



Metallurgical applications
Solutions for heat transfer

LUVATA
SPECIAL PRODUCTS





“At Luvata Special Products we pride ourselves on knowing our customers’ business as well as they do. So, with many years in the industry, we are well aware that if you are operating foundries or blast furnaces, downtime can be very bad news indeed. That is why we have made the quality and reliability of our heat transfer solutions our primary concern. We are confident that our track record for reliability cannot be matched in the marketplace, and our customers tell us so too. We are constantly innovating, and finding new solutions to old problems; but our focus on reliability is one constant that we will never change.”

Jussi Helavirta
Jussi Helavirta
President & CEO
Luvata Special Products

Quality and reliability when the heat is on

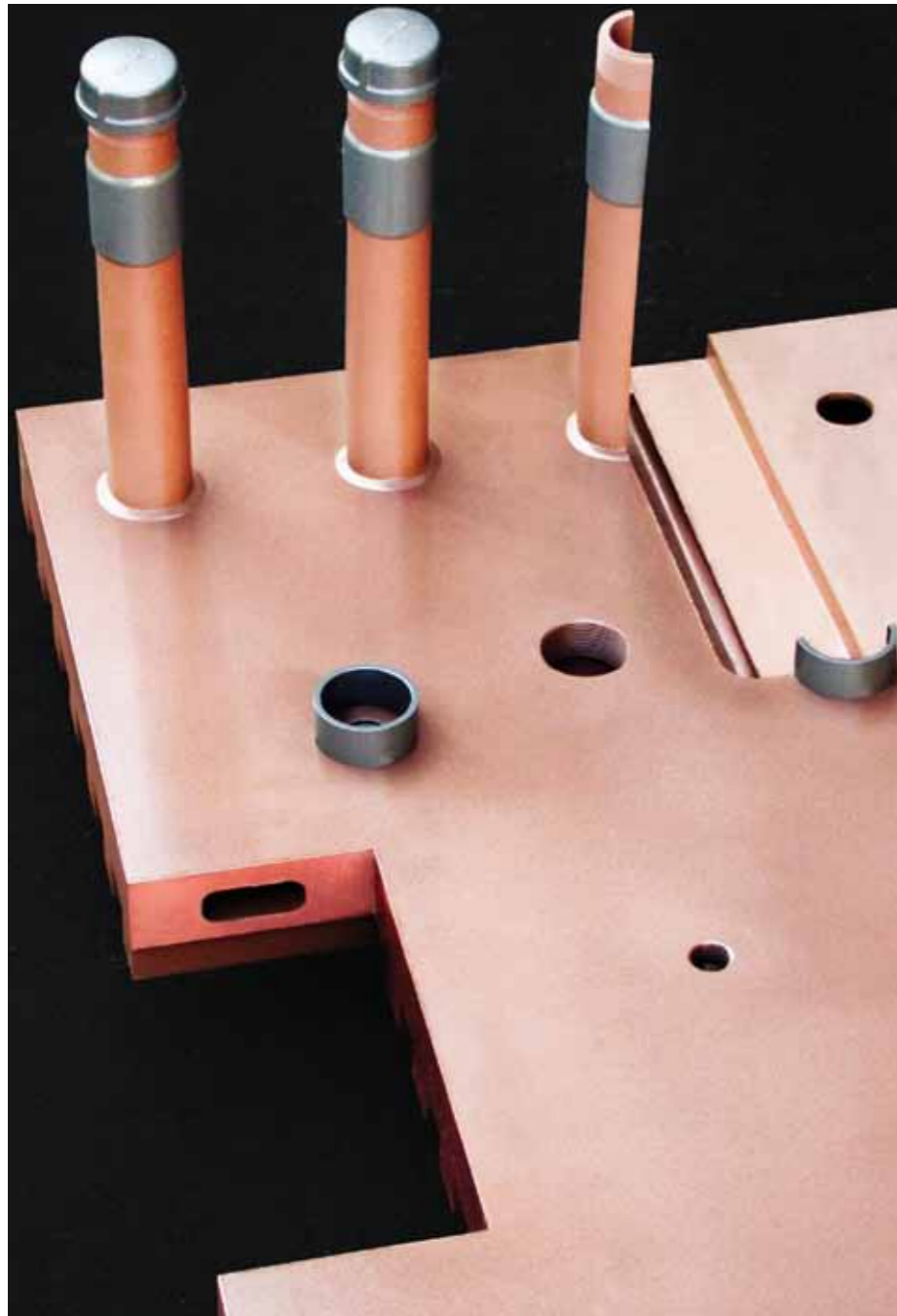
Luvata Special Products is a world leader in metal fabrication, engineering and design. With operations on three continents, you will find our components and our expertise in some of the world’s most successful technologies, including photovoltaic energy, MRI scanners, cooling and refrigeration, and even the Large Hadron Collider. In fact, anything that contains copper is likely to have felt Luvata Special Products’ influence.

We have been working in Metallurgical Applications for nearly four decades. We use our expertise and know-how to provide tailor-made solutions for foundries, smelters, furnace mills and for the electrolysis industry. Every customer is different and we pride ourselves on our innovative approach and versatility in coming up with the right solution, time after time.

We work closely with our customers to determine the right approach. From end-to-end solutions where we design, manufacture, deliver and install everything; to simply supplying an off-the-shelf product; we are happy to help. Nobody understands copper like Luvata Special Products, and when you buy into our expertise you can rest assured that our first class project management, after sales service and attention to detail come as standard.

