



**PRESSURE EQUIPMENTS**  
delivered in 30+ countries  
over 40+ years of experience

A low-angle, upward-looking photograph of a complex industrial facility, likely an oil or gas processing plant. The structure is composed of numerous white metal platforms, walkways, and railings, interconnected by a dense network of pipes and valves. Some pipes are wrapped in insulation. The sky is a clear, bright blue. The overall scene conveys a sense of scale and industrial complexity.

# AGENDA

- **Company Overview**
- **Client Portfolio**
- **Products & Services**
- **Manufacturing Flow**
- **Capability**
- **Investments 2015 -2020**
- **Quality**

# COMPANY OVERVIEW

SINCE  
1977

- **Romanian top manufacturer of pressure equipment and spare parts for chemical/ petrochemical, oil & gas, and power industries.**
- **COMES appeared in 1977 as “Mechanical Workshop” of the Chemical Plant in Savinesti. Its primary aim was to supply equipment and spare parts for the **Chemical Plant of Savinesti.****

# COMPANY

**Who  
We  
Are**

With almost 40 years of experience in the production of pressure vessels, we ensure manufacture in compliance with our customer's requirements.

We acquired wide experience in providing specific solutions with distinct advantages in cost and performance for our customers.

**Our  
Mission**

Our focus is to exceed the expectations of our customers, employees and shareholders by offering professional equipment and services, using the latest technology within the processing industries.

**Our  
Vision**

Based on innovation, our vision is to become the first option partner for industries that use processing equipment.

# HISTORY

1977

**Foundation** of Mechanical Plant of the Chemical Complex Savinesti.

1991

**Registration** as joint stock company acc.to the government law and changing the name as COMES Savinesti (Mechanical Company of Special Equipment).

2004-2009

Receipt of the most important **Quality Management System Certifications** in the field.

2013-2015

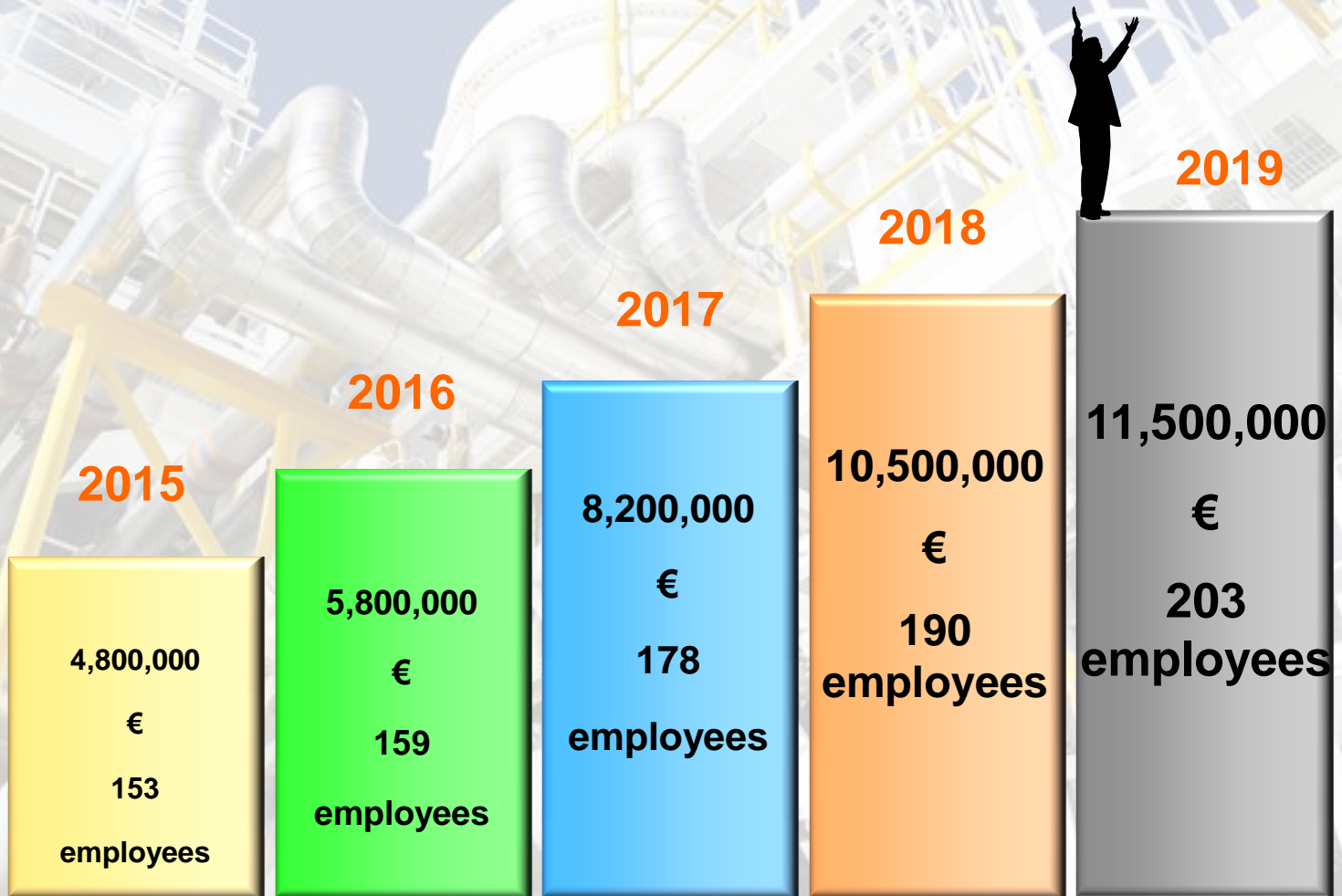
**Investment programs**, worth over 2.5 mil. EURO, on building the **second workshop**.

