

QUIRI Échanges Thermiques

Main office building

Société des usines QUIRI & Cie.

A few historical steps

The firm "Société des Usines QUIRI & Cie" was founded in 1876

- At the beginning, our products were dedicated to Breweries located in Alsace
- Then, we did mainly refrigerating solutions for the chemical, petro-chemical and food industries

(sold in 1991 – called now AXIMA REFRIGERATION)

1955 : Creation of our "Hydromécanique" department

- This department designs and produces hydraulic cylinders, gas springs, test benches, hydraulic tools ...

1991 : Creation of "QUIRI Échanges Thermiques"

- This new department is dedicated to the thermal design and manufacturing of heat exchangers, pressure vessels and other boiler construction components.

Société des usines QUIRI & Cie.

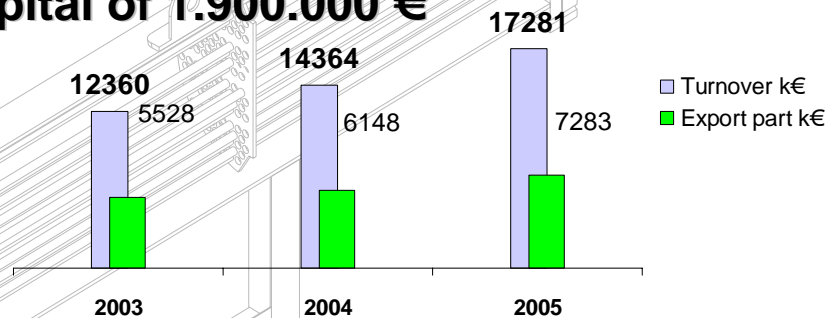
About us :

- ▶ We are an independent and family-owned company

Chairman and Managing Director : M. Edouard URBAN

- ▶ We are a Ltd company with a capital of 1.900.000 €

- ▶ Some financial data's :



- ▶ We have a staff of 130 employees including 20 engineers
- ▶ We are located in Schiltigheim, close to Strasbourg (France)

We are divided in two departments :

