

bedra- intelligent alloys

As a top international manufacturer of high-quality precision wires of non-ferrous metals, we distinguish ourselves in the market through high quality and smart services. Absolute customer focus. This is a long tradition for us – ever since the company was founded in 1889. Our ability to innovate, along with our well-known reliability, set us apart. These two strengths have made bedra a leader in quality and a leader in the market. Year after year, our plants produce more than 30 million kilometers of precision wire – in over 100 alloy versions. Our business units are:

bedraEDM

bedraWELDING

bedraELAS

We are known for customer-specific solutions across all service areas. Our highly qualified employees play a major role in this. We rely exclusively on high-quality metals for manufacturing our products. This makes our innovative high-tech precision wires absolutely alloy-pure.

bedraEDM

Since the beginnings of spark erosion, we have participated with great success in the continuing development of the technology and the associated improvement in manufacturing processes in the area of mold and tool making. With the functional coatings we've developed for EDM wire, enormous increases in the re-

moval rate can be achieved. The resulting increase in productivity is enormous: In tough everyday use, this can lead to 20 percent shorter machine running times. And this does affect production costs. The use of coated wire in spark erosion has the potential to reduce production costs by up to 20 percent.

— High-tech solutions for spark erosion —



50 years' experience

We are a pioneer in spark erosion and have been there right from the start. So we can look back on over 50 years of EDM experience.



Quality

Our in-house processes and constant quality checks ensure reproducibility at all times. We also provide tighter tolerances than required by the standard.



Available worldwide

We are represented in over 50 countries and can be reached worldwide through sales partners and authorized dealers.



Close collaboration

Our products are developed in close collaboration with OEMs and research institutes. Joint development and testing guarantee the best possible cutting results and process reliability.



Our own R&D

Our own research & development enables us to create individual product solutions and to adapt to the latest market developments.



Patents

bedra sets technology standards in the market. Many patents and product innovations originate from our research and development.



In-house concept

Guaranteed 100% process autonomy – we are one of the few manufacturers of high-tech precision wires to offer all services from a single source.



Made by bedra

Innovative solutions, our own foundry and extensive monitoring are our strengths and the basis of our "made by bedra" premium claim.



bedra spools

The patented and innovative 12-cornered shape prevents rolling away. This allows bedra EDM wires to be stored properly in a horizontal position.



Sustainability

Our sustainability measures are not one-time efforts. Rather, they follow a holistic approach, which we call bedraGREEN.

— New product portfolio —

We at bedra are pioneers in spark erosion. We are significantly involved in all EDM wire generations and keenly focused on the needs of end users and machine manufacturers. After many years of specialization, we are now pursuing the goal of creating products that cover the widest possible range of applications while maintaining our well-known superior craftsmanship and performance: our Highlights. This superiority is expressed in cutting performance, component quality, reliability and price-performance ratio. Whether you are looking for products to meet a wide range of applications, or our proven products in our Classic Portfolio, bedra delivers the most innovative wire electrodes in the industry today.

— Our Highlights —



betterbrass

- Extremely reliable performance
- Plug-and-Play on all machine types
- Cuts up to 10% faster than traditional brass wire
- This electrode utilizes innovative and efficient production processes to deliver performance never before seen in a traditional brass wire.

gapstar® ONE

- The new EDM high performance wire with the bedra TRIMPAC technology.
- gapstar® ONE is available in 3 versions that differ from each other only in strength- and thus also in elongation:
 - gapstar® ONE.9 (900MPa)
 - gapstar® ONE.5 (500MPa)
 - gapstar® ONE.4 (400MPa)

topas® plus G

- Special electrode that combines high cutting performance with highest precision
- Gamma phase EDM wire with high tensile strength
- Excellent surface quality and precision in contour and parallelism
- Up to 10% higher cutting speed as compared to brass wire.

— Our Classics —

Very high precision / very good surface quality	cobracut® A	Hard zinc-coated EDM wire for highest precision
	cobracut®	Soft zinc-coated EDM wire for taper cutting.
Highest precision / best surface quality	cobracut® G	For highest precision, even for steep taper cutting on AGIE-machines with toroid guide
	megacut® A	For highest precision on Japanese machines.
High cutting rate / high precision	topas® plus H	High speed cutting wire for AGIE and all standard Japanese machines.
	megacut® plus	High cutting performance and precision on Japanese machines.
	topas® plus X	High speed cutting wire for Charmilles machines with X-technology.
	broncocut® X	Fast and precise, recommended for Charmilles machines.
Super-fine wires	microcut® CCA	For high demands in microerosion.
	microcut® SF	Gamma-phase fine wire for economical machining in micro erosion.
	microcut® MF2A	For ambitious micro erosion applications requiring a even higher tensile strength.
	microcut®	For sophisticated processing in microerosion.