supplied but not shown) are same as shown on Model 14H below. Mounted on 4 casters for easy maneuverability.

Specifications			
Model	H.P.	Capacity	Air Velocity
10G	1-4/10	10 Gal.	155 CFM
10H	1-1/2	10 Gal.	150-196 CFM
14H	1-1/2	15 Gal.	150-196 CFM

Each Cleaner is supplied with dust bag, support rod and 20' power cord. The double curved aluminum handle, 10 ft. polyethylene hose with swivel connector, and one of the floor nozzles, are necessary attachments for general floor cleaning, and are priced separately below. (All hoses and accessories are 1-1/2" diameter.)



**Left:**  
 Model 14H, 15 gallon capacity, is equipped with dual-speed Portable Blower Model H, described on page 47. Mounted on a sturdy 4 wheel cart. Includes accessory carrying bag.

(All cleaners include dust bag, support rod and 20' cord.)

Number	Catalog
Model 10G, 115 V., 60 Hz. ....	BLWR10GA
Model 10H, 115 V., 60 Hz. ....	BLWR10HA
Model 10H, 230 V., 50/60 Hz. ....	BLWR10HB
Model 14H, 115 V., 60 Hz. ....	BLWR14HA
Model 14H, 230 V., 50/60 Hz. ....	BLWR14HB
<b>Additional Attachments:</b>	
Double Curved Aluminum Floor Handle . . . . .	BLWRC04
10' Polyethylene Hose with Swivel Connector .	BLWRC05
10' Polyethylene Extension Hose with Connecting Nipple . . . . .	BLWRC06
14" Floor Nozzle with Squeegee Blades for wet pickup . . . . .	BLWRC07
14" Floor Nozzle with Brushes for smooth floors	BLWRC08

14" Floor Nozzle with Fibre Shoes for rough surfaces . . . . .	BLWRC09
Water Shut-Off Valve . . . . .	BLWRC10
Rubber Nozzle for using motor unit as a portable blower . . . . .	BLWRC11
Standard Set Suction Attachments to convert motor unit to portable vacuum cleaner (see page 48) . . . . .	BLWRC
Switchboard Cleaning Tool Set (see page 49)	BLWR03
3" Diameter Round Nozzle with Brush . . . . .	BLWRC14

Many other tools and attachments are available for special purposes. For information on specific cleaning problems, please write.



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# Martindale Drum-Type Vacuum Cleaner

Highest Power — Largest Capacity — Wet or Dry Pick-Up

This cleaner uses 2" diameter hose and accessories, not interchangeable with other cleaners.

Use your own 55-gallon drum with either 1 or 2 Martindale Blowers (shown on page 47 only) up to 3 h.p. suction capacity.

Order painted Steel Tank Cover, 1 or 2 Blowers, Dust Bag, Rod, Adapter for Hose, Dolly (optional), and choice of attachments:



Painted steel cover fits any standard 55-gallon drum. Has 2 openings for blowers, with a cover for second opening if only 1 blower is used.

This heavy-duty outfit is the answer for plants requiring an Industrial cleaner with the extra large refuse capacity so often needed. In addition, the Blowers are easily demounted for use as portables.

**Catalog Number**

- 1 or 2 Martindale BLOWers (page 47 only) .(shown on page 47)
- Tank Cover (accommodates either 1 or 2 Blowers) . . . . .BLWRC15
- Large Dust Bag for general cleaning . . . . .BLWRC16
- Support Rod for Large Dust Bag . . . . .BLWRC17
- Adapter to connect Hose to Tank Cover . . . . .BLWRC18
- 10' Polyethylene Hose (wet or dry pick-up) . . . . .BLWRC19
- 10' Polyethylene Extension Hose with connecting nipple . .BLWRC20
- 28" Aluminum Crevice Nozzle (for hand use) . . . . .BLWRC21
- Double Curved Aluminum Handle (used with floor nozzles) BLWRC22
- 24" Floor Tool with Squeegee Blades (for wet pick-up) . . .BLWRC23
- 24" Aluminum Floor Tool with Fibre Shoes  
(for dry pick-up, rough floors) . . . . .BLWRC24
- Water Shut-Off Valve . . . . .BLWRC10
- Four-Wheel Dolly with Handle . . . . .BLWRC26

## Bearing Separators

A must for easy removal of bearings, pulleys, cone shaped gears, and hard to get to parts. Bearing separators can be used in two different ways. Beveled edge acts as a wedge to move parts lacking space for the jaws of conventional puller, while the flat side can provide distortion free pulling. Available in various sizes, these tools perform a valuable cost savings by reducing damage to parts. These separators are intended for use with the pullers on page 45.



Capacity	Weight		Catalog Number
	Net	Shipping	
1/8" to 2" Dia.	1.61 lbs.	3 lbs.	WHPU72452
1/2" to 4-1/4" Dia.	5.64 lbs.	7 lbs.	WHPU72453
1/2" to 5-3/4" Dia.	12.56 lbs.	14 lbs.	WHPU72454
5/8" to 8" Dia.	19.82 lbs.	21 lbs.	WHPU72455
1/2" to 9" Dia.	12.71 lbs.	14 lbs.	WHPU72456



# Bearing Scrapers



Set No. 1140 (Set of 3)



Section

Catalog Number

Bearing Scrapers (Set of 3) . . . . . **BGSC1140**  
 Net Weight 1 lb., Shipping Weight 1-1/2 lbs.

These three scrapers are specially made for use on small diameter bearings. Made from lightest grade tool steel. Also used on journals, valve seats, etc.

Non-chattering, each scraper is curved, deeply grooved, hollow-ground, and carefully tempered, for scraping bronze, babbitt, and other bearing materials. Blades are highly polished.

Set consists of 3 scrapers with blades of 3", 3-1/2", and 4"; overall length with handle is approximately 11-1/2".

# 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.

Catalog Number

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.



