

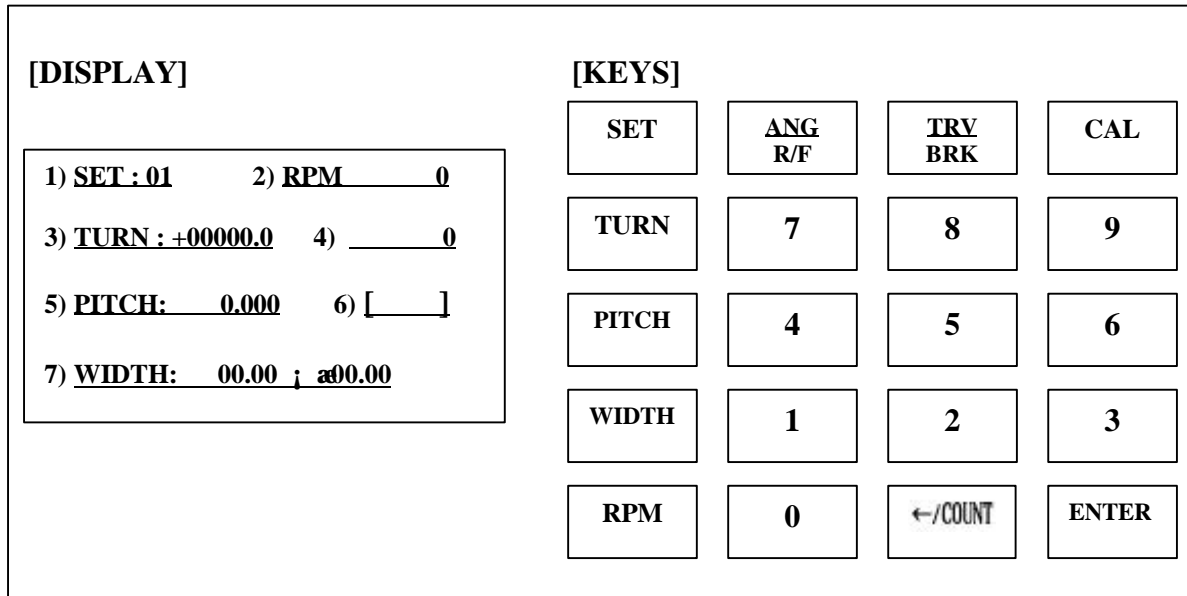
Coil Winding Machine

User's Manual

MODEL : KWA1001

Kwang Won Co., Ltd

1. Control Panel



[Fig. 1 : Control Panel]

1) SET : Winding Style No. (25 sets available)

2) RPM : Winding Speed in RPM

3) TURN : Winding Turns (Rotations)

