

VM-40

CNC MULTI-AXIS SPRING FORMER

Hi-speed forming machine w/wire revolving mechanism

Available for up to wire diameter 4mm

Fluid & vibration-free operation with low inertia feed unit

Fine adjustment can be made with only program after tooled-up



ORIIMEC

ORIIMEC CORPORATION OF AMERICA
1840 AIRPORT EXCHANGE BLVD. #200
ERLANGER, KY 41018 USA
1.888.746.3320
www.oriimec.com

MEC
WWW.ORIIMEC.COM

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CNC MULTI-AXIS SPRING FORMER

MACHINE SPECIFICATIONS

Wire Dia.	0.6mm (0.024")-4.0mm (0.157")
Index D/d	4 or more
Twirl range	Radius 140 mm
Slides	
Twin Slide	1 pc
Tool Slide	1 pc
DR Servo Slide	1 pc
SR Servo Slide	1 pc
Crank Slide	1pc
Cut Slide	2 pcs
Control Device	
Max. 16-Axis to be controlled by	OS Windows XP
Display	17" TFT color LC display
External memory	USB thumb drive
Service Temp.	0° ~ 40 °C
Power source	AC 200V, 3-phase, 50A
Service Air pressure	Max. 0.5MPa
Net weight	4200 kg (9259lb)

Specifications subject to change without notice.

FEATURES

- Feed unit has a newly developed revolution mechanism that does not need offset. Center of gravity is at very center of revolution, i.e. only a little bit of inertia results in hi-speed and smooth wire revolution, and also no vibration even though hi-speed.
- Integrated feed unit including quill moves 60mm back-and-forth, and it is easy to adjust coil diameter, twirl, and to form parts that have a long tail.
- Main tooling table is divided into 2 parts up and down, i.e. slides arranged on each table move +/-53mm from side to side. Adjustment for initial tension, pitch, and alignment of grooves on toolings can be made with the program.
- Quill has 140mm in depth and Slide travels 160mm that give enough room for twirling of products.
- 4 toolings at max can be mounted on the twin slide that is driven by only one motor.
- 2 R servos, one having inner/outer double-revolution, and another having only outer end single-revolution, are equipped as standard spec. WR servo can be moved forward as far as 100mm at max.
- Program display controlled by "MNO" is easy-to-read, i.e. program flow, each axis operation status, input/output, and jump can be grasped by scrolling.
- Easy to make long program and also shortened setup time with multifunction.
- Gauging, coil end control, input/output and other program screens comes on independently.

MOTOR SENSOR SYSTEM, MSD-1

Standard spec. The contact sensor functions as positioning for cut axis, pitch axis drive servomotor. It measures free length, outside diameter, leg portion angle in 1/1000mm resolution, and performs corrective control. It functions as well as capacitance sensor or contact type sensor.