## Bearing Heaters

Two models to make your bearing installation jobs easier. Lightweight, portable, and easy to operate. No need to demagnetize your bearings after heating.

The “Super” Model is equipped with a 250° F pre-set thermostat to prevent overheating.

Furnished with a 250° F temperature indicator crayon.

Model	Bearing Sizes	Dimensions		Net Weight	Shipping Weight
		H.	W.		
C	3/4" to 5-3/4" ID	10"	10"	5 lbs.	6 lbs.
Super	3/4" to 8" ID	10"	15"	6 lbs.	7 lbs.



**Model C:**  
Handles light to heavy-duty bearings.



**“Super” Model:**  
Shown in use. Thermostat atop typical bearing, monitors heat-up. Pre-set at 250° F.

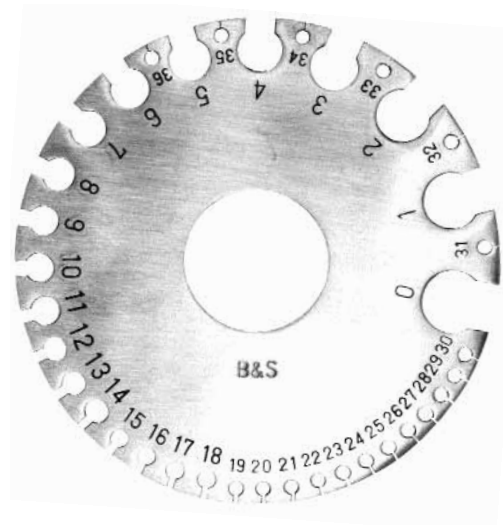


	Catalog Number
Model C Bearing Heater, 115 V. or 230 V. . . . .	BGHRC(A) or (B)
Model “Super” Bearing Heater, 115 V. or 230 V. . .	BGHRS(A) or (B)
Extra Crayon . . . . .	BGHR01

## Wire Gauge

American standard for non-ferrous metals. Gauges, wire, sheets and plates of copper, brass and aluminum. Decimal equivalents stamped on back side. Range 0 to 36 gauge.

	Catalog Number
Wire Gauge . .	.MARTWG
Net Weight	3 oz.



## Martindale Production Air Grinder

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.



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

Model M-12

**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

## 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  
with quick connector . . . . . AIRH10

## Martindale Hand Grinder

— built by DUMORE —

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



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.

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

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



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## Balancing Ways

These Balancing Ways are unequalled in the field of *static* balancing for their sensitivity and accuracy in any size work from a few ounces to 1000 lbs. Sensitive to .009 ounce-inch. Accuracy is guaranteed by the use of special scale type bearings.

Work is carried on free turning, hardened and ground circular discs which are mounted on pivot-type bearings. The principle of rolling friction, combined with two sets of taper edge rollers to support the work (at four points instead of two) combined with precision type ball bearings, increases sensitivity and reduces friction and pressure. Solid cast upright supports give these balancing ways extreme rigidity and strength. These end standards support the revolving discs and are adjustable on two shafts (up to 20") to allow the unit to accommodate different length work within the units capacity.

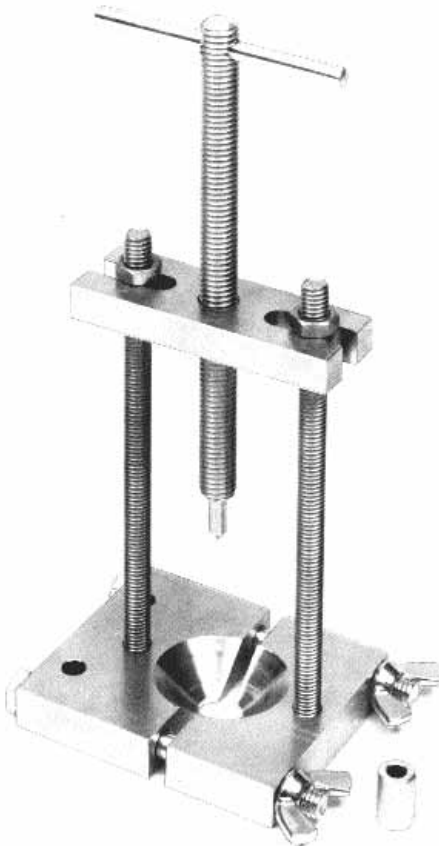
The unit is easy to disassemble and assemble for taking to the jobsite.



Balancing Ways ..... **Catalog Number** **MART1102**  
 Net Weight 38 lbs. Shipping Weight 42 lbs.

Specifications	
Capacity, lbs.	1,000
Swing (diameter)	20"
Maximum Spread	20"
Overall Height	11-1/2"

## Portable Arbor Press



- ★ Unique, portable tool for removing or installing "external" bushings, bearings, fan blades, commutators, seals, etc.
- ★ Especially handy for those who repair electric motors, fans, sewing machines, vacuum cleaners and other fix-it jobs.
- ★ Fully adjustable, "cast-iron" vise block has complete 360 degree surface contact with part being removed or installed.
- ★ Positive-drive forcing screw delivers equal pressure distribution.
- ★ Can be used "held-in-hand"; mounted in vise; bolted or clamped to workbench.
- ★ All components are rust-proof plated.
- ★ Maximum capacity 2-1/2" O.D.

Portable Arbor Press ..... **Catalog Number** **WHPU01**  
 Net Weight 3 lbs. 8 ozs., Shipping Weight 5 lbs.



