



Engineering
and
Manufacturing Solution



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01 – YESTERDAY and TODAY



Established in 1974, Micam started as a maintenance and repair company for Industrial Plants. In 1980, Micam expanded its engineering expertise towards the design and construction of equipment for Chemical, Petro Chemical and Pharmaceutical Plants.

Reactors, Column Heat Exchangers, Tanks on Skid Units were some of the products being manufactured by Micam.

Micam has always used the latest technology in its solutions to achieve the highest quality. Since 1990, computered aided design and state of the art tools such as cutting-edge tools and numerical control machines have been used in design and manufacturing.

Since 2000, Micam has specialized in more fields like Ammonia/Urea, Hydrogen Plants, Combustion Equipment and Ecological Plants. Equipment and tools in these fields demand stringent manufacturing tolerances and strict standards which MICAM is able to achieve.

Micam today is also specialized in the High Alloy Steel and Nickel Alloy Steel manufacturing, both for low and high pressure. Major Engineering and Contractors Companies, Process Licensors and End-users worldwide has used Micam because of its high standard of production, guarantee of quality ISO certification and the ability to offer the widest range of products in the market. Do you have a need for a specialized equipment or tools? Micam can evaluate your needs and provide the best solution along with a competitive price.

Customer satisfaction is a must, for us.

02 - LOCATION



Micam head-quarter and production center are located in Cologno Monzese in Milan, very close to Cologno Monzese Nord highway exit. The workshop has a total extension of 6000 square meters with a total covered area of 2000 square meters. The nearest embarkation ports are Genova and Porto Marghera, from 160 to 250 km far respectively from our main workshop in Cologno Monzese.

The other Micam production center is located in Massa, with a total extension of 4000 square meters with a total covered area of 1500 square meters. The nearest main embarkation ports are Carrara, Livorno and Genova, from 8 to 70 to 130 km far respectively from our production center in Massa.

03 - KEY PERSONNEL



The Company is 60 plus employees and has a Partners Workshop located nearby that can be used for customers with challenging time schedule.

To guarantee the quality of the most complex and sophisticated equipment, Micam relies on its own staff of engineers with specialized design skills.





04 - DESIGN and ENGINEERING



Micam's products are designed by highly qualified engineers with the most updated skills. With decades of experience and specialized in-house software, Micam can design and construct equipment based on the following standards:

MAJOR DESIGN CODES

ASME

EN 13445

CODAP

VSR

AD MERKBLATT 2000

MAJOR INTERNATIONAL STANDARDS

UNI

ISO

EN

BS

TEMA

API

NACE

GOST

CLIENTS STANDARDS

CLIENTS SPECIFICATIONS



05 - PRODUCTION RANGE



FULLY ASSEMBLED SKID UNITS including structures, equipment, piping, valves, instrumentation, cable trays, junction boxes, heat tracing, thermal insulation

LOW, MEDIUM and HIGH PRESSURE EQUIPMENT

like: Vessels, Columns, Reactors, Tanks

LOW, MEDIUM and HIGH PRESSURE HEAT EXCHANGERS

THERMAL REACTORS, WASTE HEAT BOILERS and STEAM DRUMS

THERMAL INCINERATORS – THERMAL OXIDIZERS

WATER BATH HEATERS (Indirect)

ELEVATED FLARE STACKS and BURNING PITS

FLARE TIPS

BURNERS (from Process Heaters type to special type Burners)