• **QUIRI Hydromécanique**



• **QUIRI Échanges Thermiques**





"Hydromécanique" department

RAQ 2 & ISO 9001 certified

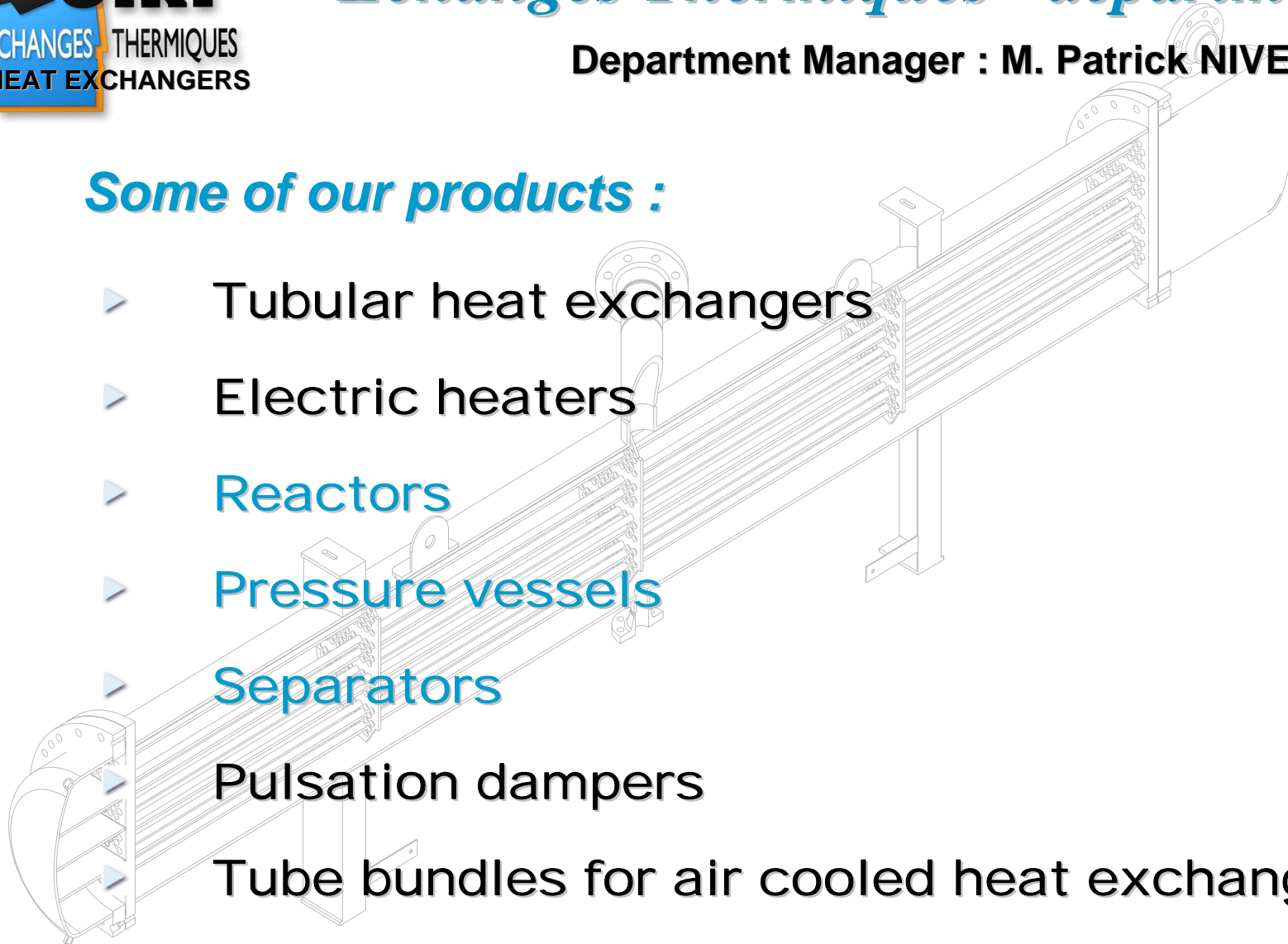
General Manager : M. Fabrice URBAN

Product overview :

- ▶ Hydraulic tools : **cylinders (up to 500 T), pumps (up to 1000 bar)**