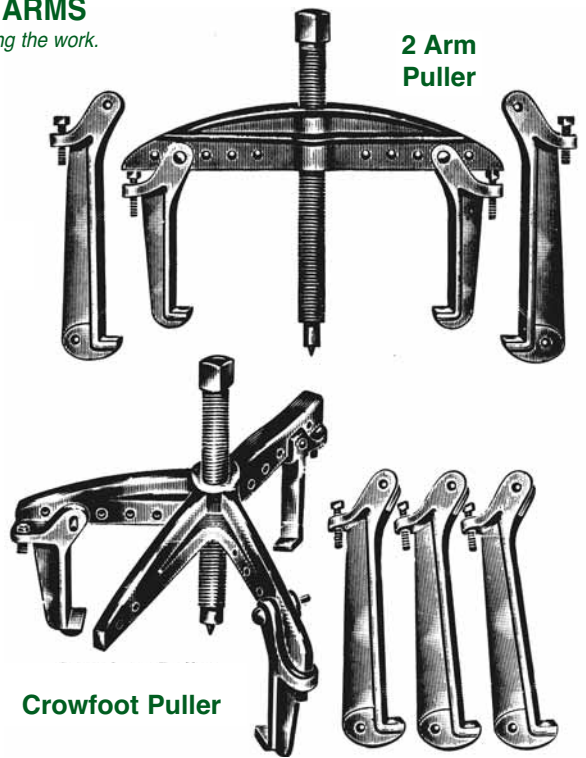


# Martindale "Crane" Wheel and Gear Pullers

## EACH WITH TWO SETS OF ARMS

Adjustable arms pull straight without squeezing the work.  
Set screws prevent spreading.

The arms and 2 arm beams are drop-forged from .35% carbon steel. The crowfoot beams are crucible steel castings. Screws are a special alloy steel heat treated before machining. The working end of the screw is flat, and in its center is inserted a hardened and tempered tool steel point to engage the center hole of the shaft from which the work is to be removed. The Crowfoot style can be used as either a 2 arm or a 3 arm puller. Used as a 3 arm puller it distributes the strain more uniformly over the work; arms are locked on the work by tightening the set screw against the beam. It will stand a 50% greater strain than the 2 arm puller.



- No. 0 — For light shop work. Arms reach 3" and 6" from the beam; takes diameters up to 6". Center screw 5/8" x 9". Capacity 10,000 lbs. **Catalog Number**  
 No. 0 — 2 Arm Puller . . . (Ship. Weight 5 lbs.) . . . [WHPL02](#)  
 No. 0 — Crowfoot Puller (Ship. Weight 8 lbs.) . . . [WHPL03](#)
- No. 2 — Medium size for machine shop work. Arms reach 6" and 10"; takes diameters up to 12". Center screw 1" x 14". . Capacity 26, 000 lbs.  
 No. 2 — 2 Arm Puller . . . (Ship. Weight 24 lbs.) . . [WHPL22](#)
- No. 3 — Designed for moderately heavy work. Arms reach 11"; takes diameters up to 18". Center screw 1-1/4" x 16".  
 No. 3 — 2 Arm Puller . . . (Ship. Weight 33 lbs.) . . [WHPL32](#)

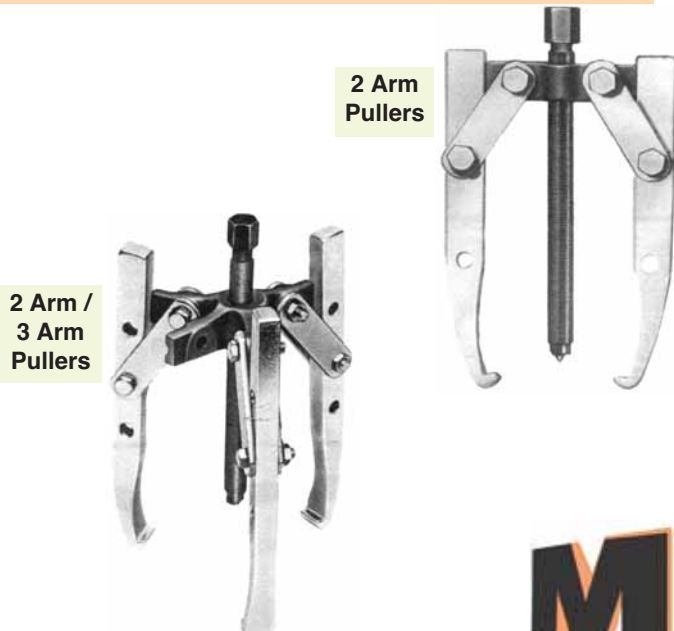
# Steelgrip Wheel and Gear Pullers

Steelgrip pullers are designed to give smooth positive pulling power with a minimum of effort. They lock into pulling position and actually hold tighter as power is applied — so they won't slip off.

Arms, screw and screw-hub are heat treated; arms are drop-forged alloy steel and all arms have adjustment

holes for long and short reach. Screws are buttress-threaded for greater pulling power.

As shown in the tables below, Armstrong® pullers are available in 2 and 3 arm models, as well as the versatile 2 arm/3 arm combination puller. Sizes range from 2 ton to 13 ton pulling capacity.



2 Arm					
Max. Reach	Spread	Screw Diam.	Capacity	Weight	Catalog Number
3-1/4"	0 - 4"	3/8"	2-ton	14 oz.	<a href="#">WHPU71431</a>
3-1/4"	0 - 6"	9/16"	5-ton	1.75 lbs.	<a href="#">WHPU71435</a>
8-3/4"	0 -9-1/2"	11/16"	7-ton	5.3 lbs.	<a href="#">WHPU72422</a>
11"	0 -12"	13/16"	13-ton	10.6 lbs.	<a href="#">WHPU72423</a>
15-1/4"	0 -15-1/2"	13/16"	13-ton	20.5 lbs.	<a href="#">WHPU72424</a>

2/3 Arm					
Max. Reach	Spread	Screw Diam.	Capacity Lbs.	Weight	Catalog Number
3-1/4"	0 - 4-3/4"	3/8"	2-ton	1.31 lbs.	<a href="#">WHPU71401</a>
5"	0 - 10-1/2"	11/16"	7-ton	6.13 lbs.	<a href="#">WHPU71405</a>
11"	0 -12"	13/16"	13-ton	31.19 lbs	<a href="#">WHPU72433</a>
15-1/4"	0 - 17"	13/16"	13-ton	18.78 lbs	<a href="#">WHPU72434</a>



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# Martindale Motor-flex and Handy-Flex Units

## GENERAL DESCRIPTION

Martindale Motor-flex and Handy-flex Units are all built in our own factory with utmost care and precision with materials of the finest quality. Ball-bearings are used in all handpieces, motor connections, and counter-shafts. Flexible cores are wound of the finest spring wire, and run in rubber-covered, non-shrinkable sheaths.

