

# COIL WINDING

## HEAVY DUTY COIL WINDERS

MODELS HD-03, HD-05, HD-10, HD-20

### 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. With optional Touchscreen, stopping position is within 100th of a rotation.

### ITEM HD-P16 COUNTER

#### OPTIONAL ACCESSORY

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

### HEAVY 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 an electric panel-mounted potentiometer. 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 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.

### PULLING POWER

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



Model HD shown with optional Touchscreen Controller

### 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.

### SPEED AND TORQUE RANGES

MODEL	HP	SPEED/RPM	TORQUE LB.-FT.*	FACE PLATE LOAD (LBS.)
HD-03-1	3	0-39/ 40-77	363 CT/ 362-184 VT	5300
HD-03-2	3	0-53/ 54-105	267 CT/ 266-135 VT	5300
HD-03-3	3	0-97/ 98-192	146 CT/ 145-74 VT	5300
HD-05-1	5	0-28/ 29-55	844 CT/ 843-430 VT	5300
HD-05-2	5	0-39/ 40-77	606 CT/ 605-307 VT	5300
HD-05-3	5	0-53/ 54-105	446 CT/ 445-225 VT	5300
HD-05-4	5	0-97/ 98-192	244 CT/ 243-123 VT	5300
HD-10-1	10	0-28/ 29-54	1688 CT/ 1687-875 VT	8000
HD-10-2	10	0-39/ 40-76	1212 CT/ 1211-621 VT	8000
HD-10-3	10	0-53/ 54-103	891 CT/ 890-458 VT	8000
HD-10-4	10	0-73/ 74-142	648 CT/ 647-332 VT	8000
HD-20-1	20	0-34/ 35-49	2779 CT/ 2778-1928 VT	8000
HD-20-2	20	0-39/ 40-56	2423 CT/ 2422-1687 VT	8000
HD-20-3	20	0-53/ 54-76	1783 CT/ 1782-1243VT	8000
HD-20-4	20	0-73/ 74-104	1294 CT/ 1293-908 VT	8000
HD-20-5	20	0-305/ 306-600	310 CT/ 309-158 VT	8000

\*CT = CONSTANT TORQUE VT = VARIABLE TORQUE  
BASE SPEED - 1750 RPM - STANDARD  
STANDARD VOLTAGE : 230/3/60 - OTHER VOLTAGES AVAILABLE

NOTE: FACE PLATE LOADING SHOULD BE REDUCED BY 38% FOR EACH 12" EXTENSION FROM FACE PLATE

# HEAVY 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

18" Dia. Steel x 2" thick. Supplied with 4 slots, which readily accommodate all types of special winding forms, fixtures and heads.

## SWING

39-3/4" height to center of face plate. (Models HD-03 and HD-05.)

41-1/4" height to center of face plate. (Model HD-10 and HD-20)

## BRAKING

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

## FACE PLATE OUTPUT SHAFT

Models HD-03 and HD-05 have a 3" Dia. shaft that is tapped to accept a 1"-8 Bolt. Models HD-10 and HD-20 have a 4" Dia. shaft that is tapped to accept a 1"-8 Bolt.

## BEARINGS

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

## HIGH OVERLOAD CAPACITY

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

## SPEED AND TORQUE CAPACITY

See speed and torque ranges chart.

## ENCLOSURE

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

## OPERATING POSITION

An optional Touchscreen controller is available for optimum performance and ease of use.

## IMPORTANT

When ordering, specify line voltage.

## MODIFICATIONS

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

## OPTIONAL ACCESSORY

Item VSSH Brake Spring Set Holding Spring. Engages when power is lost to the winder

MODEL	DIMENSIONS	WEIGHT(LBS.)	
		NET	GROSS
HD-3	24"W X 48"L X 47"H	1,000	1,100
HD-5	24"W X 48"L X 47"H	1,200	1,300
HD-10	49"W X 74"L X 50"H	2,300	2,500
HD-20	56"W X 85"L X 60"H	2,720	2,900

## Complete Winding Systems...



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