- ▶ Cylinders applications : **dampers, springs, blocking systems**
- ▶ Hydraulic power units
- ▶ Analog and digital control systems
- ▶ Fluids and mechanical testing systems
- ▶ Snubbers and hydraulic cam systems

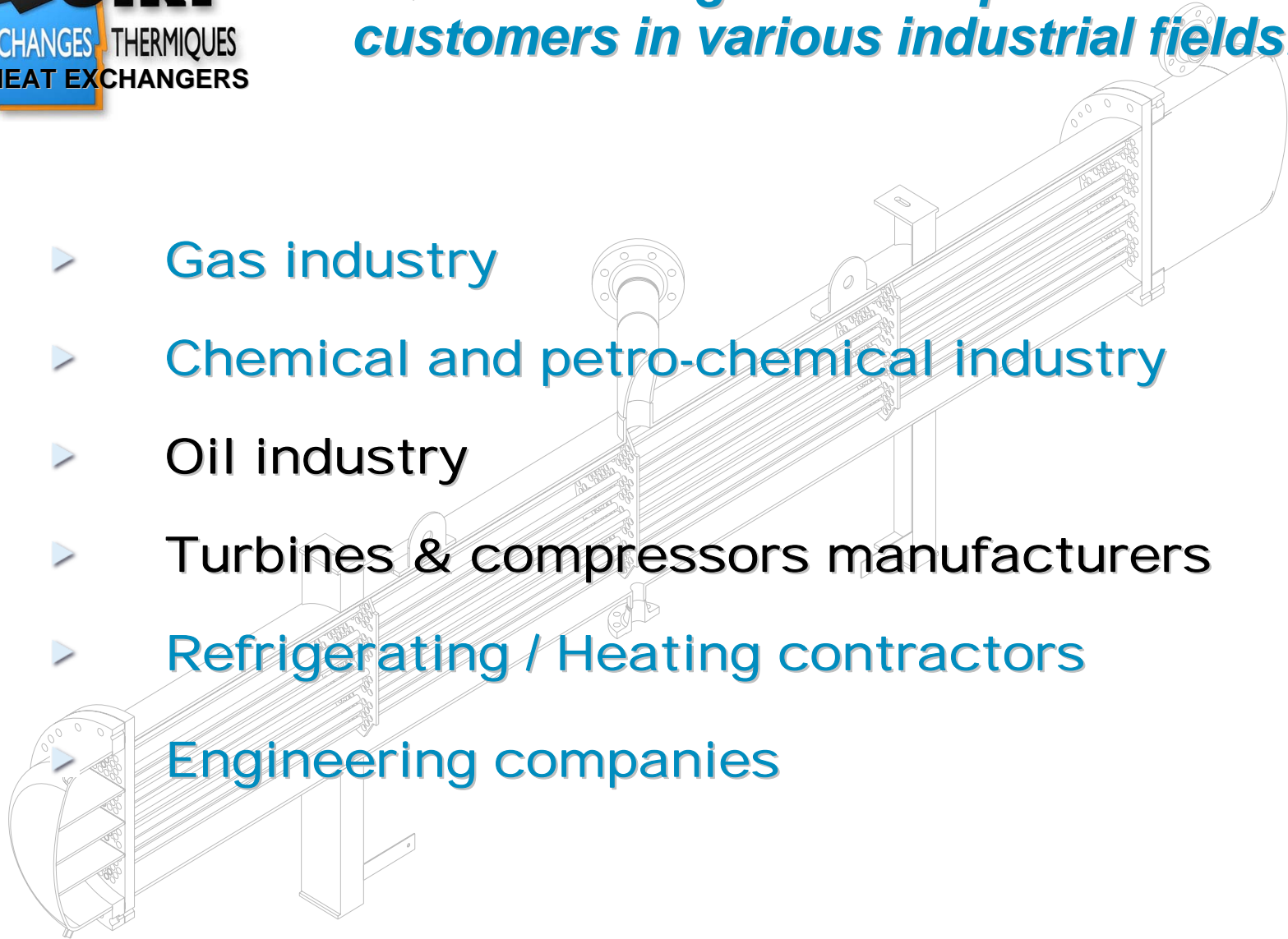
Some of our products :

