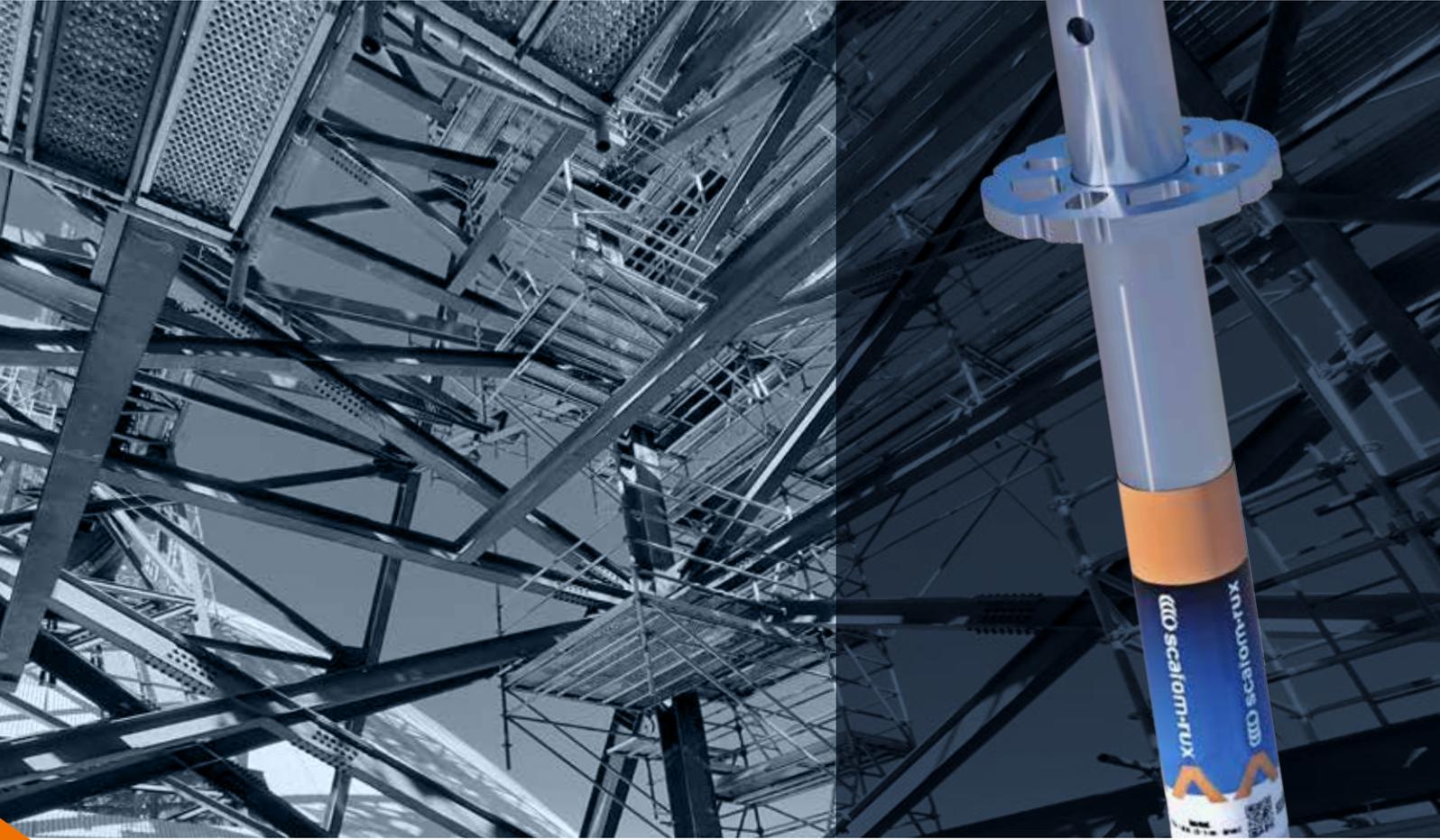




SCAFFOLDING | MINING INDUSTRY



SCAFFOLDING

SOLUTIONS AND SERVICES
FOR THE MINING INDUSTRY

MINING INDUSTRY | 2024-05-EN
BROCHURE 03

STRONGER. TOGETHER.

