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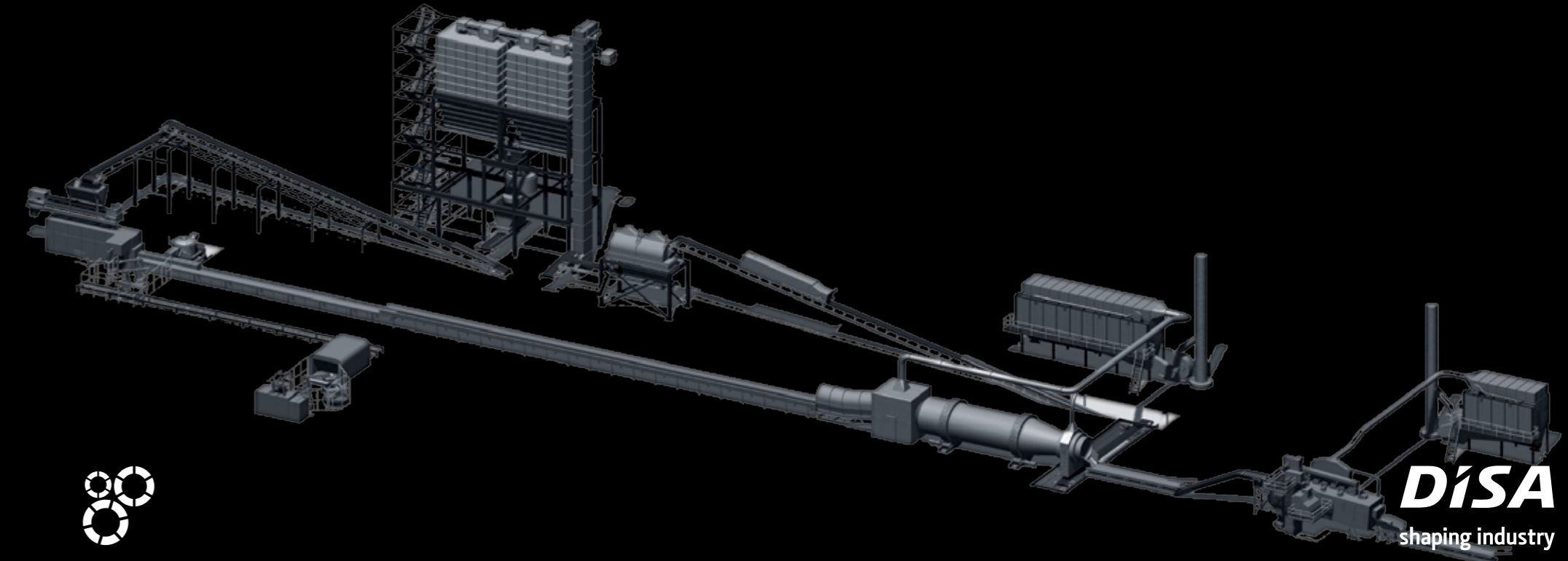
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# Complete foundry

360° of forward-thinking foundry processes



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Noricangroup is the parent company of DISA and Wheelabrator.

# 360° Complete foundry A-Z

## Delivering the right solution

To DISA, our success starts with understanding your foundry, your processes and your goals. It evolves and becomes mutual, because of our many years of experience within your industry, and because we carefully listen to your needs in order to build an accurate, 360-degree picture of your world.

Our overall aim is to support your foundry with a 360-degree perspective. Only then, can we achieve our goals, see the same visions, and help advise on the way forward that is right for you – and find the solution that is right for your complete foundry.

*“DISA assumed responsibility as our single point of contact for our entire foundry upgrade project. The result was a successful outcome while we focused our resources on driving our core business.”*

*Mike Slaydon, Operations Manager at Rochester Metal Products.*

## Delivering the complete solution

With a thorough understanding of your foundry, we help you turn problems and challenges into opportunities and advantages.

By working with you, in partnership, to build a 360-degree complete foundry project, we can establish forward-thinking foundry processes to lay the foundations for your continuous progress and growth.