2017-2019

**New investment program** on building another **workshop** facility, same location, for fabrication of heavy equipments 60-160 tons, fully equipped.



# TURNOVER 2015 - 2019



# TARGET INDUSTRIES

**REFINERY**



**CHEMICAL &  
PETROCHEMICAL**



**GAS**



**POWER & NUCLEAR**



**CONSTRUCTION**



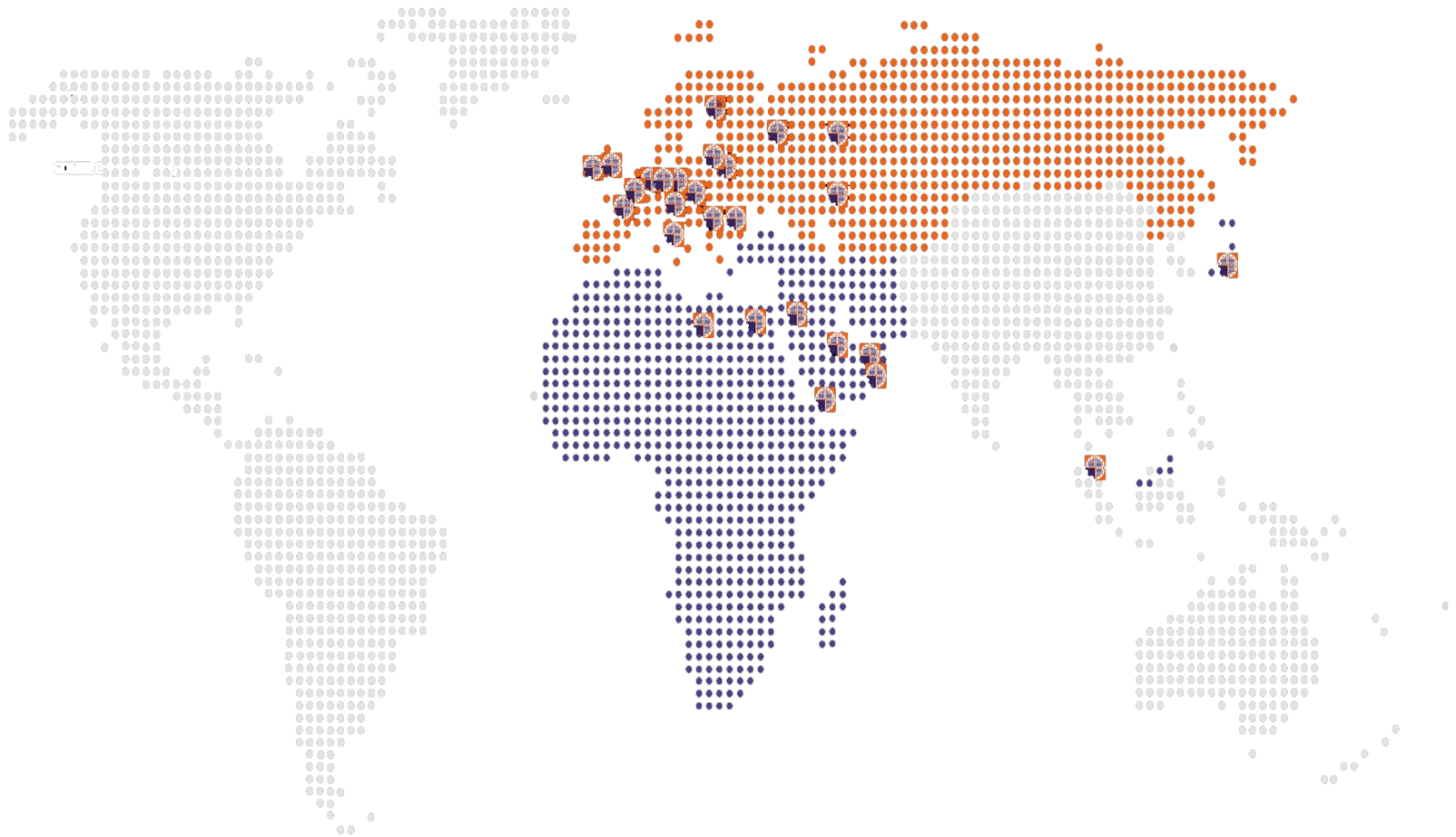
# INTERNATIONAL MARKET

*EUROPE*

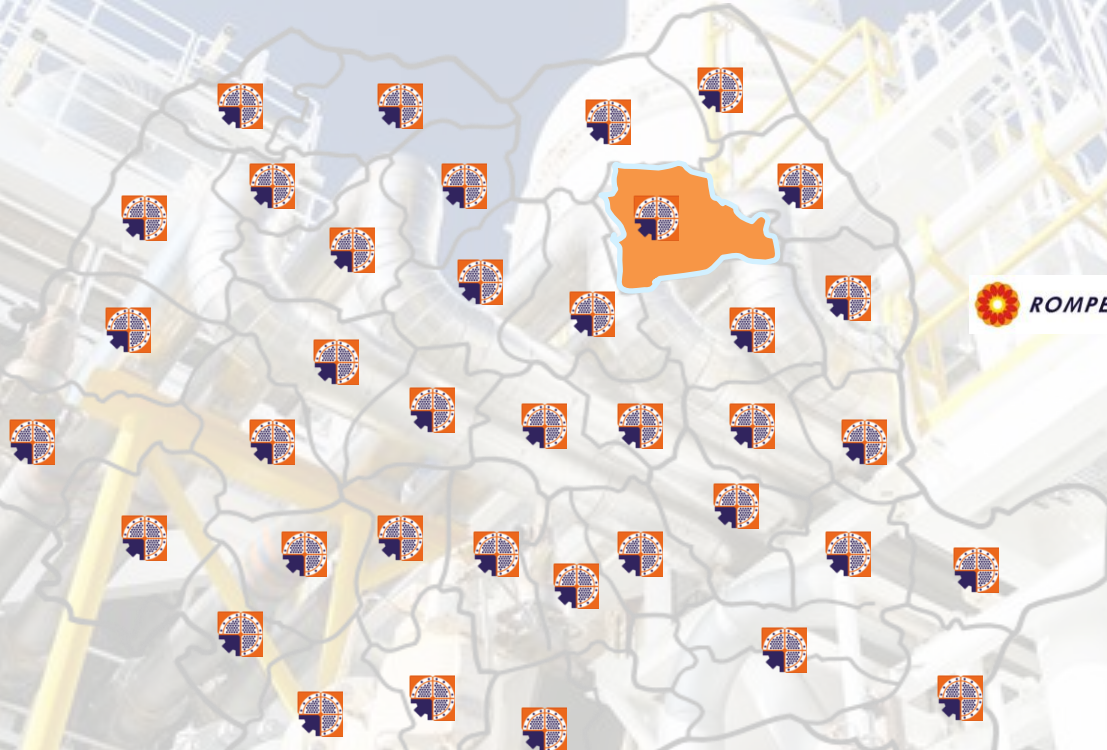
*CIS*

*AFRICA*

*MIDDLE EAST*



# NATIONAL MARKET





**PRODUCTS**  
**HEAT EXCHANGERS**







# HEAT EXCHANGERS

CLIENT	EQUIPMENT	DESCRIPTION	NO. PCS./ WEIGHT (kg)	CERTIFICATION
<b>ORLEN Lietuva (Lithuania)</b>	Reboiler TK-109	Shell, Head: A516 gr.70 Thk=25 mm Tube: SA 179 Forgings: SA350 LF2,CI.1	1/ 53.0000	CE Stamp
<b>Amec Foster Wheeler Italiana (Italy)</b>	Heat Exchangers Polyfuel Project	Shell, Head: SA 516 gr.60 Thk=32;25;24;15;14 mm Tube: SA 179 Forgings: SA 350 LF2	12/ 115.000	CE Stamp
<b>Chemical Plant GrodnoAzot (Belarus)</b>	Lower Part of Generator Rectifier	Shell : SA 516 gr.70+SS321 Thk=31+5 mm	1/ 55.000	TR CU 032/2013
<b>Turboden Srl Italy</b>	Evaporator Preheater	Shell: SA 516 gr.60 Thk=14 mm Tube low fines : SA 179 Tube sheets: Sa 350 LF 2	6/ 60.000	CE Stamp