- ▶ Tubular heat exchangers
- ▶ Electric heaters
- ▶ Reactors
- ▶ Pressure vessels
- ▶ Separators
- ▶ Pulsation dampers
- ▶ Tube bundles for air cooled heat exchangers



"QUIRI Échanges thermiques" finds its customers in various industrial fields:

- ▶ Gas industry
- ▶ Chemical and petro-chemical industry
- ▶ Oil industry
- ▶ Turbines & compressors manufacturers
- ▶ Refrigerating / Heating contractors
- ▶ Engineering companies



Our main advantages :

▶ *Custom-made products*

We manufacture measure-made goods. Each equipment is designed and produced according to your needs and specifications.

▶ *Thermal engineering*

We are able to provide technical solutions to all your thermal and mechanical problems.

▶ *Repairing services*

Our design and technical services are able to repair bundle tubes, channels and other exchanger parts within short times. Before shipment, we may proceed to tightness and/or hydrostatic test.

Product range :

Specifications :

Heat exchange surface : 10 to 1000 m² and more

Operating pressure : vacuum to 600 bar

Operating temperature : - 60° to + 550° c

Max. diameter : 273 to 3200 mm

Max. length : up to 14 m

Max. weight : 40 t and more

Materials :

Carbon steel

Low alloyed steel

Stainless steel

Copper & cooper alloys

Titanium

Duplex



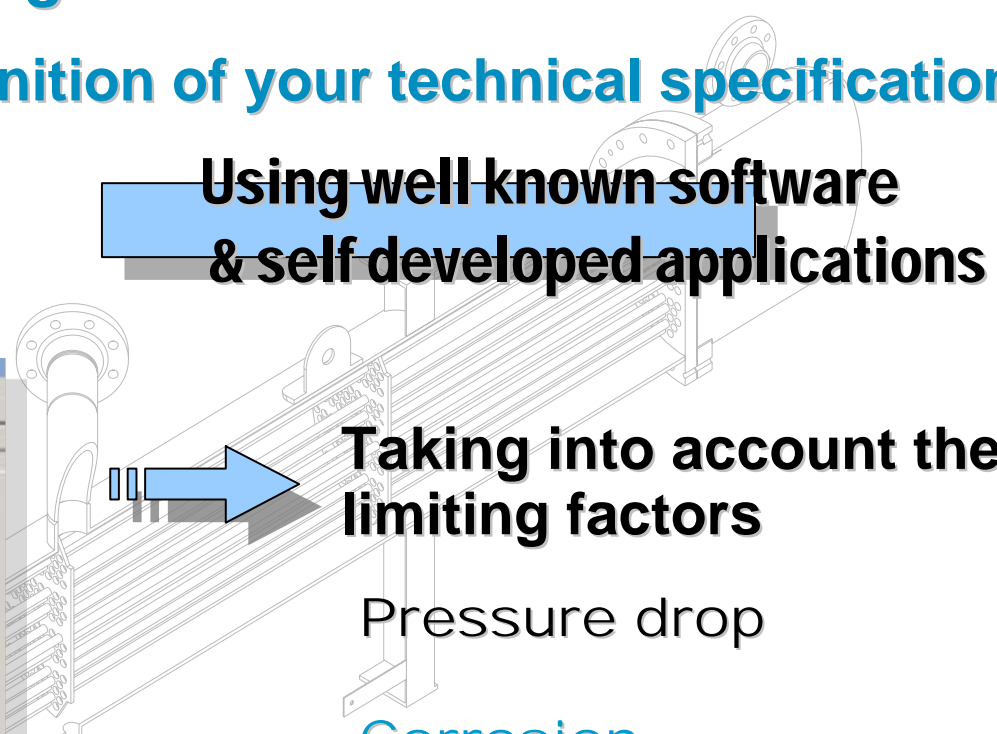
Project management :

