OAK COIL FORM MACHINE

OAK coil form machines produce high-quality distortion free bends in coils. Recent innovations provide the ability to make bends that were previously impossible when using very low-strength, enhanced fin designs. These machines will form single row coils or multiple single-row coils joined at one end.

The vertical arbor coil form machine incorporates a single, vertically oriented bend arbor that produces one, two, or three 90° bends, which create L-, U-, or box-shaped coils. The cycle time required to produce a single bend - after the coil has been loaded and positioned - is approximately 10 seconds. The vertical arbor technique leaves the mechanical bond between the fin and tube undisturbed, ensuring maximum heat transfer.

PRODUCTION
1 minute for a single row 3 bend coil
Includes time required for loading, machine processing and unloading.

FOOTPRINT
≈ 216” (5.5 m) long
≈ 135” (3.5 m) wide
≈ 95” (2.4 m) tall

WEIGHT
≈ 6,000 lbs (2,722 kg)

POWER
No hydraulics
No water hookups
1 CFM @ 80-100 psi air requirement
15 kW @ .80/.82 PF
24 VDC Controls

*Special voltage Transformer Option Available

**Foundation information supplied upon request
OAK COIL FORM
Vertical Arbor Coil Forming

COIL TYPES
- Round Tube Plate Fin (RTPF) Single
- 1+1 Row Coil
- 1+1+1 Row Coil
- Micro Channel Coil (MCHX)

CAPACITY
- Up to 60” (1.5 m) wide
- 118” (3 m) long

CAPABILITY
- Electrically actuated
- Larger capacity
- 0° – 90° bend angles standard
  > 90° special
- Makes multiple bends in the coil
- Programmable set up

Economic Advantages
- The M14 is all electric, lowering energy consumption and providing greater precision than hydraulic machines.
- Electric drive requires less maintenance than hydraulic machines.
- RFID prevents scrapping expensive coils by matching part data to the arbor cover, which avoids forming the wrong radius.
- The cycle time is about 10 seconds per bend.

Technical Advantages
- Forms round and flat-tube coils up to 60” wide and 3 meters long.
- Soft surface arbors enable tighter bends without fin damage.
- Forms bends up to a total of 200°.
- Forms radii as small as 2¼” (57 mm) and as large as 18” (457 mm).
- Forms up to three 90° bends or more if bends are less than 90°.

User Advantages
- Single operator can load flat coil on table and activate the “Cycle Start” button: machine will automatically position coil(s) for each bend, perform the operation, and present the finished coil at completion.
- Touch screen controls feature part recipes.
- Optional bar code scanner prevents forming wrong pieces of stock.
- Optional coil loading table allows machine to cycle while operator loads next coil.
- Ability to offload coils onto a table or conveyor system.
- Operator touch screen controls can be configured for different languages.