

F
CONTINUOUS
ANNEALERS

Cutting-edge DC continuous annealers that can be seamlessly integrated with **BETASISTEMI** rod breakdown machines or those from other manufacturers.

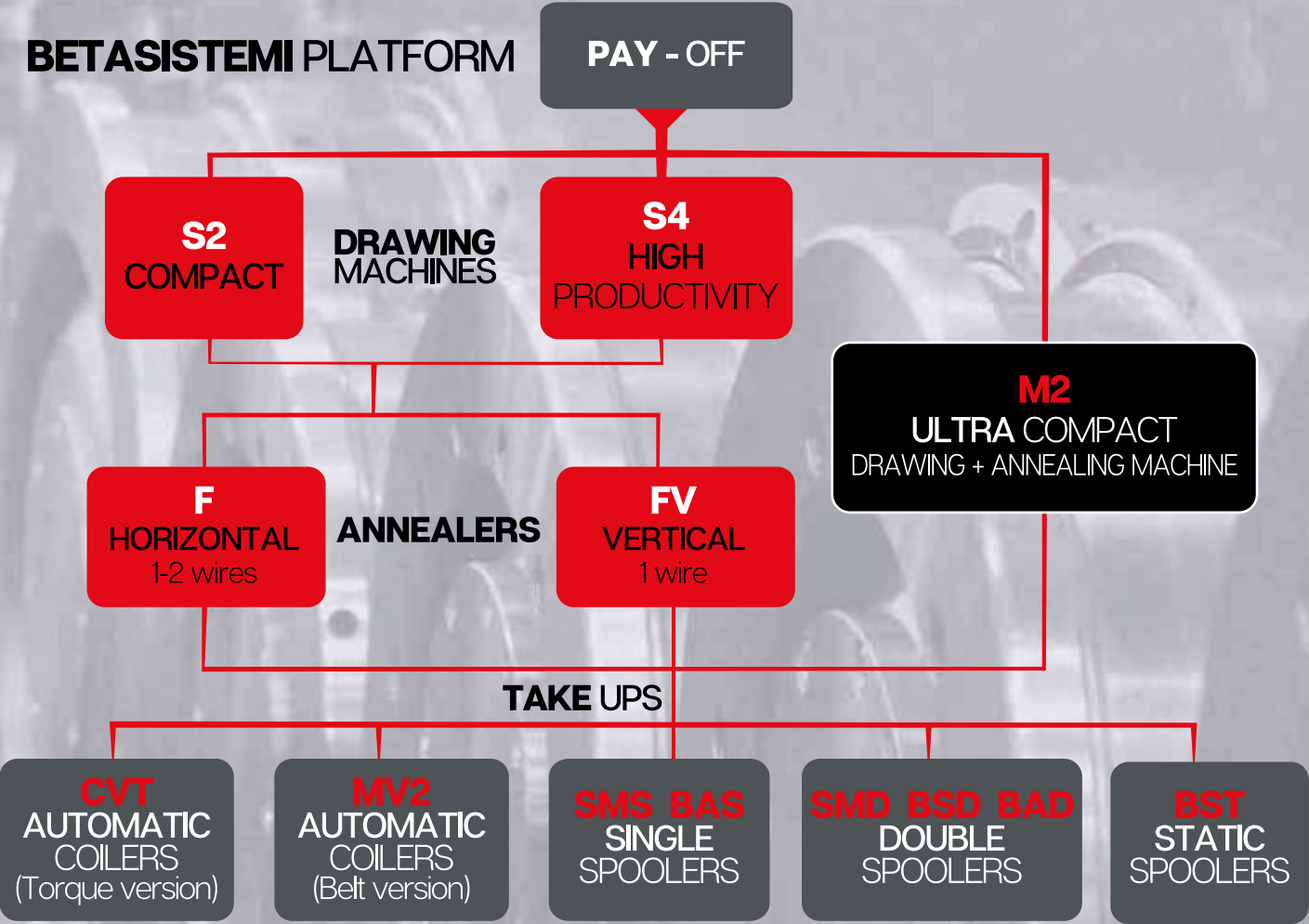
- Designed for both copper and aluminium wires.
- Available in a broad range of power classes, optimized for various wire diameters shaped wires.
- Offered in a horizontal configuration for single or twin-wire processing, as well as a compact vertical version for single-wire applications.
- Highly precise annealing current regulation, starting from 0 m/sec, ensuring optimal treatment of the bobbin tails.
- Annealing shafts individually powered by dedicated motors, eliminating the need for transmission belts and minimizing maintenance.
- Integrated dancer system for seamless speed synchronization with the take-up unit, reducing overall line length and installation time.



