

ENRX

# The heart of your machine

GET THE PERFECT COIL FOR YOUR INDUCTION HEATING PROCESS



# What is the right coil for you?

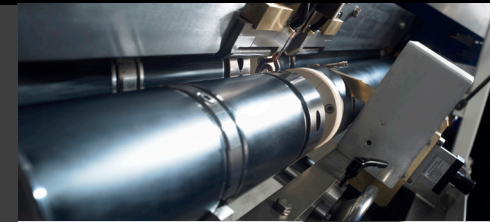
It depends on your heating challenge. ENRX offers a variety of coils for a large number of applications. We assist you every step of the way – from design and manufacture to repair and replacement – and deliver high-quality coils that maximize productivity and minimize energy consumption.

## Criteria for choosing the right coil

Your application is our starting point. There are usually many questions to sort out. What do you want to heat and where? What should the heating pattern look like? What is the desired temperature? But don't worry. We have a structured and time-efficient process to collect all the information needed. By learning what you want to achieve, we can provide you with the perfect coil for your induction heating process.

### Application

What is your process? Brazing, soldering, hardening?



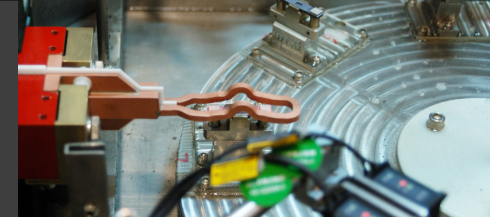
### Material

What kind of material do you wish to heat? Aluminum, copper, steel?



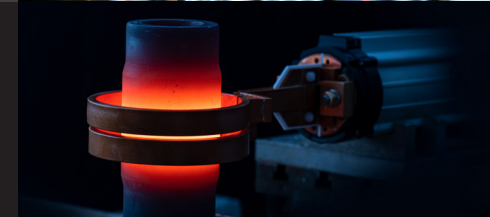
### Process

Do you use manual or automatic induction heating equipment? What are the water flow and process speed?



### Temperature

What is the desired heating pattern, maximum temperature and required cooling time?



### Technical

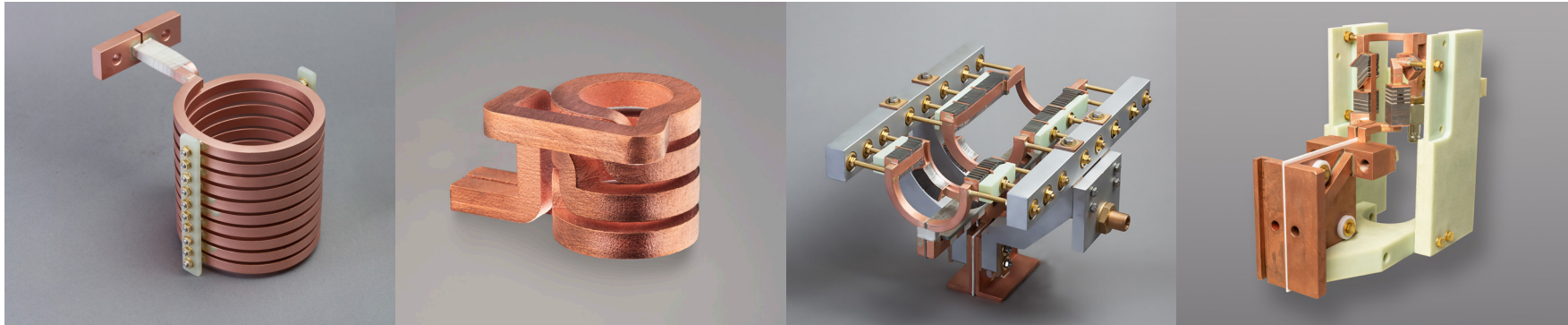
What kind of power source do you have? What is the power and frequency?



**Many things to consider.** If you instantly know the answer, you haven't asked enough questions. We pay a lot of attention in the design phase to save you from trouble later on.

