BENDING MACHINE FOR CIRCULAR ELEMENTS

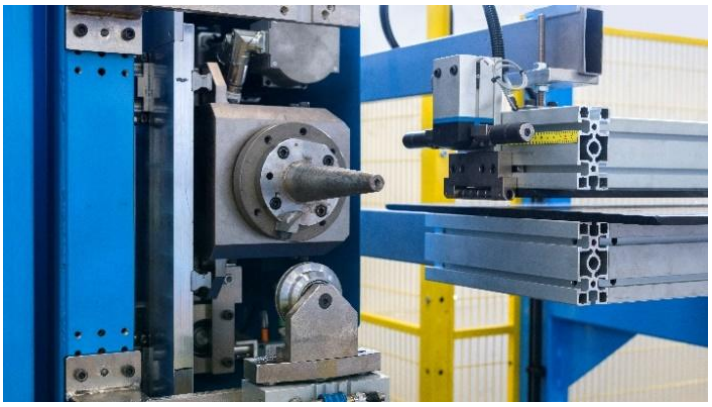
WATCH THE VIDEO

This machine has been designed to combine the numerical control capabilities with software and tooling to allow the user to form a large variety of circular elements.

Summary

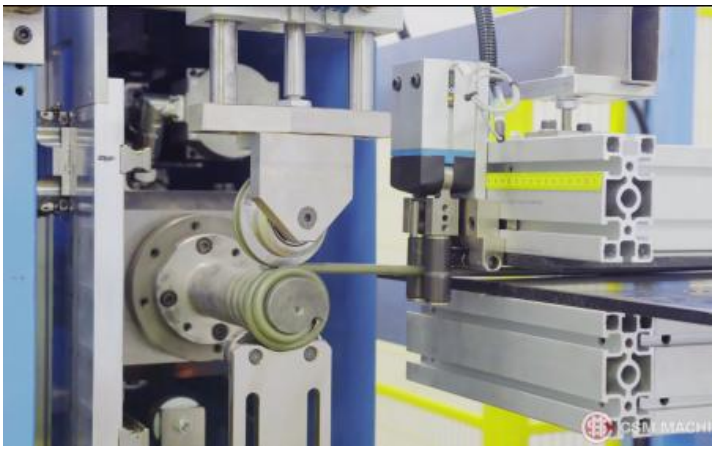
ADVANTAGES

PASS THROUGH ARBOUR TO ALLOW FOR ELEMENTS WITH A CENTRAL LONG LEG TO BE FORMED



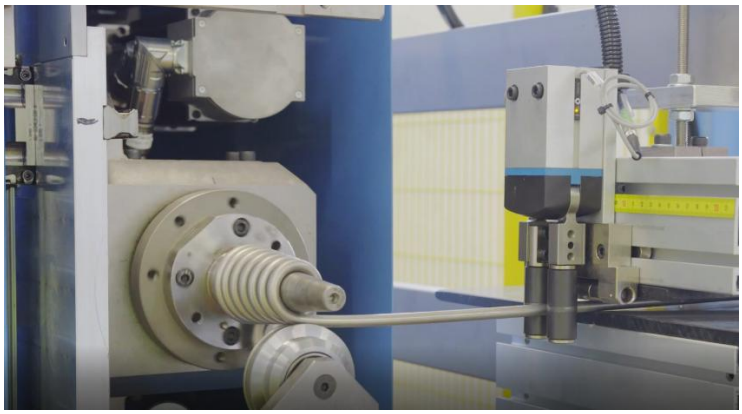
ALIGNMENT OF FORMING HEAD WITH ELEMENT SUPPORT IN TERMS OF HEIGHT

(small diameter or large diameter arbours are set electronically up or down so that it not necessary to manually adjust the element support)



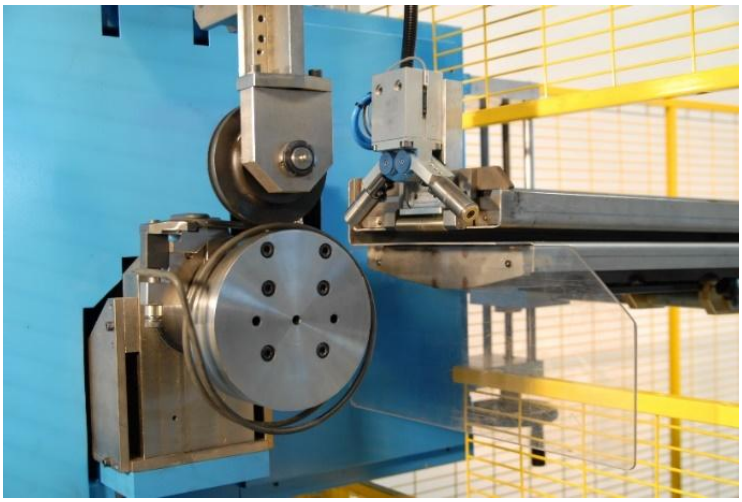
COMMUNICATION WITH REMOTE SYSTEM TO EXCHANGE DATA AND SAVE OR LOAD WORK PROGRAMS

POSSIBILITY TO FORM CONICAL ELEMENTS



SPECIAL BENDING

(forming) machine for circular type heating elements.



MACHINE COMPOSITION

The machine is made up of a numerically controlled head for coiling (forming) the heating element which is driven by an adjustable speed gearmotor. The required number of turns and the rotation degrees for the last turn can be programmed.
Different heating element models can be made by replacing the forming head.

Production cycle

Start, the coiling (forming) cycle is carried out, the coiled element is unloaded, and another element is positioned.

Set up for the coiling head when changing heating element model

- Replacement of the bending roll, if required
- Recall or create a new program on the operator interface. The program includes the required number of revolutions, the start angle and the stop angle of the last turn and pitch
- Adjustment of the forming (coiling) speed, if required
- Adjust the head height with reference to element support so that the element is in line with the top of the form roll and the element support when changing the form roll diameter.
- Reposition the guide roll when rolling from the top (anticlockwise) or from the bottom of the roll (clockwise)

TECHNICAL CHARACTERISTICS

Power supply	V	To be defined
Pneumatic supply	Bar	6
Heating element diameter	mm	6,25-12
Heating element length	mm	To be defined
Max. arbour diameter (where element will be wound)	mm	600
Max. stroke of the coiling head (max spread of element along arbour)	mm	500
Set-up at the change of the model	min.	10-20

Note: Different shapes are done by changing the tooling which is always specific to a particular drawing. Some circular shapes may allow the usage of the same tooling when only the number of turns vary.

AVAILABLE VERSIONS

Mod. 170/20.CNM300	3000mm max element length
Mod. 170/20.CNM400	4000mm max element length
Mod. 170/20.CNM500	5000mm max element length
Mod. 170/20.CNM600	6000mm max element length

LAYOUT