



TOURNAIRE

EQUIPMENT DIVISION



TOURNAIRE

Produces the best, protects the most

SINCE 1833





TOURNAIRE, THE EXPERT IN THE PROCESSING OF NATURAL RAW MATERIALS & TECHNICAL PACKAGING



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EQUIPMENT | PACKAGING

SINCE 1833



MORE THAN **180 YEARS** OF EXPERIENCE



Foundation by Joseph Tournaire, specializing in the manufacture of stills for perfume producers in Grasse.



Diversification into the pharmaceutical and agrochemical markets



Creation of two divisions:
Equipment and Packaging



Systematic approach to export markets in Europe, America and the Middle East.



Luc Tournaire is appointed Chairman of the Board.



First subcritical water extractor pilot (patented)

VISION & VALUES

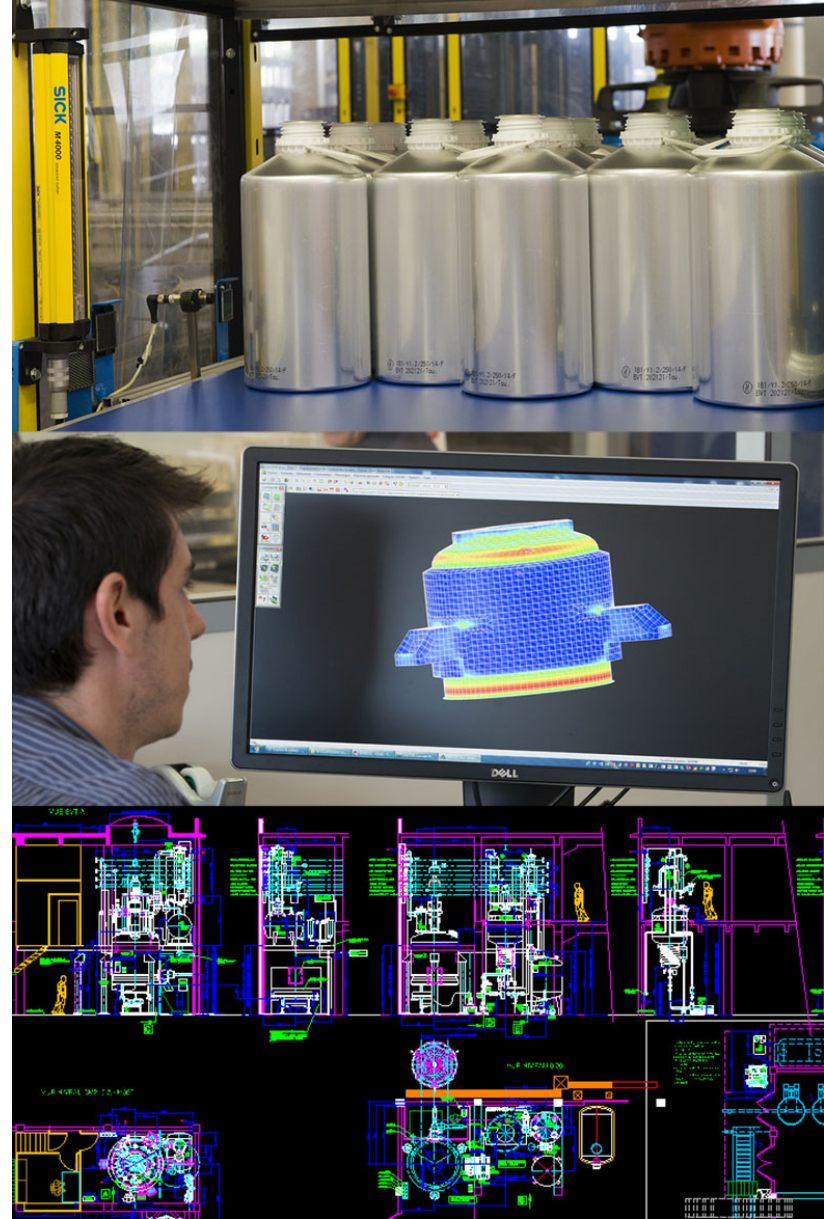
A pioneer, constantly looking for **innovative solutions**.

Expertise to provide **unique made-to-measure** global solutions

A systematic focus on **service**, to guarantee **quality**.

An organization run by **efficient** and **flexible** teams for the **coproduction of excellence**.

Far-reaching integration of environmental issues into a global **Quality-Safety-Environment** approach.



TWO DIVISIONS FOR OVER 300 CLIENTS



EQUIPMENT

Design of solutions for the processing and transformation of natural raw materials.



PACKAGING

Design and manufacture of high-tech industrial packaging.

