

Uses either High-Speed Steel or Tungsten-Carbide Saws and V-Cutters. To change operation from High-Speed Steel to Carbide, or vice-versa, it is necessary only to reverse pulleys (to change spindle speed).

Handles a wider variety of armature sizes and shaft lengths than any similar machine being manufactured.

This outstanding undercutter is designed to handle the large volume production undercutting of the motor manufacturer, as well as the wide variety of undercutting requirements encountered in the service shop.

Model HV-3 is precision built, rugged, fast, and accurate. Depth of cut is governed by a fine screw adjustment. When the saw is being returned to the riser for the next cut, it is lifted clear of the slot for indexing.

Two ball bearing spindles are available, with 1/8" or 3/16" arbors. The machine is equipped with one spindle only; the additional spindle is available at extra cost. For undercutting horizontal commutators only, the 1/8" spindle is recommended; with it the 1/8" hole saws listed below are used. When both horizontal and vertical commutators are to be undercut, the 3/16" spindle is used; with the 3/16" hole saws or V-cutters.

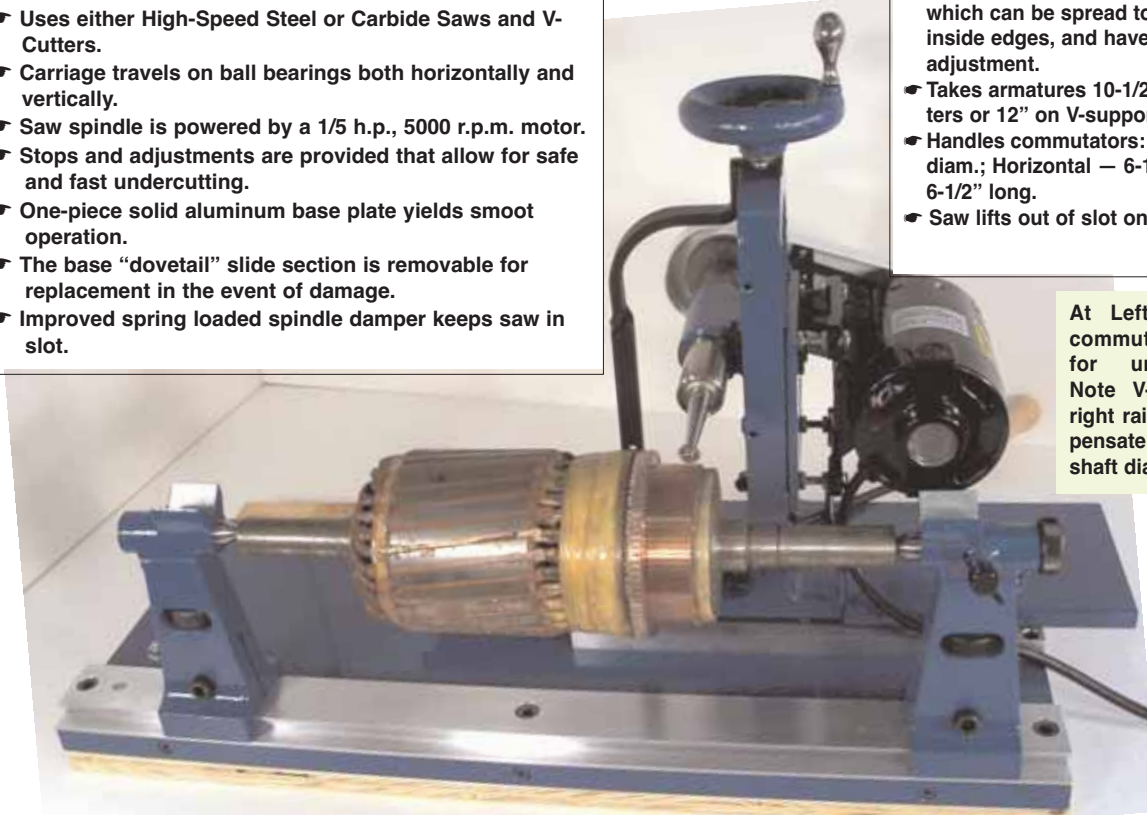
### Features:

- Model HV-3 undercuts horizontal and vertical commutators.
- Uses either High-Speed Steel or Carbide Saws and V-Cutters.
- Carriage travels on ball bearings both horizontally and vertically.
- Saw spindle is powered by a 1/5 h.p., 5000 r.p.m. motor.
- Stops and adjustments are provided that allow for safe and fast undercutting.
- One-piece solid aluminum base plate yields smooth operation.
- The base "dovetail" slide section is removable for replacement in the event of damage.
- Improved spring loaded spindle damper keeps saw in slot.

### Specifications:

- 20" between centers.
- Longer armatures on V-supports, which can be spread to 23" between inside edges, and have 1" vertical adjustment.
- Takes armatures 10-1/2" diam. on centers or 12" on V-supports.
- Handles commutators: Vertical — 5-1/4" diam.; Horizontal — 6-1/2" diam. x 6-1/2" long.
- Saw lifts out of slot on return stroke.

At Left: Horizontal commutator ready for undercutting. Note V-support at right raised to compensate for smaller shaft diameter.

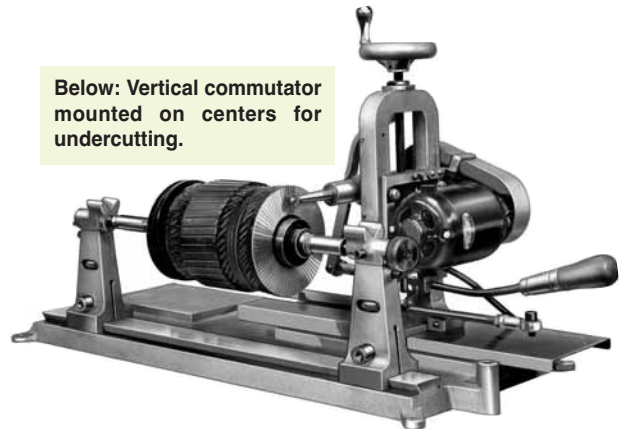


Model HV-3 Undercutter:	Catalog Number
115 V., 50/60 Hz. with 1/8" spindle	.HV3UA1
115 V., 50/60 Hz. with 3/16" spindle	.HV3UA3
230 V., 50/60 Hz. with 1/8" spindle	.HV3UB1
230 V., 50/60 Hz. with 3/16" spindle	.HV3UB3
Extra 1/8" Spindle Assembly	.HV3U30918
Extra 3/16" Spindle Assembly	.HV3U309316
Net Weight 50 lbs., Shipping Weight 90 lbs.	

Saws and V-Cutters			
High-Speed Steel	O.D.	I.D.	Catalog Number
9-1/2-HS Saws	5/16"	1/8"	HSMS9.5
32-HS Saws	3/8"	1/8"	HSMS32
16-HS Saws	1/2"	3/16"	HSMS16
17-VHS Cutters	1/2"	3/16"	HSMSV17
13-HS Saws	11/16"	3/16"	HSMS13
13-VHS Cutters	11/16"	3/16"	HSMSV13
Tungsten-Carbide	O.D.	I.D.	Catalog Number
9-1/2-TC Saws	5/16"	1/8"	TUNS9.5
32-TC Saws	3/8"	1/8"	TUNS32
16-TC Saws	1/2"	3/16"	TUNS16
17-VTC Cutters	1/2"	3/16"	TUNSV17

For further specifications see pages 16 and 17.

Below: Vertical commutator mounted on centers for undercutting.



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