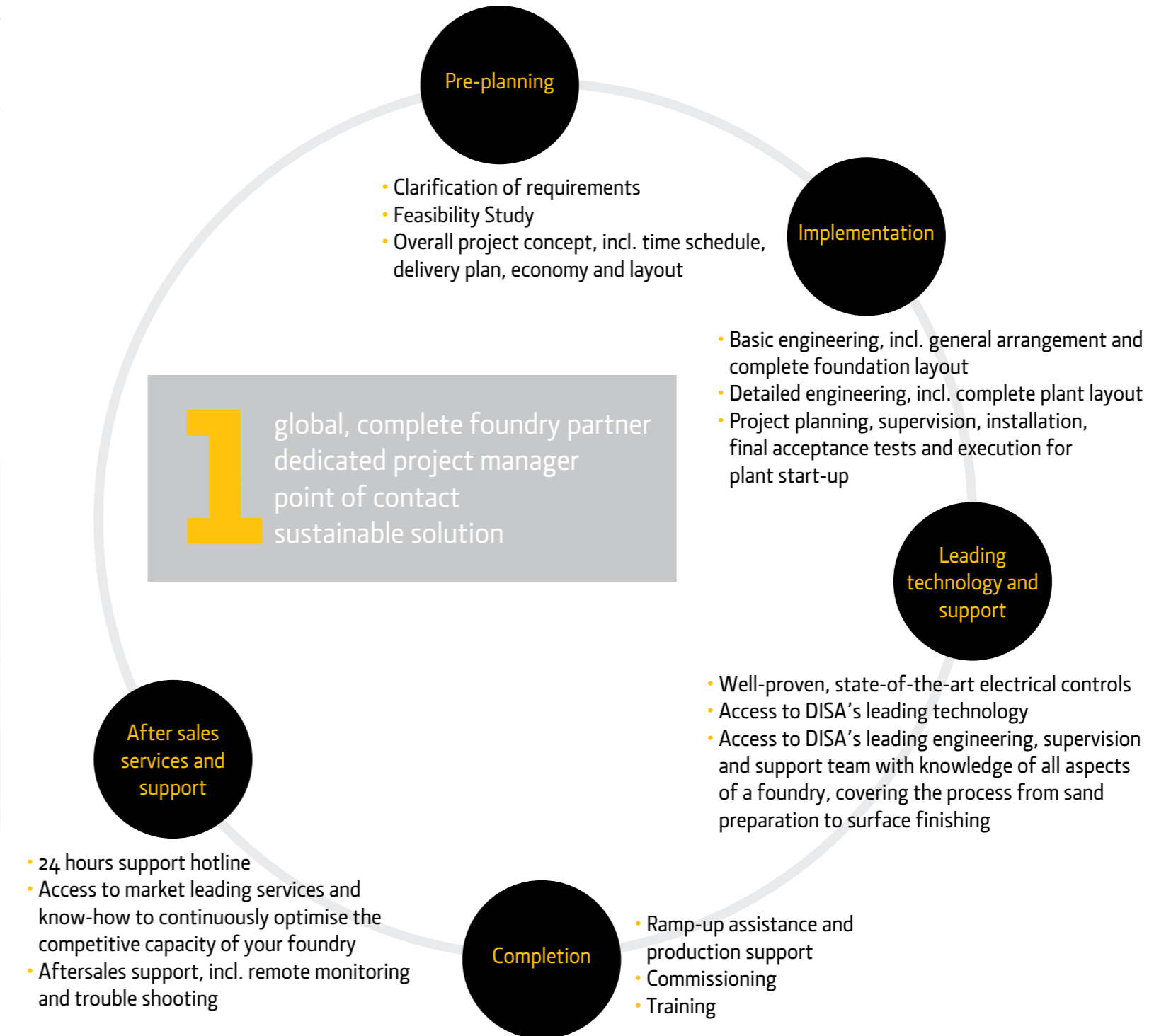
We aim to do so by simply delivering the right and the complete solution.

## Lowering your costs per casting

As complete foundry partner and global market leader of moulding equipment, we have the ability to turn an empty field or existing building into a complete, modern foundry.

