Precision Bobbin Coil Winding Machines
CONCEPT

- Economical
- Industrial production
- Programmable with all functions known in today's bobbin winding industry
- Small space required
- Simple to operate

BW1

BW2

BW2-S

BW3

BW4

BW5

Economical

Small space required

Simple to operate

Ideal for low production runs
### RANGE OF MACHINES WITH TECHNICAL DATA

<table>
<thead>
<tr>
<th>Model</th>
<th>BW1</th>
<th>BW2-S(BW2)</th>
<th>BW3</th>
<th>BW4</th>
<th>BW5</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Production capability and equipment</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wire Range mm/Inch/AWG</td>
<td>0.05-1.0/#18 to 44 AWG</td>
<td>0.6-2.0/#12 to 22 AWG</td>
<td>0.05-1.0/#24 to 47 AWG</td>
<td>0.05-1.0/#24 to 47 AWG</td>
<td>0.05-3.0/#9 to 44 AWG</td>
</tr>
<tr>
<td>Traverse length 5-100</td>
<td>0.19-3.94</td>
<td>5-100</td>
<td>0.19-3.94</td>
<td>0-100</td>
<td>0.3-34</td>
</tr>
<tr>
<td>Max. coil OD mm</td>
<td>150.00</td>
<td>3.94</td>
<td>150.00</td>
<td>5.91</td>
<td>100.00</td>
</tr>
<tr>
<td>Spindle height</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pitch min./max</td>
<td>0-9.9999</td>
<td>0-0.39</td>
<td>0-9.9999</td>
<td>0-0.39</td>
<td>0-9.9999</td>
</tr>
<tr>
<td>No. of spindles</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>Spindle version</td>
<td>side</td>
<td>side</td>
<td>side</td>
<td>side</td>
<td>side</td>
</tr>
<tr>
<td>Tail stock</td>
<td>optional</td>
<td>optional</td>
<td>side</td>
<td>front</td>
<td>side</td>
</tr>
<tr>
<td>Foot switch</td>
<td>optional</td>
<td>optional</td>
<td>optional</td>
<td>optional</td>
<td>optional</td>
</tr>
<tr>
<td>Start automatic</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Safety stop</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Extra spindle brake</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Gear ratio low speed</td>
<td>1200-1500</td>
<td>1200-1500</td>
<td>1200-1500</td>
<td>1200-1500</td>
<td>1200-1500</td>
</tr>
<tr>
<td>Gear ratio high speed</td>
<td>4000-5000</td>
<td>4000-5000</td>
<td>4000-5000</td>
<td>4000-5000</td>
<td>4000-5000</td>
</tr>
<tr>
<td>Motor power</td>
<td>375W</td>
<td>750W</td>
<td>750W</td>
<td>750W</td>
<td>750W</td>
</tr>
<tr>
<td>Power supply</td>
<td>230V, AC</td>
<td>230V, AC</td>
<td>230V, AC</td>
<td>230V, AC</td>
<td>230V, AC</td>
</tr>
<tr>
<td>Program display</td>
<td>LED display</td>
<td>LED display</td>
<td>LED display</td>
<td>LED display</td>
<td>LED display</td>
</tr>
<tr>
<td>Memory capacity</td>
<td>999 program</td>
<td>999 program</td>
<td>999 program</td>
<td>999 program</td>
<td>999 program</td>
</tr>
<tr>
<td>Software languages</td>
<td>English</td>
<td>English</td>
<td>English</td>
<td>English</td>
<td>English</td>
</tr>
<tr>
<td>Drive motors</td>
<td>Spindle 3 phase motor with inverter, Traverse: stepper motor</td>
<td>Spindle 3 phase motor with inverter, Traverse: stepper motor</td>
<td>Spindle 3 phase motor with inverter, Traverse: stepper motor</td>
<td>Spindle 3 phase motor with inverter, Traverse: stepper motor</td>
<td>Spindle 3 phase motor with inverter, Traverse: stepper motor</td>
</tr>
<tr>
<td>Controller</td>
<td>Microprocessor or Logic Control</td>
<td>Microprocessor or Logic Control</td>
<td>Microprocessor or Logic Control</td>
<td>Microprocessor or Logic Control</td>
<td>Microprocessor or Logic Control</td>
</tr>
<tr>
<td>Electro station</td>
<td>Inside controller</td>
<td>Inside controller</td>
<td>Inside controller</td>
<td>Inside controller</td>
<td>Inside controller</td>
</tr>
<tr>
<td>Winding methods</td>
<td>Layer stop, spreading etc.</td>
<td>Layer stop, spreading etc.</td>
<td>Layer stop, spreading etc.</td>
<td>Layer stop, spreading etc.</td>
<td>Layer stop, spreading etc.</td>
</tr>
<tr>
<td>Control panel</td>
<td>Operator keys for machine functions and corrections as well as start stop reset and emergency buttons</td>
<td>Operator keys for machine functions and corrections as well as start stop reset and emergency buttons</td>
<td>Operator keys for machine functions and corrections as well as start stop reset and emergency buttons</td>
<td>Operator keys for machine functions and corrections as well as start stop reset and emergency buttons</td>
<td>Operator keys for machine functions and corrections as well as start stop reset and emergency buttons</td>
</tr>
<tr>
<td>Speed and torque change</td>
<td>Easy change with pulleys and belt</td>
<td>Easy change with pulleys and belt</td>
<td>Easy change with pulleys and belt</td>
<td>Easy change with pulleys and belt</td>
<td>Easy change with pulleys and belt</td>
</tr>
<tr>
<td>Traverse</td>
<td>Precision ball bearing lead screw</td>
<td>Precision ball bearing lead screw</td>
<td>Precision ball bearing lead screw</td>
<td>Precision ball bearing lead screw</td>
<td>Precision ball bearing lead screw</td>
</tr>
<tr>
<td>Weight net/gross kg</td>
<td>60</td>
<td>90</td>
<td>60</td>
<td>90</td>
<td>60</td>
</tr>
<tr>
<td>Space for machine mm</td>
<td>80<em>50</em>70</td>
<td>80<em>50</em>70</td>
<td>80<em>50</em>70</td>
<td>95<em>62</em>90</td>
<td>95<em>62</em>90</td>
</tr>
</tbody>
</table>
MODEL BW1 BOBBIN WINDING MACHINE

