

# 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.



135

years of experience



2

production locations



346.110

sqm



330

employees



50

countries represented



11.000

to/year capacity



30.000.000

km wire per year



100+

alloys

Added value for our customers. This is the yardstick for all our successes. As early as 1889, company founder Carl Berkenhoff, with his „fine wire drawing facility“ in Herborn-Merkenbach, Germany, was characterized by a central idea: to offer his customers more than others offer. Over the company's more than 130-year history, this understanding of customer proximity and orientation has grown into an enduring constant.

Today our products and services are represented in over 50 countries. Customers worldwide value bedra as a reliable partner for sustainable solutions in the fields of innovative high-tech precision wires for spark erosion, welding and brazing technology, electronic components, and special applications.

Intelligent wires. Made by bedra. This is our quality promise. We operate in all the important areas of the world. We are one of the few global manufacturers of precision wires that represents the entire production chain: Casting, rolling, drawing, annealing, and electroplating. Our customers benefit from our depth of in-house production through 100% traceability, consistent high quality, and the highest possible processing reliability. We produce around 30 million kilometers of precision wire in over 100 different alloys. Year after year. With consistent high quality. To put it in better context: The wire that we manufacture could wrap around the earth 750 times.

Having our own foundry gives us a classic unique selling point. That's why we're able to be so responsive to the wishes of our customers. And it's also easy for us to produce alloys based on individual customers' ideas. Or we adapt surfaces and dimensions to our customers' desired specifications. This is our definition of flexibility. We gear our services to the needs of our customers. Our own research and development department gives us valuable support in this. The considerable effort we invest in this area results in many patented innovations. Because of this our company is associated with the phrase "intelligent wires."

## Our industries



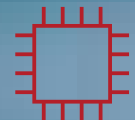
automotive



transport



aviation industries



information technology



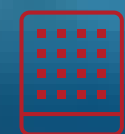
mechanical engineering



plant construction



medical technology



consumer electronics

## Quality products that create value

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, enor-

mous increases in the removal 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.

### bedraWELDING



We have developed the ber-coweld® series for brazing and welding copper and copper alloys and berAlweld® for Aluminum alloys. No matter whether you prefer MIG/MAG brazing or welding, TIG welding, laser and plasma brazing, or wire flame spraying: The bercoweld® and berAl-

weld® range is as diverse as your applications. This is one reason why renowned companies from the automotive industry, plant construction, and the offshore and onshore sectors rely on bercoweld® and berAlweld® as a fundamental component of an innovative joining technology.

### bedraELAS



As a highly specialized supplier to the processing industry, we cover all processes involved in manufacturing our wire solutions in the electronics and electrical sectors. From melting high-quality metals to surface finishing. Our own foundry produces more than 100 alloy variants such as tin bronze, brass, nickel silver and many other special alloys from the element copper. With this variety of alloy, we can cover a wide range of requirements on electrical and mechanical properties. In combination with our well-known flexibility, we can produce small

lots as well as large and medium lots.

With our complete quality management, we ensure that our products meet the highest demands at all times in our production process. Stable and transparent processes form the basis for our consistently high product quality. Our extensive product portfolio reflects the high demands of the automotive, aviation, telecommunications, information technology, industrial technology, and entertainment industries.

# Individualized services for every need

In order for companies in the world's markets to prove their full capabilities, it's not enough to manufacture products that meet the highest demands. Today, a company's performance is made up of several elements. We are firmly convinced of this. And so we focus on steadily transforming from a manufacturer of innovative high-tech precision wires to a service provider. For companies that can look back on more than 130 years of tradition as manufacturers, this means nothing less than a paradigm shift. By service we mean a comprehensive expansion of our business range - and in several respects. The fact that we now operate on the world's markets with products and services

based on the best-in-class principle puts customers even more in the focus of our efforts than was already the case. In addition to our well-known high product quality, our customers today also benefit from our wide range of different services. For example, after-sales and technical consulting expand our services for customers at a crucial point. They help to ensure that our customers receive proactive support in achieving their goals. At the same time, we're moving even closer to our customers as a partner and forming functional units that concentrate on achieving goals.

| bedra<br>premium                                                                                                                                                                                    | bedra<br>professional                                                                                                                                        | bedra<br>competent                                                                                                                          | bedra<br>forward                                                                                                                                             | bedra<br>green                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Customized solutions</li> <li>Complex product inspection at each stage of manufacture</li> <li>Tightest tolerances for optimum processing results</li> </ul> | <ul style="list-style-type: none"> <li>Complete inhouse production</li> <li>Highly qualified employees</li> <li>More than 130 years of experience</li> </ul> | <ul style="list-style-type: none"> <li>Own R&amp;D department</li> <li>Cooperations with partners</li> <li>Innovation management</li> </ul> | <ul style="list-style-type: none"> <li>Global sales</li> <li>On-site service</li> <li>Extensive sampling</li> <li>Free 3.1 inspection certificate</li> </ul> | <ul style="list-style-type: none"> <li>Environmental management system DIN EN ISO 14001: 2015</li> <li>Sustainability concept (e. g. bedra360)</li> </ul> |

## 130 years of living experience