We offer you all the know-how you need to build a complete foundry from scratch by taking you through the entire process – from pre-planning, concept and contract signing through engineering, implementation, supervision and training to aftersales services, business optimisation and support.

By choosing DISA as your complete foundry partner, we ensure you a sustainable, future-oriented moulding solution in a state-of-the-art foundry with an unparalleled casting production at the lowest costs per part.



Project at Chervona Zirka, Ukraine



Pre-planning

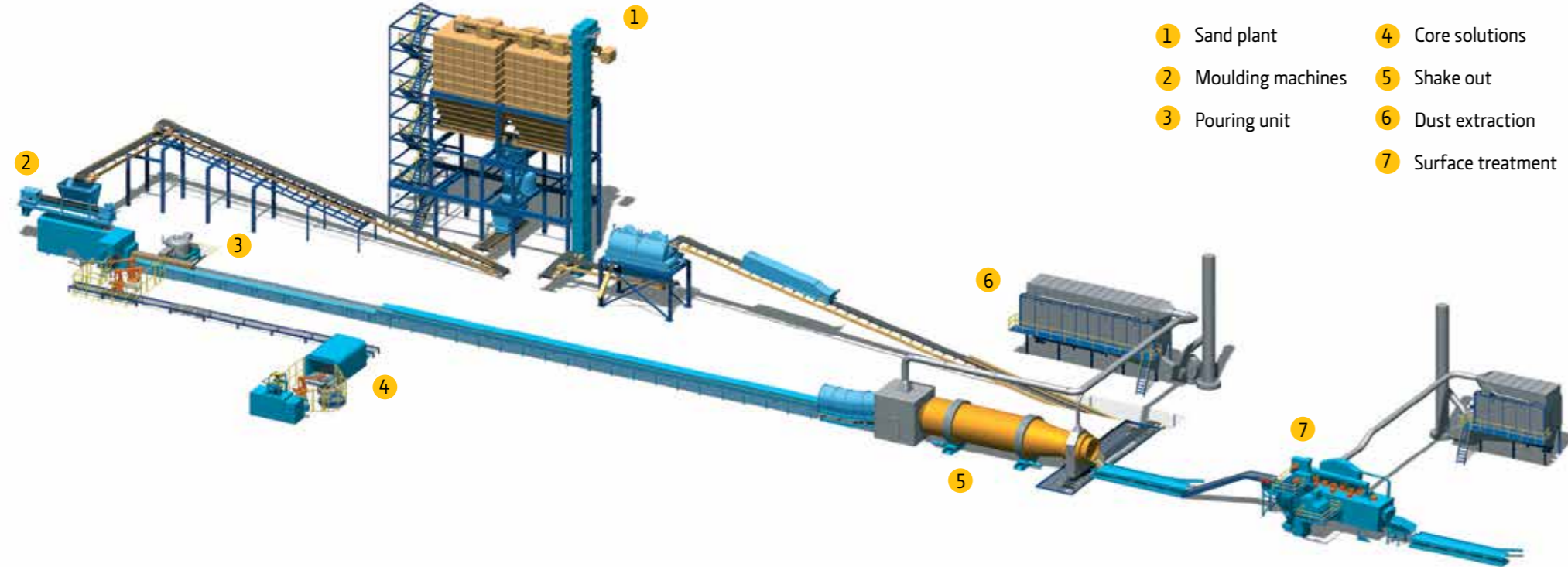


Implementation



Completion

## 360° Complete solution



### Stronger together

At DISA, we have a clear policy of working very closely with our customers. We become partners and view a thorough knowledge transfer to be an integral part of our project delivery process. Our experience, expertise and commitment are placed at your disposal in all of our complete foundry projects, as these elements are key to helping you make the most of your foundry going forward.

### Partnering with the best

We can only give you the best when partnering with the best. Therefore, we combine your individual knowledge of your respective foundry with our dedicated staff's in-depth understanding of your business. Subsequently, we mix it all with the professional strengths of our chosen sub-contractors and the state-of-the-art DISA equipment and technology. That unique combination gives us an unparalleled offering.