## Four types of coils

ENRX can offer you virtually any coil within four categories: Conventional, machined, 3D and hybrid coils. Even if you use induction equipment from another company, we can provide you with new and more efficient coils.



### Conventional coils

Copper sections brazed together. Common in applications with simple workpiece geometry and wide tolerances (> 0.5 mm).

### 3D coils

Printed with 3D technology. Possible to print very complex structures. Fewer soldering joints make them a good option when cooling water flow is an issue. Relatively expensive.

### Machined coils

Produced with CNC equipment. Excellent in applications with high demands on repeatability as well as mechanical and heating performance. Narrow tolerances (0.05 to 0.1 mm). Higher cost than for conventional coils.

### Hybrid coils

Combines two or more of the technologies mentioned above. The price depends on the technologies combined.

# From design to replacement

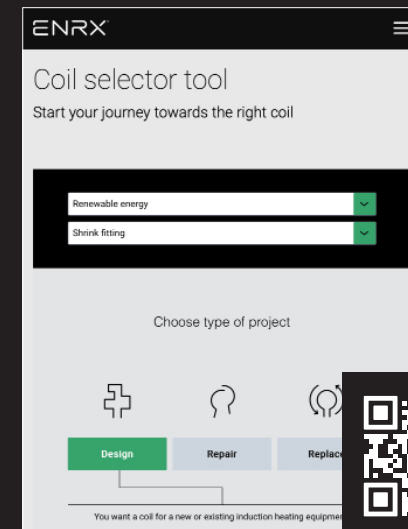
The lifecycle of a coil includes many phases: Design, manufacture, installation, commissioning, maintenance, reconditioning, repair and replacement. The fact that we can take on big assignments doesn't mean we overlook small projects. You are always welcome.

## The making of a new coil

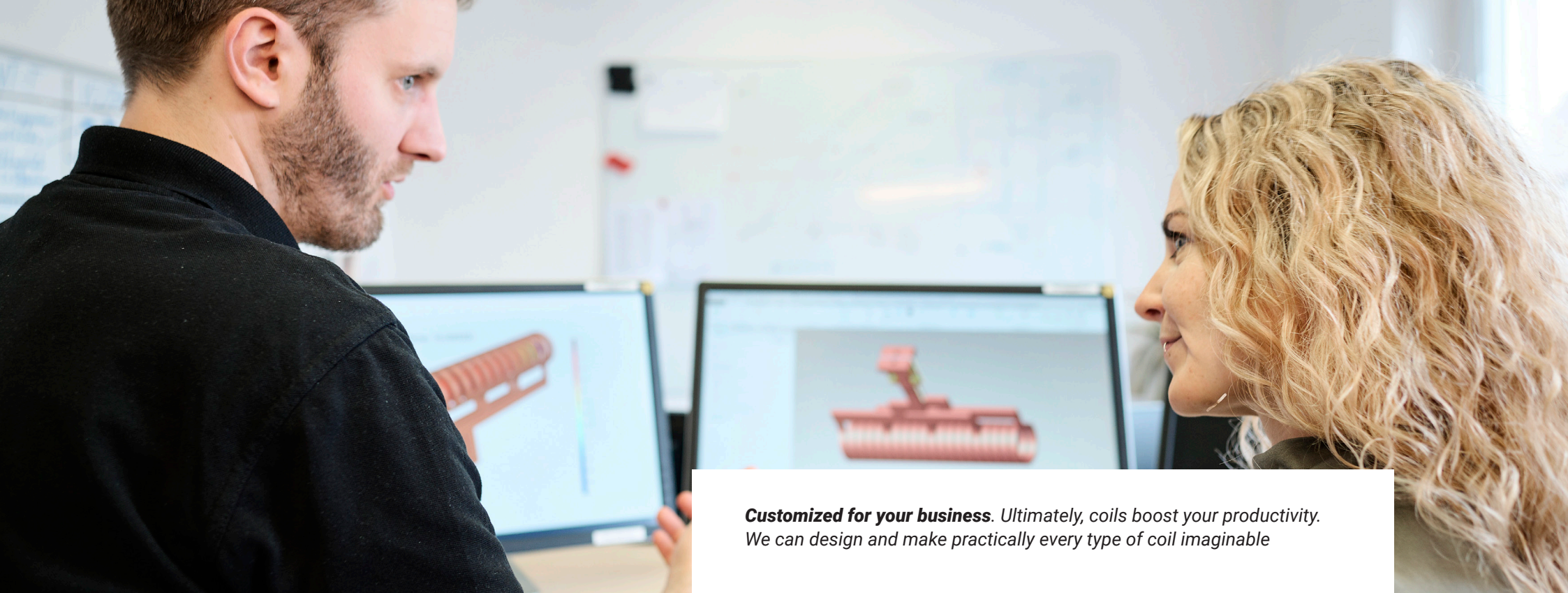
We start by defining what type of coil you need for your application. If you are replacing a coil, we will assess whether it has performed to your complete satisfaction or if you wish to make any adjustments. When designing the coil, we use 3D programs and advanced simulation tools to evaluate different options in the search for the ultimate design. We also test the coil in real life and do a final check before sending it to you.