ready : turns to be set

in operation : present turns

at stop : actual turns

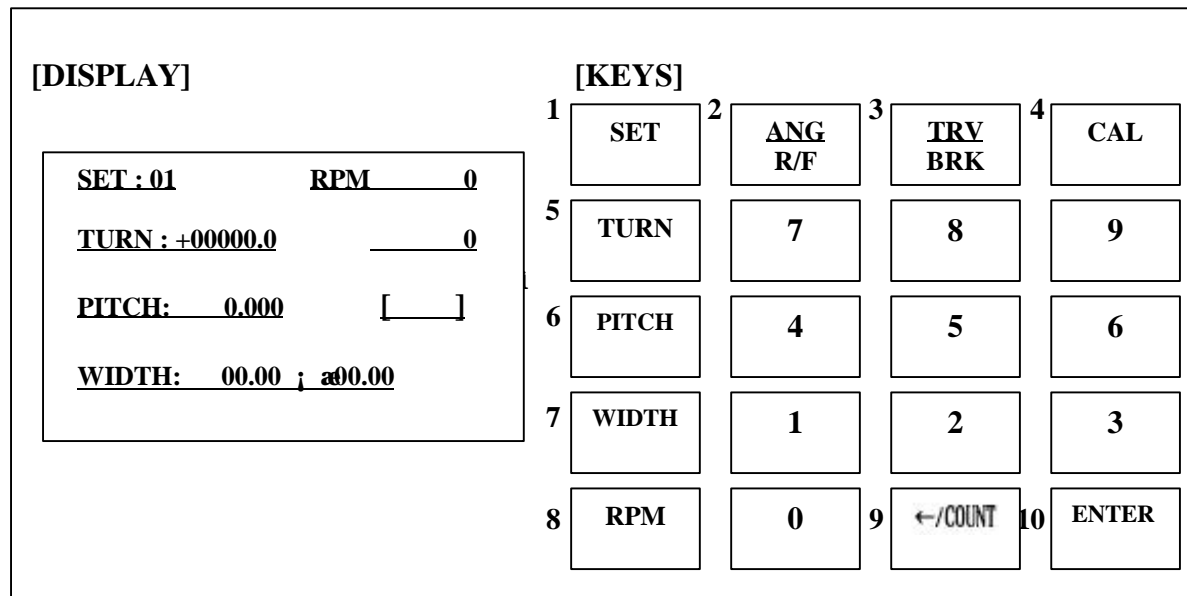
4) _____ 0 : Max. RPM

5) PITCH : Winding Pitch (mm)

6) [_____] : Position on axis (% of Rev.)

7) WIDTH : Width of bobbin (mm)

2. Function



[Fig. 2. Starting]

1)

SET

- Available up to 25 sets

- How to set (Fig. 2.)

Pushing this key, the cursor is located at item "SET".

Input the set number you want to set with numeric keys.

- Setting a "SET", input TURN, ANG/R/F, RPM, PITCH, WIDTH and TRV/BRK.

2)

ANG R/F

(ANGLE)

- Starting position to wind in degrees

NO : start from present position

000 : start from 12 O'clock position

180 : start from 6 O'clock position

SET : 01
ANGLE: NO → 000 ← 180
MOTOR: → FWD ← REV

[Fig. 3. ANGLE, R/F]

4) **CAL**

- **Adjusting actual turns to set turns**

Occasionally, actual turns can be a little different from the set turns.
In this case, push this key for adjustment of turns.

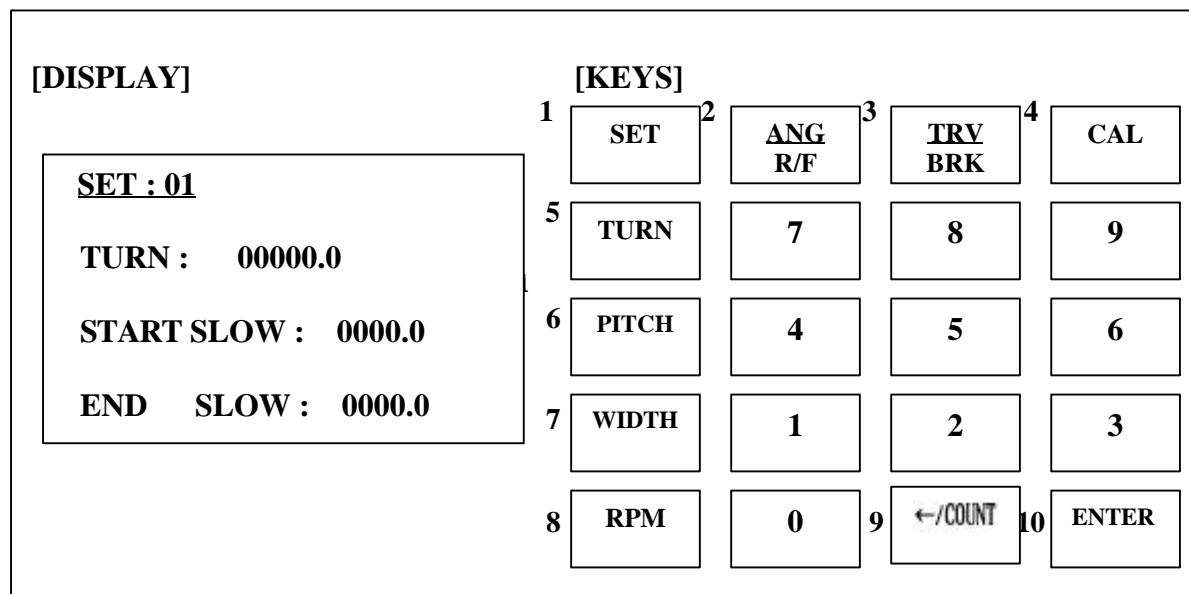
5) **TURN**

- Use this key to set turns you want and two factor, start slow and end slow.

