



Gorman Machine Corp.

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Technical Data Sheet

900A Toroidal Coil Winder

Features

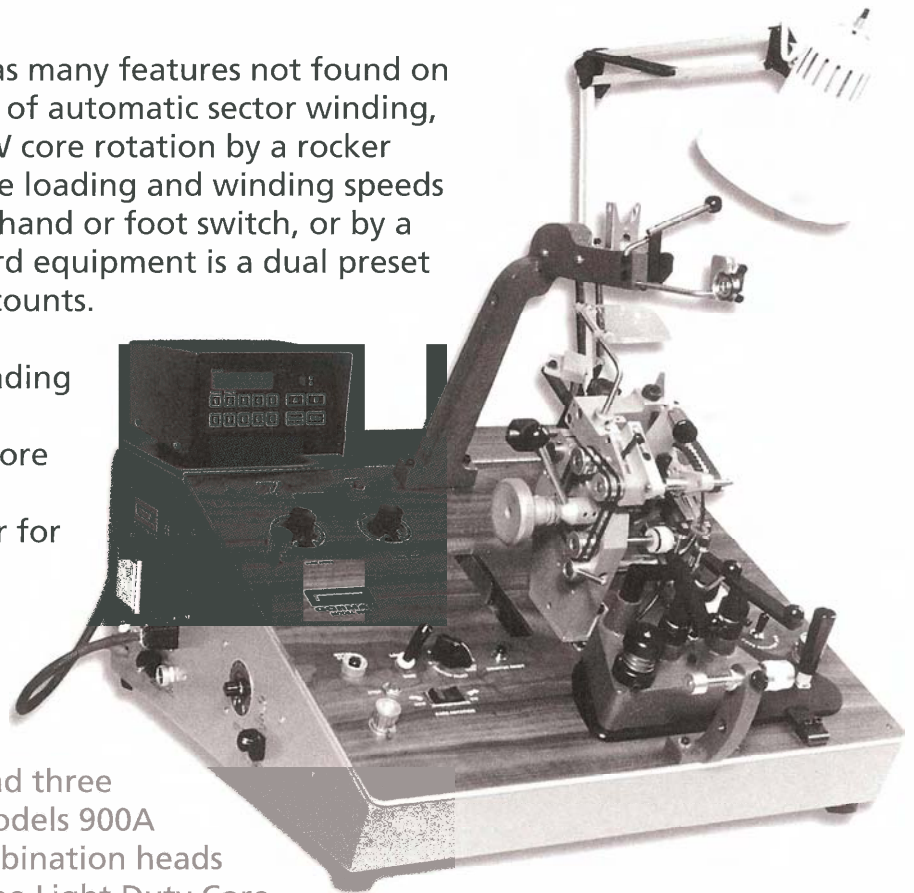
The Model 900A Toroid Winder has many features not found on simpler machines including choice of automatic sector winding, or manually controlled CW or CCW core rotation by a rocker switch. Two potentiometers set the loading and winding speeds and the machine is operated by a hand or foot switch, or by a variable speed foot pedal. Standard equipment is a dual preset counter for loading and winding counts.

An internal footage counter is automatically connected when loading wire. There is a jockey-stick core positioner for moving the whole core rotator assembly left or right and forward and back. A core jog lever for CW or CCW core positioning. Winding Speeds to 2000 TPM.