With the attachments and tools on pages 26, 28, 30-34 and 43, the units can be used to grind, de-bur, file, sand, chamfer, buff and polish.

These same machines are used to drive several types of mica undercutter heads shown on other pages of this catalog. A Martindale undercutter head with flex-drive extension and a disc holder will give a shop an undercutter, a slot cleaner, and a general deburring, grinding, buffing, and polishing machine.

Motor-flex Units have 1/2 h.p. motors and are equipped with 3/8" diam. x 5' long (No. 16) Flexible Shaft and No. 15 Handpiece (see page 28). No. 17 Handpiece, described on page 28 and in the price table below, is recommended for larger grinding wheels and other heavier duty applications. The No. 17 Handpiece and/or Core and Sheath can be substituted on any of the motor-flex units, at additional cost.



At Left: #1165 Handy-flex Unit for use with your own motor. (for 1/2 h.p.) (specify diam. of your motor shaft).



Above: #356-2 With Motor Base for Bench or Overhead Suspension. 1/2 h.p., 2850/3450 r.p.m.



At Left: #456-2 With Double-Swivel Base. 1/2 h.p., 2850/3450 r.p.m.



Above: #556-2 Three-Speed, With Double-Swivel Base. 1/2 h.p., 1425/1725, 2850/3450, and 5700/6900 r.p.m.



At Right: #794 This pedestal base can be added to any swivel-base unit.

Debur

Polish

Chamfer

Grind

### COMPLETE UNITS

Unit No.	Net Weight	Ship Weight	Catalog Number
1165	6	8	MFLX1165
356-2	26	29	MFLX3562
456-2	38	41	MFLX4562
556-2	44	47	MFLX5562
794	40	50	MFLX794

**When ordering, specify:**  
 \* Catalog Number  
 \* Collet Size desired  
 \* 115 60 Hz. -or- 230 V. 60 Hz.

### STANDARD PARTS

No.	Description	Catalog Number
16	Core, 3/8" diameter	MFLXD90
16	Sheath, 5'	MFLXD61
15	Handpiece, No. 15; with 1/4" Collet	MFLX81
D154	Collet, 1/4"; for No. 15 Handpiece	MFLXD154
900	Motor Connection; 1/2", 5/8", 10mm, or 14mm)	MFLX900

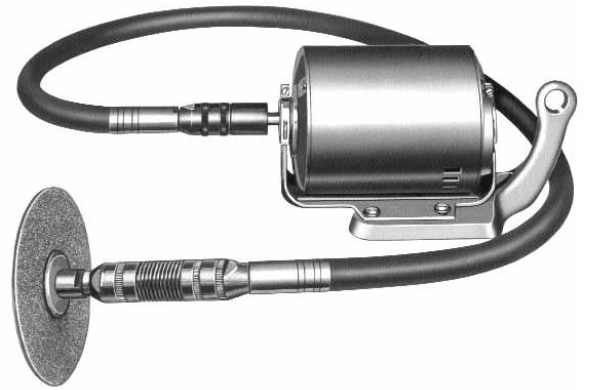
### HEAVY-DUTY PARTS

No.	Description	Catalog Number
17	Core, 7/16" diameter	MFLXD95
17	Sheath, 5'	MFLXD63
17	Handpiece, No. 17; with 1/4" Collet	MFLX8314
17	Handpiece, No. 17; with 3/8" Collet	MFLX8338
D21014	Collet, 1/4"; for No. 17 Handpiece	MFLXD21014
D210138	Collet, 3/8"; for No. 17 Handpiece	MFLXD21038
900	Motor Connection; 1/2", 5/8", 10mm, or 14mm)	MFLX900

# Martindale Slot Cleaning and General Grinding Outfit

The Martindale Slot Cleaning Outfit is used before winding an armature to remove from the slots any burrs or sharp edges which might puncture the slot lining or scrape the wire insulation.

The grinding discs are aluminum-oxide resin-bond, on a backing of tough flexible vulcanized fibre. They are offered with abrasive coating either on one side only, or on both sides. It is recommended that the single-sided disc be backed up with a stiffener such as an old worn disc, whereas the two-sided disc requires no added stiffness and cuts on both sides. Grinding Discs not included in Grinding Outfit.



Complete Heavy-Duty Outfit:	<b>Catalog Number</b>
115 V., 50/60 Hz. . . . .	MFLX7901SCA
230 V., 50/60 Hz. . . . .	MFLX7901SCB
Complete Heavy-Duty Outfit with Ball-bearing Motor Connection for use with your motor:	
with 1/2" Motor Connection . . .	MFLX7901S12
with 5/8" Motor Connection . . .	MFLX7901S58
with 10 mm. Motor Connection	MFLX7901S10MM
with 14 mm. Motor Connection	MFLX7901S14MM
No. 15 Handpiece with No. 15 Disc Holder, Nosepiece and 1/4" Collet . . . . .	MFLX7901HP

**Heavy-Duty Type for a Variety of Metal Grinding Jobs.**  
1/3 h.p. Motor, 2850/3450 r.p.m.

The complete Heavy-Duty Outfit (see above and page 27) uses the No. 16 Sheath, No. 16 Core, and No. 15 Handpiece with Nosepiece and 1/4" Collet, and includes a Disc Holder, and a 10-foot dropcord and switch. See Grinding Discs below.

Complete Unit Net Weight 26 lbs. Shipping Weight 28 lbs.; With Motor Connection (for use with your motor) Net Weight 7 lbs. Shipping Weight 9 lbs.; Handpiece only Net Weight 1-1/4 lbs. Shipping Weight 1-1/2 lbs.