The BW1 is an up-to-date microprocessor controlled bench model of high quality and considerable value. It is designed for high-frequency switching power coils, multifunctional controller and stable winding pitch system. It uses an inverter motor and driver as its main winding power, and a precise stepping motor to adjust wire pitch in order to meet the extra requirement of customer's high-quality control. The BW1 has simple operation and speed.

**CONTROLER**
- Microprocessor Logic control

**DISPLAY**
- LED Display

**MEMORY CAPACITY**
- 999 Programs

**PROGRAMMING**
- Manual Set-Up

**WINDING SPEED**
- Up to 3000rpm

**WINDING DRIVE**
- POWER AC INVERTER MOTOR

**WIRE PITCH CONTROL**
- STEPPING MOTOR

**ACCELERATION**
- PROGRAM AUTOMATIC

**DECELERATION**
- PROGRAM AUTOMATIC

**MAIN WINDING DRIVE POWER**
- AC 0.5HP INVERTER MOTOR

**SUPPLY VOLTAGES**
- 230 VOLT, 50-60HZ

**MACHINE SIZE AND WEIGHT**
- L700MM X W750MM X H550MM 42KG

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**TECHNICAL DATA:**

<table>
<thead>
<tr>
<th></th>
<th>mm</th>
<th>inch/AWG</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIRE SIZE</td>
<td>0.05-1.0mm</td>
<td>#18-44 AWG</td>
</tr>
<tr>
<td>NO. OF SPINDLE</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>TRAVERSE WIDTH</td>
<td>0-100mm</td>
<td>0-3.94inch</td>
</tr>
<tr>
<td>READ PITCH</td>
<td>0-9.999mm</td>
<td>0-0.39inch</td>
</tr>
<tr>
<td>MAX. WINDING DIMENSION</td>
<td>100mm</td>
<td>up to 3.94inch</td>
</tr>
</tbody>
</table>

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WIRE SPOOL

WIRE TENSIONER
- T type 0.1-0.3mm
- TZ type 0.03-0.1mm
MODEL BW2 BOBBIN WINDING MACHINE

The BW2 is an up-to-date microprocessor controlled bench model of high quality and considerable value. It is designed for transformers and chokes. It uses inverter motor and driver as its main winding power, and a precise stepping motor to adjust wire pitch in order to meet the extra requirement of customer’s high-quality control.