TURN : Winding Turns (rotations)
START SLOW : Slow turns at the beginning of the SET
END SLOW : Slow turns at the end of the SET

- How to set (Fig. 5.)

Pushing this key, the cursor is located at item "TURN".
Pushing this key once more, the cursor moves next item.
Input data to set with numeric keys.



6)

PITCH

- Winding Pitch
- Unit : mm
- Minimum : 0.001mm
- How to set (Fig. 2.)

Pushing this key, the cursor is located at item "PITCH".
Input the diameter of coil with numeric keys.

7)

WIDTH

- Width of Bobbin
- Unit : mm
- Minimum : 0.01mm
- How to set (Fig. 2.)

Pushing this key, the cursor is located at item "WIDTH".
Input the width of a bobbin with numeric keys.
This width is a span from the start position to return position to wind.

8)

RPM

- Max speed setting : in RPM
- Unit : 10 RPM
- Minimum : 50RPM

SET : 01	TURN :	00000.0
PITCH :		0.000
END SLOW :		0000.0
SPEED MAX RPM :		00000

[Fig. 6. RPM]

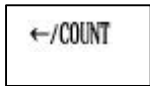
- How to set (Fig. 6.)

Pushing this key, the cursor is located at item "MAX RPM".
Input MAX RPM you want

- Display of reference data :

The parameters, turns, pitch and end slow, you already set are
Shown in display for your reference to set max. RPM.
Although "END SLOW" item reflects the value you set in advance,
it will be changed to the optimal value according to "MAX RPM"
you input.

9)

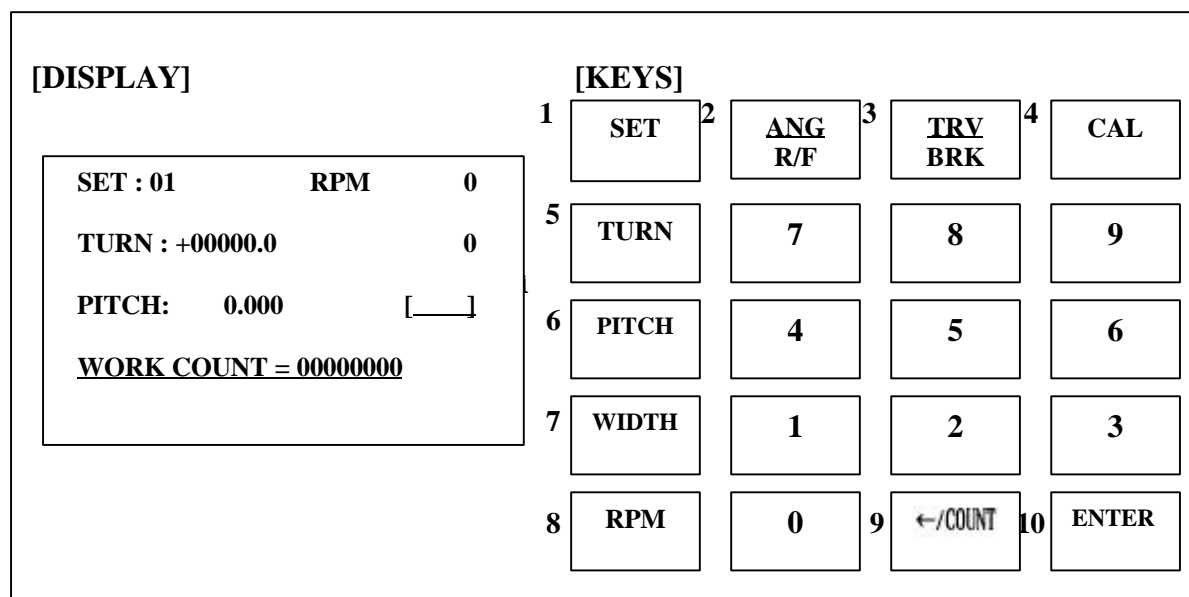


This key has two functions.

- One is “Erasing function key in numeric input mode”, Same as “Back Space” key in a computer keyboard.
- Another function is “counter”.

You can use this key when you want to know the quantity of production.
Pushing this key, “Work Count” is shown as like Fig. 7.

You can use this key when you want to reset this counter to zero.
Pushing this key for 3 seconds, this counter is reset to zero.
This function is available only while the motor stops.



[Fig. 7: </COUNT]

10)



Use to input, revise and save data.