# /// Matrasur

## RTM PRODUCTION LINE



This low pressure, semi-automatic, cyclical production process for the manufacture of parts using composite materials utilizes the combination of MATRASUR Composites vast experience and the very latest technology.

The new RTM CONCEPT from MATRASUR is a unique production line package which embodies advanced technologies to guarantee quality, optimise throughput, maximise control of the RTM operation, allow precise costings to be produced and ensure compliance with increasing environnemental constraints.

Utilising its considerable expertise in the composites industry, MATRASUR tailors the RTM CONCEPT to suit individual production requirements by linking together proven control, production and handling techniques as a

complete co-ordinated system. Each system is thoroughly tested under production conditions prior to installation, eliminating the need for time-consuming production trials, avoiding teething problems and ensuring cost-effectiveness from day one. With the RTM CONCEPT, companies no longer need to carry out their own research and development - MATRASUR undertakes this on behalf of customers and delivers a proven RTM solution backed-up with a complete technical support and maintenance programme.

### MATRASUR Composites

C.D. 3 - Hameau de Beauvert 91460 MARCOUSSIS Tél. 01 69 801 801 / Fax. 01 69 809 809 Matrasur Composites

# /// Matrasur

# ec ec

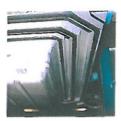
#### **Automatic gun**

It is fixed in place on the male mould. Injection and cleaning are automatic.



#### Injection equipment

Low pressure, double acting, positive displacement pump which provides a constant flow. Pneumatic motor with specially hardened hydraulic cylinder to withstand filler abrasion.



## Advanced technology mould sealing

Mould closing and injection under vacuum.



#### **Multi-colour Gelcoater**

Colour changing without material loss, flushing or stopping production.



#### Digital display

Controls, monitors and displays consumption of raw materials at all times (in kg/item, kg/minute and kg/day).



#### Heater

Variable temperature control heater with display is situated close to the spray-gun and ensures year-round continuity of Gelcoat viscosity and optimises product surface finish quality.



#### **Mould rotation**

Ensures the mould is always closest to the extraction system, thus providing operator safety. Baffles separate Gelcoat solvent from pigment to eliminate filter blockage.



## Mould temperature control

Reduces gel times and optimises production cycles regardless of factory temperature.



#### Needleless gun

Impossible for resin or Gelcoat flow to be out of phase with that of the catalyst when starting or stopping spraying. Provides greater precision.



#### **Mould flexibility**

In the case of moderate production rates the system can operate using only one male and female mould.



#### Air assist nozzle

Eliminates porosity in the Gelcoat during rapid curing, due to the very low spray pressure.



#### Special resin tank

Filling, mixing and degassing is under vacuum and fillers are kept in suspension prior to pressurised dispensing.



#### **Catalyst detector**

If the catalyst percentage varies from its setting the gun is automatically shut off and flushed.



#### **Control cabinet**

The automatic system controls all of the operations.

A manual override allows fine tuning and adjustment of the

tuning and adjustment of the process.



91460 MARCOUSSIS Tél. 01 69 801 801 / Fax. 01 69 809 809 E-mail : MATRASUR.Composites@wanadoo.fr

**MATRASUR** Composites

C.D. 3 - Hameau de Beauvert





ək

# Matrasur

