

# IMPREGNATION LINES FOR ELECTRIC WINDINGS



WASHING AND PAINTING MACHINES

## THE IMPREGNATION PROCESS

Tecnofirma® is proud to introduce *TF CAMELOT*, the new industrial plant line suitable for the automation of the impregnation process of electric windings.

*TF CAMELOT* line has been developed to treat a wide range of products and to satisfy various productive capacity needs.

The plant cycle includes loading of windings into suitable baskets from the line.

An operator places the basket at the line's inlet and then removes it from the unloading area at the end of the cycle.

The treatment cycle is carried out automatically and involves the passage of the basket through the different treatment stages: pre-heating, impregnation by dipping, dripping, flash-off, baking and cooling.

The operator can adjust all the process parameters (times, temperatures, dipping level).

## THE APPLICATION FIELDS

- ◆ Electric motors (stators and rotors)
- ◆ Transformers (winding)
- ◆ Lighting systems (reactors)



IMPREGNATION PLANT

## THE SOLUTION BENEFITS

- ◆ High production capacity
- ◆ Easy management and utilization of the loading/unloading facilities
- ◆ Flexibility
- ◆ Reduced investment cost
- ◆ Low operative costs
- ◆ Simple and cheap maintenance
- ◆ Environmentally friendly



DRIPPING STAGE AFTER IMPREGNATION

## DESIGN

*TF CAMELOT* LINE has been developed to combine ease of use, flexibility, cost-reduction and environmental consciousness.

All components have been chosen for their reliability and safety.

The heating systems have been designed to guarantee both best process performance and energy saving.

The modular design of the individual units comprising the line allows quick installation and facilitates possible adjustments to specific needs of the Customer.

The line has been developed and realized in compliance with CE rules.



DIPPING STAGE

## THE IMPREGNANT PRODUCTS

Tecnofirma® *TF CAMELOT* lines have been designed specifically for the utilization of both water impregnation products and polyester and epoxy resins.

The operator can easily and by himself vary process data in order to meet the instructions of the product supplier.

## OPTIONAL

- ◆ Loading / unloading trolley
- ◆ Unloading buffer, linear or transversal
- ◆ Heat recovery system
- ◆ Pre-heating by infrared lamps
- ◆ Resin recovery system.



ELECTRIC MOTORS STATORS (PARTICULAR)

### TF CAMELOT/COMPACT

Basket: 800x1200 mm  
 Frequency: 1 basket/2 hours  
 Dimensions: 6,6x2,4xH3,2 m

### TF CAMELOT/FLEX

Basket: 400x1200 mm  
 Frequency: 1 basket/30 min  
 Dimensions: 10,4x2,4xH3,7 m

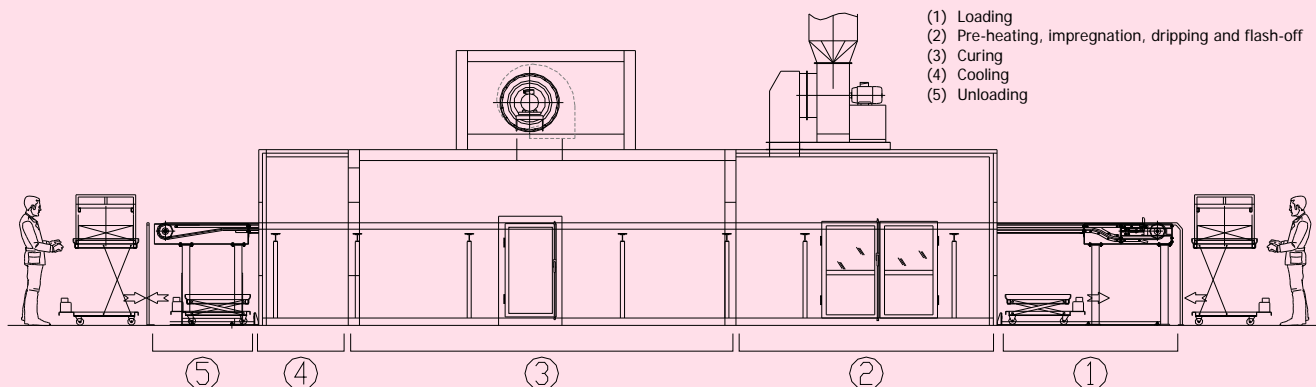
### TF CAMELOT/PERFORMANCE

Basket: 800x1200 mm  
 Frequency: 1 basket/30 min  
 Dimensions: 14,7x2,4xH3,7 m

### TF CAMELOT/HIGH PERFORMANCE

Basket: 800x1200 mm  
 Frequency: 1 basket/15 min  
 Dimensions: 17,8x2,4xH3,7 m

*BESIDES STANDARD LINES, TECNOFIRMA® IS SPECIALISED IN DEVELOPING CUSTOMIZED SOLUTIONS TO FULFIL SPECIFIC CUSTOMER NEEDS.*



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**TECHNOLOGY & INNOVATION FOR OVER FIFTY YEARS.**

HARMONY OF COLOURS, DEPTH OF TREATMENT



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