**CONTROLLER**
Microprocessor Logic control

**DISPLAY**
LED Display

**MEMORY CAPACITY**
999 Programs

**PROGRAMMING**
Manual Set-Up

**WINDING SPEED**
Ratio low=1500 rpm
Ratio high=5000rpm

**WINDING DRIVE**
POWER AC INVERTER MOTOR

**WIRE PITCH CONTROL**
STEPPING MOTOR

**ACCELERATION**
PROGRAM AUTOMATIC

**DECELERATION**
PROGRAM AUTOMATIC

**MAIN WINDING DRIVE POWER**
AC 1HP INVERTER MOTOR

**SUPPLY VOLTAGES**
230 Volt/50-60Hz

**MACHINE SIZE AND WEIGHT**
L550MM x W460MM x H450MM 38KG

**Option:**
TAILSTOCK WITH SWING AWAY FUNCTION

**TECHNICAL DATA:**

<table>
<thead>
<tr>
<th></th>
<th>mm</th>
<th>inch/AWG</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIRE SIZE</td>
<td>0.6-2.0mm</td>
<td>#12 1/2-22 1/2AWG</td>
</tr>
<tr>
<td>NO. OF SPINDLE</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>TRAVERSE WIDTH</td>
<td>0-100mm</td>
<td>0-3.94inch</td>
</tr>
<tr>
<td>READ PITCH</td>
<td>0-9.999mm</td>
<td>0-0.39inch</td>
</tr>
<tr>
<td>MAX WINDING DIMENSION</td>
<td>150mm</td>
<td>up to 5.91inch</td>
</tr>
</tbody>
</table>
MODEL BW2-S BOBBIN WINDING MACHINE

The BW2-S is an up-to-date microprocessor controlled bench model of high quality and considerable value. It is designed for high-frequency switching power coils, multifunctional controller and stable winding pitch system. It uses a special inverter motor and driver as its main winding power, and a precise stepping motor to adjust wire pitch in order to meet the extra requirement of customer’s high-quality control. And it has proven to be the optimal choice in VC’s BOBBIN winding machines for heavy wire applications with one spindle.

**CONTROLLER**
Microprocessor Logic control

**DISPLAY**
LED Display

**MEMORY CAPACITY**
999 Programs

**PROGRAMMING**
Manual Set-Up

**WINDING SPEED**
ratio low=1500 rpm
ratio high=5000rpm

**WINDING DRIVE**
POWER AC INVERTER MOTOR

**WIRE PITCH CONTROL**
STEPPING MOTOR

**ACCELERATION**
PROGRAM AUTOMATIC

**DECELERATION**
PROGRAM AUTOMATIC

**MAIN WINDING DRIVE POWER**
AC 1HP INVERTER MOTOR

**SUPPLY VOLTAGES**
230 VOLT, 50-60HZ

**MACHINE SIZE AND WEIGHT**
L500MM X W480MM X H420MM 36KG

**Option:**
TAILSTOCK WITH SWING AWAY FUNCTION

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**TECHNICAL DATA:**

<table>
<thead>
<tr>
<th>TECHNICAL DATA</th>
<th>mm</th>
<th>inch/AWG</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIRE SIZE</td>
<td>0.8-2.0</td>
<td>#12 1/2-22 1/2AWG</td>
</tr>
<tr>
<td>NO. OF SPINDLE</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>TRAVERSE WIDTH</td>
<td>0-133mm</td>
<td>0-5.24inch</td>
</tr>
<tr>
<td>READ PITCH</td>
<td>0-9.999mm</td>
<td>0-0.38inch</td>
</tr>
<tr>
<td>MAX WINDING DIMENSION</td>
<td>150mm</td>
<td>up to 5.91inch</td>
</tr>
</tbody>
</table>

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BW2-S
MODEL BW3 BOBBIN WINDING MACHINE

The BW3 is an up-to-date microprocessor controlled bench top model of high quality and considerable value. It is designed for high-frequency switching power coils, multifunctional controller and stable winding pitch system. It uses a special inverter motor and driver as its main winding power, and a precise stepping motor to adjust wire pitch in order to meet the extra requirement of customer’s high-quality control. And it has proven to be the optimal choice in VC’s BOBBIN winding machines for fine wire applications with 2-spindles.

