



Vegetable Oils

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A high performance filling system

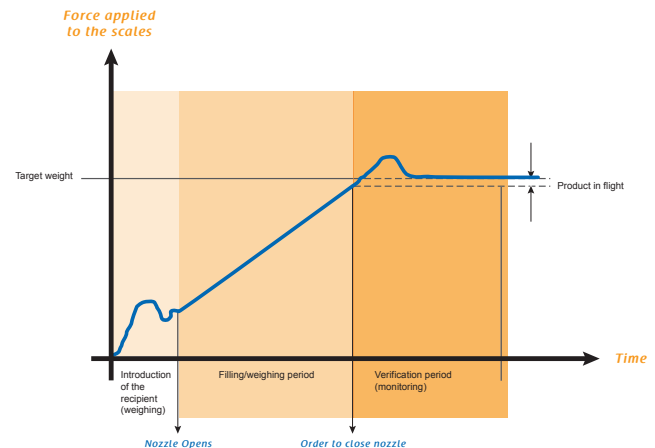
The Weigh Filling System

Your choice of filling technology has a direct impact on your financial results.

An example of advocating better measurement to avoid overfilling is the electronic weigh filling technology supplied by Serac. By directly measuring the weight of the product in the packaging (Net weight), the Serac weigh filling system is unaffected by changes in pressure, temperature or the nature of the liquid measured. By collecting and analyzing the data from the onboard equipment every hour, our system avoids any overfills by systematically correcting any drifts, no matter how small, all without the need for human intervention.



- 1 **Unaffected by temperature**
- 2 **Unaffected by the products aeration**
- 3 **Minimal maintenance**
- 4 **Retains the quality of the product**



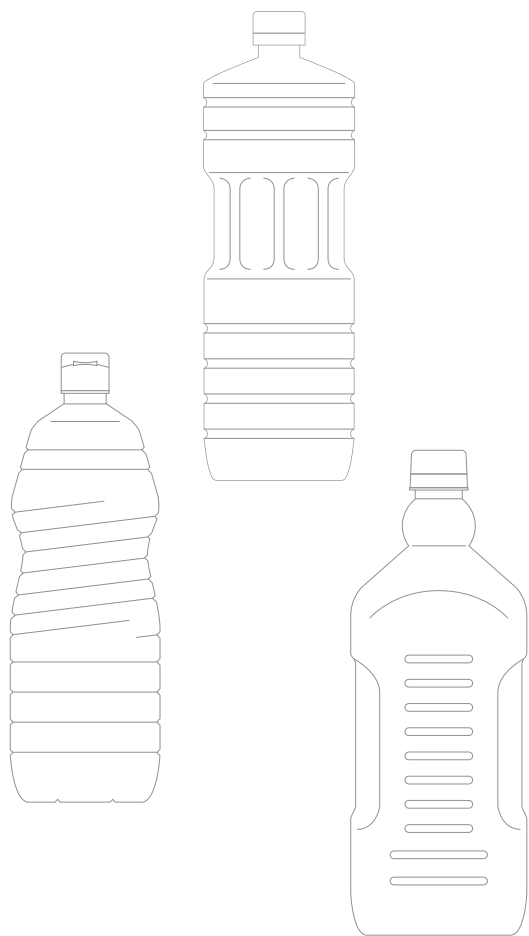


Monobloc Canopy[®]

Visibility and accessibility

Up to 18,000 packaging items per hour (1L)