 **scafom-rux**



SCAFOM-RUX SCAFFOLDING SOLUTIONS

At Scafom-rux, you are supported by a team with decades of experience in the manufacture, sale and rental of high-quality scaffolding and shoring systems. Together, we make your projects successful by providing you with

- High-quality scaffolding solutions that are certified for safe use in industrial plants
- Flexible scaffold rental, rent-and-buy options, or replacement your current equipment
- Technical support from the design of new scaffolding components and structures made for your individual needs to technical drawings and consultation
- Trainings for scaffolders and engineers that improve construction times and safety
- Excellent customer service no matter when you need it.

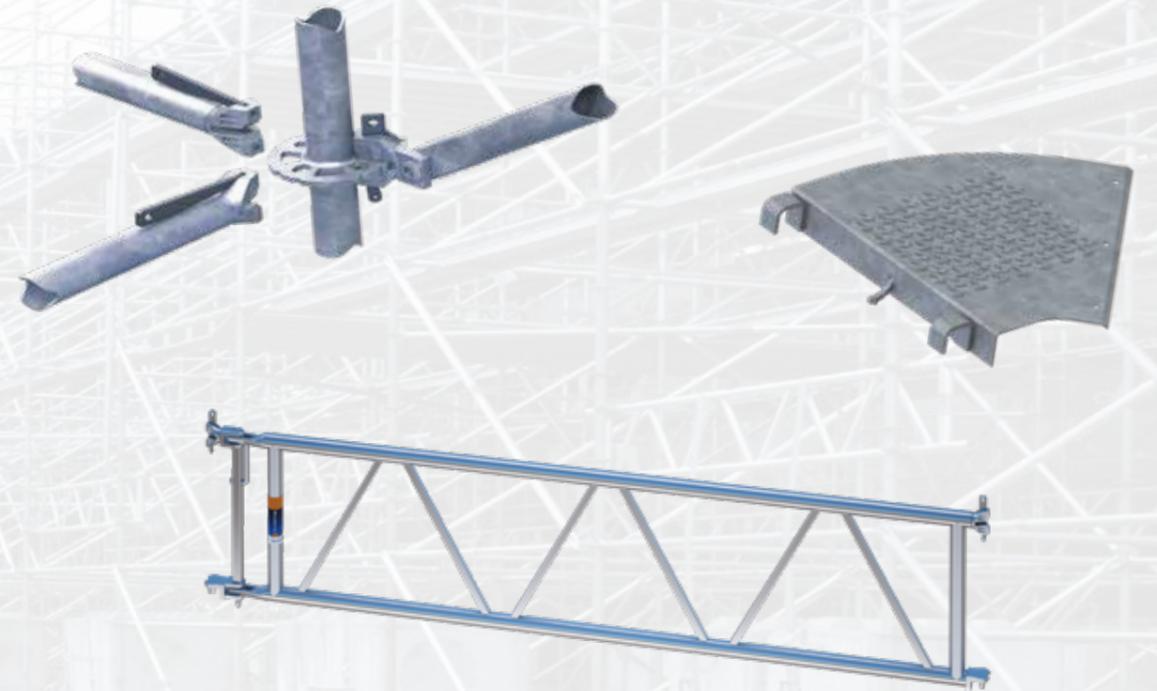
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YOUR PARTNER IN THE MINING INDUSTRY

During the construction and maintenance of mines, everything runs according to a tight schedule. At the same time, it is not uncommon for unexpected repairs to be necessary that require more time and scaffolding material than planned. Scafom-rux is not only your supplier of high-quality scaffolding systems, but also your partner in overcoming your challenges.

From finding the best solution when you quickly need an alternative to your initial plans to short term delivery of material, you can rely on us having your back.

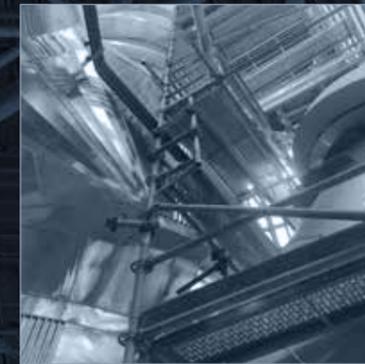


SCAFOM-RUX SCAFFOLDING SYSTEMS AND SERVICES ARE USED IN

- **SURFACE MINING**
like construction or maintenance of open pit mines, their infrastructure and equipment
- **SUBSURFACE MINING**
like construction and maintenance tasks in different types of underground mines

SUPPORT IN ALL MATTERS

Whether you are responsible for setting up the scaffold or for making the business decisions – Scafom-rux products and services offer you decisive advantages from both a user and commercial point of view. These range from the certification of our products for the use in the mining industry to fast response and reaction to your enquiries.



