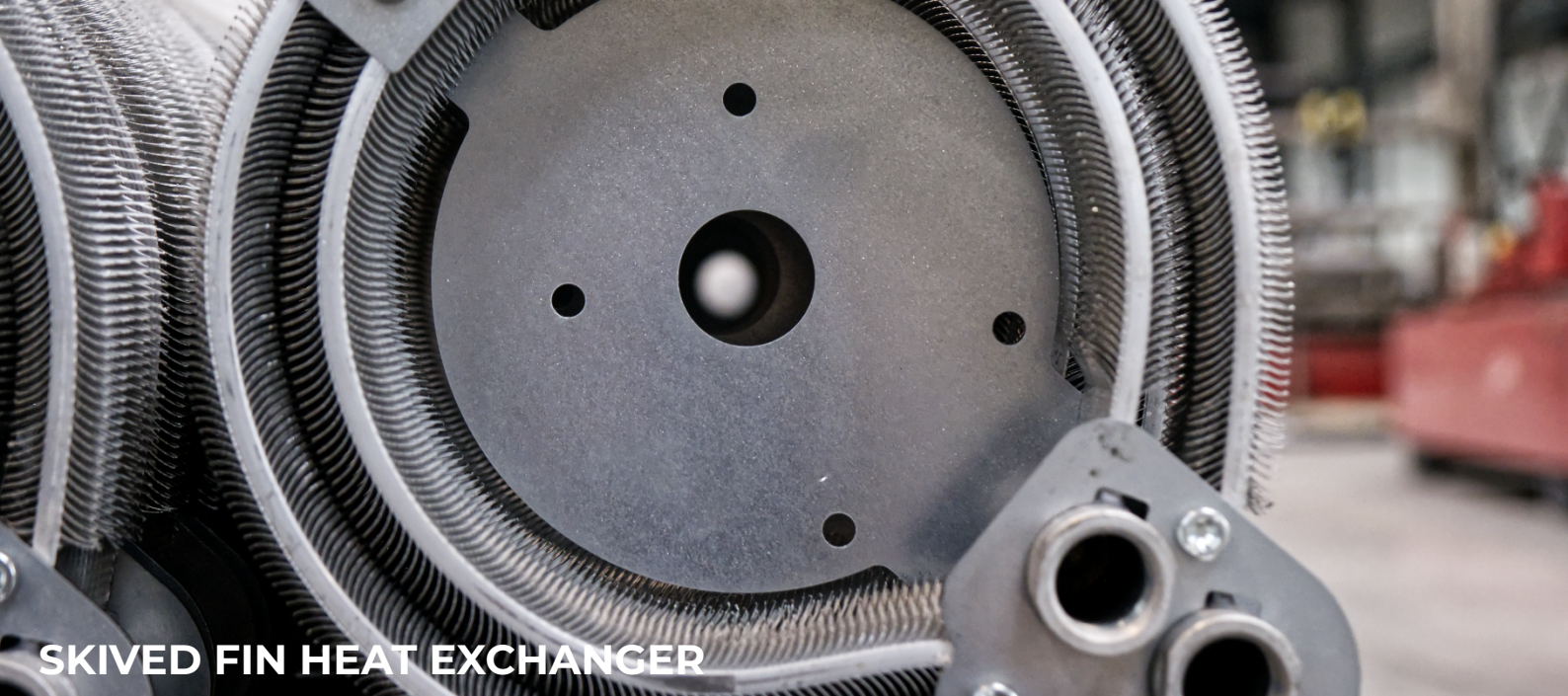




**INNOVATIVE SOLUTIONS IN THERMAL TRANSFER
& PROCESS EQUIPMENT**



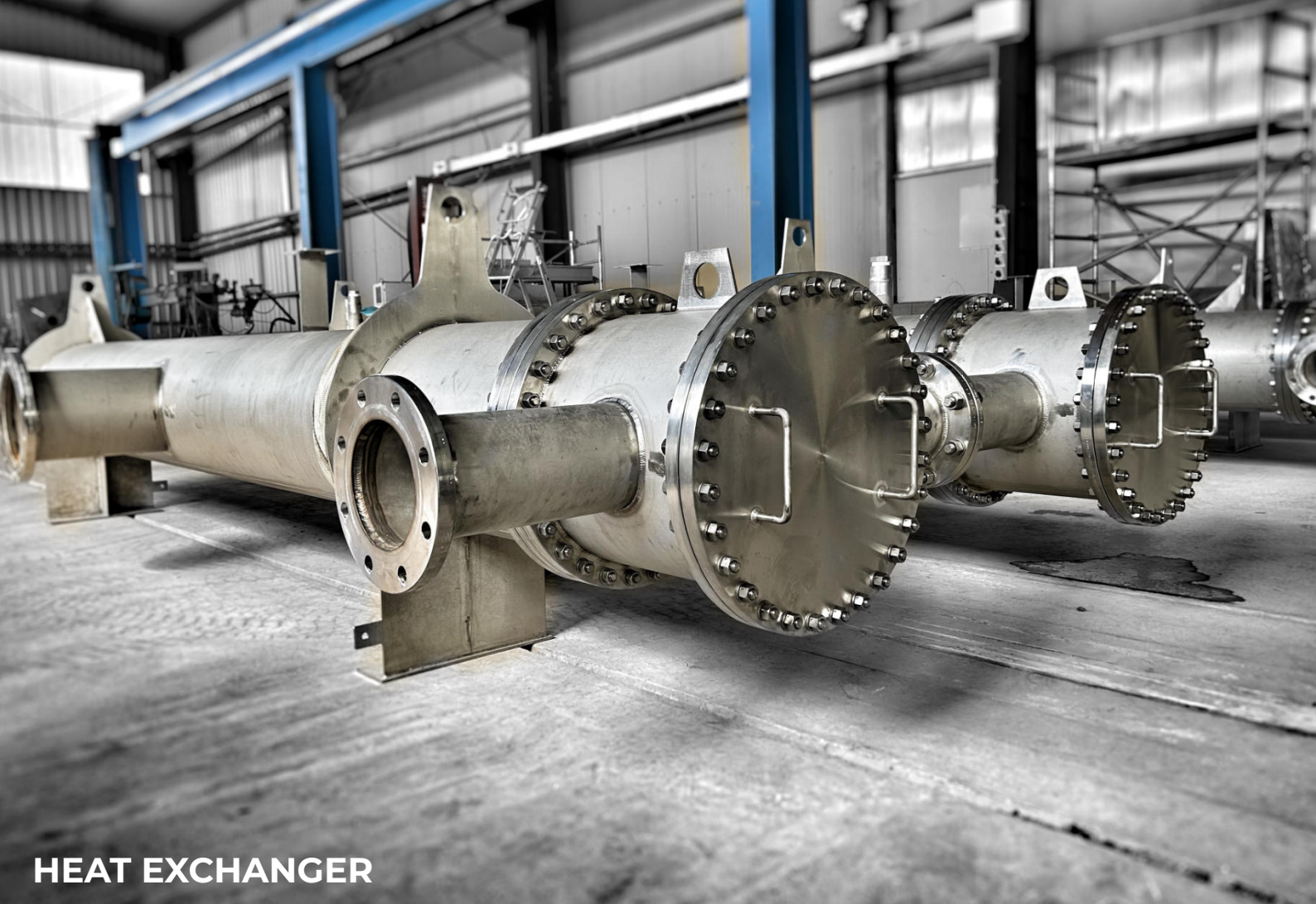
SKIVED FIN HEAT EXCHANGER



SEPARATOR



SPARE BUNDLE



HEAT EXCHANGER



HEAT EXCHANGER

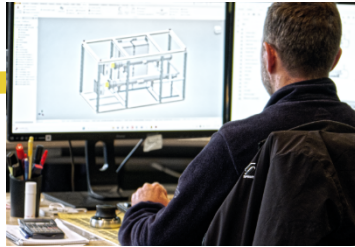
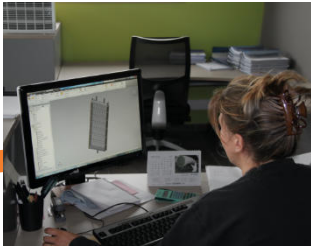
The background is a blurred industrial scene featuring a large valve with a black handle and a pressure gauge on a metal pipe. The scene is overlaid with several semi-transparent white circles of varying sizes. A thick, wavy line in orange and blue arcs across the middle of the image, passing behind the central text circle.

ENGINEERING & QUALITY

DESIGN

Leveraging expertise in international codes and standards, including ASME VIII, ASME III, TEMA RCB, CODAP, AD-Merkblätter, EN 13445, API 660, RCCM and ISO, our team of engineers is equipped to meet our clients' requirements by delivering optimal designs that fully comply with the latest regulatory standards.

From thermal sizing using Aspen to mechanical calculations and detailed drawings, every phase of the process is handled internally, ensuring both flexibility and efficiency in our approach.



These capabilities allow us to diagnose, repair or even improve your existing units through **retro-engineering**.