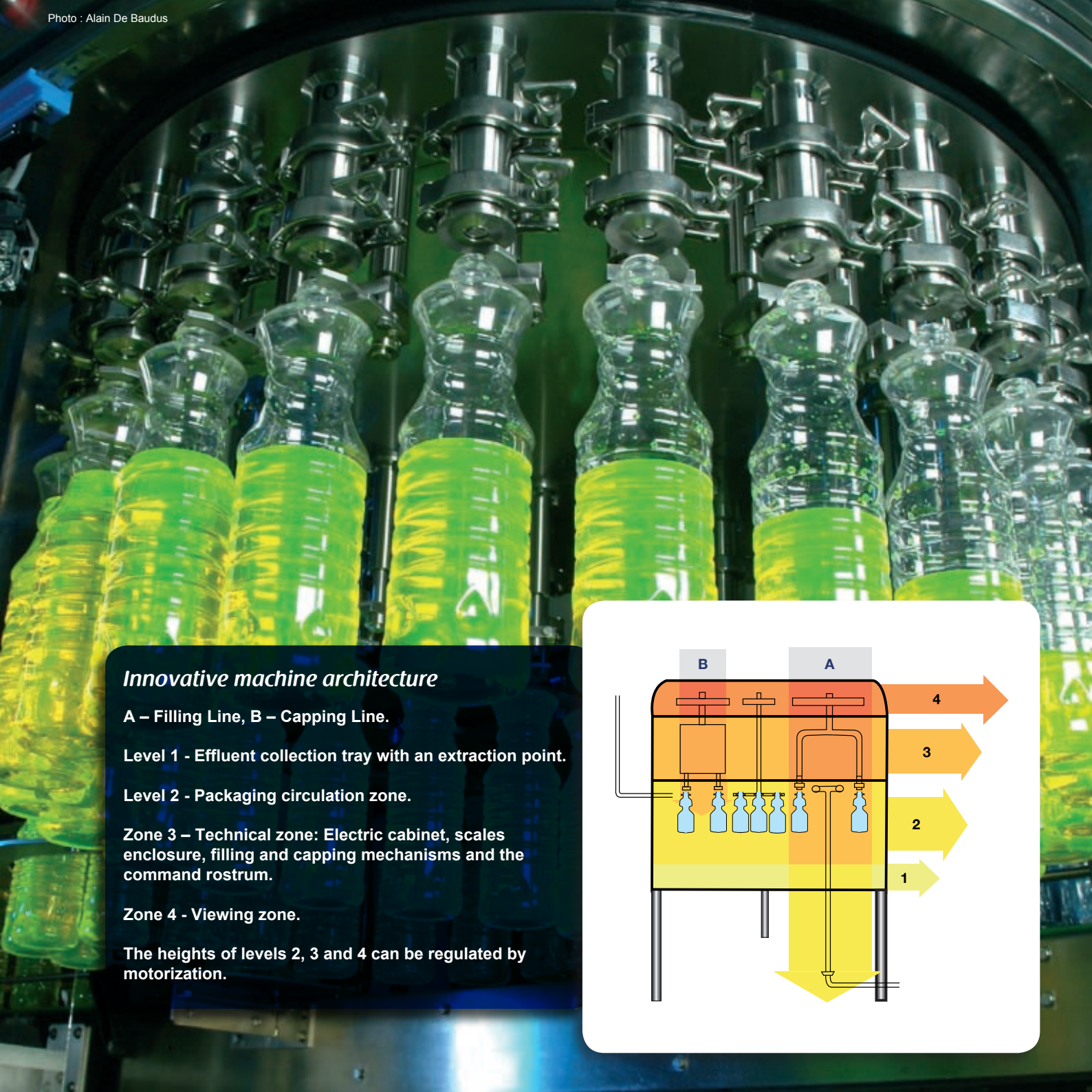
The machine is equipped as standard, with tooling for the transfer of the bottle by its neck, gating system and infeed screw, a 316L product circuit, a set of magnetic control valves, fully opening nozzles and a centralized flow adjuster.



Packaging sizes



Canopy[®]



Innovative machine architecture

A – Filling Line, B – Capping Line.