> SOLUTIONS FOR THE MINING INDUSTRY

> CERTIFIED SAFETY

To ensure that you can work safely at all times, we manufacture our scaffolding systems to internationally recognised quality standards and have them certified by various institutes worldwide, including for safe use in surface and subsurface mines. Easily adaptable accessories such as anti-slip decks, gap fill decks or ledgers, safety guard rails and more also help you to create the safest work environment possible.

> MAXIMUM FLEXIBILITY

To carry out a wide range of work on stockpiles, primary crushers, conveyor belts or drilling machinery, you need a scaffolding system that is not only safe but also versatile. For example, you only need one additional component to build a stable stair tower made of RINGSCAFF modular scaffolding material.

> FAST SUPPORT WHENEVER YOU NEED IT

When you get the go-ahead for a project, everything has to happen very quickly. That's why it's essential that you can rely on a scaffolding supplier who can quickly provide you with the right response to your enquiries. Our team supports you with the fast and reliable availability and delivery of material, even in large quantities. Also, you benefit from a broad product range that covers the most diverse applications.

> A STRONG PARTNERSHIP

During the construction or maintenance of mines, there may be times when an unforeseen repair requires scaffolding that was not originally in your plans. In situations like this, our team has your back. Because every Scafom-rux scaffold also comes with a strong partnership. For you, this means that we can quickly support you with additional material and new designs, for example. This allows you to stay flexible and react quickly to unforeseen situations.

SCAFFOLDING FOR ALL KINDS OF PROJECTS

Thanks to its versatility, the Scafom-rux modular scaffold RINGSCAFF is used in mining projects worldwide. With RINGSCAFF you can safely implement minor and major projects, such as

- Periodic maintenance and repair works
- Construction of new mines or extension of existing mines



QUELLAVECO COPPER MINE MOQUEGUA, PERU

The Quellaveco copper mine is one of the largest copper deposits in the world. 885 tonnes of RINGSCAFF modular scaffold were used for the construction of the open pit mine's structures and machinery. Of course, such a large-scale project has its very own challenges. Especially compliance with schedules and savings on materials that have to be transported to the mine played a major role here.

SCAFFOLDING CHALLENGE:

For the construction of the stacker tower, its individual sections had to be assembled on the ground, lifted, and then supported to fix them in place. Using shoring systems for this task proved to be too time-, labour-, and material-consuming, prompting the search for an alternative solution.

SCAFFOLDING SOLUTION:

Instead of supporting the individual sections of the stacker tower's cantilever arm with shoring systems, scaffold stairs were attached directly to each section. The stairs provided the necessary access to the cantilever arm to allow the individual parts to be fixed together without the need for shoring.



MEJILLONES POWER STATION ANTOFAGASTA, CHILE

The structures of the Mejillones power station in northern Chile are maintained at regular intervals. Scafom-rux modular scaffold RINGSCAFF was used for the maintenance of the boiler of the coal fire power plant to cover its interior.

SCAFFOLDING CHALLENGE:

The most challenging aspect of the project was the planning of the scaffolding in the conical sector of the boiler. This made it necessary to support it with inclined swivel base jacks.

SCAFFOLDING SOLUTION:

Due to the type of support and the 18 levels of scaffold height, a design and structural analysis focused on the resistance of the swivel base jack. In addition to that a calculation memory was made to create a finite element model with SAP2000 software.

To achieve an efficient unloading and resistance of the swivel base jacks, it was necessary to implement auxiliary systems. These restricted the sliding of the support elements and helped to avoid second order forces that would have considerably decreased the resistance of the element.





RINGSKAFF MODULAR SCAFFOLD

Steel and
aluminium decks

➤ Thanks to its flexibility, the Scafom-rux RINGSKAFF modular scaffold is the perfect fit for scaffolding work in the mining industry.

The RINGSKAFF modular scaffold makes the assembly and dismantling process particularly easy and fast. It consists of just a few basic components that are also easy to store and transport. Certified by recognised authorities worldwide such as DIBT, AFNOR, AENOR, LNEC, RISE and more, RINGSKAFF is a high-quality modular scaffolding system that allows you to work safely for decades with hardly any maintenance costs.

