

COIL WINDING

MEDIUM DUTY COIL WINDERS MODELS MD-03 & MD-05 TYPES 1,2,3,4,5 & 6

AUTOMATIC STOP COIL WINDERS

A Bi-Directional single level preset counter counts from 1 to 999,999 turn counts. Registers accurate turn count whether adding or subtracting turns. The stopping position can be advanced up to one full turn to compensate for inertia-override under various loads and speeds.

ITEM P-16 COUNTER

OPTIONAL ACCESSORY

Equipped with a Bi-Directional 16 level preset counter, which counts from 1 to 999,999 turn counts per level.

MEDIUM DUTY COIL WINDER

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.

FLUX VECTOR DRIVE

The Flux Vector Drive gives you soft, smooth starting and stopping. Controlled acceleration from zero to full speed prevents shock loads, which could break the wire.

SPEED CONTROL

Speed can be controlled either by the foot pedal or a panel-mounted potentiometer on the front of the machine. The operator has full control of acceleration and deceleration of the entire speed range by use of the remote foot pedal. Switching speed control to the mounted potentiometer permits the operator to preset the speed. This feature provides improved speed and stop position repeatability, because the winder will accelerate to the same speed every time the foot pedal is depressed.

INSTANT REVERSING FEATURE

The Vector Drive Controller has programmed acceleration & deceleration rates. The time to go from forward to reverse is only .2 seconds.

SAFETY FEATURE

The operator may stop the machine instantly at any desired turn count by removing pressure from the foot pedal. Starting, stopping and jogging remains controlled by the foot pedal, regardless of which speed control option is being used.

TYPE OF COILS

Designed to wind distribution transformer coils, rotors and large form wound coils. Winds with sufficient tension to reduce hand forming to an absolute minimum.



ACE MODEL MD-03 MEDIUM DUTY COIL WINDER

SPEED AND TORQUE RANGES

MODEL	H.P.	CONSTANT TORQUE		VARIABLE TORQUE		FACE PLATE LOAD(LBS)
		RPM	FT. LBS.	RPM	FT. LBS.	
MD-03-1	3	0-42	375	43-86	188	1,000
MD-03-2	3	0-57	276	58-114	138	1,000
MD-03-3	3	0-70	225	71-140	113	1,000
MD-03-4	3	0-86	183	87-172	92	1,000
MD-03-5	3	0-115	137	116-230	69	1,000
MD-03-6	3	0-182	87	183-365	44	1,000
MD-05-1	5	0-42	625	43-86	313	1,000
MD-05-2	5	0-57	461	58-114	231	1,000
MD-05-3	5	0-70	375	71-140	188	1,000
MD-05-4	5	0-86	305	87-172	153	1,000
MD-05-5	5	0-115	228	116-213	114	1,000
MD-05-6	5	0-182	144	183-365	72	1,000

NOTE: Face plate loading should be reduced by 25% for each 12" extension from face plate.

PULLING POWER

High torque is delivered by the power train drive modules that supply torque-on-demand.

ace Since 1919

ACE EQUIPMENT COMPANY
4725 MANUFACTURING ROAD
CLEVELAND, OHIO 44135
WWW.ARMATURECOIL.COM
800-255-1241 • 216-267-6366 • FAX 216-267-4361

COIL WINDING

MEDIUM DUTY COIL WINDERS

Flux Vector Drive Equipment

Flux Vector Drive Motor has a totally enclosed non-vent C-Face mounted enclosure. The Vector Drive Controller is in a NEMA 1 type enclosure with a NEMA 4X rated keypad.

Face Plate

10" Dia. Supplied with (4) T-slots, which readily accommodates all types of special winding forms, fixtures and heads.

Swing

39-3/4" height to center of the face plate

Braking

Full motor torque hold braking at zero speed. Dynamic braking produces accurate positive stopping.

Face Plate Output Shaft

Models MD-03 & MD-05 have a 2" Dia. shaft that is tapped to accept a 3/4 - 10 Bolt.

Bearings

Drive shafts are mounted in fully self-aligning, precision built, anti-friction roller bearing pillow blocks.

Optional Touchscreen Control

The Model GL 300BT touchscreen offers a low cost, easy to use operator terminal which can store up to 200 recipes resulting in savings in time and accuracy.



Complete Winding Systems

The MD Series Coil Winders can be configured with other ACE winding components to create a complete coil winding and tension system.....



High Overload Capacity

The cycloidal speed reducer is able to withstand shock loads to 500% of their rating.

Coil Weight Capacity

See speed and torque ranges chart.

Enclosure

Formed heavy gauge cabinet containing mechanical, air and electrical components. Designed for easy maintenance accessibility.

Operating Position

When ordering, specify counter and controls on right or left side.

Important

When ordering, specify line voltage.

Modifications

The winder is designed to be easily modified to meet customer's torque and speed specifications.

MODEL	DIMENSIONS	WEIGHT (LBS.)	
		NET	GROSS
MD-03	24"W x 48"L x 47"H	800	900
MD-05	24"W x 48"L x 47"H	900	1,000

ace Since 1919

ACE EQUIPMENT COMPANY
4725 MANUFACTURING ROAD
CLEVELAND, OHIO 44135
WWW.ARMATURECOIL.COM
800-255-1241 • 216-267-6366 • FAX 216-267-4361