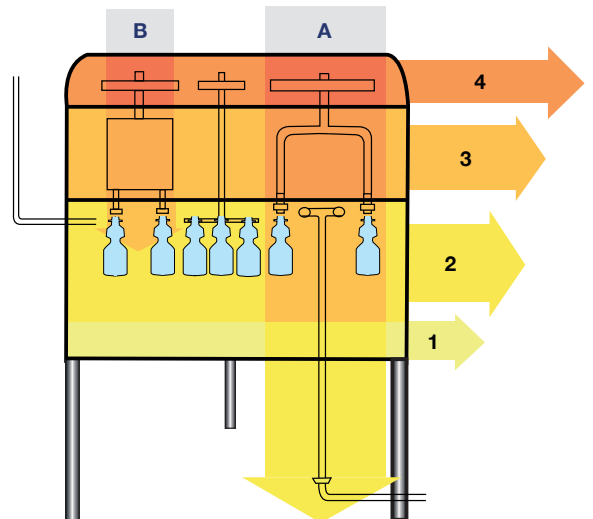
Level 1 - Effluent collection tray with an extraction point.

Level 2 - Packaging circulation zone.

Zone 3 – Technical zone: Electric cabinet, scales enclosure, filling and capping mechanisms and the command rostrum.

Zone 4 - Viewing zone.

The heights of levels 2, 3 and 4 can be regulated by motorization.





The Benefits

Very high visibility and accessibility to all the different filling and capping components.

Extremely clean filling

No spills on the packaging circulation tray, even in the case of defective recipients. The effluents are collected in the easily accessible and cleanable lower tray.

Optimized relation of size to performance

Thanks to a reduced machine footprint: up to 27 filling nozzles on a carousel of only 810mm.

Mechanism transferred to the upper section of the canopy

Very accessible and allows all the maintenance operations to be carried out at the operators height.

The capper can be equipped with 6 to 10 heads depending on the rate desired.

Packaging deviation system

The machines from the Canopy® range can be equipped with an optional deviation system for recipients incorrectly filled or with their caps missing.