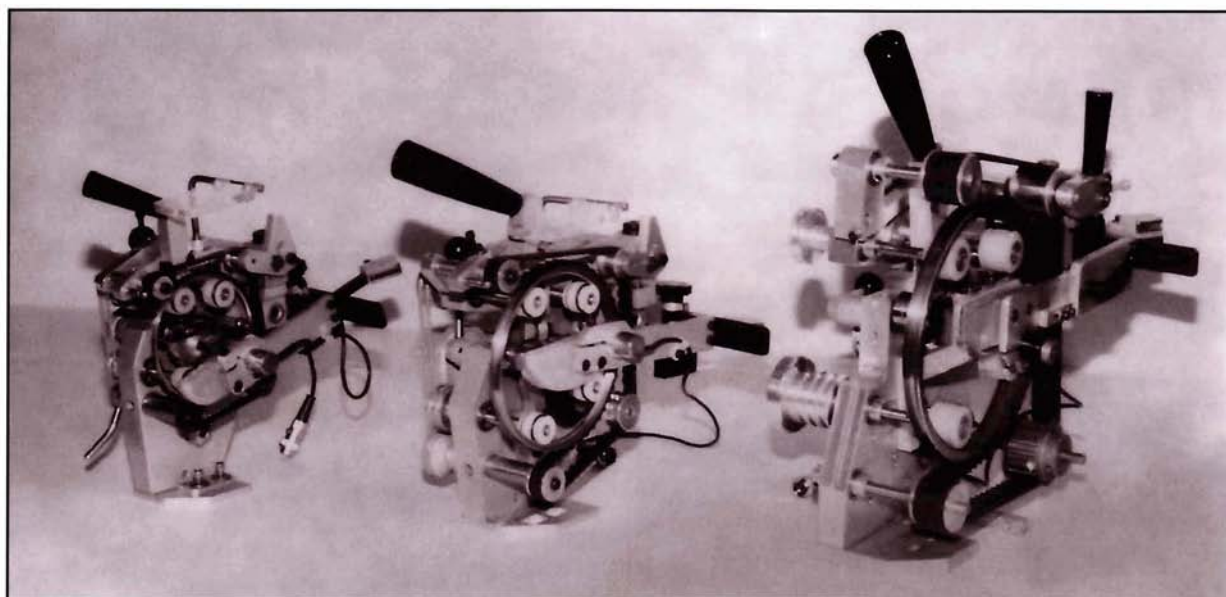
Accessories

There are three Winding Heads and three Core Holder Assemblies for the Models 900A and 920B. All three heads are combination heads for Side Slider and Belt Tension. The Light Duty Core Rotators will handle cores from .055" ID to 2" OD. The Medium Duty Rotators will rigidly hold and rotate cores up to 4" OD. The new Larger Heavy Duty Core Rotators used with the 8-inch winding head and taping head, can accommodate cores up to 7-1/2" OD and 3" high with wires to 16 AWG, and tapes to 3/4" width.

The Light and Medium Duty Core Rotators have all three drive rollers powered for positive drive rotation of the coils, even over protruding sectors. Shuttles are quickly removed, including the Belt Head Shuttles. There is a 3/4 HP SCR controlled DC motor with acceleration control.



Model 900A



4" Head

6" Head

8" Head

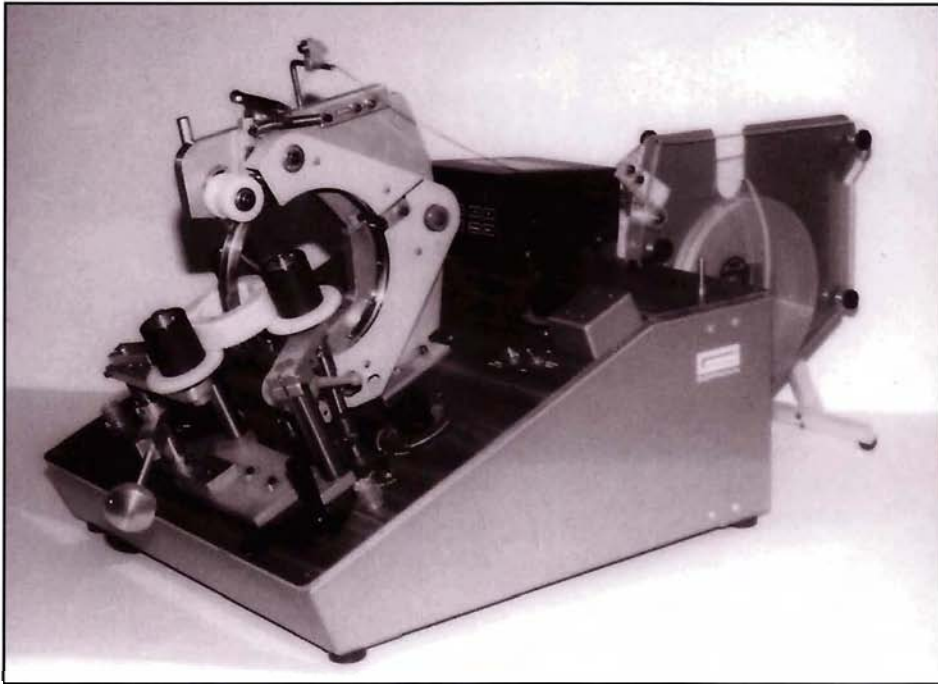
Probably the most important feature over our PRODUCTOR Toroid Winder is the choice of automatic sector winding, up to 360°, or CW, or CCW core rotation by rocker switch.

