# CLS-10V

### EXTENSION SPRING MACHINE

## HIGH SPEED MACHINE SPECIALLY FOR FORMING EXTENSION SPRING WITH DOUBLE LOOPS

LOOPING & INSPECTION INDIVIDUALLY PERFORMED AT CERTAIN STAGE AFTER COILING PROCESS



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#### **FEATURES**

#### 2-Axis servomotor equipped as standard spec

In addition to Feed Axis and Cam Axis, if a servomotor for Initial tension is used, minute adjustment for load can be controlled digitally.

#### Production speed 120ppm at maximum

120 pcs of extension spring part with double loops of same diameter can be produced per minute.

#### • 1 Cycle mode for checking is now available

Cam axis can be controlled to turn slowly and also alternate rotation direction with the handy pulse dial unit.

Fine adjustment on toolings can be controlled easily.

#### Color Control Panel in touch operation

Screen change, Feed Length, Production Management, Parameter set-up and so on can be controlled by touch panel operation.

#### Movable toolings applied for CLS10V

Short body with U Hook can be formed with both movable base tool and movable squeeze tool.

• Cut Clamp & Base Adjuster are available optionally Spring part of small D/d index and Varied diameter spring part can be formed.

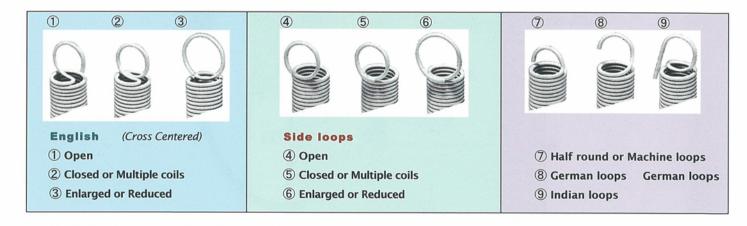
#### **STANDARD ACCESSORIES**

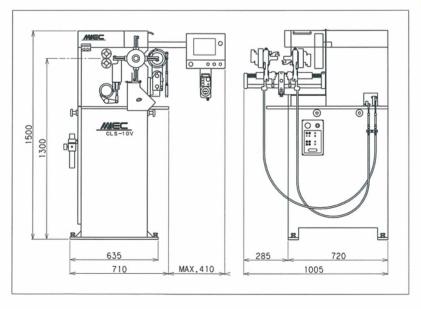
Toolings for 1 wire diameter	1 set
→ Cams	1 set
<ul><li>End Alignment Sensor</li></ul>	1 unit
<ul><li>Solenoid Valves</li></ul>	4 pcs
Handy Pulse Dial Unit	1 unit
→ Tool Box	1 set

#### **OPTIONAL ACCESSORIES**

- Tooling Unit V
- Initial Tension Servo Unit
- Cut Clamp
- Clamp Base Adjuster
- → Toolings/Dumper unit suitable for long coil of 100~140mm

#### FORMED LOOPS





#### MACHINE SPECIFICATIONS

Wire Diameter  $\phi$  0.12~1.0mm (.0047-.0394") (See Note) Outside Coil Diameter φ1~12mm (.0394-.4724") Spring Length 3.0~100mm (.0984-3.937") Direction of Helix Clockwise Maximum Feed Length 9999mm (393.66") Production Speed 120ppm at max. Feed Axis Motor 600W AC Servo Motor Cam Axis Motor 750W AC Servo Motor Power Supply AC200V, 20A, 3phase Solenoid Valves 4 pcs Air Requirements 0.5Mpa (5.1kgf/cm²) Weight 440kg (970lbs)

[Note] For wire diameter from 0.9 $\sim$ 1.0mm, D/d must be greater than 6.