From the definition of your technical specifications

● **Thermal needs :**

Using well known software
& self developed applications

Thermal calculation



Taking into account the limiting factors

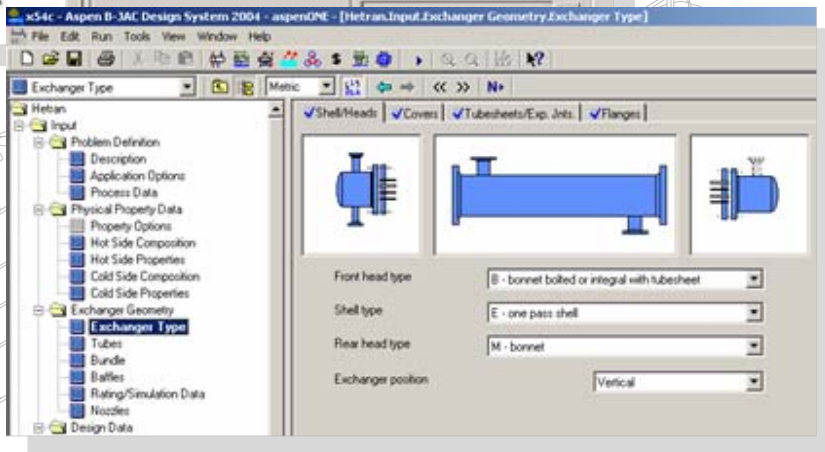
Pressure drop

Corrosion

Fouling factors

Maximum size

Fluids



Project management :
... to its design

**Mechanical drawings using
several codes :**

ASME - TEMA

AD - Merkblätter

BS

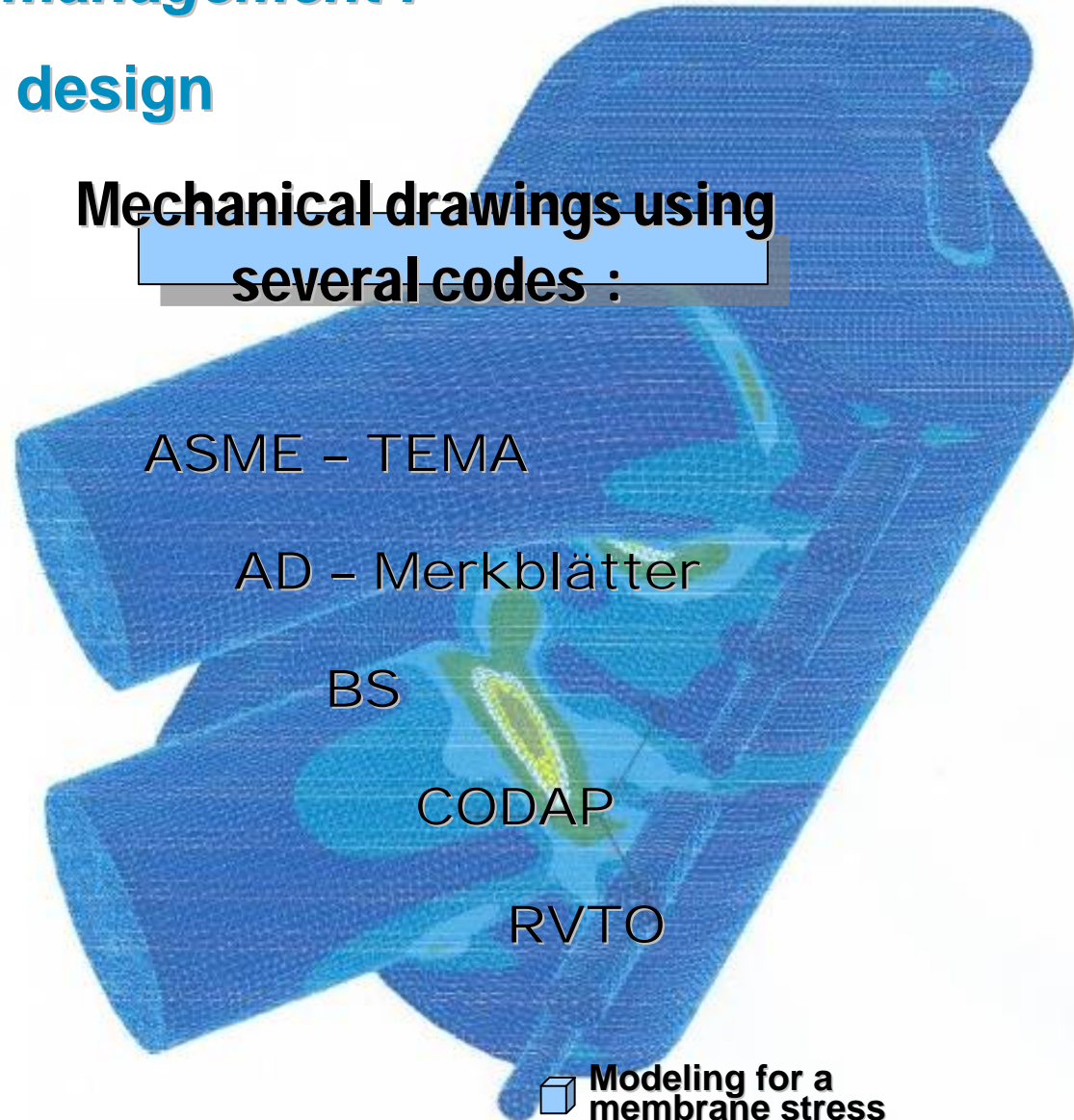
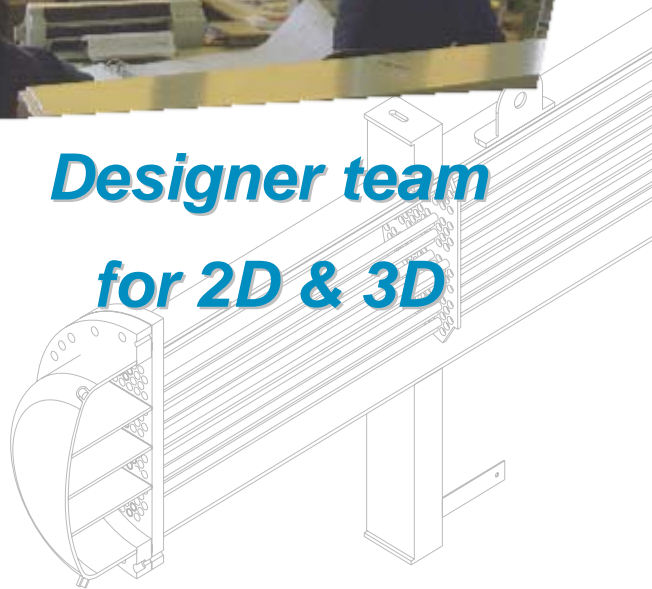
CODAP

RVTO



Designer team

for 2D & 3D



 **Modeling for a
membrane stress
calculation**

Assembly lines :

An overview of our capacities

■ Cutting & Rolling



Rolling machine
max. width 3m
max. thickness 25mm

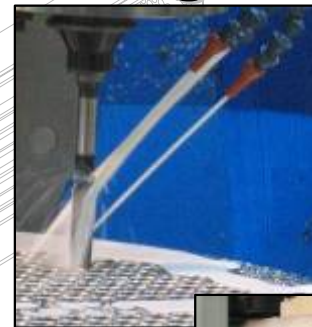


Oxygen cutting bench with optical reader

Assembly lines :