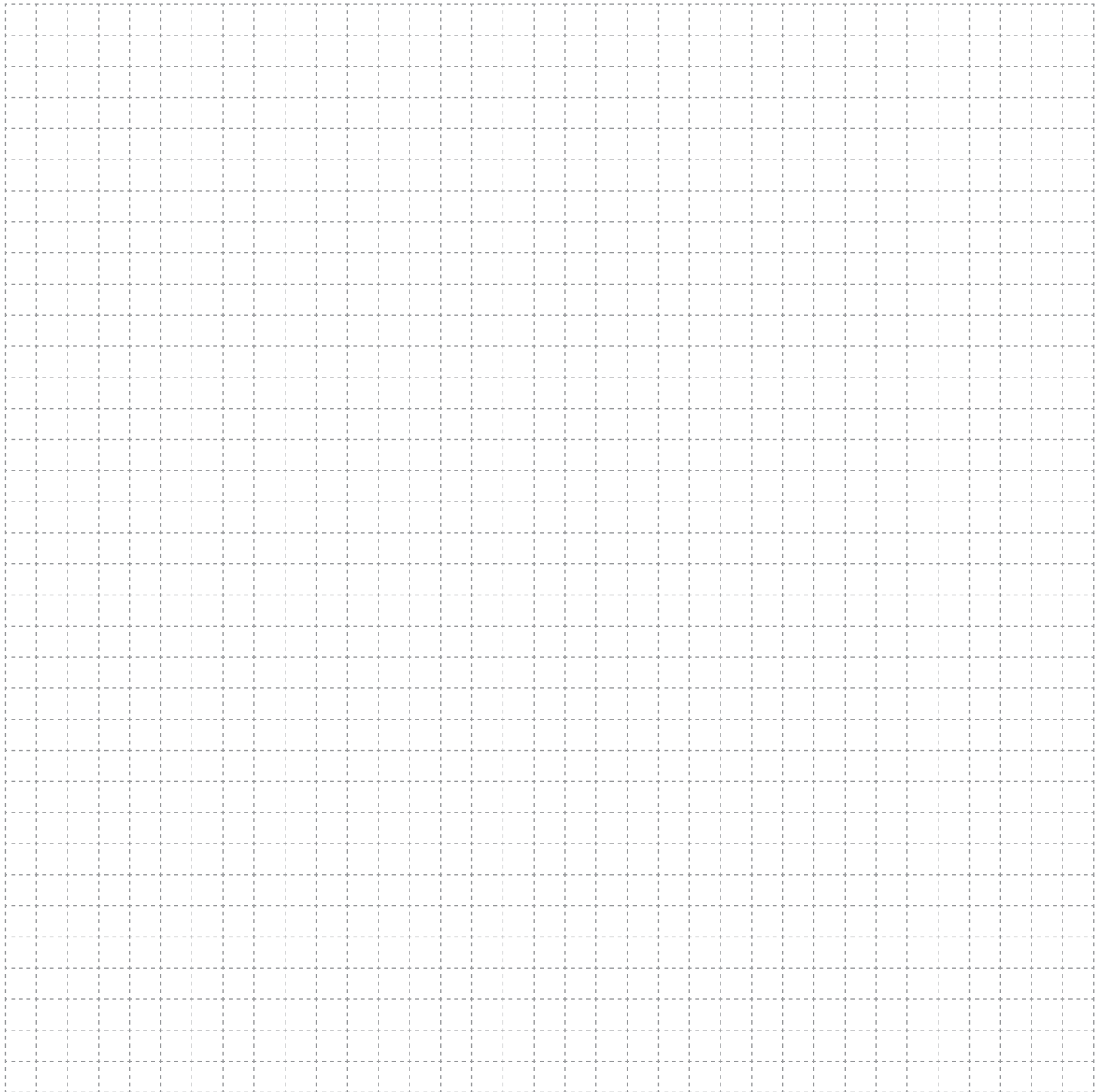
Product supply

The product supply comes through a buffer tank. The tank feeds through a rotary joint, turning the different filling nozzles using a manifold.



Photos : Alain De Baudus

Sketches, notes...





The cleanliness of weigh filling

- Absence of dynamic joints
- Serac capillarity nozzles: no annoying drips
- Opening/closing of the nozzles controlled by an air cylinder
- Product laminar flow



Filling and Capping Machine

Monobloc RB

Precision, performance and cleanliness

Up to 36,000 packaging items per hour (1L)

**Fill with precision, all types of packaging
from 0.25L to 20L**

The high level of precision provided by the Serac weigh filling machines, does away with the overfilling of packaging thus allowing you to make real savings.



Packaging sizes



Photo: Alain De Baudius



*The choice of 2 versions: **Essential and Oleo***

Essential

This version is aimed at those looking for a robust and easy to use machine, which provides the primary filling and capping functions.

Oleo

This is the top-end, equipment-rich version. Aimed at those wishing to have a complete control over their production. It comes equipped as standard with the control interface FCS+.

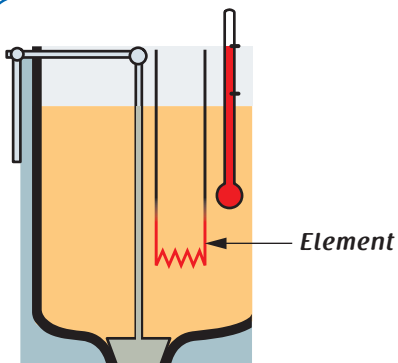


*The capper can be equipped
with 4 to 24 heads depending
on the rate desired*



More rigid packaging

Serac proposes an optional liquid nitrogen system for the head space after filling. As soon as the liquid is in contact with the air, it changes into gas. Then it is injected just prior to capping and creates a slight overpressure in the bottle which improves rigidity.



"Warm Up"

Viscous oils

For thicker oils, sensitive to temperature such as Palm oil, Copra oil and the smallest measure of nut oil, Serac proposes a "Warm Up" system to guarantee the fluidity of the oil.

Format changes

The "Plug On" system allows for rapid changes in packaging format.



