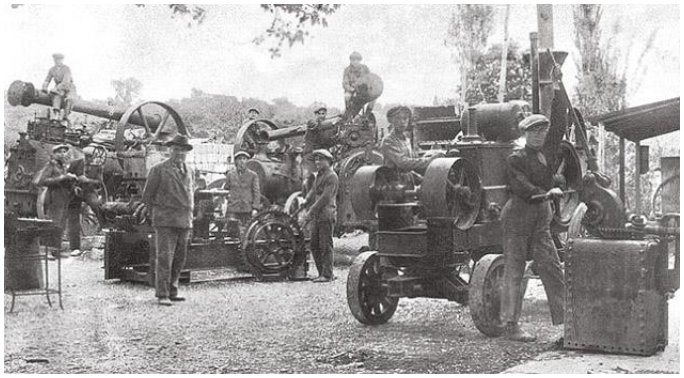
COMPANY & PRODUCTS INTRODUCTION

GRUPPO
PIERALISI
DEDICATED INNOVATORS

www.pieralisi.com

The passion for innovation has always been the driving force behind the Pieralisi Group



In 1888 Adeodato Pieralisi set up in the small town of Monsano his first workshop, the start of a family-run manufacturing business.

From the post-war period onwards, the Group's main plant in Jesi has specialised in olive oil machinery.

In the 1960s Pieralisi revolutionised traditional olive oil extraction systems with the first decanter for olive-oil continuous processing, conquering domestic and international markets.

Starting in the 1970s, Pieralisi Group established itself in all centrifuges application areas becoming the world's leader company in centrifugation.



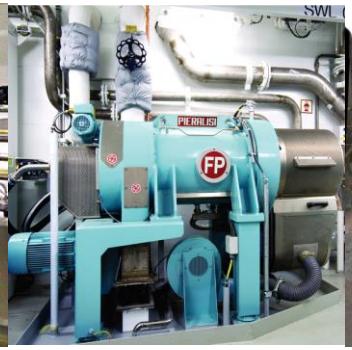
GRUPPO PIERALISI DEDICATED INNOVATORS

A GLOBAL PRESENCE



Today the Pieralisi Group is now an integrated business system oriented towards the global market, with a great capacity for innovation.






Thanks to its **widespread network of companies, commercial branches, agents, service centers and spare-parts stores**, Pieralisi is truly worldwide and close to its **over 26,000 customers** with its specific know-how for every specific market, country and sector of operation.

