



**mates italiana srl**  
 PRODUCTS & TECHNOLOGIES FOR ADVANCED COMPOSITES

# IMPREGNATORE FL 650

**Impregnating machine at low cost with large possibility of regulation of all the parameters. Ideal for the production of prepregs. Width of the rolls of 650 mm. Equipped with control's and safety's devices according to the laws in force.**



**The IMPREGNATORE FL 650** has been designed on Mates specific commitment with the declared intent of providing a highly reliable and easy to use machinery to be employed for the impregnation of reinforcements in the sector of the composite. Its impregnation speed is perfectly adjustable and programmable and it reaches the 12 meters at the minute and therefore it adapts itself to a wide range of operators of the sector, being suitable for constructions of big dimensions too.

Actually at the maximum speed it employs at least 5 people for the positioning of the impregnate reinforcement.

At such technical characteristics, selected on basis of experiences directed in the production of advanced composite, one can add the main characteristic of

being a machinery from the contained cost and from the high productivity.

To allow the use of any type of resins and to make it more reliable it is not provided with a system to blend resins automatically but only with one small thermic tub controlled by a microprocessor.

It in this way it is extremely simple the cleaning of the equipment and one can go on as usual in mixing components of resins with special additives or inactive charges listed in the piece design

Also the operations of reinforcement change with minimum discards are particularly simple.

This makes the machinery extremely versatile in each type of construction also where it is requested the application of layers of reinforcement of weight and different compositions.

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## MAIN TECHNICAL CHARACTERISTICS



- \* Construction entirely in stainless steel.
- \* Pneumatic and adjustable from 0 to 8 ATM closing of cylinders.
- \* Speed of advancement adjustable from 0 to 8 meters at the minute.
- \* Anterior tub of heated impregnation and cooled from 15 to 80°C with control of the temperature by a microprocessor to absorb the exothermic heat developed from the resin.
- \* Back automatic rewinding with meter-counter and programmable halts. Function for imbue predefined pulls of fabric.
- \* Classical fabrics, unidirectional and multiaxial prepregs from 50 to 1800 gr/sqm.

- \* Safety devices according to the current laws
- \* Possibility to fix and to block the minimum and the maximum values of all the adjustable parameters to allow an initial setting of the equipment that could not be modified during the job by the operator. Such safety system guarantees the correct impregnation of the fabric without possibility of accidental scrap during work in progress due to inexperience or error by operator.
- \* Pedal start that facilitates the entrance of the fabric to the operator making minimum discards.
- \* Cleaning of the cylinders extremely simplified thank to the precision of coupling of the

cylinders and to the pneumatic control of the pressure between the same cylinders.



- \* Content of the small tub of impregnation from 3 to 20 kg of mixed resin
- \* Approximate dimension: 1500 x 1000 x 1150 mm. Weight: 300 kg.