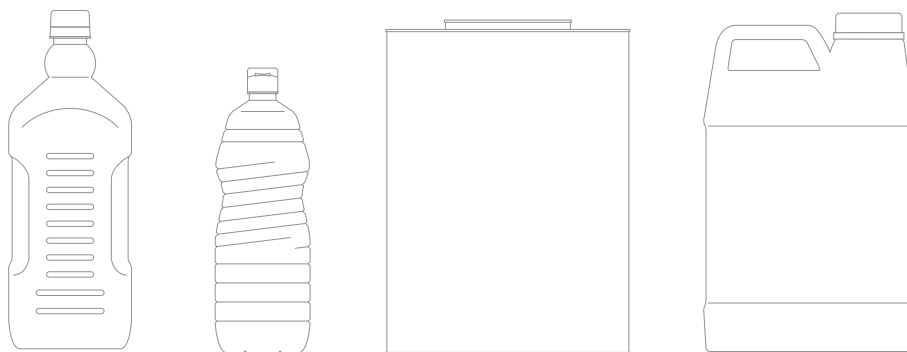
"Plug On"



Semi-automatic

Robust, reliable and accurate

A high precision, semi-automatic weigh filling machine that allows the filling of all types of packaging from 100g to 11kg and 5kg to 65kg.



Packaging sizes



DIGI+



The Digi+ interface allows you to save:

- A production name
- The tare weight
- The filling mode (Net or Gross)
- The target weight



Microline "Easyline"

- Semi-automatic filler
- Motorized conveyor
- Automatic capper

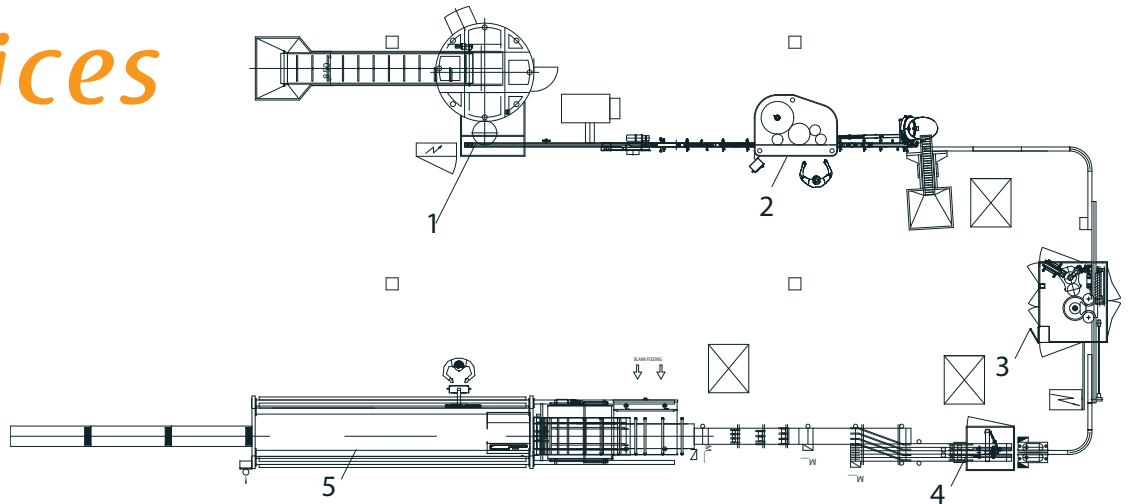


Nozzle presentation case

To fill a wide range of packaging types, we offer you an assortment of flow instruments in a presentation case.



Services



Engineering, complete line

Your turnkey production line

Serac complete line engineering know-how gives you access to the best deals for primary packaging, secondary packaging, to the end of line.

Line audit

The audit is a bespoke service contract.

It includes:

- The analysis of the production tool.
- The detection of the dysfunction points.
- The proposition and the implementation of solutions, to find the maximum efficiency of the line.



Photo: Alain De Baudus



Shipment of spare parts within 24 hours

The pneumatic and electric components that we use, are chosen in relation to their quality and their local availability. Our five production sites (France, USA, Brazil and Malaysia) and our three offices (England, Japan and China) have spare parts in stock which can, in most cases, be shipped out within 24 hours.

Other services

- **Maintenance contracts**
- **Training of maintenance and operating personnel**
- **Design and manufacture of tools**

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