➤ THE MINING INDUSTRY USES RINGSKAFF

- to provide access even to difficult areas like the interior of boilers, stacker towers or covered stockpiles
- to create a temporary working platform for repair, installation and maintenance works
- to support elements of structures and machinery during construction

➤ RINGSKAFF KEY FACTS

Sometimes you just need the bare facts. Here they are: Scafom-rux supplies the RINGSKAFF modular scaffolding system in space-saving metric, traditional 07 and imperial dimensions. Further technical details include:

- Steel decks with a load bearing capacity of up to 6.0 kN/m² allow to store more than 600 kg of material, installation equipment or machinery on a single square metre of a RINGSKAFF scaffold platform*
- Each RINGSKAFF connector can carry up to 6,7 tonnes (66 kN) of vertical shear force
- Classified as light duty, medium duty and heavy-duty scaffold by WorkSafe
- Made of hot-dip galvanised steel for longer service life
- Certified compatibility with other scaffolding systems on the market
- Internationally certified and audited by external authorities

* All loads given in this marketing material are reference values.



RINGSKAFF standard
without spigot

STAIR TOWERS

With Scafom-rux stair towers you can flexibly create safe access to working areas at different heights. Our RINGSCAFF stair tower, for example, is adaptable so that you can easily bridge pipes and other obstacles to make even hard-to-reach work areas accessible. It is up to you whether you prefer to work with the space and material saving metric measurement or the traditional 07 measurement. Our RINGSCAFF stair tower can do both.

➤ For the stair tower, you only need standard RINGSCAFF elements and the steel construction stair with anti-slip surface as a special part. This makes the stair tower particularly space-saving and cost-efficient in storage, transport and assembly.



Stair tower

➤ RINGSCAFF STAIR TOWER KEY FACTS

- Live loads up to 2.0 kN/m² are possible and allow for safe use even for higher traffic frequency on the stair tower
- Stair widths of 0,90 m allow for convenient use even with oncoming traffic
- Modular RINGSCAFF material in metric or 07 dimensions
- Steel construction stair with anti-slip surface
- Classified as EN 12811, class B
- RINGSCAFF Approval No. Z-8.22-869 by DIBt
- Other configurations and load classes of the stair tower are also available



Stair tower

SCAFFOLDING ACCESSORIES

Working in a surface or underground mine means that you are not only faced with the individual requirements of each operator, but also often with limited space and angled structures that need to be scaffolded. Scafom-rux system-free and modular accessories are designed to help you meet high safety requirements and save labour, time and space.

> METRIC, 07, IMPERIAL DIMENSIONS WE'VE GOT THEM ALL!

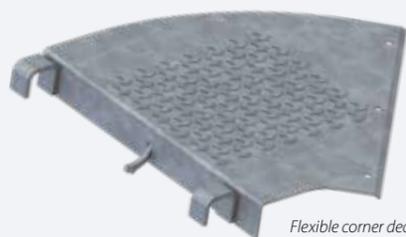
From individual components to complete scaffolding systems, Scafom-rux gives you the choice between metric, 07 and imperial dimensions. In particular, the metric scaffolding material will help you to save on material and space, especially in tight and winding spaces.

With scaffold material in metric measurements, many standard dimensions can be achieved with just one deck width. This simplifies scaffolding around corners and requires fewer scaffolding components. Fewer components not only make the assembly and dismantling processes less complex, but also reduce the challenges during transportation and storage. All of this ultimately helps you to reduce overall costs.

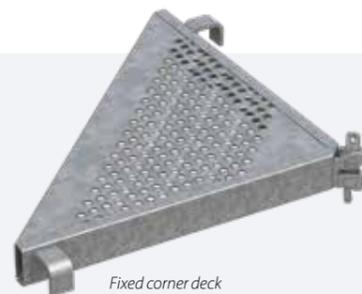
Choose between

- Different variations of stairs and ladders
- Various types of couplers
- Fixed and swivel base jacks
- System-free steel decks and toeboards
- Safety guardrails and safety gates
- Gap-fill decks and ledgers
- Fixed and flexible corner decks
- Brackets for up to 4 boards
- Tarpaulins and nets
- and more

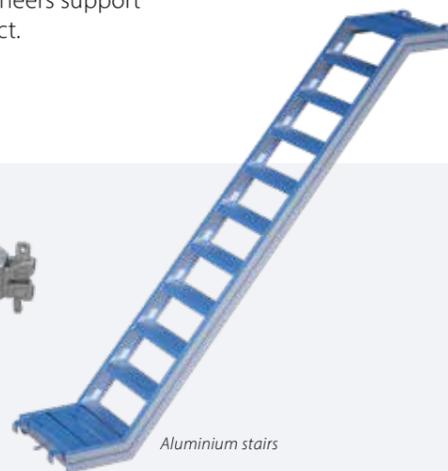
Challenging requirements often call for special scaffolding solutions. Our engineers support you by designing scaffolding material to meet the requirements of your project.