TWO PRODUCTION SITES

32,000 m² of plant on **120,000** m² of land

GRASSE & CHALON-SUR-SAÔNE



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PIONEER & INNOVATOR

AN R&D DEPARTMENT WITH A STAFF OF 15 TO:

PUSH BACK

unceasingly the technical limits of processes and materials.

DESIGN

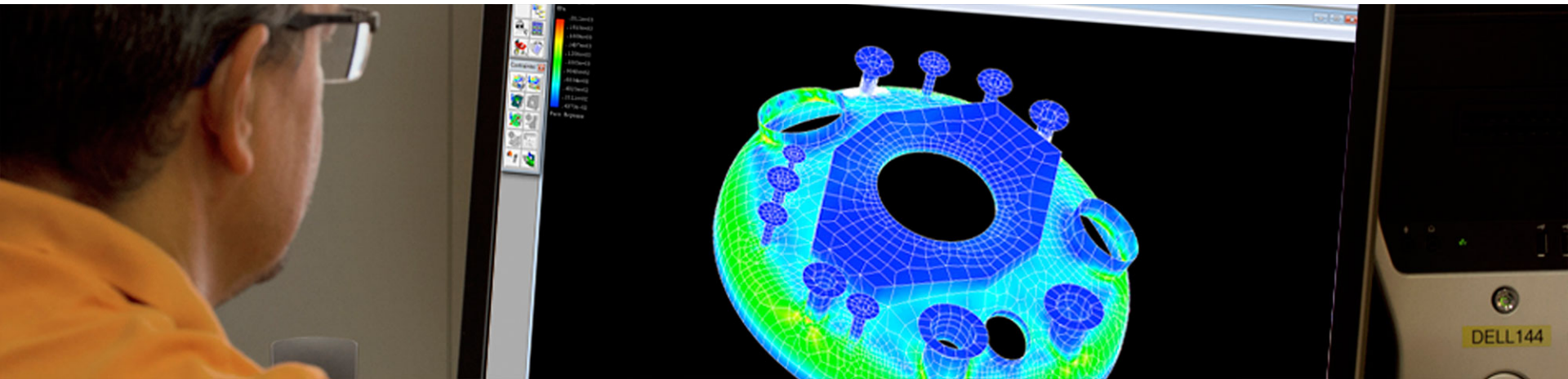
the most complete processes on the market .

CAPITALIZE

on 180 years of experience.

PROPOSE

solutions that set new standards.



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QUALITY, SAFETY & ENVIRONMENT CERTIFICATIONS



A long-term policy for sustainable development.

Quality control processes that go beyond the demands of French and international regulations.

Your quality products require
excellence in processing and protection

PRESENCE ON THE SIX CONTINENTS



70 countries on **6** continents

- Distributors and authorized agents in **38** countries.

KEY FIGURES



DATE OF FOUNDATION



TOTAL PAYROLL



2016 TURNOVER
(56% EXPORT)



SATISFACTION LEVEL



TOTAL SURFACE AREA OF PRODUCTION SITES



NUMBER OF EQUIPMENT ITEMS WORLDWIDE



AVERAGE EQUIPMENT LIFETIME



PRESENCE OF TOURNAIRE IN THE WORLD



NUMBER OF ACTIVE CLIENTS



MATERIALS PROCESSED ANNUALLY IN OUR PLANTS



NATURAL MATERIALS PROCESSED BY THE LARGEST UNIT



NUMBER OF PACKAGINGS SOLD IN THE WORLD

THE EQUIPMENT DIVISION

TURNKEY EQUIPMENT
AND CUSTOMIZED SERVICES
FOR PROCESSING ALL NATURAL MATERIALS

EQUIPMENT DIVISION

The only supplier capable of offering cross-cutting services and **designing a complete process** for production of premium solutions.

Design of **made-to-measure turnkey solutions** that match your goals.

Unique know-how, based on two centuries of feedback from experience.

35
employees

EQUIPMENT DIVISION

MARKETS:

- Flavors & Ingredients
- Perfume industry
- Cosmetics
- Specialty chemicals
- Pharmacy

PROCESS EXPERTISE:

- Extraction
- Subcritical extraction
- Distillation
- Rectification
- Short path distillation
- Evaporation/Concentration
- Filtration
- Pilot Hall



