

CNC Forming Machine

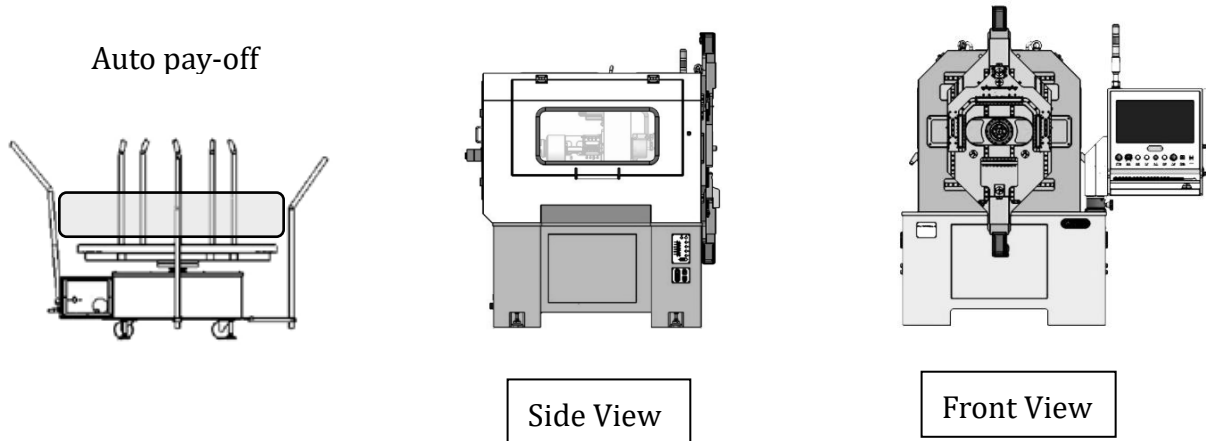


SFM-20



A. Introduction

SFM-20 is CNC multi-axes spring former, which is equipped with 6 standard axes (6 servo motors) included wire feeding axis, wire rotation axis, quill rotation axis, and 3 units of slide axis.

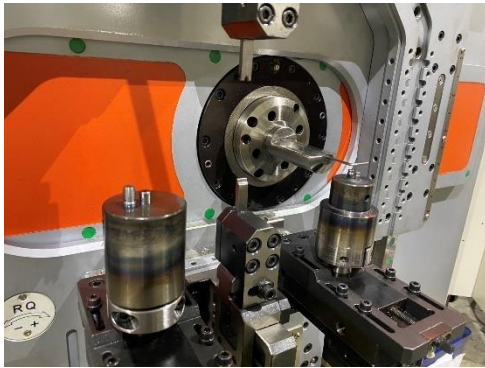


The wire feeding axis is driving feed rollers to feed wire on an automatic pay off (decoiler) to a quill through a wire rotation plate, straightened rollers seat and feed rollers. The wire rotation axis is rotating feed rollers seat by 360 degrees at will, to make wire in synchronism. The quill rotation axis is rotating a quill by 360 degrees, to make the quill fully assist tools in forming and cutting. The slide axes are driving 3 sliders to move forward, backward, and left/right.

B. Specification:

Model No.		SFM-20
Standard Axes Quantity		6
Max. Axes Quantity		18
Wire Diameter (mm)		0.6~2.6
Max. Outer Diameter (mm)		40
Max. Leg Length (mm)		60
Power Supply		(transformer 380/400/415/440V is available)
Machine Dimension (mm)	L	1970
	W	1790
	H	1770
Weight (kg)		1630

C. Feature:

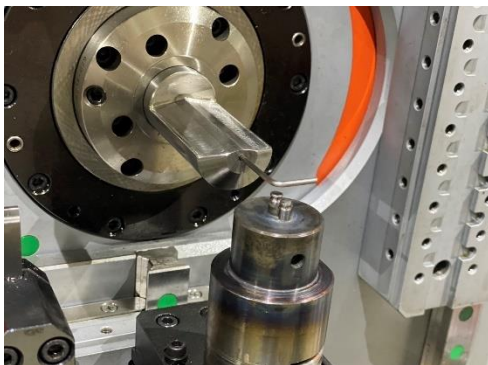


Flexible Slide Table

slide table can move go/back and left/right, , which create great flexibility for tool arrangement and working zone. The slide tables and tool holders have measuring scales, and all axes is controlled by absolute motors for minimizing the setup time.