| MODEL | F450 | F600 | F700 |
|---------------------|-----------------|------------------|------------------|
| PROCESSING MATERIAL | Cu | Cu - Al | Cu - Al |
| NUMBER OF WIRES | 1 / 2 | 1 / 2 | 1 / 2 |
| MAX SPEED | 40 m/sec | 40 m/sec | 40 m/sec |
| WIRE DIAMETER | 0.80 ÷ 4.50 mm | 0.80 ÷ 6.00 mm | 1.50 ÷ 7.00 mm |
| ANNEALING CURRENT | 3500 ÷ 6500 Amp | 5000 ÷ 10000 Amp | 9000 ÷ 12000 Amp |
| ANNEALING RINGS ø | 450 mm | 600 mm | 700 mm |

ROD BREAKDOWN LINES

Our newly redesigned rod breakdown lines integrate decades of expertise in limited-slip drawing technology with innovative and intelligent solutions. They are engineered for effortless installation and operation while ensuring enhanced efficiency and reduced operational costs. We provide a comprehensive selection of drawing machines, annealers, and take-ups, specifically designed to accommodate various customer requirements regarding wire diameters, productivity, space optimization, and budget constraints. All our drawing machines and annealers function in a “limited-slip” mode, utilizing capstans driven by individual motors to guarantee superior performance, durability, and precision in wire processing.



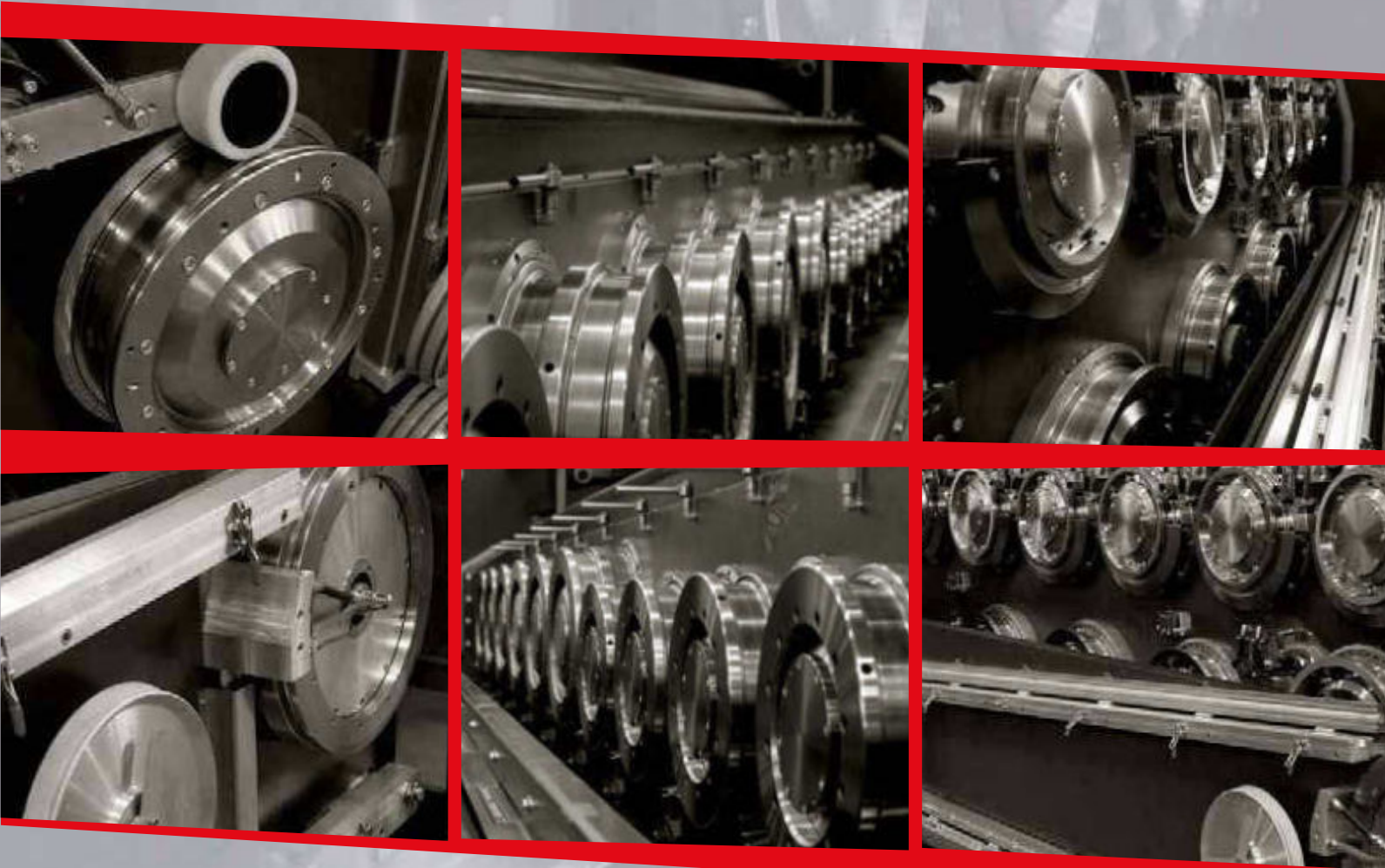
| MODEL | M2 | S2 | S4 |
|----------------------|-----------------|--------------------------|--|
| PROCESSING MATERIAL | Cu/Alloys | Cu/Alloys - Al/Alloys | Cu/Alloys - Al/Alloys |
| NUMBER OF WIRES | 1 | 1 | 1 / 2 |
| MAX SPEED | 36 m/sec | 40 m/sec | 40 m/sec |
| MAX PRODUCTIVITY (*) | 20,000 Ton/year | 20,000 Ton/year | 46,000 Ton/year |
| MAX INLET DIAMETER | 8.00 mm | Cu 8.00 mm Al 9.50 mm | Cu 8.00 ÷ 14.40 mm Al 9.50 ÷ 15.00 mm |
| N° OF DRAFTS | 11 - 13 | 9 - 16 | 5 - 16 |
| OUTLET DIAMETER | 1.00 ÷ 4.50 mm | 0.80 ÷ 5.00 mm | 0.80 ÷ 7.00 mm |
| COMBINABLE ANNEALER | 3500 ÷ 5000 Amp | 3500 ÷ 6500 Amp | 5000 ÷ 12000 Amp |