**TECHNICAL DATA:**

<table>
<thead>
<tr>
<th></th>
<th>mm</th>
<th>inch/AWG</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIRE SIZE</td>
<td>0.03-0.05mm</td>
<td>#24 to 47AWG</td>
</tr>
<tr>
<td>NO. OF SPINDLE</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>TRAVERSE WIDTH</td>
<td>0-100mm</td>
<td>0-3.94inch</td>
</tr>
<tr>
<td>READ PITCH</td>
<td>0-9.999mm</td>
<td>0-0.39inch</td>
</tr>
<tr>
<td>MAX WINDING DIMENSION</td>
<td>100mm</td>
<td>up to 3.94inch</td>
</tr>
</tbody>
</table>

**CONTROLLER:**
- MICROPROCESSOR LOGIC CONTROL

**DISPLAY:**
- LED DISPLAY

**MEMORY CAPACITY:**
- 999 PROGRAMS

**PROGRAMMING:**
- MANUAL SET-UP

**WINDING SPEED:**
- UP TO 5800 RPM

**WINDING DRIVE:**
- POWER AC INVERTER MOTOR

**WIRE PITCH CONTROL:**
- STEPPING MOTOR

**ACCELERATION:**
- PROGRAM AUTOMATIC

**DECELERATION:**
- PROGRAM AUTOMATIC

**MAIN WINDING DRIVE POWER:**
- AC 1HP INVERTER MOTOR

**SUPPLY VOLTAGES:**
- 230 VOLT:50-60HZ

**MACHINE SIZE AND WEIGHT:**
- L700MM X W500MM X H900MM 42KG

**WIRE SPOOL**

**WIRE TENSIONER**
- T1 type 0.1-0.3mm
- T2 type 0.03-0.1mm
MODEL BW4 BOBBIN WINDING MACHINE

The BW4 is an up-to-date multi-spindle controlled benchtop model of high quality and considerable value. It is designed for power coils, it is for spindles, multifunctional controller and stable winding pitch system. It uses a special inverter motor and driver as its main winding power, and a precise stepping motor to adjust wire pitch in order to meet the extra requirement of customer's high-quality control. And it has proven to be the optimal choice in VC's BOBBIN winding machines for fine wire applications with 4-spindles.

- Controller: Microprocessor Logic Control
- Display: LED Display
- Memory Capacity: 999 Programs
- Programming: Manual Set-Up
- Winding Speed: Up to 5500 RPM
- Winding Drive: Power AC Inverter Motor
- Wire Pitch Control: Stepping Motor
- Acceleration: Program Automatic
- Deceleration: Program Automatic
- Main Winding Drive Power: AC 0.5HP Inverter Motor
- Supply Voltages: 230 Volt, 50-60Hz
- Machine Size and Weight: L700MM x W600MM x H500MM 45KG

**Technical Data:**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>mm</th>
<th>inch/AWG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire Size</td>
<td>0.03-0.05</td>
<td>#24 to 47</td>
</tr>
<tr>
<td>No. of Spindle</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Traverse Width</td>
<td>0-100</td>
<td>0-3.94</td>
</tr>
<tr>
<td>Read Pitch</td>
<td>0-9.999</td>
<td>0-0.39</td>
</tr>
<tr>
<td>Max Winding Dimension</td>
<td>80</td>
<td>up to 3.15</td>
</tr>
</tbody>
</table>

**Wire Spool:**

- T1 type 0.1-0.3mm
- T2 type 0.03-0.1mm
MODEL BW5 BOBBIN WINDING MACHINE

The BW5 is an up-to-date microprocessor controlled bench model of high quality and considerable value. It is designed for high-frequency switching power coils, multifunctional controller and stable winding pitch system. It uses a special inverter motor and driver as its main winding power, and a precise stepping motor to adjust wire pitch in order to meet the extra requirement of customer’s high-quality control.

TECHNICAL DATA: | mm | inch/AWG |
--- | --- | --- |
WIRE SIZE | 0.05-3.0mm | 9 to 44AWG |
NO. OF SPINDLE | 1 | 1 |
TRAVERS WIDTH | 0-350mm | 0-13.78inch |
READ PITCH | 0-9.999mm | 0-0.39inch |
MAX WINDING DIMENSION | 350mm | up to 13.78inch |

WIRE SPOOL

WIRE TENSIONER
T1 type 0.1-0.3mm
T2 type 0.03-0.1mm
ACCESSORIES

Spreading Device Nozzi System 1 application for BW3, BW4. The red gem leading needle can escape from flowing.

Spreading Device Nozzi System 2 application for BW3, BW4. The red gem leading needle can escape from flowing.

Spreading Device for Heavy Wire application for BW2.

Spreading Device for Fine Wire application for BW1, BW2.

Tension Controller suitable for wire with diameter less than 0.3mm, to avoid breaking of lacquered wire for BW1, BW3, BW4.

Insulation Taping Set Application for BW1. Bakelite wheel is used on tension controller and alignnet.

Controller

Wire spool