## Martindale Handpieces

Illustrations 4/10 Actual Size



At left:  
No. 15 Handpiece  
(1-1/4" x 6")



At left:  
No. 17 Handpiece  
(1-7/16" x 7-3/8")

These two handpieces are used on the Motor-flex and Handy-flex Units on page 27. Collet sizes are shown on page 27. Safe grinding wheel limits are 4" x 1/2" for No. 15, and 6" x 1/2" for No. 17. (See Catalog Numbers on page 27.)

## Grinding Wheel Spindles



These Spindles fit the Handpieces of the corresponding number.

They are for the use of Grinding Wheels, Wire Wheels and Buffing Wheels.

No. 15 Grinding Spindle for No. 15 Handpiece & wheels with 1/4" holes . .	MFLX811514
No. 15 Grinding Spindle for No. 15 Handpiece & wheels with 3/8" holes . .	MFLX811538
No. 15 Grinding Spindle for No. 15 Handpiece & wheels with 1/2" holes . .	MFLX811512
No. 17 Grinding Spindle for No. 17 Handpiece & wheels with 3/8" holes . .	MFLX811738

## No. 15 Disc Holder



This Disc Holder fits onto the No. 15 Handpiece in place of the regular Nosepiece.

Made for use with Sanding Discs but will handle Grinding, Buffing, and Wire Wheels with 7/8" holes up to 3/4" thick.

No. 15 Disc Holder for No. 15 Handpiece . . . . .	MFLX8115078
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# 37" & 52" Wedge and Insulation Shears

By Roper Whitney — Pexto

Triple-action shearing



Built to machine tool standards

Martindale Wedge and Insulation Shear will enable you to quickly and accurately cut insulation paper, fibre, new resin-impregnated laminates and other light materials equivalent to No. 16 gauge soft steel. Cuts "Glastic"® up to 3/16" thick.

Quality High Speed Steel Blades have relief on both edges to eliminate blade friction and prevent sheet movement.

Shear is equipped with back gauge for up to 25" settings and front gauge for up to 30" settings. As the Shear is lowered a hold-down attachment first makes contact with the material to prevent bucking or slipping. The hold-down attachment also serves as a finger guard. The operator's hands are free for handling the material, as the machine is operated by foot pedal.

Model	Cutting Length	O.A. Width	O.A. Height	O.A.H Depth	Shipping Weight	Catalog Number
137	37"	45"	40"	76"	800 lbs.	SHRS137
152	52"	60"	42"	76"	1000 lbs.	SHRS152

F.O.B. - Rockford, IL.

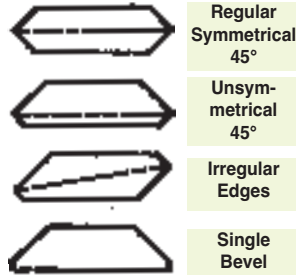
Replacement Blades	Catalog Number
For Model 137 (Upper)	SHRS350700190
For Model 137 (Lower)	SHRS350700191
For Model 152 (2 required)	SHRS350700193

Model D Wedge Beveler accurately cuts and bevels wedges of any size and of special shapes, quickly saving its cost by preventing delays.

For beveling, a fixture is provided that acts as both hold-down and guide. It clamps the wedge (up to 10" long) tightly in position throughout its length. The entire fixture then slides past the cutter. A dust collector hood is provided.

Beveling Cutters are used singly or in pairs. Each cutter is ground to 30°, 45°, or 60° to provide included angles of 60°, 90°, or 120°.

The cutters are carbide-tipped and will bevel any of the laminated plastics being used in wedges today, as well as wood and other mild wedge materials. Adjustments are simple. Any of the bevels shown at the right can be made with the 90° cutters. Similar bevels can be made with the 60° and 120°, as well as many variations when cutters of different angles are used together.



For sawing wood wedge material to width, a special 3" circular saw is used. Thickness of cut is determined by vertical adjustment of the saw spindle.

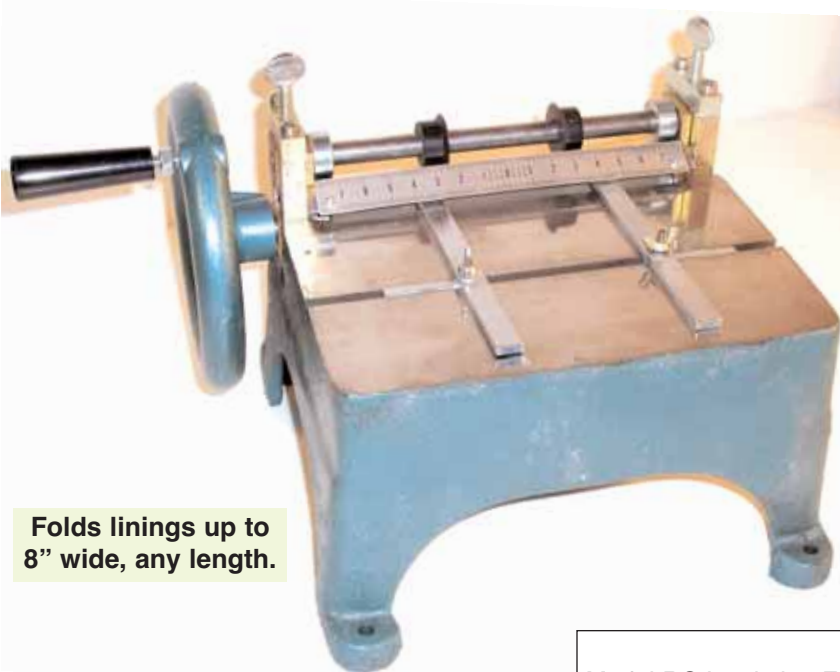
## Model D Wedge Beveler



Model D (complete with hold-down fixture; **Catalog Number** but without saw or cutters), 115 V., 60 Hz. ... **WGBV53A**  
 Model D (complete with hold-down fixture; but without saw or cutters), 230 V., 60 Hz. ... **WGBV53B**  
 Net Weight 156 lbs., Shipping Weight 210 lbs.