Patented Spring Software

Through Window-based motion control integrating EtherCAT communication, the software provides Intuitional chart programming helps to optimize your program, reducing the time gap between axis movements, greatly increase production speed.

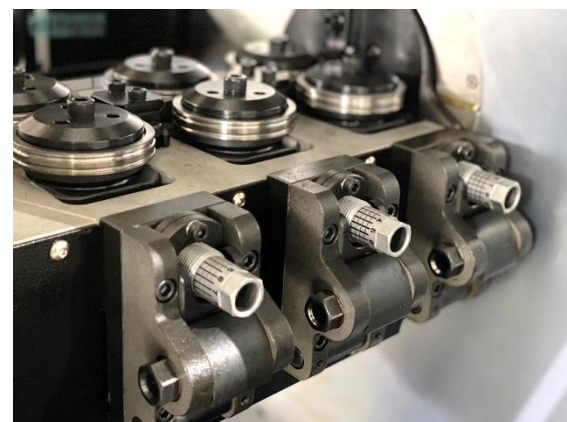


Integrated Structure

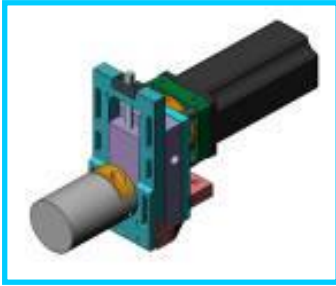
For complicated work pieces, we provide a variety of additional axes and accessories including (duel) servo spinner, servo rotary griper, to increase speed, and enhance quality at work piece.

Fast Release Design

The hydraulic quill sleeve and the aluminum feeding roller seat built in fast release design. The operator will easily and quickly lock or release the quill and the feeding rollers. And, the feeding rollers seat is built in safety switch & button, both of which make checking time reduce much in setup.

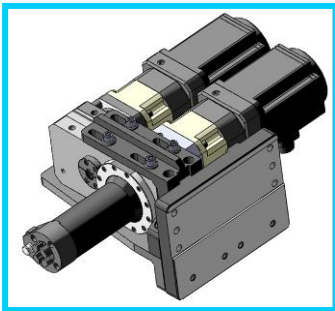


D. Option for Additional Axis:



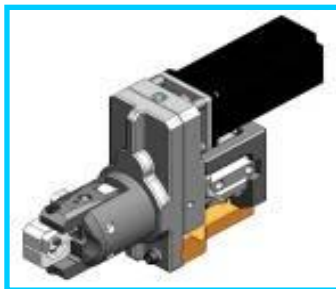
1. Servo Spinner:

Quickly bend a work piece for reducing production time and setup difficulty. It can replace most work of tools for bending purpose.



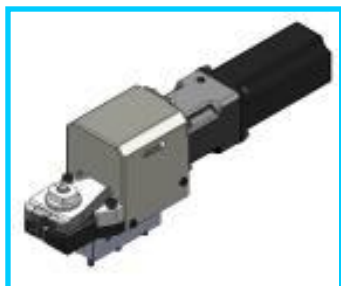
2. Dual Servo Spinner:

It equipped with two servo motors, one of which is switching different angle, the other is bending a work piece. It can quickly bend in every different angle.



3. Servo Rotary Gripper:

Grip and rotate a whole work piece for assistance forming, usually for pulling out second hook of a bigger tension spring.



4. Servo Cutter:

Substitute the cutting tool. This is usually for a longer arbor, and reducing wear loss of an arbor when a work piece is bigger and longer.

E. Option for Accessory:



1. Cylinder Clamp:

Grip a work piece in cutting, and release and drop it to the fixed position or off the working zone, to avoid deforming after falling to the ground.



2. Camera Detector:

No need back light. Easy and quick setup. Support outline discrimination, measure of area with various

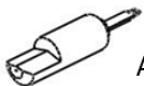


3. Safety Interlock and Safety Cover:

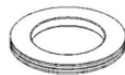
Provide wiring, safety interlock, and safety cover

5. One job of spring setup and tooling according to a spring drawing

6. Full set of standard tooling for the range of wire diameter



Arbor



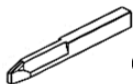
Feeding Roller



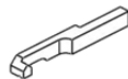
Wire Guide



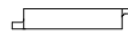
Cutter



Coiling Tool



Groove Bender



Mandrel

F. Automatic pay off /decoiler (option):



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