COIL and COIL EQUIPMENT

STEELWORKS

MIXERS and AGITATORS

ROTARY SCREENS and ACCESSORIES

UREA CARTRIDGES and PLATES, INTERNAL TRAYS
for UREA REACTORS, GRIDS

INTERNAL TRAYS for AMMONIA REACTORS

SPECIAL TOOLS

SPARE PARTS



06 – MATERIALS

CARBON and LOW TEMPERATURE CARBON STEEL

LOW ALLOY STEEL

AUSTENITIC STEEL

FERRITIC STEEL

AUSTENITIC / FERRITIC STEEL

NICKEL and NICKEL ALLOY STEEL

DUPLEX and SUPERDUPLEX

COPPER and COPPER ALLOY

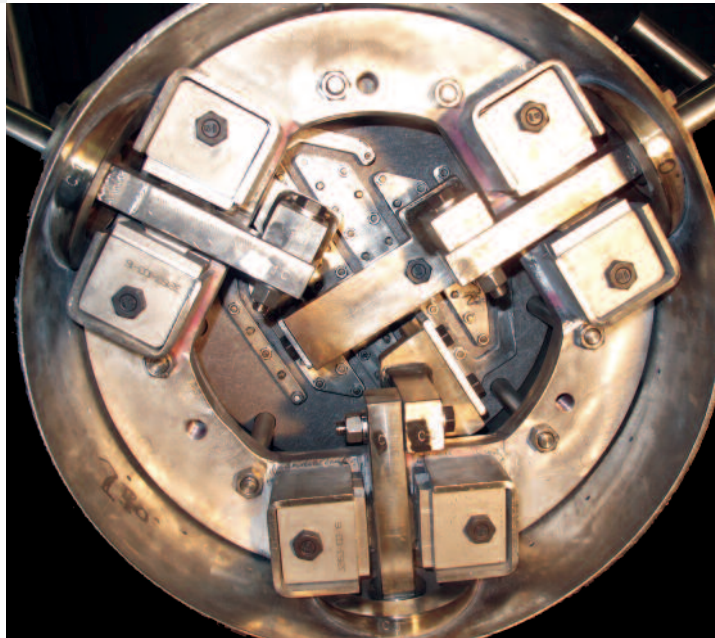
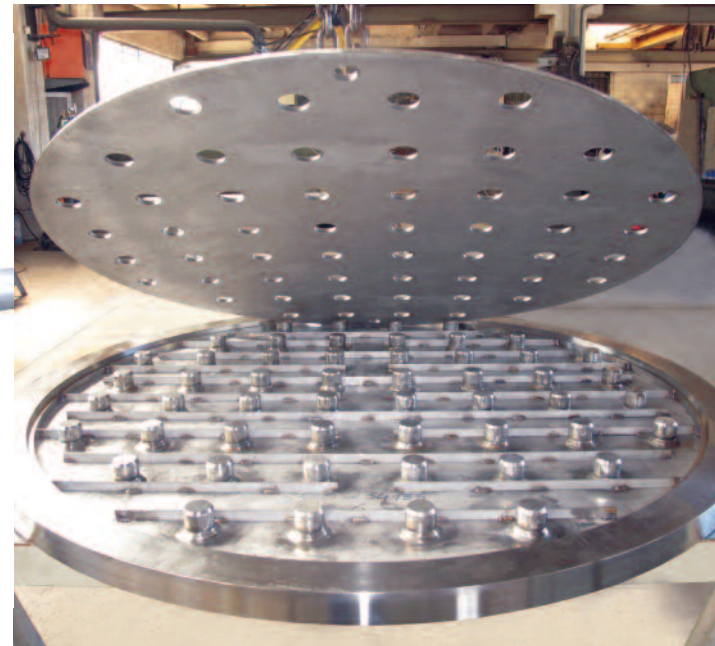
TITANIUM

UREA GRADE STEEL (25.22.2)

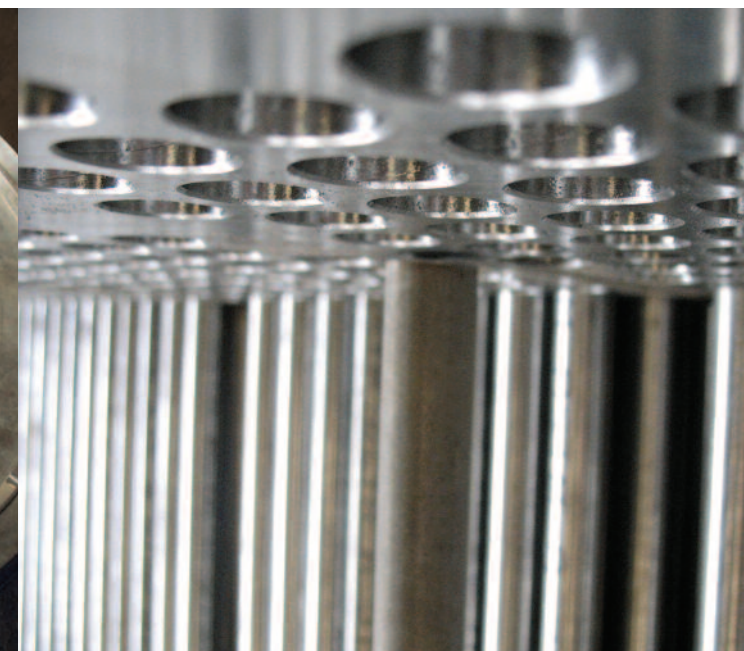
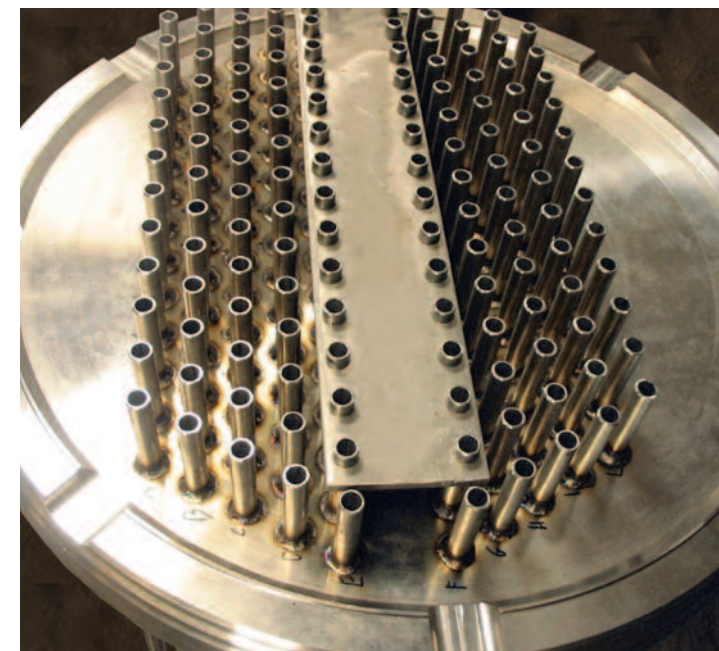
316 MOLN