Cutters, Carbide-Tipped, per pair: **Catalog Number**  
 60° Included Angle . . . . . **WGBV538060**  
 90° Included Angle . . . . . **WGBV538090**  
 120° Included Angle . . . . . **WGBV538120**  
 3" Circular Saw;  
 (High-Speed Steel), each . . . **WGBV538S**





Folds linings up to 8" wide, any length.

Model RC will handle insulation material up to 8" wide between its guides. Creasing rollers are adjustable sideways to make troughs up to 6" wide. A fixed ruler-guide makes it easy to accurately set these widths.

Vertical adjustments of the roller shaft allow for different thicknesses of insulation material and for varying pressures between creasing rollers and rubber roller.

	Catalog Number
Model RC Insulation Folder . . . . .	.INFLRC
Net Weight 22 lbs., Shipping Weight 24 lbs.	
Replacement Rubber Roller . . . . .	.INFLK324
Replacement Creasing Roller (two required) . . . . .	.INFL1176

## Model No. 40 Armature Winder

Model 40 Armature Winder is a convenient, manually operated unit that winds straight or skewed armatures. Typical applications include fans, grinders, fractional H.P. motors, automotive starters and generator armatures. Handles up to 6" diameter and 8" core length armatures.



	Catalog Number
Model 40 Armature Winder . . . . .	.CWDE40
Net Weight 9 lbs., Shipping Weight 13 lbs.	



# Coil Winding Equipment

Three Systems: Light Duty, Medium Duty, and Heavy Duty

## Light Duty Coil Winding

**No. 41 Wire Rack** offers a convenient means of storing wire, plus an efficient system for feeding wire up to size 14. Prevents tangled or broken wire and damaged insulation caused by rotating inertia of reels; No. 41 capacity is 24 buckets or reels.

The 24" frame extension on the front of the rack can be used for mounting a tension device. See tension device below.



**Capacity:**  
24 Reels  
2,500 lbs.

Model 41

**Wire & Tension Device not included. See Tension Device below.**

Model	Shipping Weight	Catalog Number
41	350 lbs.	CWDE41

**4901 Capstan Tension Device** is a rotary tension unit, which provides well regulated and easily adjusted wire tension. One of these devices is positioned over each spool of wire to be used. This device consists of a steel frame which supports the tension assembly of a spindle, 3" dia. pulley, brake hub, brake disk, brake spring and tension adjusting nut. Ceramic bushings in the spindle at the bottom guide the wire coming upward from the spool. A spring loaded clamp with a felt lining holds the wire on the pulley and also removes some of the oil from the wire.



Model	Shipping Weight	Catalog Number
4901	7 lbs.	CWDE4901

### Model 75 & 76 Variable Speed Coil Winders:

Automatic stop with infinitely variable speed range. Constant torque with soft start and controlled acceleration by the foot pedal. A permanent magnet DC motor drives a helical gear reducer. 8" Dia. face plate with 4 slots to fasten your fixtures. Winding Speeds: 0 to 390 r.p.m.



Model	H.P.	Torque	Voltage	Shipping Weight	Catalog Number
75	1	13 lb. Ft.	120 V.	300 lbs.	CWDE75
76	2	26 lb. Ft.	240 V.	350 lbs.	CWDE76

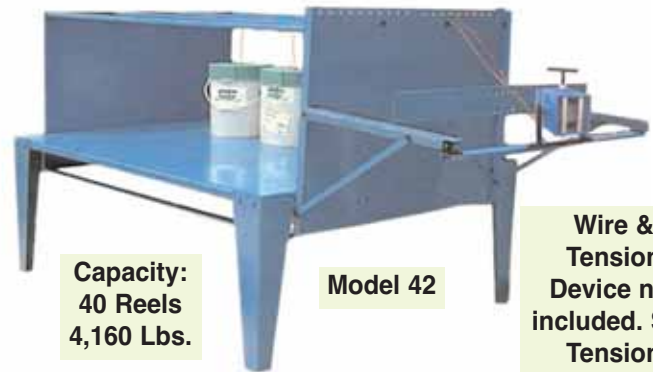


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**Medium Duty Coil Winding**

**No. 42 Wire Rack** offers a convenient means of storing wire, plus an efficient system for feeding wire up to size 14. Prevents tangled or broken wire and damaged insulation caused by rotating inertia of reels; No. 42 capacity is 40 buckets or reels.

The 24" frame extension on the front of the rack can be used for mounting a tension device. See tension device below.



**Capacity:  
40 Reels  
4,160 Lbs.**

**Model 42**

**Wire & Tension Device not included. See Tension Device below.**

Model	Shipping Weight	Catalog Number
42	500 lbs.	CWDE42

**ACE Model 46 Tension Device** is designed particularly for handling group multiple round, square, rectangular, or flat wires used in group, loop, or transformer winding operations. Controlled pressure is applied to the wire as it passes between pressure plates. These plates will not tear or damage the insulation on the wires.



Model	Shipping Weight	Catalog Number
46	60 lbs.	CWDE46

**Model 3 Series Coil Winders** are automatic stop, constant torque, medium duty machines designed to wind small, medium and large coils. These machines utilize a Flux Vector Drive which provides soft, smooth starting and stopping. Controlled acceleration from zero to full speed prevents shock loads and helps reduce wire breakage. This machine represents the latest technology in coil winding and offers infinite speed and torque ranges. This machine is very versatile and is ideal for many types of winding.