Flexible corner deck



Fixed corner deck



Aluminium stairs

K-Frame

K-Frame



HIGH-QUALITY PRODUCTION

Running our own production facilities is the best way to ensure that we can pass on our scaffolding systems to you with the highest quality standards. At the same time, delivery routes are kept as short as possible, so you always have easy and quick access to our scaffolding products.

CERTIFIED PRODUCTION PROCESS

Our quality assurance process starts with the selection of certified raw materials and continues throughout the entire production chain. This means that you always receive products of consistently high quality - regardless from which of our factories your order comes from. This is regularly confirmed through internal and external inspections of our products and production.



CERTIFIED QUALITY YOU CAN COUNT ON

Certificates and approvals from independent institutes help you to make sure that a scaffold meets your expectations of safety and quality.

We always put the quality of our scaffolding systems first. Because of this demand for quality, our scaffolding systems have numerous certifications from renowned authorities worldwide such as AENOR, AFNOR, DIBt, LNEC, RISE, VÚBP and WorkSafe.

In addition, we have regular audits carried out by independent third parties to check the manufacture and organisation of our production facilities. So, you can be sure that your Scafom-rux scaffolding always complies with the current safety requirements of the industry.

MIXING APPROVED

Scafom-rux RINGSKAFF is officially certified by the German Institute for Structural Engineering (DIBt) to be mixed with other leading scaffolding systems. This way you can increase your planning flexibility, make the most of your stock and give yourself the freedom to always choose the best product with the best possible service.

RINGSKAFF has the following mixing approvals from DIBt:

- Z-8.22-901: mix approval with Layher Allround K2000+ and Layher Allround Lightweight
- Z-8.22.911: mix approval with Plettac Assco Contur
- Z-8.22.971: double mix approval with Layher Allround and Plettac Assco Contur/Altrad Futuro



SERVICES FOR THE MINING INDUSTRY

The Scafom-rux team not only provides you with leading scaffolding systems for the mining industry, but also works with you to meet your challenges. Your options go beyond the purchase of a scaffolding system and range from flexible scaffolding rental options, training for your team and external partners, to technical support and engineering services.

TECHNICAL ENGINEERING SUPPORT

The Scafom-rux engineering team is happy to support you with various scaffolding and technical services to make your project a success, including

- Technical support whenever you need it: starting from the initial quotation to the completion of your project
- Drawings, static calculations and designs, including calculation memory
- Site visits in case of challenging situations or designs
- Customization of scaffolding components to the requirements of the plant

TRAININGS AND SEMINARS

The right planning, correct handling of scaffolding materials and knowing what to do in an emergency are crucial in demanding working environments like mines of all kinds. This is why Scafom-rux offers trainings for scaffolders, engineers or your external partners that will make your work safer and speed up construction times.

- **Trainings for scaffolders:** Learn how to assemble and dismantle our scaffolding systems. We are happy to issue a certificate upon completion of the training.
- **Rescue trainings:** Our trained staff prepares you for what to do in case of emergency and teaches you in accident prevention.
- **Trainings for engineers:** Our engineers teach you the planning and configuration of our systems in your projects.
- **Trainings for scaffolding calculation and technical design:** Our team supports you with the implementation of your project as well as with the assembly and use of each of our systems.

SCAFFOLD SALES

Due to our global presence in more than 20 countries, Scafom-rux scaffolding solutions are always close to you. So, you can expect quick response from our team to your requests and fast availability of the material needed.

When you buy a Scafom-rux product, you can be sure that you are investing in a high-quality, certified scaffolding solution. Thanks to the high-quality hot-dip galvanisation of our products, you can use the same scaffolding system for different purposes, even in challenging areas. At the same time, maintenance costs can be kept low.

SCAFFOLD RENTAL

Sudden demand for scaffolding material and special designs are part of your daily business. Scaffold rental is a cost-efficient option to stock up material at short notice. Scafom-rux offers you flexible scaffold rental options and a fast and reliable delivery of high-quality, clean, and certified scaffolding material. Our team understands the tight schedules you're working to and will organise fast delivery when you need it.