ALUMINIUM

07 - MACHINING



Micam's Machining department is able to satisfy the typical production range including special components and tools production. Together with Micam Partners, special requests in terms of oversize and tolerances are achievable.



08 - MAXIMUM DIMENSIONS



MAX DIAMETER 6 m

MAX LENGTH 50 m

Equipment and Skid Units assembling exceeding the maximum dimension can be evaluated time by time and assembled at quay.

09 - QUALIFICATIONS and CERTIFICATIONS

ISO 9001

ISO 3834-2

ASME VIII DIV.1

ASME VIII DIV.2

WELDING PROCEDURE and WELDERS
are QUALIFIED ASME SECT. IX and EN

INTERNATIONAL INSTITUTE of WELDING:
IWT/IT – EWT/IT – EWI-T/IT

WELDING CERTIFICATION CIWI-C

NDT at the LEVEL 2 according to UNI EN 473 and ISO 9712
for MT, UT, RT, PT

NDT at the LEVEL 3 according to UNI EN 473 and ISO 9712
for MT, UT, RT, PT

09 - INSPECTIONS



Raw materials and fabrication are carefully inspected by qualified personnel certified EN.
Inspections are performed both internally and by specialized Partner Companies.

10 - ASSEMBLY and MAINTENANCE



The Micam team has what it takes to meet a client's needs in every phase of manufacture and installation. Guarantee maintenance services so that equipment can be maintained efficiently and down-time is kept to a minimum. Highly specialized and qualified technicians come up with personalized maintenance programs with the purpose of meeting performance goals and keeping costs down. Maintenance includes the job technical aspects as well as the economic and organizational ones.