Model	Type	RPM Speed	Lbs. Ft. Torque	RPM Speed	Lbs. Ft. Torque	H.P.	Voltage	Catalog Number
3-VAS	I	0 - 408	44	0 - 43	420	3	230/460/3/60*	CWDE3VAS1
3-VPAS	I	0 - 408	44	0 - 43	420	3	230/460/3/60*	CWDE3VPAS1
3-VAS	II	0 - 296	62	0 - 31	587	3	230/460/3/60*	CWDE3VAS2
3-VPAS	II	0 - 296	62	0 - 31	587	3	230/460/3/60*	CWDE3VPAS2
3-VAS	III	0 - 259	78	0 - 27	741	3	230/460/3/60*	CWDE3VAS3
3-VPAS	III	0 - 259	78	0 - 27	741	3	230/460/3/60*	CWDE3VPAS3
3-HVAS	I	0 - 710	43	0 - 75	408	5	230/460/3/60*	CWDE3HVAS1
3-HVPAS	I	0 - 710	43	0 - 75	408	5	230/460/3/60*	CWDE3HVPAS1
3-HVAS	II	0 - 512	60	0 - 54	570	5	230/460/3/60*	CWDE3HVAS2
3-HVPAS	II	0 - 512	60	0 - 54	570	5	230/460/3/60*	CWDE3HVPAS2
3-HVAS	III	0 - 431	71	0 - 45	675	5	230/460/3/60*	CWDE3HVAS3
3-HVPAS	III	0 - 431	71	0 - 45	675	5	230/460/3/60*	CWDE3HVPAS3

Shipping Weight  
475 lbs.

\* 50 Hz. available at additional cost.

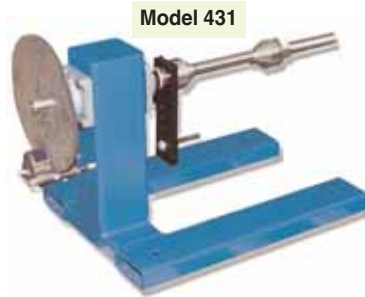
**"P" in Model No. designates 16 level programmable stop. Other units are single level programmable stop only.**



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 Web Site: [www.martindaleco.com](http://www.martindaleco.com)

**Heavy Duty Coil Winding**

**Model 431 & 432 De-Reeling and Tension Stands** are air operated by means of regulated air pressure and gauge. Designed to handle spools and reels of round and shaped wire. Tension can be varied via an adjustable air pressure regulator which actuates a caliper brake gripping a 12" (standard) diameter disk. Supplied with either one or two shafts and one brake per shaft. Additional brakes per shaft are available.



Model	Shipping Weight	Catalog Number
431	350 lbs.	CWDE431
432	500 lbs.	CWDE432

**Model HD** is a constant torque winding machine with an AC Flux Vector Drive. Engineered for those who require a versatile coil winder with extra high pulling power, and an infinitely variable speed range.



Model	Face Plate Load	Speed RPM	Lbs. Ft. Torque	H.P.	Voltage	Catalog Number
HD-03-1	5,300	0 - 39 / 77	363 / 184	3	460/230/60*	CWDEHD031
HD-03-2	5,300	0 - 53 / 105	267 / 135	3	460/230/60*	CWDEHD032
HD-03-3	5,300	0 - 97 / 192	146 / 74	3	460/230/60*	CWDEHD033
HD-05-1	5,300	0 - 28 / 55	844 / 430	5	460/230/60*	CWDEHD051
HD-05-2	5,300	0 - 39 / 77	606 / 307	5	460/230/60*	CWDEHD052
HD-05-3	5,300	0 - 53 / 105	446 / 225	5	460/230/60*	CWDEHD053
HD-05-4	5,300	0 - 97 / 192	244 / 123	5	460/230/60*	CWDEHD054
HD-10-1	8,000	0 - 28	1688	10	460/230/60*	CWDEHD101
HD-10-2	8,000	0 - 39	1212	10	460/230/60*	CWDEHD102
HD-10-3	8,000	0 - 53	891	10	460/230/60*	CWDEHD103
HD-10-4	8,000	0 - 73	648	10	460/230/60*	CWDEHD104

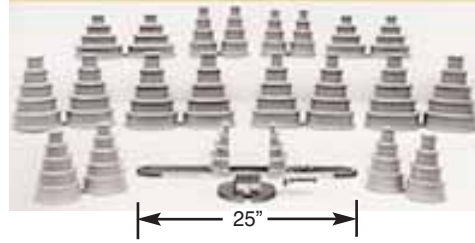
Shipping Weight  
1,300 lbs.

\* 50 Hz. available  
at additional cost.



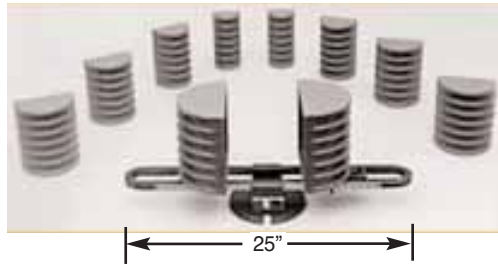


**Model No. 15-L** is a Single Phase Winding Head and will wind practically any single phase motor, 3600 to 1800 r.p.m. Eleven sets of forms — adjustment needed for length only.



Model	Shipping Weight	Catalog Number
15-L	35 lbs.	CWDE15L

**Model No. 15-T** Three Phase Winding Head only requires one setting. Measure the length of the insulation in the slot. When the span is exactly the width of the form, this is all the measurement required.

