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FOR YOUR CABLES. SINCE 1996.**

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25 YEARS
MIXER
COMPOUNDS
DETAILS MATTER.

Half-century of rolls expertise

Atomat, founded in 1968, produces and manufactures steel and tungsten carbide rolls for hot and cold wire rolling, rolls for welded tubes and CNC machines for rolling mill shops – grinders, notching and marking machines and parallel lathes – and tooling for these machines.

▼ AT701CNCgrinding machine



Selected and certified raw materials, along with decades of design and R&D, supported by customer feedback, allow Atomat to pursue its goal of supplying products with high added value.

The Atomat group includes five plants in Italy and three overseas subsidiary plants in Slovenia, Spain and Brazil. The last two are also able to offer local service for roll redressing.

In the area of cold rolling for wire mesh, Atomat is a source for accurate roll holders and carbide rolls.

The rolls are fully sintered in Italy by one of the company's subsidiaries, and only carefully selected virgin powders with suitable tailored grades are used.

The rolls can be supplied fully finished, with final grooves already ground to the required size and to strict tolerance, or alternatively semi-finished, or without the grooves, which can be ground directly

on-site according to specific production needs.

Rolls and supports are available ex-stock at Atomat premises, ready to be delivered worldwide.

With know-how and experience acquired over half a century, Atomat's skilled technical staff are able to provide full support to customers in the design of rolls for any specific requirement.

Together with redressing services for worn rolls, Atomat can provide a complete roll shop, composed of Atomat CNC machines for regrounding used and worn carbide rollers at the customer's site.

Atomat machines are assisted by remote teleservice and, when requested, by intervention at the customer's plant.

Atomat SpA
www.atomat.com

Enamelling dies for rectangular conductors

Micron, based in Pordenone in the north east of Italy, operates in the high-precision mechanical parts industry. It has been collaborating for more than ten years with Magnet Wire Consulting, producing enamelling dies for rectangular conductors in copper or aluminium.

Production was initially dedicated to traditional adjustable tools, but the increase in global demand for electric-powered vehicles, with a view to a shift to a sustainable economy, led Micron to design and develop new separable enamelling dies that ensure reduction of string-in times and costs, better enamel application, bi-thicknesses higher than normal standards, and increased values of dielectric strength and thermal resistance.

The dies are available in several sizes (external from 16 to 28mm for sections from 5 to 70mm²) depending on the conductor and the enamelling pitch.

New closed dies are made up of two bodies joined by screws and nuts. The high precision in mechanical processing allows a perfect coupling between the two halves, which guarantees the hydraulic seal and avoids enamel leakage.

Compared to traditional dies with springs, which apply the enamel with

grooved rolls and bevels in the corners, the new dies copy the profile of the conductor, radius included, and ensure a constant application in all enamelling steps.

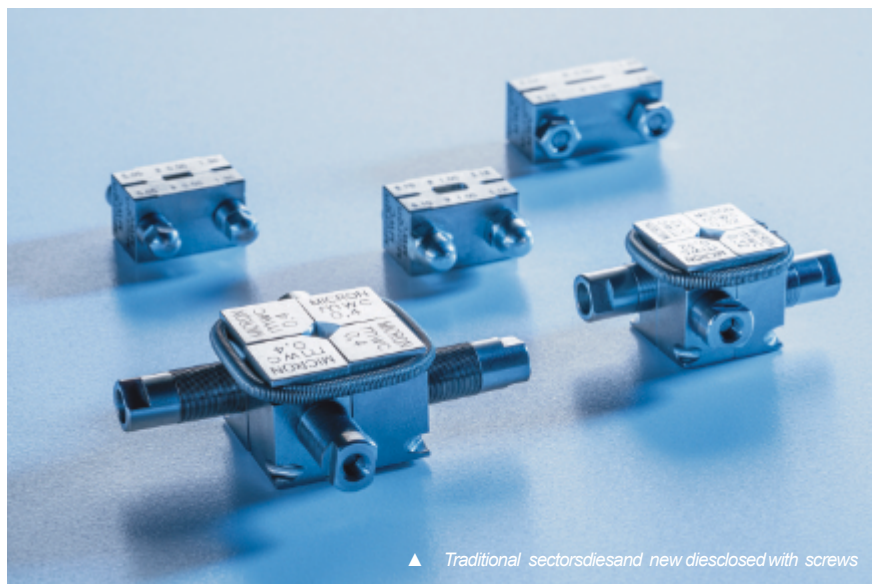
In order to meet the requests of manufacturers of electric car engines for smaller radii it is possible to obtain a radius down to 0.3mm.

Micron is also engaged in collaborations with enamelling machine manufacturers,

in the study and design of dies suitable for the production of flat wires on horizontal plants, previously dedicated to round wire.

Magnet Wire Consulting has also developed a calculator for die series that considers the characteristics of the enamel, the bi-thicknesses to be obtained and the number of passes (up to 50).

Micron
www.micronit.it



▲ Traditional sector dies and new dies closed with screws