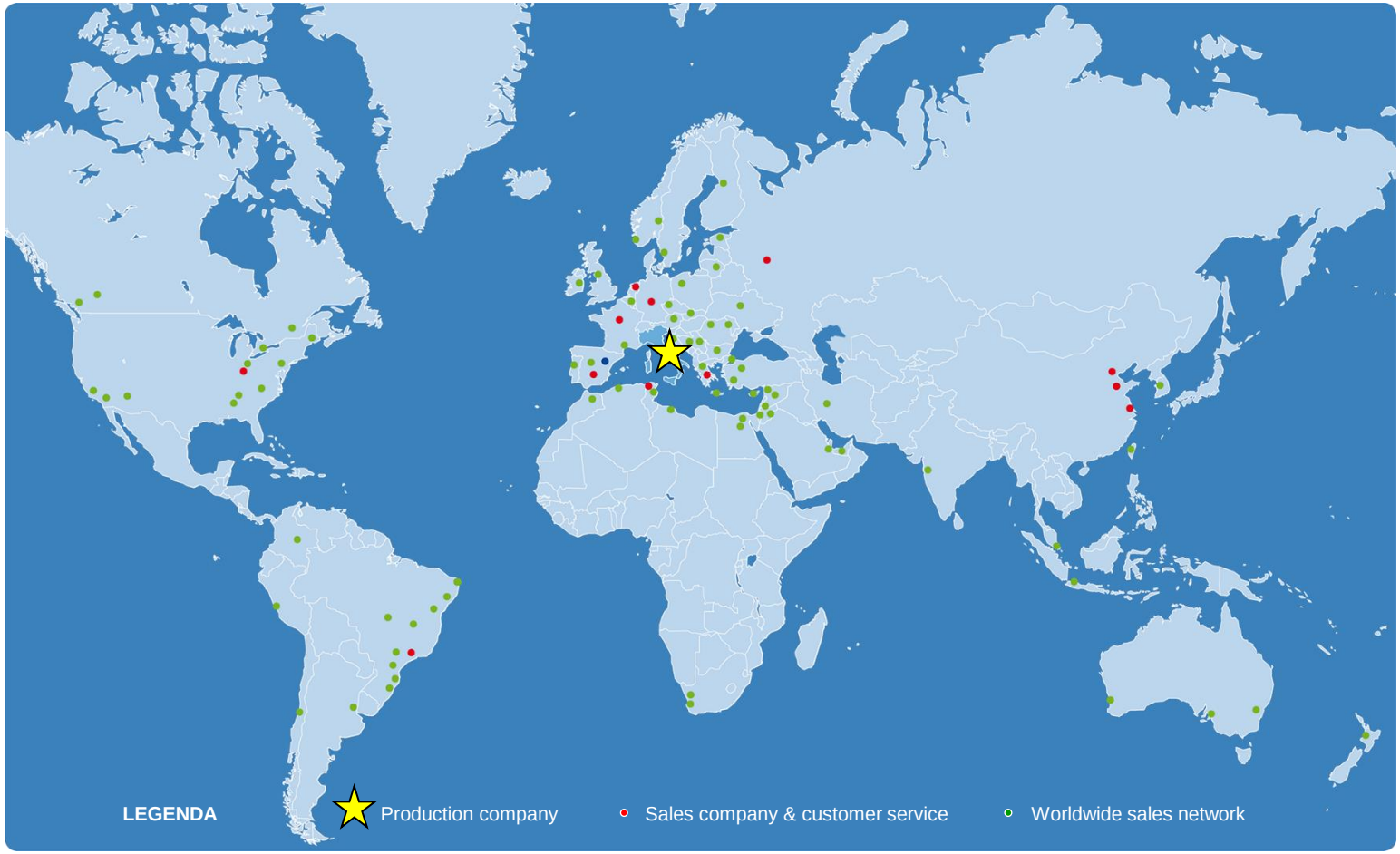
SOME FIGURES

MACHINES AND SYSTEMS INSTALLED	41,500
DIRECT CUSTOMERS	26,000
PRODUCTION/COMMERCIAL SITES	19
COVERED PRODUCTION SURFACE	95,000 sqm
WORLDWIDE STAFF	650
NO. OF BEFORE/AFTER-SALES STAFF	130
TURNOVER (MILL. EUROS)	140
PIERALISI FAMILY OWNERSHIP	100%



PIERALISI WORLDWIDE

Pieralisi Group includes 19 production and commercial sites strategically located in Italy, Spain, Greece, Germany, Netherlands, France, Tunisia, USA, Brazil, China.



A widespread network of companies, commercial branches, agents, service centers and spare-parts stores ensure prompt and efficient service.

GRUPPO PIERALISI DEDICATED INNOVATORS

PIERALISI AMERICA





PIERALISI NORTH AMERICA
CINCINNATI (OH) - USA

HYDRA SERVICE Inc (Pieralisi Representative)
WARRIOR (AL) - USA



PIERALISI DO BRASIL LTDA
LOUVEIRA - SP - BRAZIL

ORGANIZATION

Pieralisi's constant commitment to research and development of advanced technologies has meant that the Group is now the indisputable leader in providing avant-garde separation solutions through centrifugal force.

Great attention to the needs of a wide-ranging international customer base has led the Pieralisi Group to dedicate human resources and specific technology to the needs of each and every customer.

To this aim, the Group has adopted a business organization based on two large divisions: the ***Olive Oil Division*** and the ***Separation Solutions Division***.

DIVISION OLIVE OIL

DIVISION SEPARATION SOLUTIONS

The Pieralisi Group provides solutions to all technological problems of solid-liquid and solid-liquid-liquid separation, thanks to the great experience and know-how developed over time in the most important industrial centrifuge markets.