11 - EXAMPLES

SKID and BURNER VALVES SKID

INCINERATORS, INDIRECT HEATERS, BURNERS

VESSELS, TANKS, HEAT EXCHANGERS

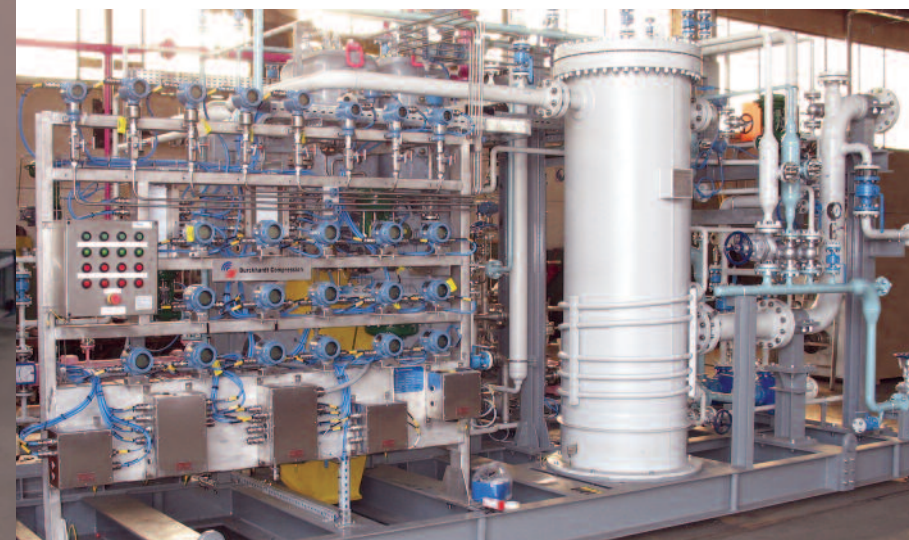
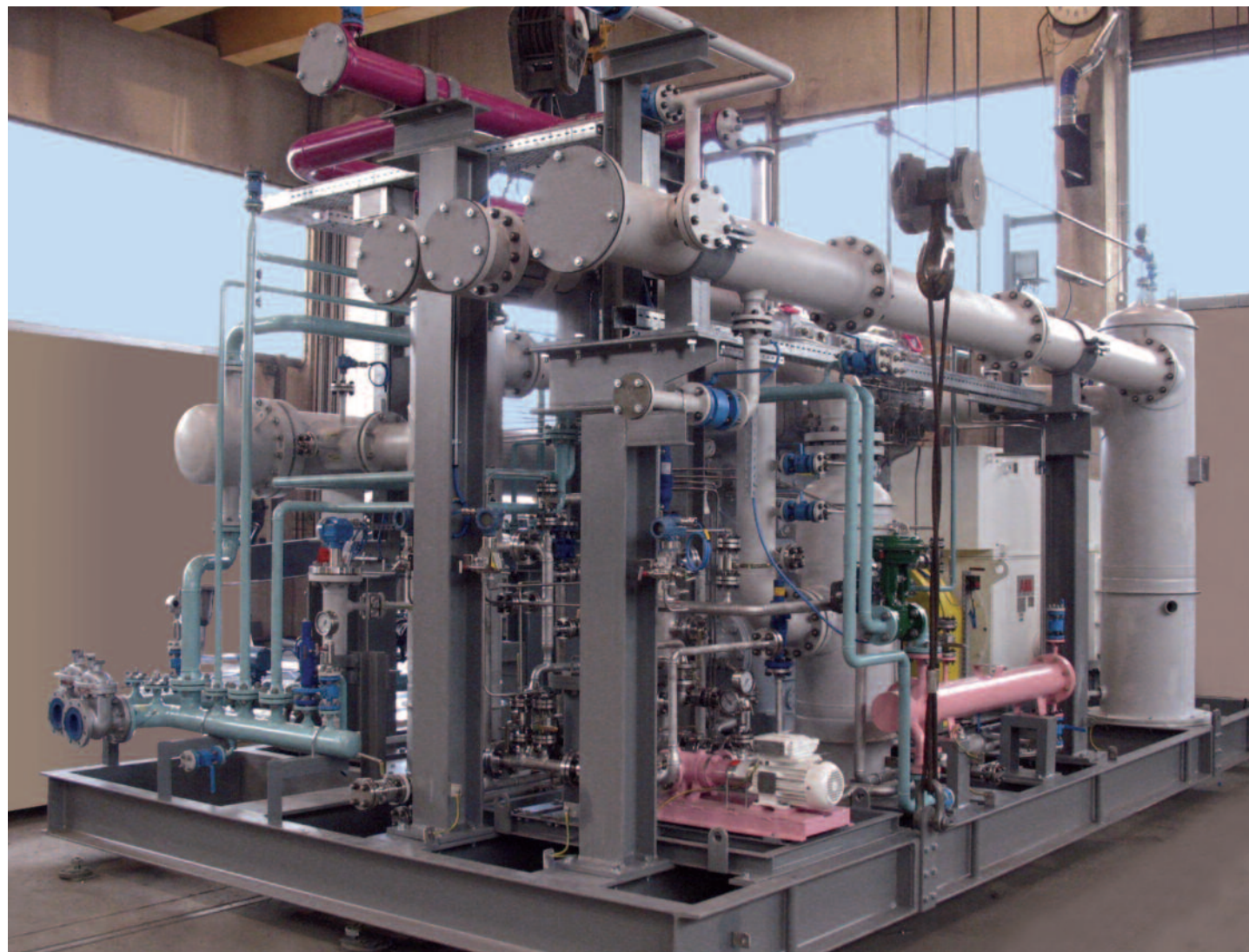
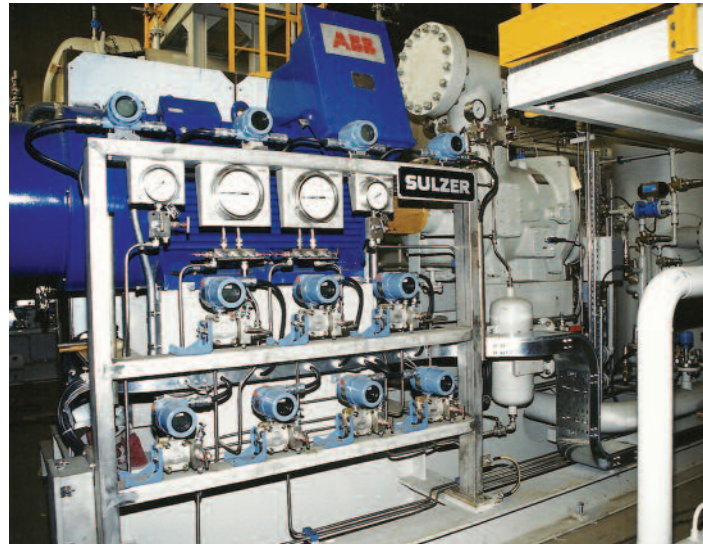
AMMONIA / UREA REACTORS INTERNAL