## Documented in a database

We store all information about your coils in our database. You can rest assured that we can repair your coil or produce a new one of the same quality. If you have made any changes to your induction heating process, we will adjust the original coil design to the new conditions.

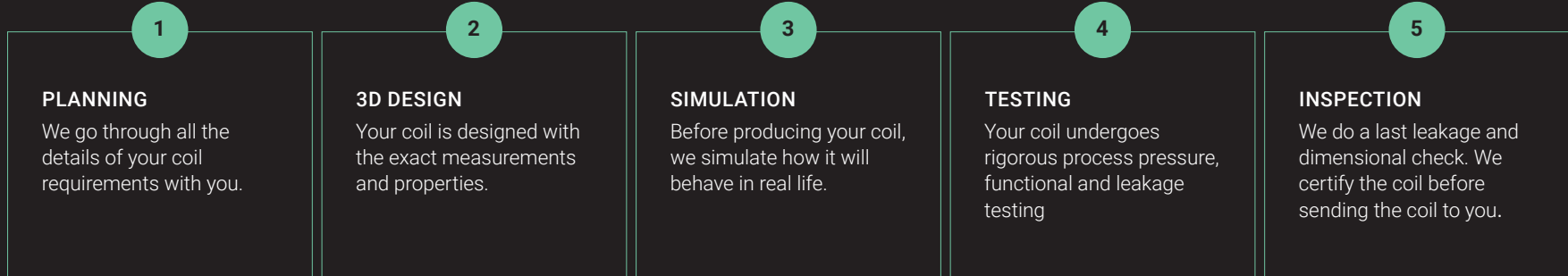


Try our **coil selector tool** on the web



**Customized for your business.** Ultimately, coils boost your productivity. We can design and make practically every type of coil imaginable

When we produce a coil for you, we follow these steps:



# Coil competence you can trust

When you turn to ENRX, you get a business partner that can support you with consultation, installation, commissioning, maintenance, training, repair and replacement. With experience from coil projects worldwide, we bring what you need to improve your induction heating processes.

## **We learn before we launch**

There's always a new technological step going on within induction heating. But you have to be careful. Induction heating processes are complex and crucial for productivity. New types of coils have to be thoroughly tested before being taken into production. We don't launch a new technology until we fully understand it – and truly can say that our customers would benefit from it. In other words: We do the trial and error, so you don't have to.

## **Give yourself a business advantage**

The coil is the heart of your machine. Getting the right coil helps you boost your efficiency in terms of increased uptime, performance and quality. Don't hesitate to get in touch with us. We can provide you with the coil you need – and the competence to maximize its output. With representatives in more than 50 countries, we are always ready to assist you.

**Always close at hand.** We have an extensive network of research facilities and coil workshops with expert engineers and specialist equipment.

**Sustainably manufactured.** All ENRX production sites are certified according to ISO 9001. Health and safety, as well as environmental concerns, are embedded in our daily work.

