

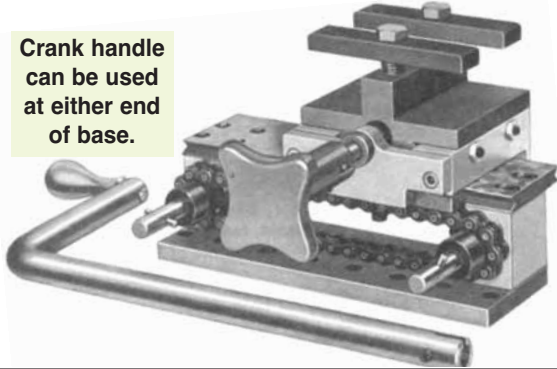
Martindale Chain-Drive Commutator Grinding Tools

Designed at the request of the Railroad Industry, but equally suited for grinding commutators of industrial equipment up to 26" long.

The Martindale Chain-Drive Commutator Grinder is a departure from previous designs, in that friction has been reduced to a minimum. Grinding dust has little effect on the operation.

Two or three turns of the crank will move the carriage from one end of the bed to the other. The operator can "feel" the stone cut, and how fast to feed it. This is probably the quickest and easiest Commutator Grinder to use.

Crank handle can be used at either end of base.



DIMENSIONS:

- Length: 5-1/2" to 24"
- Width: 5" (without handle or knob)
- Height: 4-3/4" (base to top of stone-holder nut)
- Adjustable Support: 3" (from center of brush-arm hole in lower part to center of joint with upper part)

Grinder Sizes

The table below shows stock size Grinders and the length commutator bars they will grind. Two commutator lengths are given in each case, as two different width Commstones can be used.

Grinder Base Length	* Grinding Lengths:		Catalog Number
	Using: 1"x1-1/2"x6-1/2" Commstones	Using: 1"x2"x8" Commstones	
5-1/2"	6"	7"	GRDR705
7-1/2"	8"	9"	GRDR707
10"	10-1/2"	11-1/2"	GRDR710
12"	12-1/2"	13-1/2"	GRDR712
14"	14-1/2"	15-1/2"	GRDR714
16"	16-1/2"	17-1/2"	GRDR716
18"	18-1/2"	19-1/2"	GRDR718
20"	20-1/2"	21-1/2"	GRDR720
22"	22-1/2"	23-1/2"	GRDR722
24"	24-1/2"	25-1/2"	GRDR724

* At least 1/2" can be added to grinding lengths by cocking Commstones in the stone-holder.



Grinder mounted on Traction Motor

A Universal Adjustable Support (shown below) is available for mounting on round brush arms. This support is in two parts, hinged together. It can be used as illustrated, with grinder mounted on top section and bottom section adjusted at desired angle; or top half can be removed and grinder mounted directly on lower part of support. Split fibre bushings reduce the clamp from 1-1/8" diam. to 3/8" diam. in 1/8" steps to make a tight fit on the brush stud.

Supports and Accessories:

Catalog Number

- Universal Adjustable Support.....GRDR740
- Adjustable Wedge Block (Fig. 6).....GRDR741
- Steel Carrying Case for Grinders under 18" .CASE102
- Steel Carrying Cases for Grinders over 18" .CASE103

Commstones for Above:

- 1" x 1-1/2" x 6-1/2"COMMXLS847*
- 1" x 2" x 8"COMMXLS850*

* When ordering, specify catalog number and grade (i.e. EC, C, M, F, P)

Weights, 5-1/2" base Grinder complete, Net 7 lbs., Shipping 10 lbs.; add 1/2 lb. for each additional inch.

Martindale Plain Lathe Type Commstones 1" x 1-1/2" x 6-1/2" and 1" x 2" x 8" are available in various grades.

See our Diamond D Abrasives Catalog, page 5 for a complete listing of grade recommendations for various surface conditions.



Universal Adjustable Support



Fig. 6 Adjustable Wedge Block

For mounting on flat brush arms use Adjustable Wedge Block Fig. 6 shown at left. (Use 1, 2, or 3, according to length of base).

Grinders up to 7-1/2" base need 1 support.
Grinders 10" to 16" base need 2 supports.
Grinders 18" to 24" base need 3 supports.

Grinder mounted on a Diesel-electric Generator.



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