FLARES and TIPS

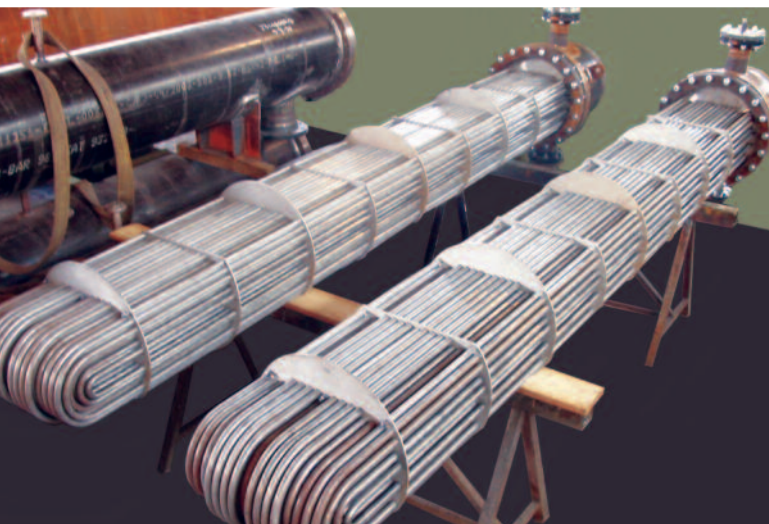
MIXERS and AGITATORS

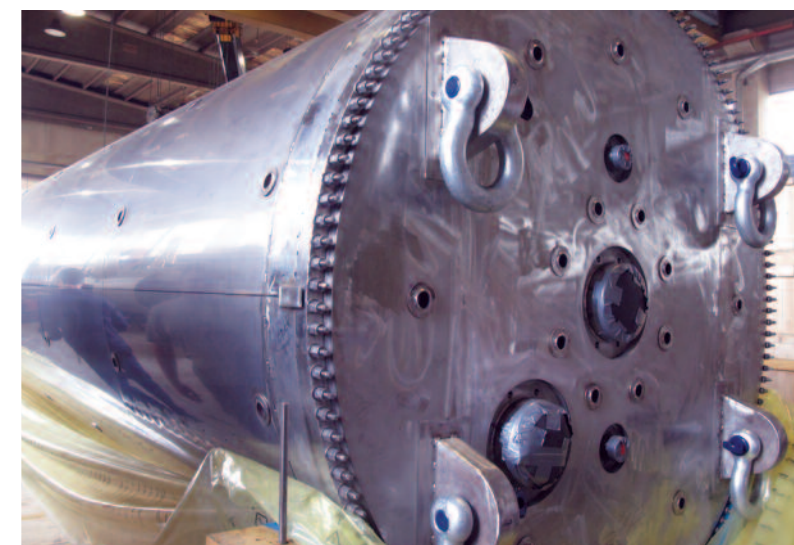
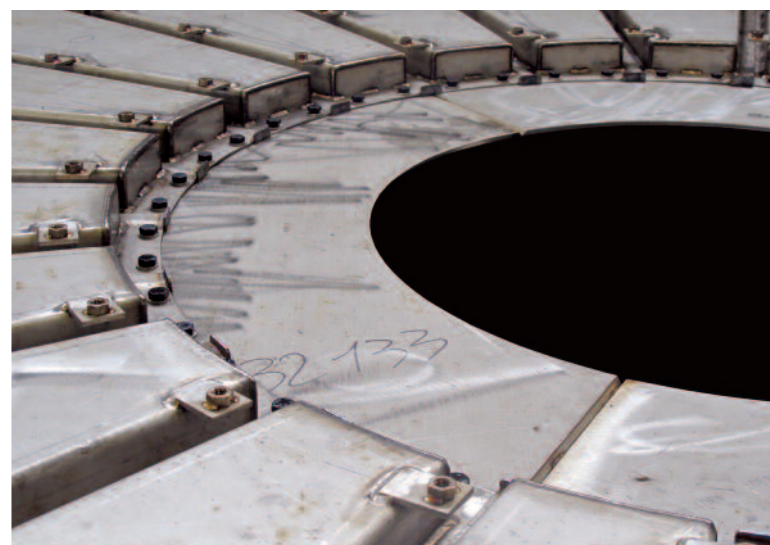
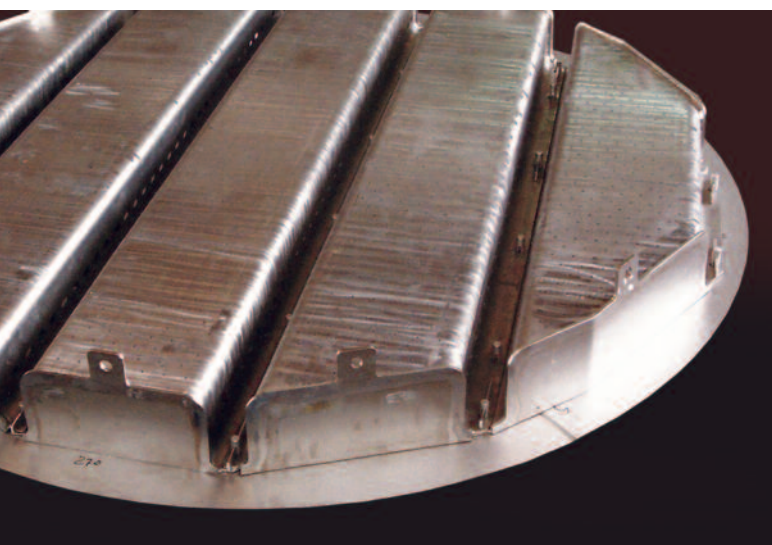
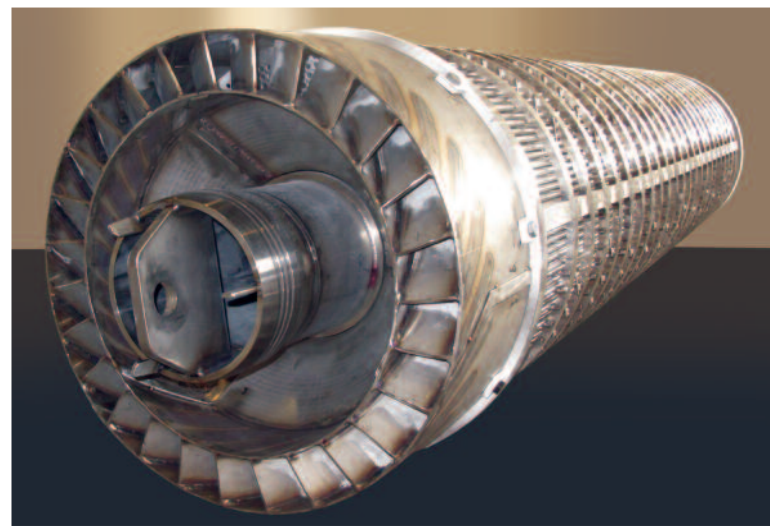
ROTARY SCREENS and ACCESSORIES