MANUFACTURING

Our vision of quality is rooted in complete control over the entire production process. That's why we consistently invest in our production line, keeping it at the forefront of technological advancements. Our dedicated workshops are equipped with a wide array of high-performance machine tools, all operated by qualified and skilled professionals.

[Learn more about our workshops](#)

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QUALITY

SAG owns the licenses for the design and manufacture in accordance with :

- Directive 2014/68/EU - Modules H1, H, D1 ;
- ISO 9001 (2024) for **SAG Industry & Pharma** ;
- Asme U stamp (recertification, 2025) ;
- ISO 19443 for **SAG Special Equipment** (in progress, 2025)
- ISO 3834-1/2 for our welding quality system (in progress, 2025)

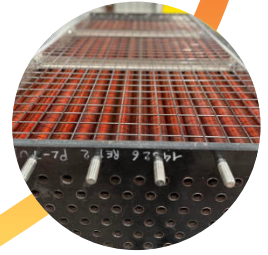


PRODUCTS

SHELL & TUBES HEAT EXCHANGERS - SHE

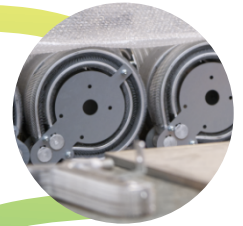
TEMA
Double pipe
Spiral tubes
Bayonet
Aseptic

Hairpin
Industrial evaporators
Industrial condensers
High pressure



ENHANCED HEAT EXCHANGERS

Finned blocks
High finned tubes



AIR COOLED HEAT EXCHANGERS - ACHE

Air coolers - API 661
Skived fins technology (SKF)



POLYMER HEAT EXCHANGERS

CUSTOMIZED PROCESS EQUIPMENT

Spheres
Columns
Reactors
Filters

Separators
Condensers
Etc.



ECONOMISERS

PROCESS SKIDS

REPAIR & SPARE PARTS

Heat exchangers spare parts : shells, channels, bundles
Accessories : meshes, separators, static mixers, gaskets
Headers, interchangeable bundles, rotating equipment



The background of the image is a close-up, high-contrast photograph of industrial machinery, specifically a series of horizontal metal rollers or pipes. The rollers are arranged in a perspective that recedes into the distance. The lighting is dramatic, with bright highlights on the upper surfaces of the rollers and deep shadows in the gaps between them, creating a sense of depth and texture. Overlaid on this background are several semi-transparent, light gray circles of varying sizes, arranged in a grid-like pattern. A thick, wavy line in orange and blue colors curves across the middle of the image, passing behind the central circle.

MATERIALS

CARBON STEEL (LOW & HIGH TEMPERATURE)

P265GH, P355NL, NH, NL1, SA516GR60, SA350F2, etc.

STAINLESS STEEL

316L, 321L, 321H, 254SMO, 409, 444, etc.

TITANIUM

Gr2, Gr12, etc.

NICKEL & NICKEL BASED ALLOYS

Monel 400, nickel 200/201, alloy 800(H), Incoloy, Hastelloy, Inconel, etc.

ALLOY STEEL

P5, P11, P22, 15MO3, 16MO3, etc.

COPPER ALLOYS, BRASS, BRONZE

C12200, C46400, C70600, C71500, etc.