### Unique in the industry

There are numerous benefits to having a complete foundry project supplied by DISA. You need to know only one: we are your One Stop Shop. We provide a complete 360-degree solution and, as a complete foundry supplier, we offer you in-depth knowledge of and insights into your exact equipment and technology that cannot be obtained elsewhere, nor in one complete solution package.

## 360° Proven solutions



### Industry standard moulding

Our vertical moulding offer is the best in the industry, when aiming for speed, quality, reliability and cost-effective production. It has evolved into the leading industry standard with a second to none customer base of 1,575+ installations worldwide.

Our horizontal moulding machines are the technology of choice for flexible production of heavy parts.

Our match plate moulding machines compete on great performance at an accelerated time-to-market and come highly recommended by multiple foundries, serving a broad customer base on a make-to-order basis.

### Proven sand plant solutions

DISA sand plant solutions include a selection of the best mixers, sand moisture controllers, cooling drums, sand plant components and plant designs, integrated perfectly to create the optimum range of sand plant layouts to fit your demands.

The DISA cooling drum is a popular all-in-one solution for separation and cooling of sand and castings, as it requires lower space consumption and capital investment than a conventional solution.

### Integrated controls

Our integrated control system for your sand plant and moulding line provides you with simple, yet priceless registration of real-time process data for fault indications and early warning of imminent problems.

Choosing DISA will save you time and resources, as you need only go one place to get a complete foundry partner, offering you 360-degree forward-thinking industry standard processes.

# 360° Sustainability

## Leading the way to a sustainable future

At DISA, we have chosen to focus on more than just equipment when talking sustainability. We focus on making your entire production and administration more sustainable.

We think sustainability into all aspects of a modern foundry, thereby making it easier for you to meet both current and future laws and regulations related to CO<sub>2</sub> emissions, overall energy consumption and the working environment. Our aim is to ensure that you get the highest quality possible.

Our complete foundry solution includes a wide range of initiatives to reduce the environmental impact on facilities and operations – from building new, environmentally sustainable structures to improving the energy efficiency of older buildings and processes.

We take our own medicine when striving to lead the way to a sustainable future. As an example, our Technology Centre and headquarters in Denmark has achieved an annual saving of 2800 tonnes in CO<sub>2</sub> emissions in 2014, compared to 2013; equivalent to the annual emissions of 1000 family homes. At the same time, a Japanese customer shows an 80% energy saving after switching to DISA vertical technology, while a Turkish customer is enjoying the benefits of less sand and energy consumption, faster moulding speed and higher efficiency after implementing a DISA moulding solution.

*“Through decades, innovation has been at the very forefront when trying to battle existing environmental challenges. Within DISA R&D, all innovations are dedicated to developing solutions that lead to higher sustainability in green sand foundries in a both efficient and cost consistent way for our customers.”*

*Sten Hounstrup, Vice President R&D at DISA Industries A/S*

# 360° References at a glance



## Rassini Frenos - Mexico

Installed: 2014  
Casting type: Automotive  
Solution:

- Engineering
- DISA 240-C moulding line
- DISA cooling drum
- DISA sand plant 150 t/hour
- Continuous blast cleaning
- Project management
- Site management
- Installation & commissioning
- Training & TOPS
- Remote monitoring service



## AoTai – China

Installed: 2014  
Casting type: Automotive  
Solution:

- Engineering
- DISA 131-X FAST moulding line
- DISA cooling drum
- DISA sand plant 60 t/hour
- Continuous blast cleaning
- Project management
- Site management
- Installation & commissioning
- Training & TOPS



## LavaCast - India

Installed: 2015  
Casting type: Automotive  
Solution:

- Engineering
- DISA 131-Z moulding line
- DISA sand plant 90 t/hour
- DISA cooling drum
- Continuous blast cleaning
- Project management
- Site management
- Installation & commissioning
- Training & TOPS
- Remote monitoring service

*“Back in 2011 we invested in a complete foundry from DISA, the back bone of the foundry is a DISA MATCH 32/32, and this machine has been running more than satisfactorily ever since – helping SMI to produce water pumps, and thereby supplying water to the world.”*

*Ahmed Khraishi, Chief Operating Officer at, Saudi Mechanical Industries Co*