Pieralisi decanters and vertical centrifuges with a wide variety of capacities are suitable for a vast range of application areas, such as:

- ***Environmental Area***
- ***Chemical Area***
- ***Recycling Area***
- ***Oleo-Chemical Area***
- ***Mineral- Fuel and Lube Oils Area***
- ***Animal-Based Products Area***
- ***Food and Beverage Area***
- ***Milk and Dairy Area***

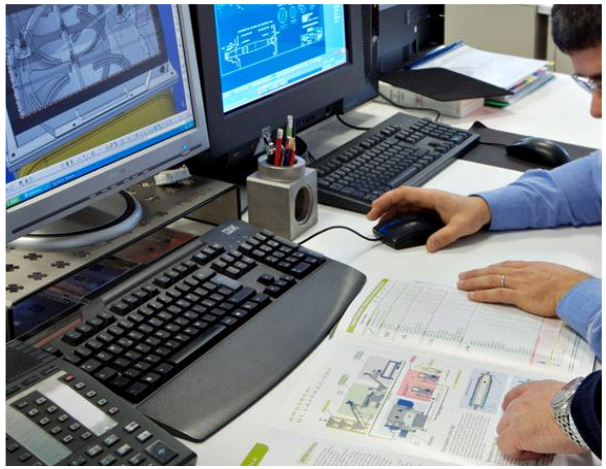






ALWAYS CLOSE TO OUR CUSTOMERS

Pieralisi offers its customers complete consulting services and accompanies them during all stages of their contact with the Group.



TECHNICAL AND SALES ASSISTANCE

Sales personnel assist customers in the choice of the most suitable machines and plants for their needs, provide full and helpful information about the products and technology employed, prepare personalised plant layouts.

CUSTOMER CARE

More than **130 specialized Pieralisi technicians** ensure that after-sales service is fast and efficient, from installation, through testing and inspection, to later scheduled maintenance, according to plant characteristics and customers' requirements.



SEPARATION BY CENTRIFUGATION

"General Principles and Products Portfolio"

GRUPPO PIERALISI
DEDICATED INNOVATORS

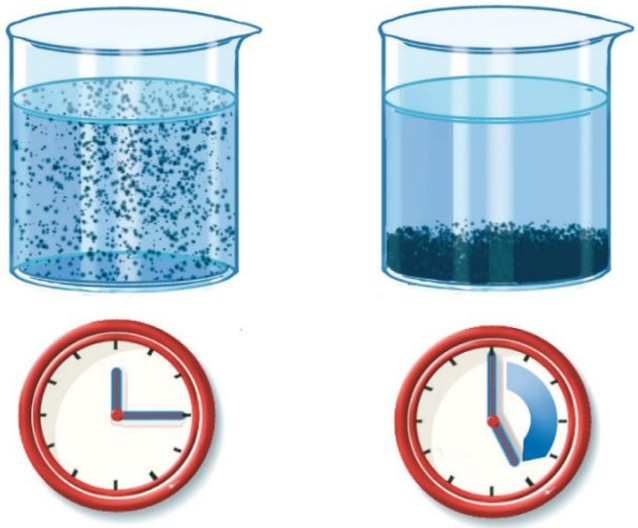
SEPARATION BY CENTRIFUGATION

- Sedimentation is a natural phenomenon connected to the gravity force.
- It is used in many industrial processes where it is necessary to separate substances that are mixed together.
- This process is regulated by a physic law known as “Stokes’ Low “