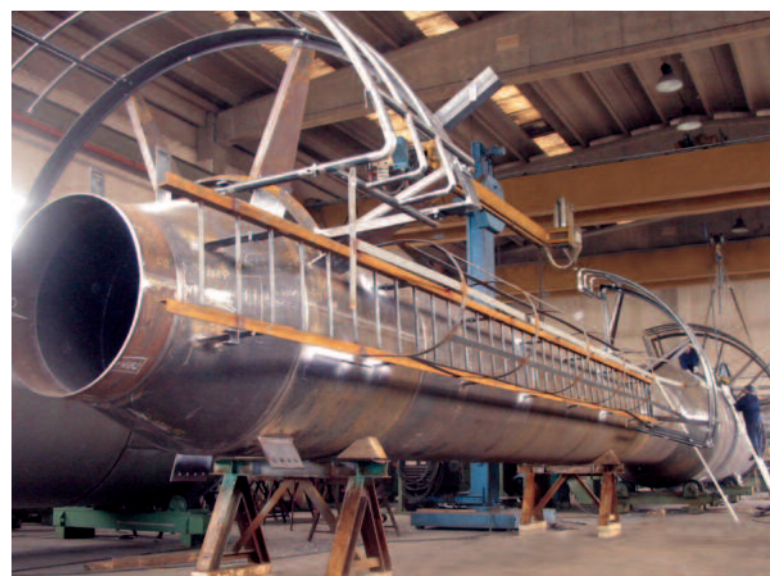
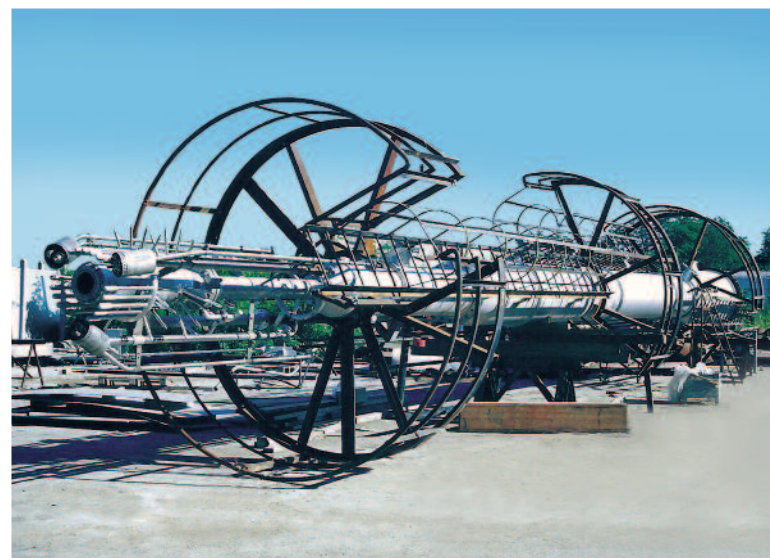
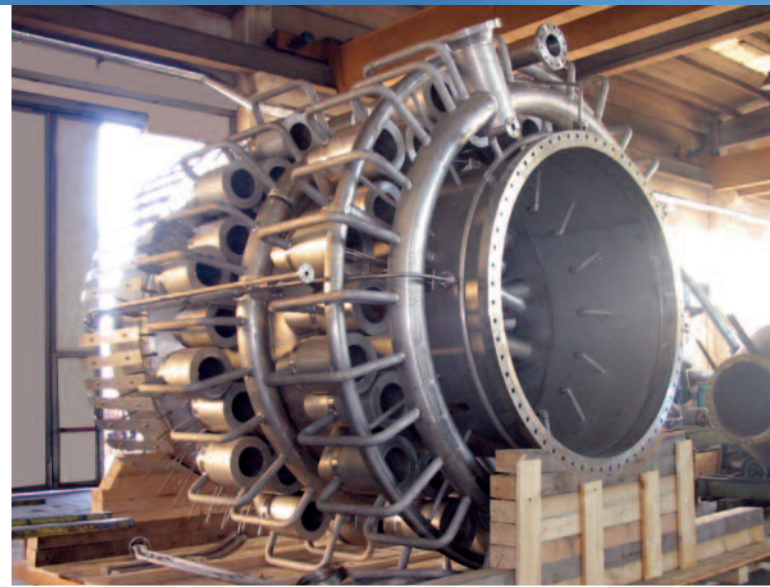
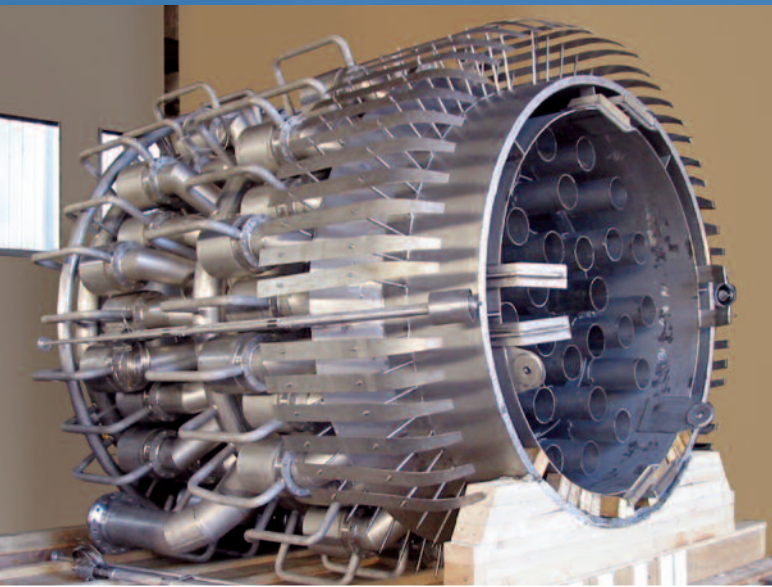
SPARE PARTS and PACKING