(*) 7200 h/y - 80% efficiency



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ROD
BREAKDOWN
LINES



ULTRA COMPACT LINE

M2 ULTRA COMPACT LINE

The M2 is an innovative equipment that combines a remarkably compact design with high performance and exceptional wire quality. It represents the latest benchmark developed by **BETASISTEMI**.

- Drawing Machine + Annealer + Dancer in just 5.5 meters.
- Maximum speed: 36 m/sec - Production capacity: up to 20,000 tons per year.
- Individually motor-driven drawing capstans and annealer shafts.
- With minimal energy consumption, extended capstan lifespan, low noise levels, and superior wire surface quality, the M2 ensures simpler and more cost-effective maintenance.
- As the most economical solution for copper rod drawing available today, it offers the best balance between capital investment and operating costs.

It is also the perfect choice for tandem installations with extrusion lines and tinning plants.

COMPACT LINE

S2 COMPACT LINE

The ergonomic rod breakdown machine features drawing capstans arranged in two superimposed rows, significantly reducing the overall plant footprint. Designed with limited-slip technology, each capstan is driven by an individual motor for optimal performance. An exclusive lubrication system ensures efficiency far superior to conventional spray-type drawing machines, enabling:

- Higher operating speeds thanks to improved lubrication.
- Compatibility with copper / copper alloys and aluminum / aluminum alloys wires.
- Integration with continuous annealers, whether **BETASISTEMI** - made or from other brands.
- A special version for tandem installation with enameling plants, ideal for drawing both round flat wires.

HIGH PRODUCTIVITY LINE

S4 HIGH PRODUCTIVITY LINE

The high-performance rod breakdown machine features capstans arranged in a single-row, straight-line configuration, ensuring ergonomic design and maximum operational flexibility.

- Available in single or twin-wire versions.
- Robust mechanical construction, equipped with powerful motors, high-speed gear reducers, and fully submerged lubrication for optimal efficiency.
- Heavy-duty steel front guard providing a fully watertight seal, reducing lubricant turbulence within the drawing tank.
- Ergonomic access to the drawing section, allowing for quick and easy string-up.
- Special twin-wire version capable of drawing different diameters at independent speeds.

With a limited-slip design, this machine ensures minimized operational costs while maintaining superior performance.