Time

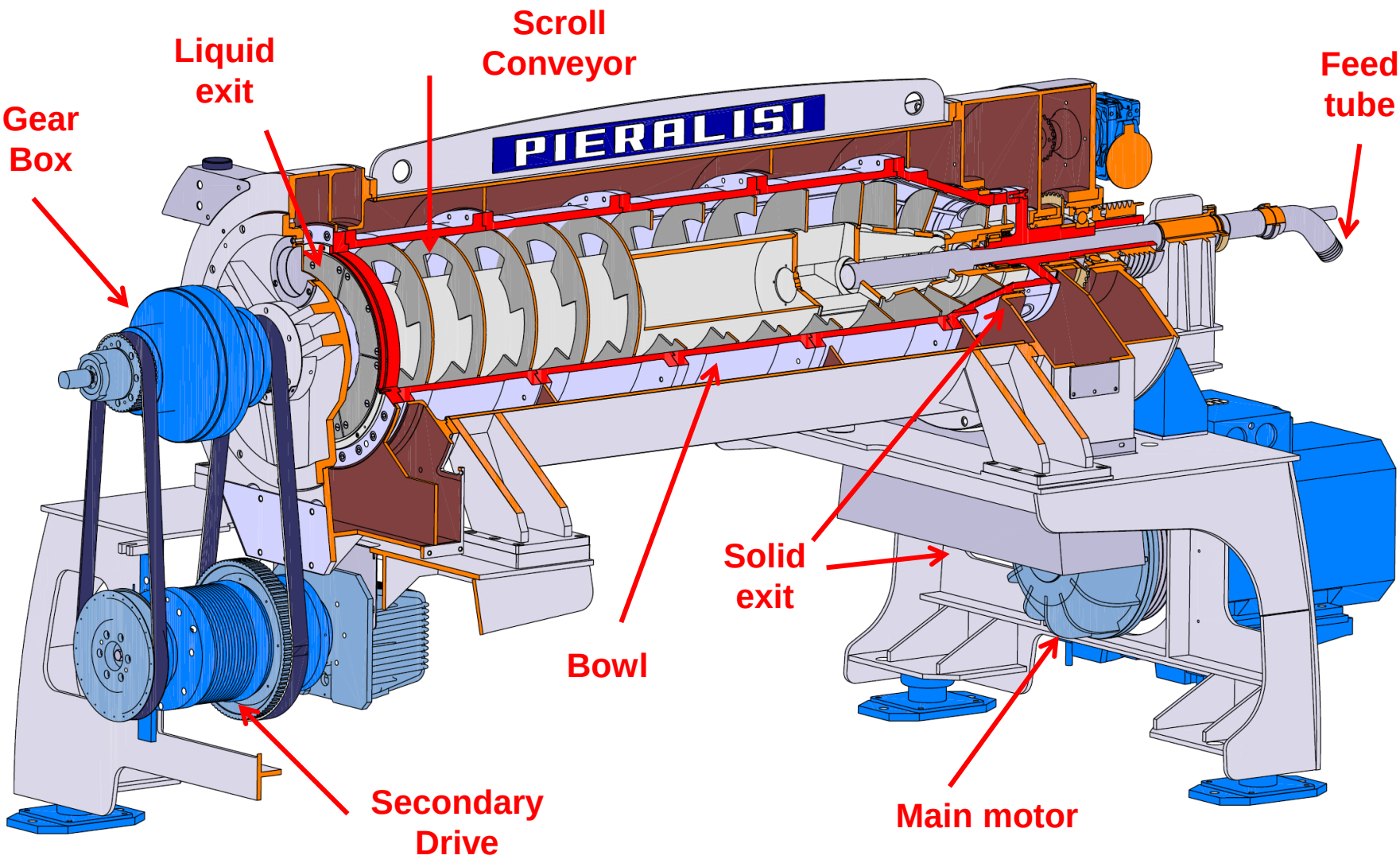
Density

Shape



- With a **suitable recipient** and the **time** needed to complete the sedimentation process, the two substances with different **densities** will be separated (stratified) within the recipient.
- The lightest phase goes to the surface, the heaviest to the bottom.
- Soluble solids cannot be separated by gravity.

PIERALISI HORIZONTAL DECANTER



Cross section of a PIERALISI decanter

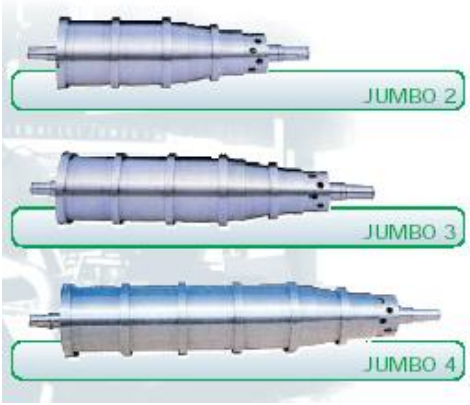
OUR UNIQUE DECANTER DESIGN



TUNNEL TYPE CASE

Safer operation: thick and robust case.