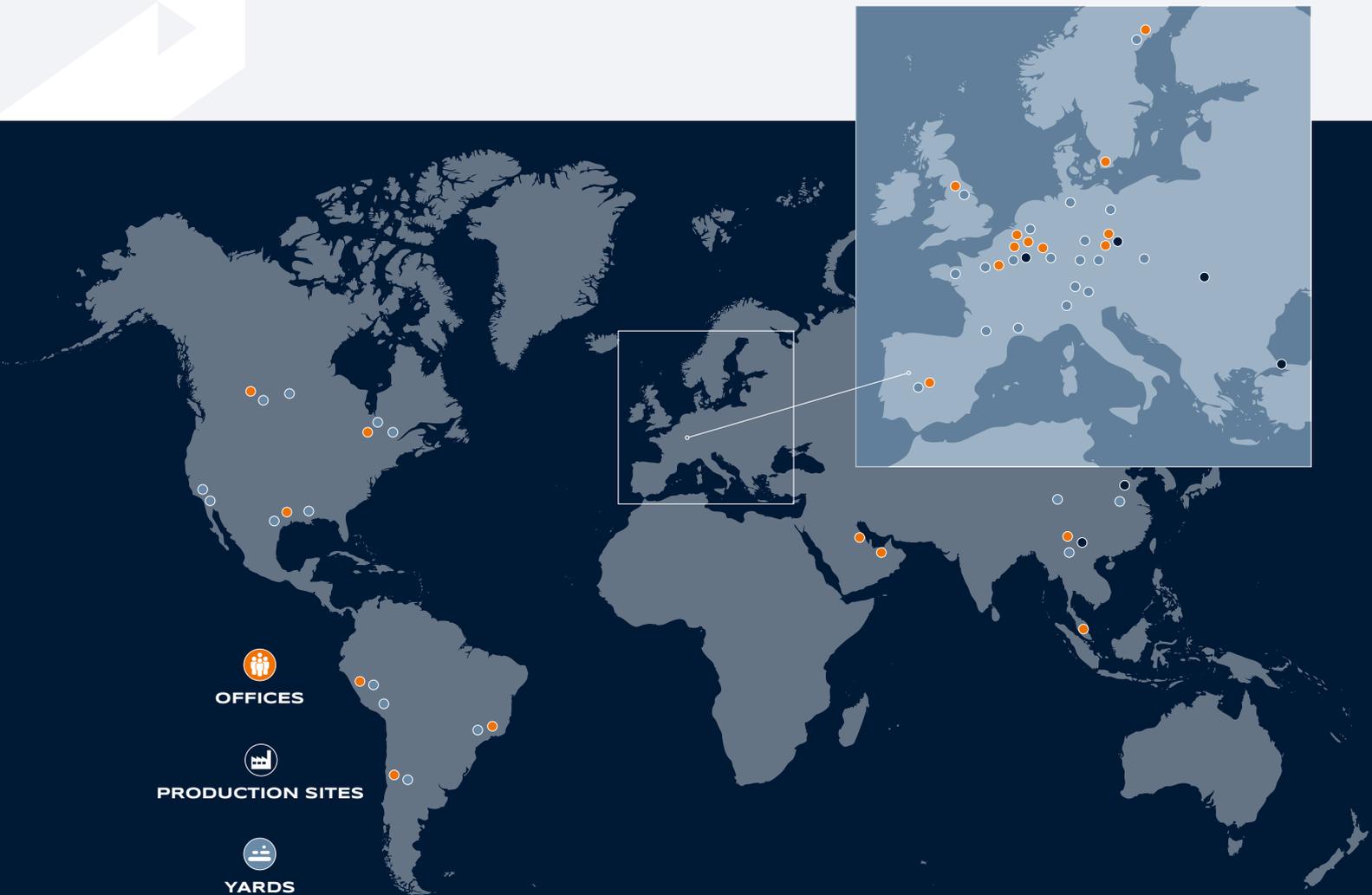
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SCAFFOLDING | **MINING** INDUSTRY

> SCAFOM-RUX **YOUR PARTNER IN SCAFFOLDING**

Scafom-rux is a manufacturer, distributor, and rental supplier of premium quality scaffolding solutions. Our entire team is dedicated to understanding the needs and requirements of scaffolding professionals in the mining industry. Complemented by additional services like professional training or technical engineering, we can provide advice and expertise to find the best possible solution for every scaffolding project worldwide.

For more information about Scafom-rux, our scaffolding products, projects and services, please visit www.scafom-rux.com or our YouTube channel www.youtube.com/c/scafom-rux-scaffolds.



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