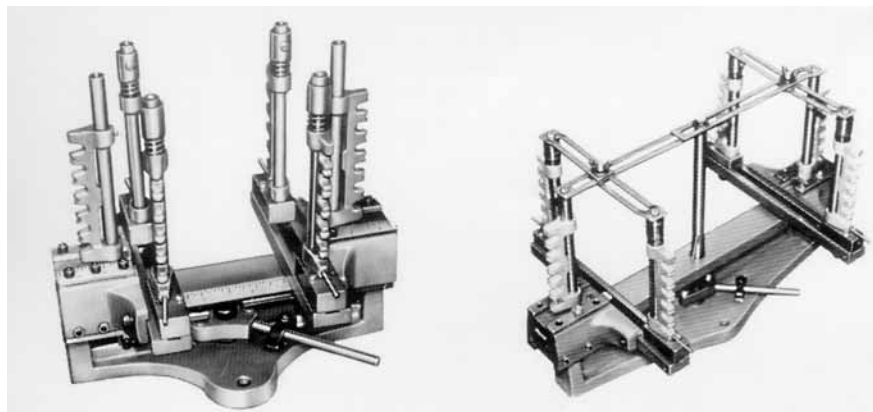


Model	Shipping Weight	Catalog Number
15-T	23 lbs.	CWDE15T

## Three Phase Group Winding Heads

**Four Group Winding Heads are available;** No's. 5, 10 and 11 are illustrated. Specifications for all four are given in the table below. No. 10 and No. 11 has one set of medium range jaws; No. 5 has a smaller set; No. 12 has the largest set. These group heads make three phase random mush coils in diamond, square, or rectangular shapes, from 1/4 h.p. to 125 h.p. capacity and can be bolted to any winding head face plate. The head is graduated to scale, making it easy to record specific job set-ups for repetition later. Winding is done at high speed. Six coils can be released and the next six set up in the machine in 10 seconds by means of a single action cam collapse mechanism.

**No. 5 Group Winding Head**



**No. 10 and 11 Group Winding Head with braces in position**

Model	Range of Coil Sizes			Wt. Lbs.		Catalog Number
	Length	Width	Slot Length	Net	Ship.	
No. 5	5" - 11-1/2"	2" - 6-1/2"	2-1/4" - 6"	29	46	CWDE5
No. 10	5-3/4" - 20"	3" - 10"	3-1/2" - 13"	50	80	CWDE10
No. 11	5-3/4" - 24"	3" - 14"	3-1/2" - 18"	55	90	CWDE11
No. 12	5-3/4" - 36"	3" - 24"	3-1/2" - 29"	150	200	CWDE12



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## Bench Type Coil Winder

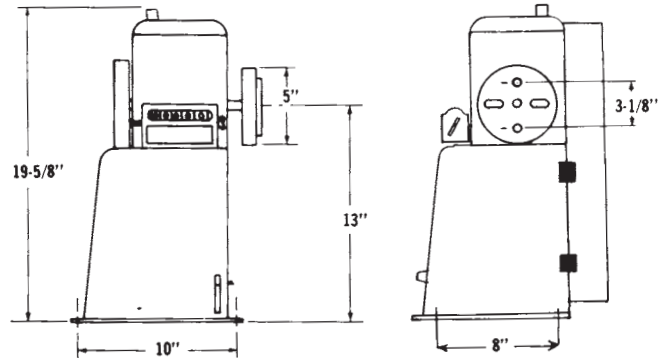


This compact, reasonably priced, coil winder is designed for smaller shops where winding may not be done every day and also for larger shops as a secondary utility winder.

Used primarily with one of the winding heads shown below, this winder can produce field, mush, armature, solenoid, electromagnet, and other small coils. It is equipped with sealed bearings on all shafts and is engineered for smooth operation with constant torque and positive stopping for precise control over every job. The clutch and brake can be controlled either by hand or with the foot pedal with chain. There are three speed adjustments which can be made by simply changing the belts on the pulleys (Low — 108 rpm — 28 ft./lbs. torque) (Medium — 220 rpm — 15 ft./lbs. torque) (High — 440 rpm — 7 ft./lbs. torque). All three versions of this machine come equipped with a heavy duty counter.

See Coil Winding Heads below.

Model No.	Motor	Shipping Weight	Catalog Number
2057	1/3 H.P., 120 V., 60 Hz.	57 lbs.	CWDE2057
2069	1/3 H.P., 220 V., 50-60 Hz.	57 lbs.	CWDE2069
2067	For use with your motor.	38 lbs.	CWDE2067



### Models 2101 & 2102



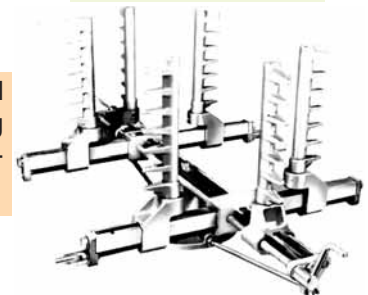
**Models 2101 & 2102** for winding relatively small armature, solenoid, and field coils. Each comes with 6 adjustable coils spools.

## Coil Winding Heads

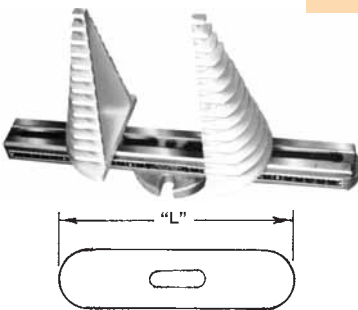
For above Winders

**Models 2103 & 2106** for winding 3 Phase Coils from fractional HP to 300 HP. Four permanently mounted cranks adjust winding arms simultaneously. Built-in easy to read scale assures accuracy and ease of set-up.

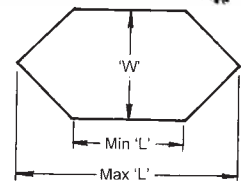
### Models 2103 & 2106



### Models 2104



**Model 2104** Single Phase Head is fully adjustable for single phase coils. Features 13 slots and easy to read scale for fast set-up.



Model No.	Range of Coil Sizes		Weight - lbs.		Catalog Number
	Length	Width	Net	Shipping	
2101	6" to 16"	3" to 13"	30	33	CWDE2101
2102	4" to 8"	2" to 6"	8	9	CWDE2102
2103	5" to 19"	2" to 11"	25	27	CWDE2103
2106	8" to 28"	4" to 16"	27	36	CWDE2106
2104	3" to 13"	—	12	16	CWDE2104

