

# DZ-3

## COILING TORSION SPRING MACHINE

NEW AGE FOR FINE WIRE  
SPRING MACHINE



### HIGH-SPEED, HIGH ACCURACY COILING & BENDING

- Three 3D slides (Top, Left, and Right) move as your fingers and enable you to create complex shape of springs.
- High Accuracy and High-Speed coiling as other Coiling Machines.
- Standard is 6 tools: Tool Changer, R-Servo, Off bending, and Bending. You may add more by Unit Configuration.
- Grip Unit can form the complex shape after cut in secondary processing.



ORIIMEC CORPORATION OF AMERICA  
1840 AIRPORT EXCHANGE BLVD. #200  
ERLANGER, KY 41018 USA  
1.888.746.3320  
[www.oriimec.com](http://www.oriimec.com)

### ADOPT FREE MODULAR DESIGN

- You can freely mount on Top, Left, Right Unit.
- Also you can change to optional Units.
- You can add/switch Units by yourself.

**MEC**  
[WWW.ORIIMEC.COM](http://WWW.ORIIMEC.COM)



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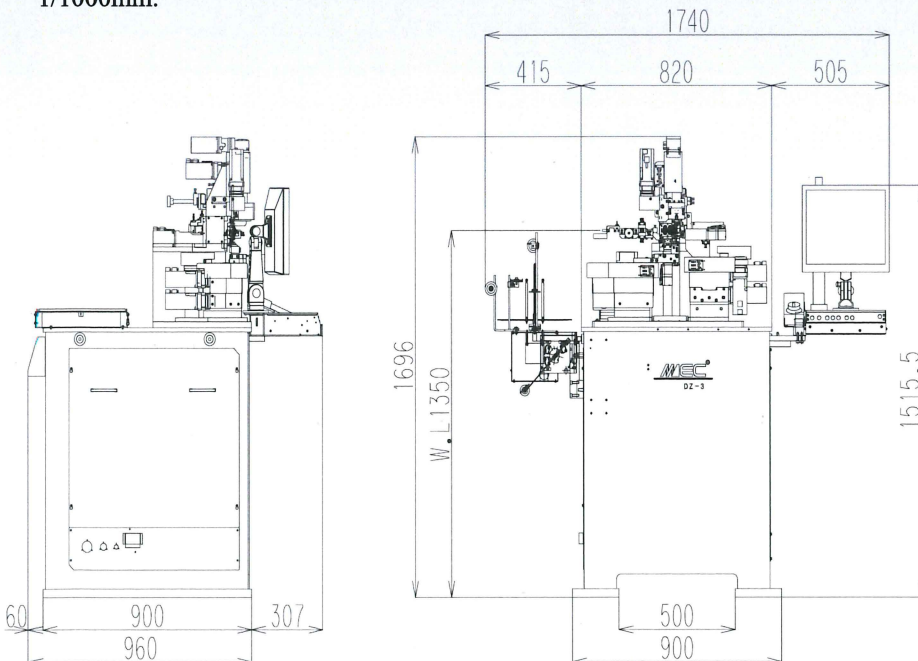
## COILING TORSION SPRING MACHINE

### FEATURES

- Comes equipped with 15 Axes: Feed/Pitch/Arbor back and forth/three 3D slides/Tool Changer/ R-Servo/MSD-3
- Three 3D slides (Top, Left, and Right) enables you to create the various shape of springs freely.
- This machine has same coiling ability (Accuracy/Speed) as other coiling machine.
- We present new processing method by the Tool Changer which can set up to 3 tools and the R-Servo.
- **Free Module Design:** All units are independent, so it is easy to change. Also you can mount the special unit which you want.
- **Grip Unit** enables secondary processing after cut.
- **Double feed roller system** constantly feeds the wire without crushing.
- Comes equipped with 16mm Wire Guide. Ultrafine holder of 11mm wire guide is optional.
- **Rotary cut** can be done by programing.
- Comes equipped with world proven stable "MNO system". Easily check All Axes, also by scrolling to side you can easily check Program Flow, Sensor movement, In-out put, Jump index and so on.
- Comes equipped with "MSD-3" that measures free length using contact sensor for positioning servomotor. It is measurable by 1/1000mm.

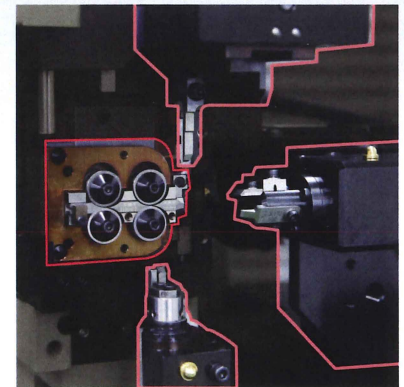
### MACHINE SPECIFICATIONS

Wire Diameter	φ0.02~φ0.3
Max. Outer Diameter	φ8
D/d	Min 3.5
Wire Diameter by Ultrafine Holder (OP)	φ0.02~φ0.1
Feed Axis Resolution	0.001mm
Pitch Axis Resolution	0.001°
Arbor Axis Resolution	0.001°
3D Slide Axis Left/Right Resolution	0.0001mm
3D Slide Axis Top Resolution	0.001mm
Tool Changer Axis Resolution	0.001°
R-Servo Axis Resolution	0.001°
Solenoid Valves	4 PCS (Max.8 PCS available)
Service Air Pressure	Max. 0.5Mpa
Power Source	AC 200V 3-phase, 45A
Net Weight	850kg
Control Device	OS Windows 7
Display	17" TFT Color LCD
External Memory	USB thumb drive
Service Temperature	0~40°C



**PITCH / ARBOR**  
Double Φ16 Feed  
Roller  
Guide Length  
16mm

TOP 3D SLIDE



LEFT  
3D SLIDE

RIGHT  
3D SLIDE

There are separate standard accessory detail list.  
Specifications are subject to change without notice.