**PRODUCTS**  
**TUBE BUNDLES**







# TUBE BUNDLES

CLIENT	EQUIPMENT	DESCRIPTION	NO. PCS./ WEIGHT (kg)
<b>LUKOIL Neftohim Burgas AD</b>	Tube Bundles	Tube: UNS S32205 and X6CrNiTi 18-10 Forgings: UNS S32205 and X6CrNiTi 18-10 Thk=25 mm	18/ 143.200
<b>Nigerian National Petroleum Company</b>	Tube Bundle E-203	Tube : SA 213 TP 316 L Tube sheets : SA 266 gr 2+316L Thk=80 mm	1/ 8.000
<b>WEST DELTA Co. Egypt</b>	Tube bundle LPH	U Tube: A179 Tube Sheet: A516 gr.60 Thk.40 mm	1/ 4.850
<b>ORLEN Lietuva Lithuania</b>	Tube bundle TK-206 A, V	Tube: P235 GH – TC1 Tube Sheet: P355 GH Thk=60 mm	9.700



**PRODUCTS**  
**PRESSURE VESSELS**







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COMES

# PRESSURE VESSELS

CLIENT	EQUIPMENT	DESCRIPTION	NO. PCS./ WEIGHT (kg)	CERTIFICATION
<b>Le Gas Integral France</b>	Incinerator & its Boiler	Shell, Head: SA 516 gr.70 Thk=26 mm Forgings: A105	2/ 31.000	CE stamp
<b>John Zink Hamworthy Combustion</b>	Flare System (KO Drum, Riser, Molecular Seal)	SA 516 gr.70 Thk=20;25 mm	8/ 67.100	NA
<b>Nigerian National Petroleum Company</b>	Drums 15-D-03, 10-D-54, 10-D-55	Shell, Heads: SA 516 gr. 70 Thk=10;22;25; mm Forgings: SA105 Pipes: SA 106 gr. B	3/ 8.170	U stamp