Copper staves for blast furnaces

Nowhere are conditions more demanding than in foundries and blast furnaces, so our specialist knowledge and experience are invaluable. We work closely with some of the world's leading engineering companies and we are constantly seeking out new solutions to improve efficiency for our customers, increasing productivity and optimising material usage.



Copper staves for blast furnaces

Staves are essential for protecting the steel shells of blast furnaces, and copper, with its superb conductivity, is an ideal material for them. At Luvata Special Products we have created a unique manufacturing process for copper staves. We use a continuous casting process to produce the cooling channels in the copper slabs. These are then hot-rolled to recrystallise the grain structure.

There are two key benefits to this innovative process. Firstly, the stove design is smaller, reducing weight and therefore the material cost. Secondly, the oval shape of the staves gives them a greater surface area, making them more efficient and creating more furnace volume.

We produce many other specialist products for metallurgical applications, including copper slag runners for blast furnaces and special elements for blast furnace hearths and tap hole areas.

Cooling elements and slag launders



Cooling elements and slag launders

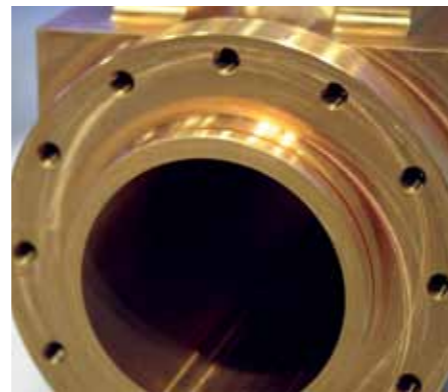
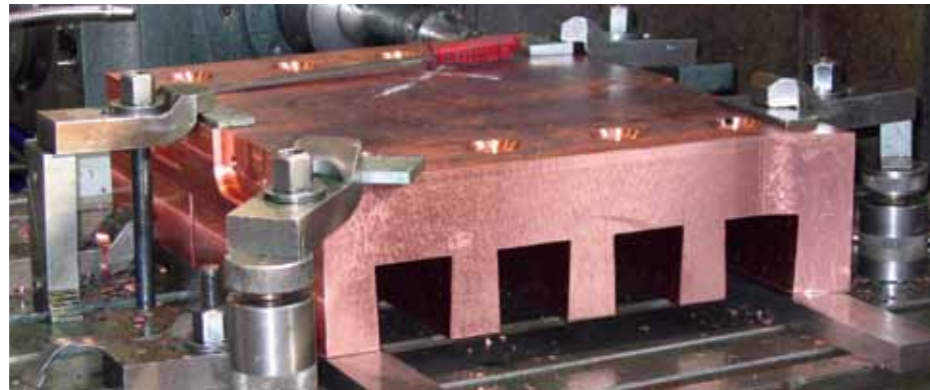
Luvata Special Products' manufacturing process is fully integrated, from the delivery of the pure cathodes to the production of the final product, so we can be sure that our quality is second-to-none.

We have a flexible approach and are happy to design a complete solution, or to create a product from a customer's own drawings. Our runners can be produced from separate sections for the bottom and wall cooling, with cast-in water channels, or alternatively from one rolled, bent plate with drilled water channels. We can also offer a choice of hot-rolling and drilling, or even mould casting, depending on the customer's precise need.

We also produce components for electric arc furnaces, where high thermal and electrical conductivity are essential. These include cooling elements, electrode holders and bus tubes.



Metallurgical applications at work



About Luvata Special Products



What does Luvata Special Products see for the future?

We will use our unique technology know-how to influence the development of a sustainable modern world. We have always aimed to improve our customers' products and processes, and to help them increase the efficiency of their businesses. But our vision is bigger than that. If human society is going to maintain the lifestyle that we all enjoy today AND offer it to emerging societies, we will all need to become much more efficient and to take much less from the planet. We are helping companies to make their products, processes and production more sustainable: do more, waste less, and pollute less.

What's Luvata Special Products' plan for getting there?

Luvata Special Products looks to build on its distinct strengths, bringing expertise and dedication to high growth regions and adjacent markets around the world. We are stepping into niche and specialist markets with our high-value, engineered solutions, and we

are developing new solutions in partnership with our customers to conquer challenges at the front end of market demand.

How does Luvata Special Products behave?

In doing all this, we resolve to be the partner of choice for our customers, the employer of choice for our staff, and to be a positive and responsible friend to everyone else. We strive to be open-minded and focused on getting results; and when we promise, we deliver.

Where in the world are we?

Our global footprint stretches across America, Europe and Asia. Our diversity of locations, cultures and markets gives us access to a wealth of knowledge and expertise that simply keeps growing. It means that we are local to our customers, wherever in the world they are and can be responsive to their needs, including fast local delivery straight to the door.

1300 employees, 12 locations, 7 countries



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About Luvata Special Products

Luvata Special Products is a world leader in metal solutions manufacturing and related engineering services to industries such as renewable energy, automotive, healthcare, and power generation and distribution. The company's continued success is attributed to its longevity, technological excellence and strategy of building partnerships beyond metals. Employing over 1,300 staff in 7 countries, Luvata Special Products works in partnership with customers such as ABB, CERN, Siemens and Toyota. Luvata Special Products is a group company of Mitsubishi Materials Corporation.



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