

COIL WINDING

MODEL 3-VAS & 3-VPAS MEDIUM DUTY COIL WINDERS

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.

3-VAS Counter

A Bi-Directional single level preset counter counts from 1 to 9,999 turn counts. Registers accurate turn count whether adding or subtracting turns. Best for **THREE PHASE WINDING**,

3-VPAS Counter

A Bi-Directional 16 level preset counter which counts from 1 to 9,9999 turn counts per level. Registers accurate turn count whether adding or subtracting turns. Best for **SINGLE and THREE PHASE WINDING**.

FLUX VECTOR DRIVE

The Flux Vector Drive offers soft, smooth starting and stopping. Controlled acceleration from zero to full speed prevents shock loads, stretching the wire and damaging the enamel on 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 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 and deceleration rates. The time to go from forward to reverse is only .2 seconds.

PULLING POWER

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

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 pedal regardless of which speed control option is being used.



3-VAS with optional Touchscreen Controller

| MODELS | TYPE | DIRECT DRIVE | | BACK GEARING | | H.P. DRIVE |
|-------------------|------|--------------|---------------|--------------|---------------|------------|
| | | RPM SPEED | LBS.FT TORQUE | RPM SPEED | LBS.FT TORQUE | |
| 3-VAS 3-VPAS | I | 0-408 | 44 | 0-43 | 420 | 3 |
| 3-VAS 3-VPAS | II | 0-296 | 62 | 0-31 | 587 | 3 |
| 3-VAS 3-VPAS | III | 0-259 | 78 | 0-27 | 741 | 3 |
| 3-HVAS 3-HVPAS | I | 0-710 | 43 | 0-75 | 408 | 5 |
| 3-HVAS 3-HVPAS | II | 0-512 | 60 | 0-54 | 570 | 5 |
| 3-HVAS 3-HVPAS | III | 0-431 | 71 | 0-45 | 675 | 5 |

Flux Vector Drive Equipment

Models 3-VAS & 3-VPAS - 3 H.P., 230/460/3/60
 Models 3-HVAS & 3-HVPAS - 5 H.P., 230/460/3/60
 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. 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

1-3/8" Dia. shaft is tapped to accept 5/8"-11 Bolt.

Bearings

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

Coil Weight Capacity

Loads up to 1,000 Lbs. when used with ACE Model 65 Tailstock. Loads up to 500 Lbs. at FacePlate without tailstock.

Enclosure

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

Important

When ordering, specify line voltage.



The ACE Coil Winding System

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



Illustrates Model 3-VPAS with standard Interface Terminal

Modifications

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

Gears

Motor torque multiplied 9.5 times through gearing.

| MODEL | DIMENSIONS | WEIGHT | |
|-----------------|--------------------|--------|-------|
| | | NET | GROSS |
| 3-VAS & 3-PAS | 25"W X 40"L X 50"H | 400 | 475 |
| 3-HVAS & 3-HPAS | 25"W X 40"L X 50"H | 425 | 500 |

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