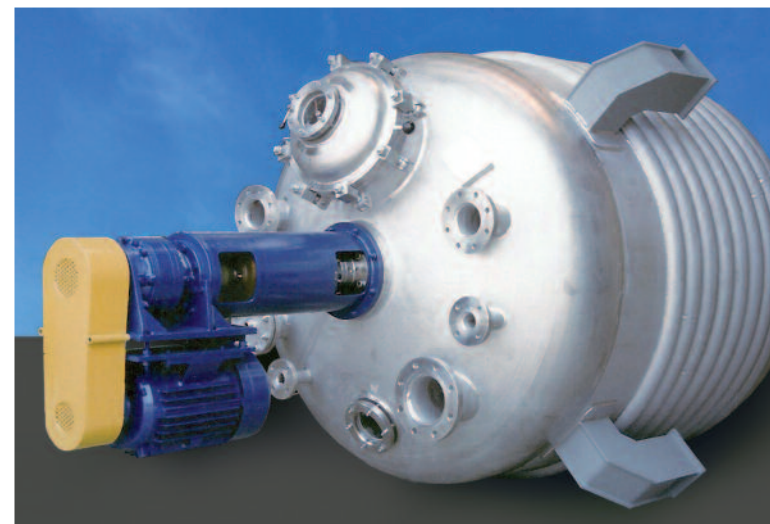






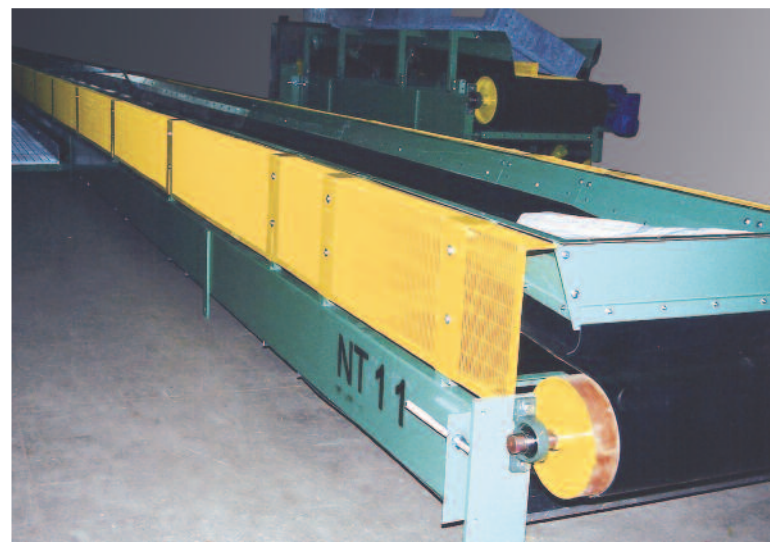
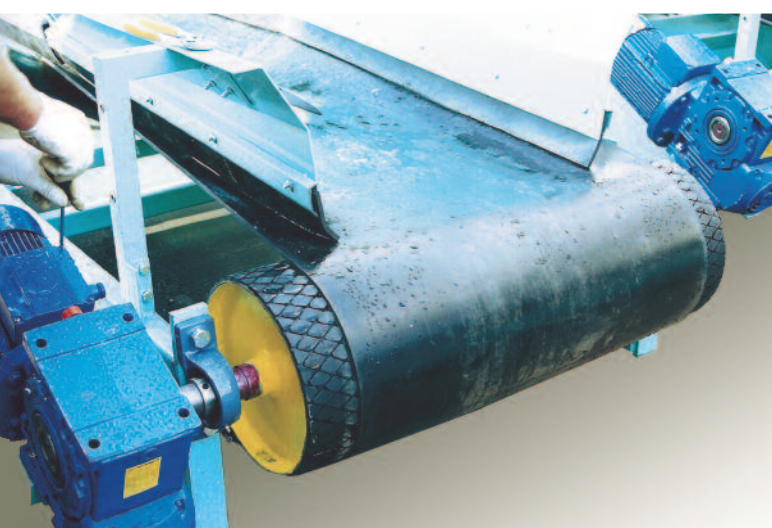
11 - EXAMPLES

MIXERS and AGITATORS



11 - EXAMPLES

ROTARY SCREENS and ACCESSORIES



11 - EXAMPLES

SPARE PARTS and PACKING





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and
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