Another important function is the ability to quickly mount the interchangeable 4", 6" and 8" winding heads. The cores for 8" head are driven by the new larger heavy duty core rotator assembly. Three rubber drive rollers accommodate cores up to 7-1/2" in diameter.

The front two core rotator arms are quickly adjusted by worm gears for the coil diameter. The rear rotator is quickly adjusted and is swung rearward for easy coil insertion or removal. The rubber core rotators are adjusted up or down on their shafts by a single cap screw on a flat on the rotator shafts.

There is also an automatic acceleration when starting. The operator can run the machine by either hand or foot switch or by a variable speed foot pedal which gives infinite speed control for loading and winding to its pre-set stop. Multi pre-set counters are available.

Machines can be equipped at factory for 220v 50/60 cycle operation at a small additional charge. No external transformer is needed.



Model 900A with Taping Head and Tape De-Spooler

The all new taping head tapes coils up to 7-1/2" in diameter and 3" high. It takes magazines in tape widths from 3/8" to 3/4" or 10 to 20mm. The new tape de-spooler is of novel construction with no moving parts. The tape spool is dropped into the open-top hopper and the tape spool revolves on itself as tape is taken off the spool. There is no assembly to be taken apart between spool changes. Spools of up to 12" diameter with any size spool cores are used without adaptors, including cloth tapes which have very small centers. The de-spooler sits to the rear of the machine where it is out of the way for lifting up the top plate of the machine for access.

An SCR controlled DC motor of 3/4 HP gives adequate reserves of power for all heads.



Specifications

- Choice of Winding Heads:** 4" or 6" complete with one shuttle and associated accessories. 8" Winding Head and Taping Head available.
- Shuttle Sizes:** 4" Wire slider shuttles - .055", .062", .075", .100", .115", .135"
4" Side slider shuttles - 3/16", 1/4", 5/16", 3/8"
4" Belt head shuttles - .093", .100", .115", .125", .135", 3/16", 1/4", 5/16", 3/8"
6" Side slider shuttles - 3/16", 1/4", 5/16", 3/8", 1/2", 5/8"
6" Belt shuttles - 3/16", 1/4", 5/16", 3/8", 1/2"
8" Belt and Side slider shuttles - 3/4", 1"
(These are the finished holes through which the shuttle will fit.)
- Wire Sizes:** #16 AWG to #46 AWG depending on which winding head is used.
- Core Sizes:** .055" ID to center of 2" OD, and 1" high with 4" head
3/16" ID to center of 4" OD, and 2" high with 6" head
To center of 7-1/2" OD, and 3" high with 8" winding head
- Core Rotation:** Variable speed CW or CCW selectable by Vernier Dial. Direction of core rotation is selected by a Rocker Switch or Automatic Reverse over any sector. Automatic sector winding. Core Jog lever for turning coil to new position at any time.
- Core Rotation Assemblies:** Light duty and medium duty 4" or 6" rotator assemblies. Both have three drive rollers (all driving). Heavy Duty 8" rotator assembly has front two rotators driving. Entire rotator assemblies can be repositioned by Jockey stick. Automatic 180° core clamp available.
- Shuttle Speed Control:** By Push Button Start and Stop, by Foot Switch, or by Variable Speed Foot Pedal from 0 to 2000 TPM with a 4" head.
- Motor:** 3/4 HP Permanent magnet DC motor with SCR control.
- Power:** 115V 50/60 HZ, or 220V 50/60 HZ, single phase.
- Weight:** 110 lbs.; crated shipping weight 200 lbs.

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