# PRODUCTS COLUMNS









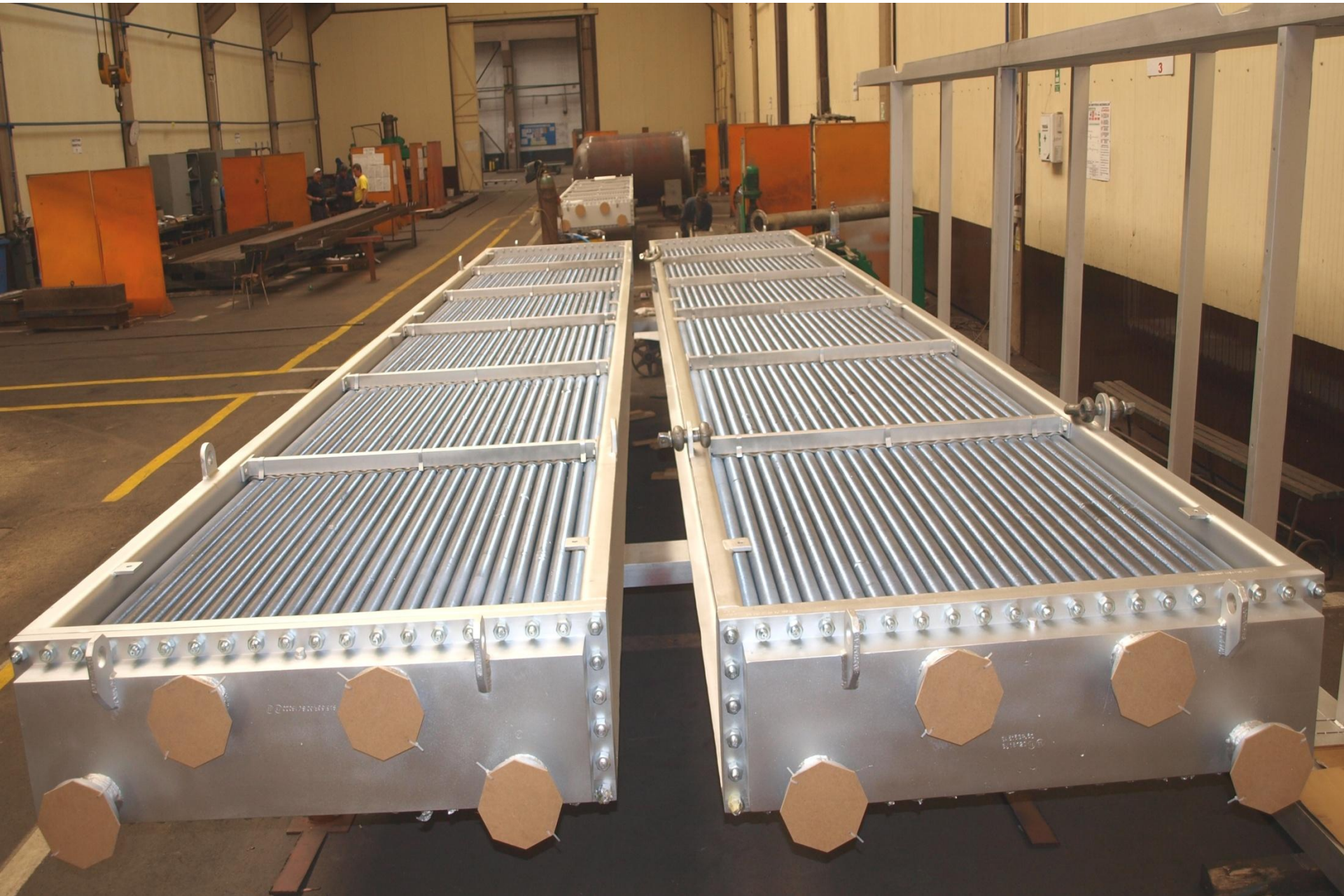
# COLUMNS

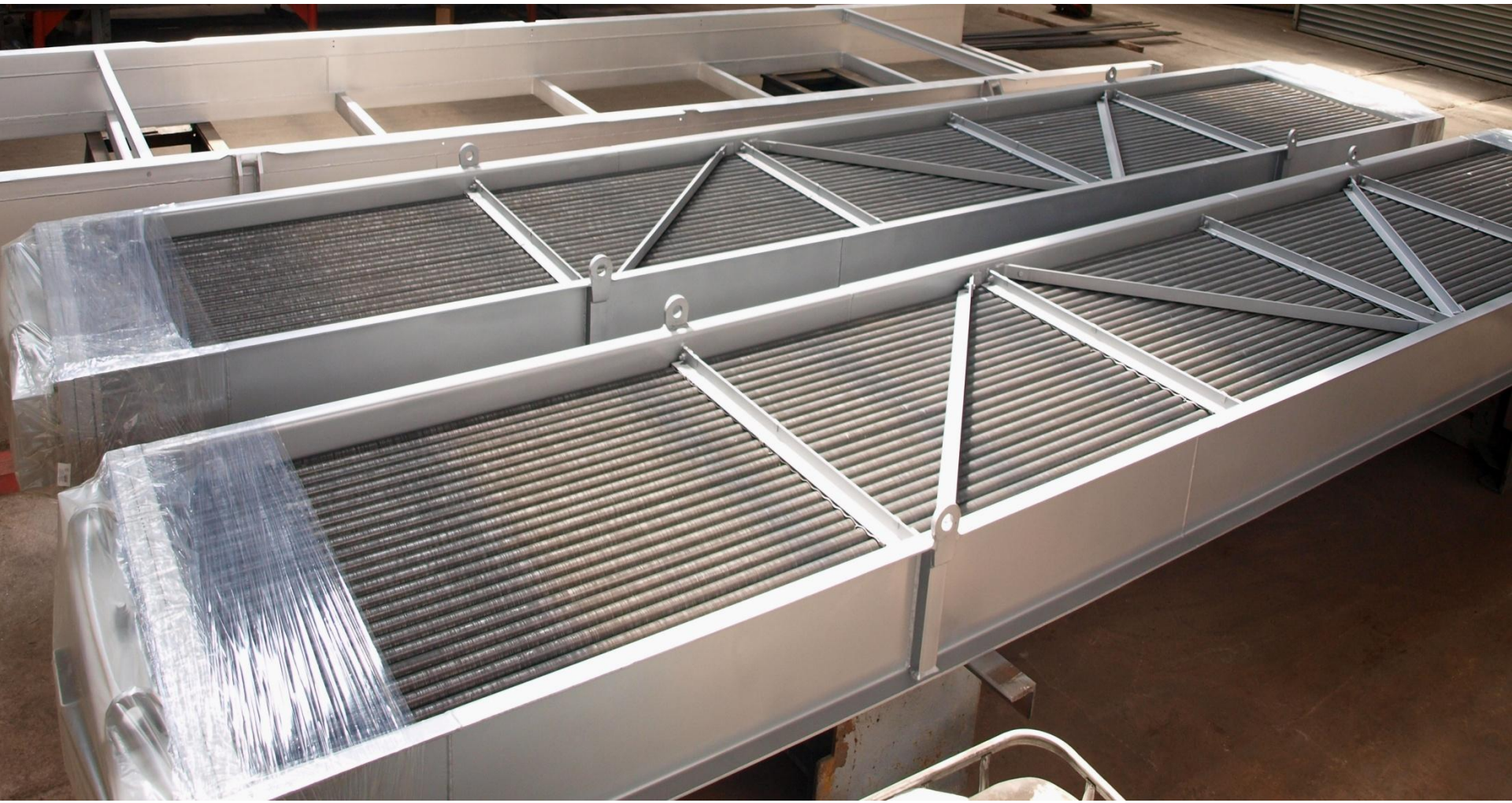
CLIENT	EQUIPMENT	DESCRIPTION	NO. PCS./ WEIGHT (kg)	CERTIFICATION
<b>Le Gas Integral France (Tessenderlo Kerley Belgium )</b>	ABS Tower T401/T402	Shell, Head: SA240 Tp304 Thk=20 mm Forgings:SA182 F304 Internals: 316 L	1/ 12.000	CE stamp
<b>KazMunaiGaz Group</b>	Column MEA 185C2	Shell, Head: Cladded SA516 gr.60+ SA240 TP 321; Thk.= 9 + 3 mm.	1/ 28.000	CE stamp
<b>OMV Petrobrazil Refinery</b>	Column Wash MEV5A	Shell, Head: SA516 gr.60 Thk.= 22 mm.	1/ 11.700	CE stamp