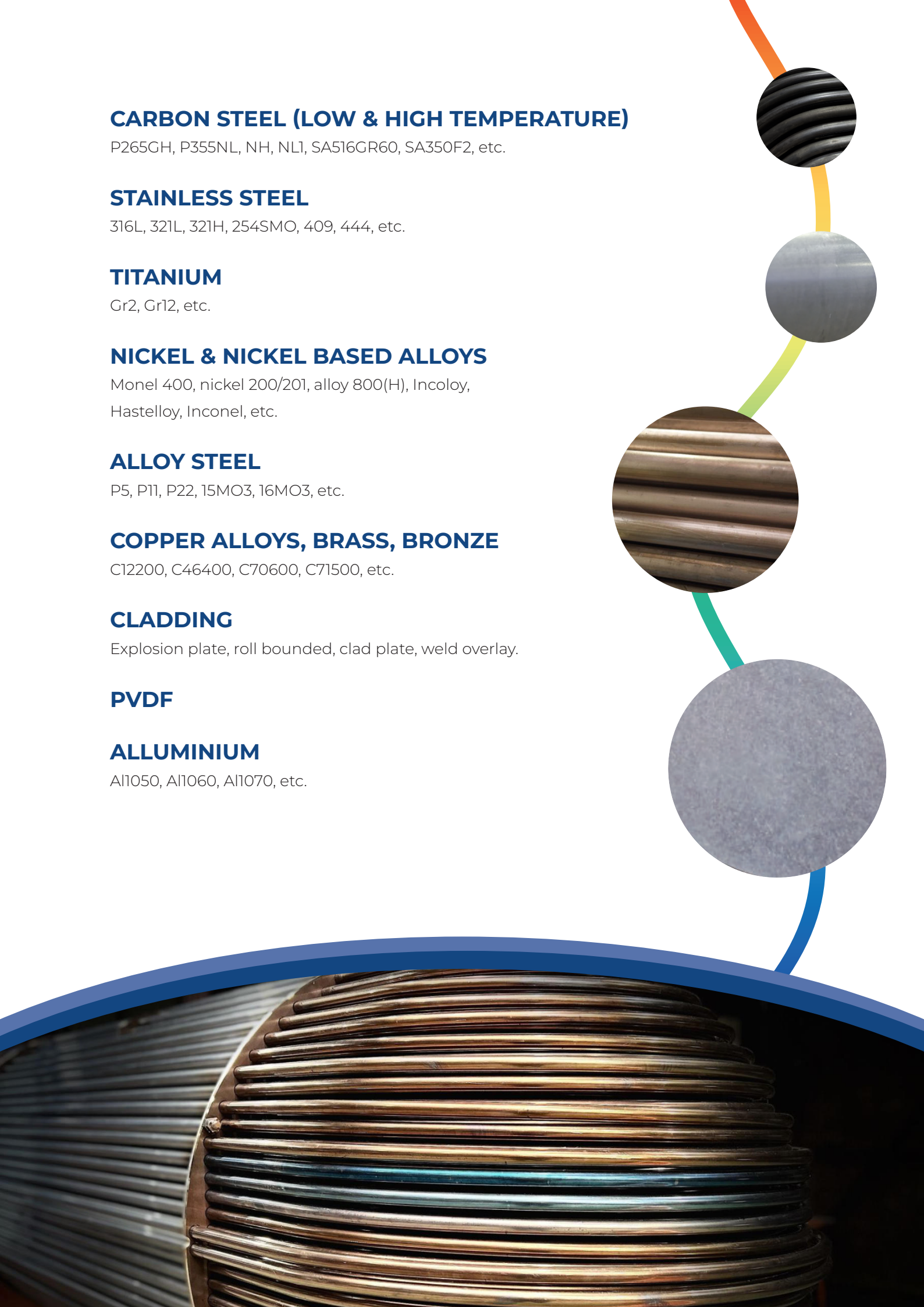
CLADDING

Explosion plate, roll bounded, clad plate, weld overlay.

PVDF

ALLUMINIUM

Al1050, Al1060, Al1070, etc.





COMPANY & WORKSHOPS

SAG INDUSTRIES GROUP

Founded in 1907, SAG is a key player in the manufacture and design of heat exchangers. Based in Belgium, the family-owned company has developed high-end capabilities for designing and manufacturing solutions that increase the performance and efficiency of the world's major oil, energy, chemical, and pharmaceutical industries. To that end, SAG is composed of 4 business units, each with its own specialities.

SECTORS WE SUPPLY



Industrial



Oil & gas



Pharmaceutical



Chemical



Power & heat generation



Nuclear



H2



Defense



Renewable energy



Research

OUR MISSION

Our mission is to offer our clients the best heat transfer solutions and innovations to optimize their process efficiency, thanks to tailored design and a high technical understanding of their needs and particularities. We are committed to manufacturing high-end pressurized process equipment for all industries that require it.

OUR WORKSHOPS

SAG operates in **3 dedicated workshops**, each dedicated to specific applications :



Industrial equipment

Carbon steel/Stainless steel
Route de Fontenoille 17, B-6820, Sainte-Cécile, Belgium

Max. weight : 80T
Max. diameter : 4m
Max. lenght : 20m

Surface : 4700m²
Production capacity : 200 unit/Y



Pharmaceutical workshop

Stainless steel/Alloys/Titanium
Rue des Hêtres 13, B-6820, Florenville, Belgium

Max. weight : 1T
Max. diameter : 457mm
Max. lenght : 6m

Surface : 1200m²
Production capacity : 150 unit/Y



Nuclear/H2/Supercritical workshop

Stainless steel/Carbon steel/Alloys
Rue des Hêtres 13, B-6820, Florenville, Belgium

Max. weight : 10T
Max. diameter : 3m
Max. lenght : 20m

Surface : 1500m²



Find more documentation and information on our website !





OUR CLIENTS' SECTORS CONCERN
EVERYONE, EVERYWHERE



SAG INDUSTRIES

17, Route de Fontenoille, B-6820 Sainte-Cécile, Belgium

www.sag-industries.com

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