Simpler and faster maintenance:
scroll removal without removing the entire bowl and without the necessity of big crane.



MODULAR BOWL

Maintenances cost reduction:

even a single piece can be replaced in case of damage.



LEGS SUBFRAME

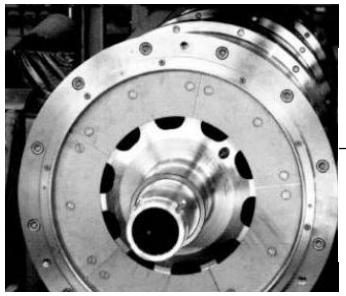
Better vibration absorption
Easier operation and maintenance
Cleaner area

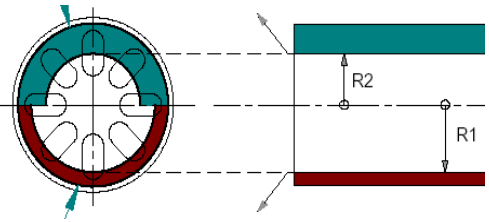
GRUPPO PIERALISI DEDICATED INNOVATORS

MECHANICAL PARAMETERS

- Drum length, L
- Drum diameter, D
- Cone angle, θ
- Drum/scroll differential velocity
- Pond length (liquid level)







PROCESS PARAMETERS

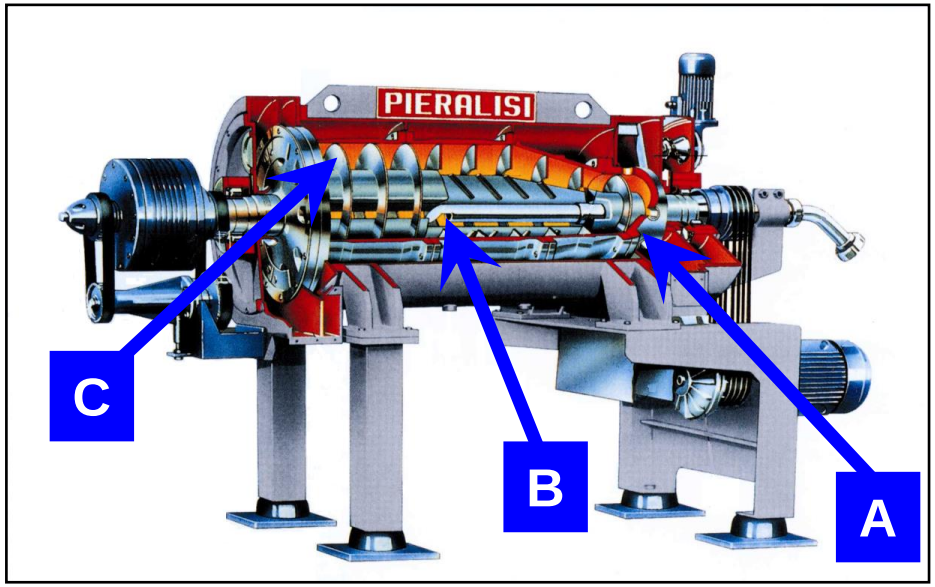
- Inlet feed supply, Q_s *[lt/h – gpm]*
- Inlet solids concentration, TSS *[DS%wt]*
- Retention time, t *[sec]*
- Polymer feed supply, Q_p *[kg/ton DS – lbs/ton DS]*