**PRODUCTS**  
**TUBULAR SECTIONS**







# TUBULAR SECTIONS

CLIENT	EQUIPMENT	DESCRIPTION	NO. PCS./ WEIGHT (kg)	CERTIFICATION
<b>Takreer Refinery EAU</b>	Tube bundles for Air Cooler	Tube with fins :SA 334 gr.6 + Al Plate:SA 516 gr.60 Thk=25 mm Frame ; SA 36 galvanized	2/ 25.100	U stamp
<b>KazMunaiGas Petromidia Refinery</b>	Air Coolers	Tube : Monel 400 + Al99,5 Tube sheets : Clad Plates Thk=90 mm A516 gr.60 + Monel 400	3/ 12.400	NA
<b>Realtec Groupe (Total France-Raffinerie La Provence)</b>	Revamp Refinery 2014 Aero- Bundle E302	Tube Sheet: SA516 gr. 60, Thk=80 mm Fins Tube: A213T5+ Al99,9 Forgings: SA105	1/ 16.944	CE stamp



**PRODUCTS  
FILTERS & SEPARATORS**





# FILTERS & SEPARATORS

CLIENT	EQUIPMENT	DESCRIPTION	NO. PCS./ WEIGHT (kg)	CERTIFICATION
<b>FAUDI GmbH (Germany)</b>	SKID Filter Vessel ø1800	Shell, Head: A516 gr.60; Thk=45 mm Forgings: SA 266 gr.2/ SA 105 Internals: Super duplex 32750	3/ 42.000	U Stamp
	SKID Filter Vessel ø 600	Shell, Head: A516 gr.60; Thk=30 mm Forgings: SA 266 gr.2/SA 105 Internals: Super duplex 32750	2/ 13.500	
<b>SpX Flow Technology Dollinger Ireland</b>	Gas Pipeline Filter	Shell: A106 gr. B Thk.=10 mm Forgings: A105 Head: A234 WPB	40/ 48.500	CE Stamp
<b>Bilfinger EMS Germany</b>	Absorber & Multicyclone Filter with QOC *	Shell, Head: CS P355 NL1 Thk=38 mm Forgings: P285 QH	2/ 25.000	CE stamp



**PRODUCTS**  
**PUMP BODIES**





# PUMP BODIES

CLIENT	END USER	DESCRIPTION	Equipment	NO. PCS./ WEIGHT (kg)
Termomeccanica Italy	<b>Egyptian Electricity Holding Company (Egypt)</b>	Superduplex SA32760, Thk=15;18;20;25 mm	Body Pumps	69/ 102.110
	<b>Saudi Electricity Company – Saudi Arabia</b>	Superduplex SA32760 Thk=15;20;25	Body Pumps	18/ 10.100
	<b>Petrofac / BP Exploration Oman</b>	Duplex 31803/32205 Thk=12;14 mm	Suction Tank Pumps Parts	4 / 4.800