An overview of our capacities

- **Drilling & machining**



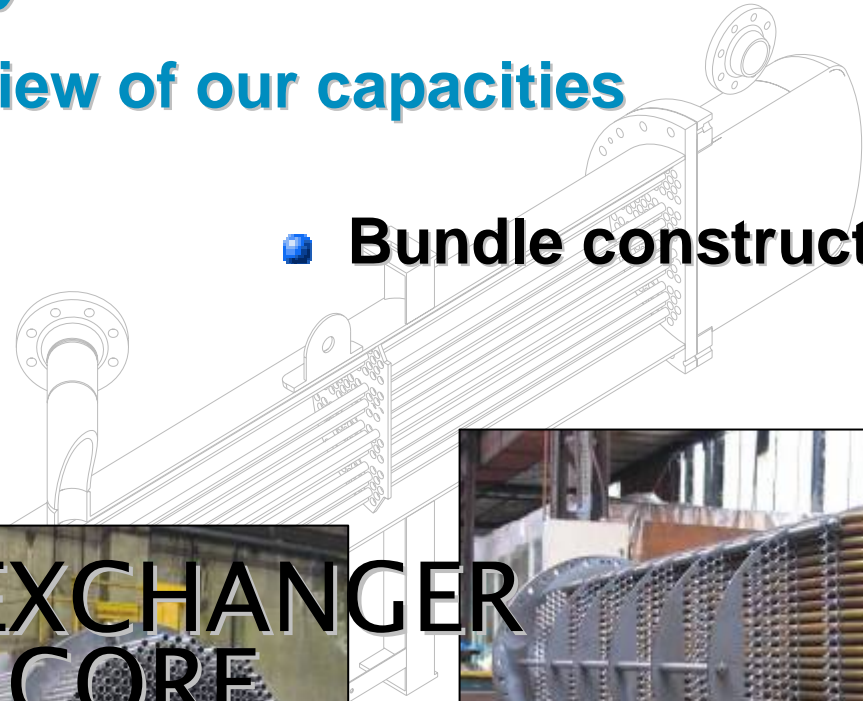
Assembly lines :

An overview of our capacities

• Baffles assembling



• Bundle constructions



THE EXCHANGER
CORE



Assembly lines :

An overview of our capacities

Welding



ASAP
PROCES-VERBAL DE QUALIFICATION
DE MODE OPERATOIRE DE SOUDAGE
QUALIFICATION RECORD
B 027

CEOC Schweißer-Prüfbescheinigung **TÜV**

ASAP
CERTIFICAT DE QUALIFICATION D'OPÉRATEURS SOUDEURS POUR LE SOUDAGE
PAR FUSION OU DE RÉGULER EN SOUDAGE PAR RÉSISTANCE SUFISANT EN SAIK

ASAP
Il a été remis au demandeur :
Original
Duplicata
de ce Procès-Verbal

**Highly qualified staff
on several welding
systems**

FABRICANT
Manufacturer
Représenté par : Mr. HARTENSTEIN
Signature :
Cachet du fabricant (éventuellement)
Stamp of the manufacturer (optional)

QUIRI ECHANGES THERMIQUES
Société des Usines QUIRI et Cie
Capital : 9 500 000 Frs
BP 150 - 67304 SCHILTIGHEIM CEDEX
Tél : 33 03 90 20 04 56 Fax : 33 03 88 81 20 32

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Assembly lines :

An overview of our capacities

• Boilerwork

**A combination of know-how
and high skills**





In-house testing area



- Hydrostatic test certificate
- Ultrasonic test certificate
- Helium seal test
- PED certification
- X and Gamma ray controls
- Acoustic resonance test



Packing and shipment :

**... Worldwide
... Prompt
and care-free ...**



Tubular
heat
exchangers



**AES type
Hydrocarbon cooler**



**BEM type
R22 condenser**



**BKU type
Propane evaporator**



**Electric gas heater
for N₂ + Ar + O₂**



CO₂ vaporizer

Electric
heaters



Electric fuel heater

Special Equipments



Freon evaporator

Pressure vessels



CO2 storage



Process fluid vessel



Vapor skid



Ethylen tank



Dampers



Insulated Vapor skid