

Precision machinery for wire, tube and formed parts



Product  
range

# The product range

No matter what you want to produce out of wire or tube material, WAFIOS can supply you with the right machine.

The following two pages will give you a first impression of our variety of products. For more detailed information please contact our sales departments.

## Wire bending machines



## Tube bending machines



|                           |                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                  |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Application</b></p> | <p>Machines for the production of the most diverse parts made of wire and tube. As an option, these machines can also be equipped with an endworking unit, e.g. stamping, upsetting, heading and welding.</p> | <p>Fully electronic CNC tube bending machines for the production of two- and three-dimensionally bent parts made of tube and solid material. Right- and left-hand bending in one clamping as well as combined rotary-draw and free-form bending is possible.</p> |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Our solution



|                                             |                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Typical fields of application</b></p> | <ul style="list-style-type: none"> <li>■ Automotive industry (e.g. car seat inlays, exhaust-gas systems, rods)</li> <li>■ Display racks and shelves (e.g. merchandise fixtures, shopping carts)</li> <li>■ Furniture and kitchen industry incl. white goods (e.g. oven grids, dish washer baskets)</li> </ul> | <ul style="list-style-type: none"> <li>■ Automotive industry (e.g. injection lines, brake lines, exhaust-gas systems)</li> <li>■ Electronic industry (e.g. heat exchangers, spirals for airconditioning technology)</li> <li>■ Toy industry (e.g. playground frames, Kettcar cycles)</li> <li>■ Medical technology (e.g. practice furniture, medical instruments)</li> </ul> |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

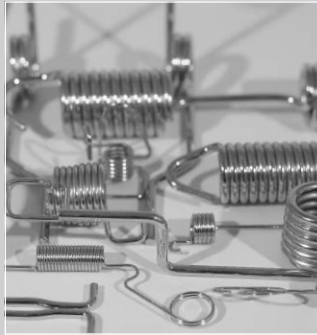
**Spring coiling machines**



Flexible and powerful CNC-controlled spring coiling machines for the manufacture of right- and left-hand coiled compression springs, tension springs and torsion springs with straight, tangential legs.

- Product applications, e.g.
- Suspension springs
  - Valve springs
  - Contact springs
  - Garage door springs
- e.g. in the
- Automotive industry
  - Electronic industry
  - White goods industry
  - Medical technology
  - Mechanical engineering

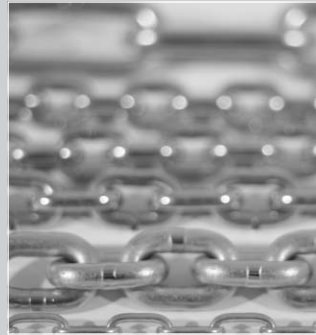
**Coiling and bending centers**



Extremely versatile CNC-controlled coiling (with/without mandrel) and bending centers for the production of torsion springs, tension springs and complicated three-dimensionally bent parts of different shapes.

- Automotive and supply industry
- Electronic industry (e.g. switches, spiral-wound filaments)
- Mechanical engineering
- Fashion industry (e.g. eyeglass frames)

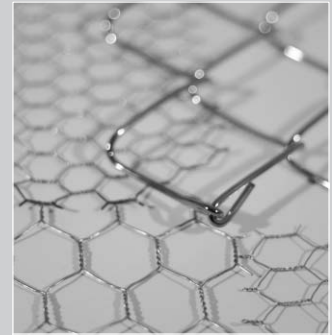
**Chain manufacturing machines**



Durable, robust, heavy-duty machines for the production of high-strength chains. These machines are suited for continuous operation and they feature a long economic life-time. The range of chain manufacturing machines consists of chain bending, welding and calibration machines.

- Product applications, e.g.
- Automotive, wheel protection and snow chains
  - Mining, conveyor chains
  - Shipbuilding, chain cables
  - Agriculture and forestry
  - Hoisting chain
  - Shopping carts
  - Playground equipment
  - Safety chains...

**Wire fencing machines**



Powerful fencing machines for the most diverse types of fencing – from standard chain link fencings to hinge-joint fencings. Extremely reliable, ensuring high product quality and permanent production control. A long lifetime protects your investment due to a stable value for these machines.

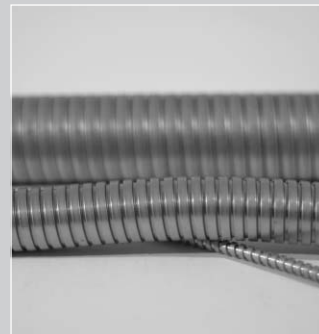
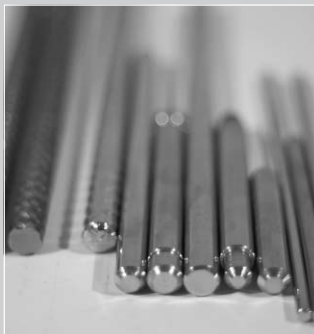
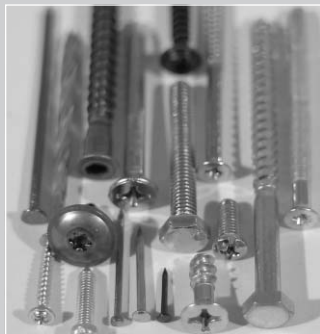
- Product applications e.g. fences for
- Road construction
  - Industrial plants
  - Protection of buildings
  - Forestry and agriculture
  - Railroad

Wire nail machines

Machines for formed parts

Straightening, cutting-off and endworking machines

Flexible metal hose profiling and coiling machines



Machines for the mass production of screws and nails with in-line possibilities for thread-rolling machines. Convertible as needed, low tool costs, high output also in continuous operation while ensuring high precision.

Coldforming machines and installations for the production of screws and formed parts. Additionally, extensive know-how of process technology, e.g. development of tools and special solutions.

Fully electronic wire straightening and cutting-off machines which can be combined with installations for the processing of rod ends (chamfering, stamping, surface grinding, pointing).

For the production of flexible metal hoses in endless lengths with square-locked and double-interlocked profiles. A sealing strip can be integrated. Strip material made of aluminum, brass, galvanized steel and stainless steel can be processed.

Product applications, e.g.

- Nails
- Blind rivets
- Chip board screws
- Wood and sheet-metal screws

Applicable in various areas, e.g. in the

- Construction industry
- Furniture industry
- Packaging industry

Application areas are, e.g.

- Electronic industry
- Automotive industry
- Furniture industry
- Construction industry

Product applications, e.g.

- Screws
- Rivets
- Balls
- Rollers
- Bolts
- Nuts

Product applications, e.g.

- Fences
- Cages
- Gabion baskets
- Wire display products
- White goods
- Condenser wires
- Wire mesh reinforcement
- Rod material...

Various application areas, e.g.

- Shower hoses
- Telephone cables
- Electric cables
- Flexible lines

# A strong machine program



FMU 4.7



FMK 2



B 10



BM 30

WAFIOS has the most extensive range of machinery for wire, tube and formed parts on the market. Therefore, we can offer every customer the ideal machine for implementing their respective processing task in the technically and economically best way.

We are glad to advise you and to find the optimum solution together with you.





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The specifications  
are not binding as  
these could vary on  
account of technical  
developments.

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Apollo 11