# PRODUCTS COILS







# COILS

CLIENT	EQUIPMENT	DESCRIPTION	NO. PCS./ WEIGHT (kg)	CERTIFICATION
<b>JSC Mozyr Oil Refinery Belarus</b>	Radiant & Convection section P-102N	Collector: ASTM A335 P5 Thk=11 mm Tubes: ASTM A335 P5 Fin Tubes: ASTM A335 P5+P5	2/ 46.000	TR CU 010/2011 TR CU 032/2013
	Convection chamber & Product coil furnace P-302	Collector: X6CrNiTi18-10 Thk=14 mm Tubes: X6CrNiTi18-10 Fin Tubes: X6CrNiTi18-10	2/ 29.000	TR CU 010/2011 TR CU 032/2013
	Convection & Radiant section furnace F-203 / III	Collector: 10CrMo9-10 Thk=22 mm Tubes: 10CrMo9-10	2/ 40.000	TR CU 010/2011 TR CU 032/2013

# TECHNICAL DATA

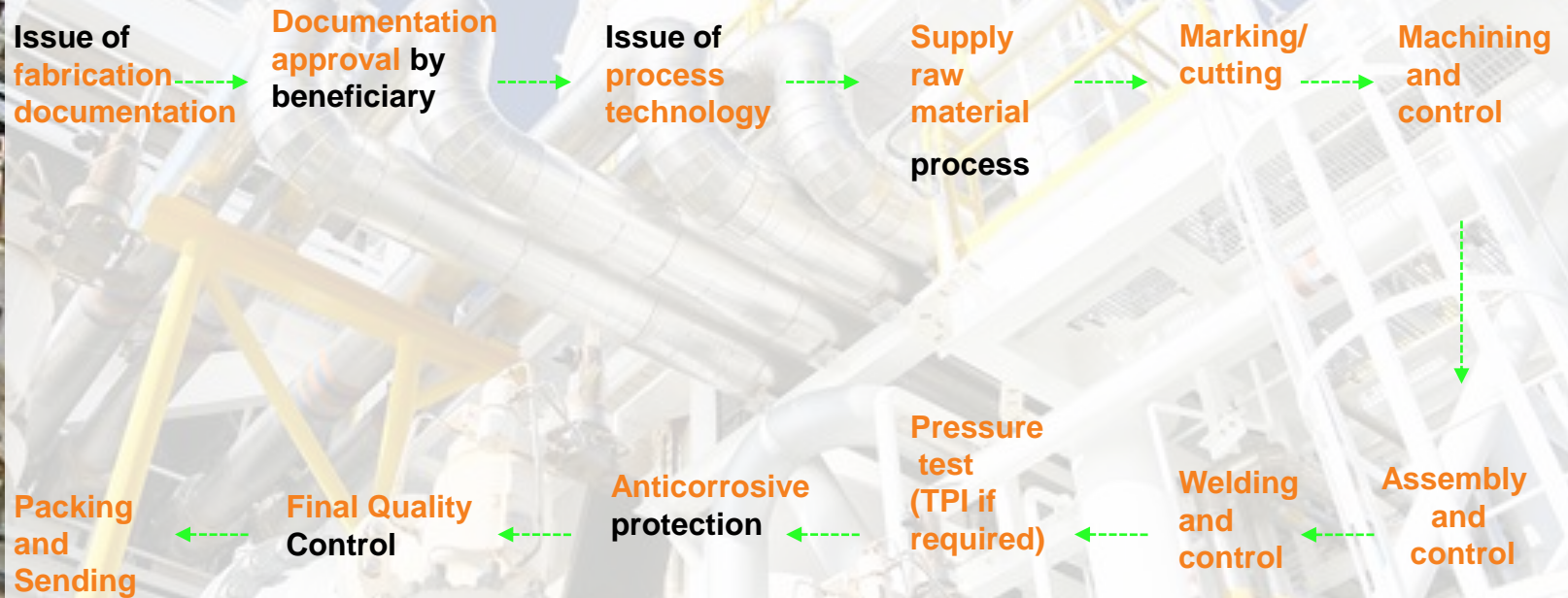
## DIMENSIONS

- diameter: max. **Ø5.5 m.**
- length: **37 m.** / section
- shell thickness:  
max. **63 mm.**
- weight: max. **80 tons**
- pressure: **450 bars**

## MATERIALS

- **Carbon Steel**
- **Carbon Steel Alloy**
- **Stainless Steel**
- **Clad Steel**
- **Duplex**
- **Super Duplex**
- **Cu-Ni Alloy**

# MANUFACTURING FLOW



# CAPABILITY

## Software Tools

- PV ELITE, AUTOCAD, ZWCAD;
- Solid Works Simulation Professional; Solid Works Standard;
- SANT'AMBROGIO DESIGN SOFTWARE – EN13445, AD200, ASME code;
- AXIS VN12 – Structural calculus;
- CC-STEADY STATE, CC-THERM, CC-DYNAMICS - Chemical Process Simulation;

## Cutting

- Lineatech Red 40 Soitaab machine, 1 head Plasma Bevel and 1 head Oxi;  
(SS up to 120 mm, CS up to 300 mm; L= 12.2 m l= 2.5 m);
- Oxy-gas cutting thickness up to: 120 mm;
- Plasma cutting thickness up to: 55 mm.