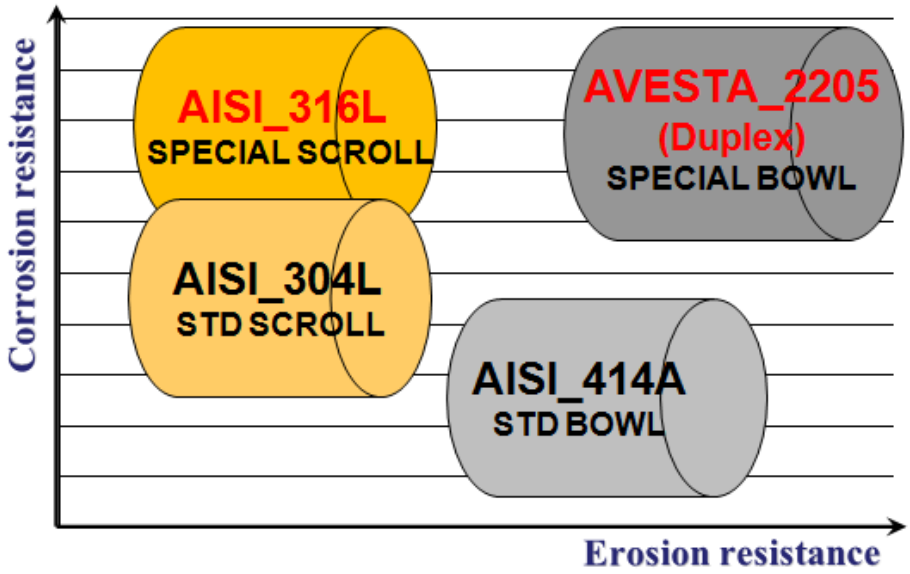












ANTI-WEAR PROTECTIONS

A- Solids Outlet: AISI 440 hardened (replaceable)

B- Feed zone: AISI 440 hardened tiles (replaceable)

C- Scroll flight: Flame sprayed tungsten carbide or STC tiles



HORIZONTAL DECANTER PORTFOLIO

…from

“BABY”

(0.5 m³/h – 2gpm)



to….



“GIANT”

(up to 115 m³/h - 500 gpm)

DECANTER MODEL	DRUM INTERNAL DIAMETER
BABY 1	237 mm (10 inch)
BABY 2	
BABY 3	
MAIOR 1	353 mm (14 inch)
MAIOR 2	
MAIOR 3	
MAIOR 4	
JUMBO 2	470 mm (19 inch)
JUMBO 3	
JUMBO 4	
MAMMOTH 2	570 mm (23 inch)
MAMMOTH 3	
GIANT 2	700 mm (28 inch)
GIANT 3	
GIANT II L	745 mm (30 inch)

HORIZONTAL DECANTER PORTFOLIO



BABY



MAIOR



JUMBO



GIANT



MAMMOTH

COMPLETE TREATMENT UNIT

CONVEYORS

CENTRIFUGE

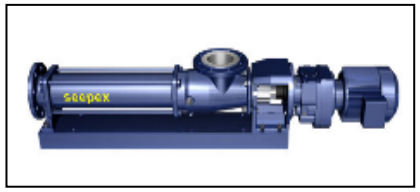
POLY UNIT















INSTRUMENTATIONS

CONTROL PANEL

PUMPS

OUR MISSION

Take care…this usually happens during a project!



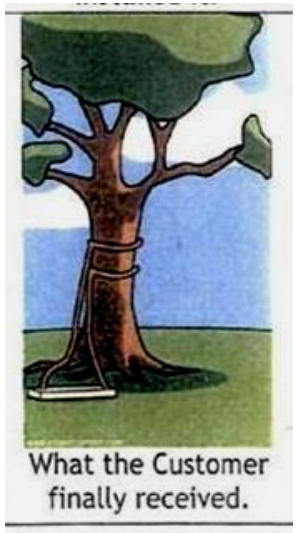




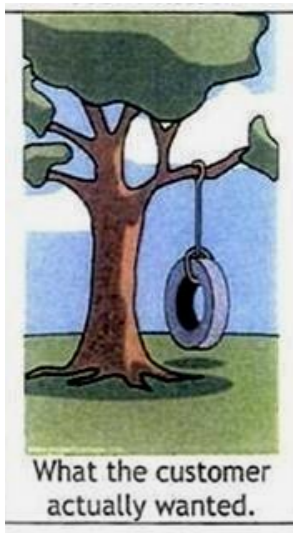












Our mission is to avoid that this happens !!!


WE SEPARATE
EVERYTHING
DIVISION
SEPARATION
SOLUTIONS