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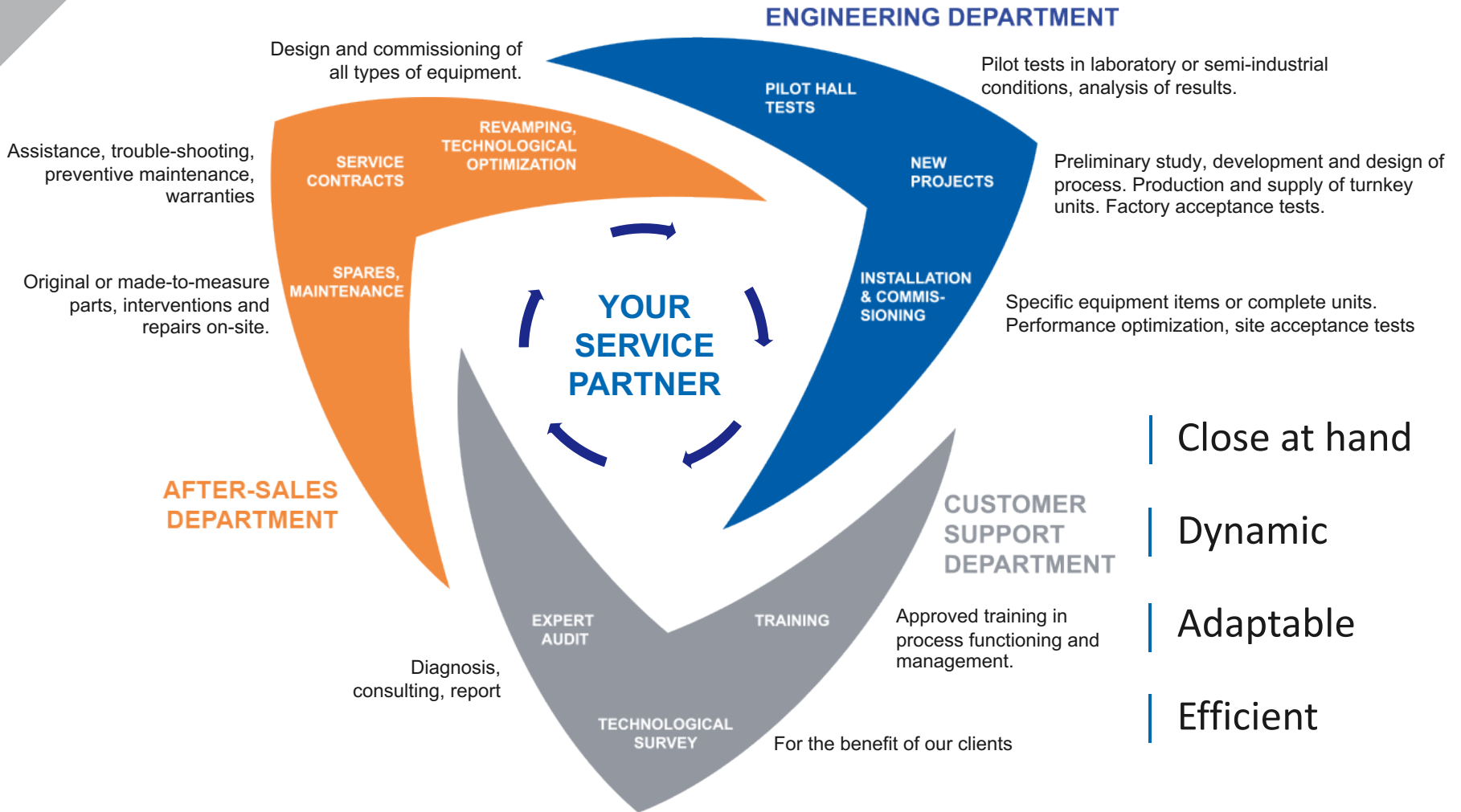
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REFERENCES



A BROAD OFFERING OF MADE-TO-MEASURE SERVICES



Close at hand

Dynamic

Adaptable

Efficient

TURNKEY PROCESS SOLUTIONS

Fully integrated supply chain expertise to offer complete turnkey solutions.

Intervention at all levels in the design of a **complete process** for the production of made-to-measure premium solutions.

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EXAMPLE OF A MADE-TO-MEASURE UNIT



3800 L

Pressure distillation unit comprising five 3,800 litres stills, fully automated.



99%

Two vacuum rectification columns with a capacity of 4 tonnes / day for the **purification – to more than 99 %** - of one of the compounds in the essential oil obtained by distillation.

40

Tonnes/
day

Processing of **40 tonnes / day** of clove powder, thanks to an innovative process

2 rectification columns – 9 m³



Vacuum rectification column stages optimized thanks to the **TOURNAIRE pilot hall**.



Prior validation of process parameters to **guarantee daily processing capacity**, distillation yield and the purity of rectified products.

EQUIPMENT

| Extraction

| Sub-critical extraction

| Distillation

| Rectification

| Short path distillation

| Evaporation / concentration

| Filtration

| Pilot hall



YOUR TEAM

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THANK YOU FOR YOUR ATTENTION

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