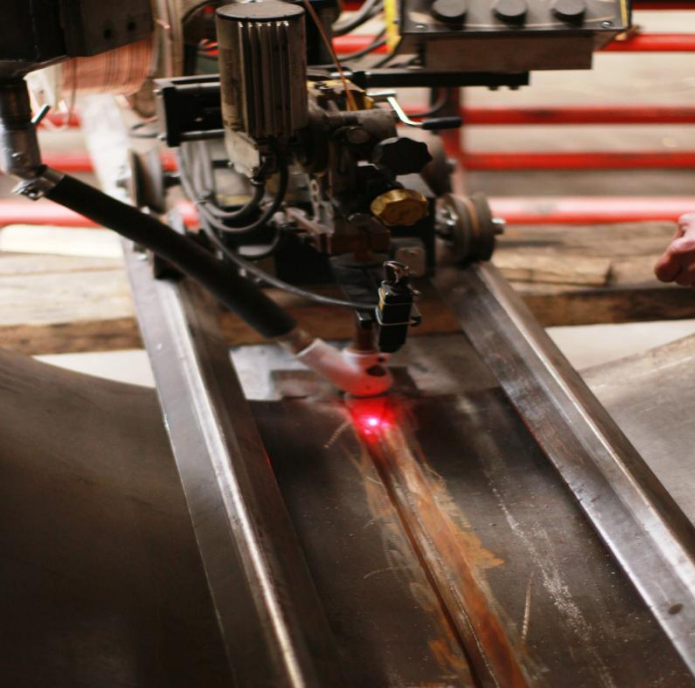
# CAPABILITY

## Bending

- SERTOM MODEL RIMI 4RV BULL 30-50 (max. 62 x 3000 mm. for min. diam. 1160 mm);
- Bending machine XZMP 3150/16 (diam.=5000 mm; L= 3000 mm; thk.= 32 mm);
- Abkant LOD 200 (max. thk.= 20 mm; max. L= 4000 mm);

## Welding

- MMA (SMAW);
- TIG (GTAW);
- GTAW automatic orbital welding;
- SAF (SAW);
- MIG-MAG (FCAW)



# CAPABILITY

## Tube Expending

- Electric mandrel KRAIS-  
TES 700M-STD FEIN-6  
(diam. min/max=  
12/51mm);
- Pneumatic mandrel KR-  
K72-RT-90 (diam.  
min/max= 40/101mm);

## Testing & Control

- X-ray, RT, UT, PT, MT  
etc;
- stretching, bending,  
hardness, resilience  
testing;

# CAPABILITY

## Heat Treatment post weld

- bunker with 6 diesel burners  
(12000 x 5000 x 3750 mm);
- INDUCAL Installation  
(max. diam.- 2200 mm)

## Anticorrosive Protection

- Free blasting with metal grains, grid or electro corundum;
- Painting using AIRLESS equipment;
- Pickling & Passivation.

# INVESTMENTS 2015 -2016

**new workshop** for items made of stainless steel/ duplex/ super duplex on an area of 1.400 sqm. **up to 50 tons**, with 2 lifting and moving devices (40 tons)

advanced technological equipment, as NDE, RX **control devices**

**2015-2017**

new spaces for corrosion protection, one of **painting** and other for **sandblasting** (100 sqm)

the old workshop (2.600 sqm) has also been renovated, to be used in manufacturing pressure vessels made of Carbon

# INVESTMENTS 2017 -2019

In  
between 2017- 2019 we plan  
to develop a **new project**  
for  
building **another workshop**  
**facility**, in the same location,  
for  
fabrication of **heavy**  
**equipments**, in between  
**60-160 tons**, fully  
equipped.



# Certified Quality

ISO 9001:2015  
ISO 14001:2005  
OHSAS 18001:2008

PED 2014/68/ EU

ASME code  
"U", "U2" & "R" stamp



AD 2000  
SR EN 1090-1: 2012

TR CU 010/2011  
&  
TR CU 032/2013



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