



**FONTRAF**®

Road Marking Machines

Imp. FT01651

Your road to success

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[www.fontrafroadmarking.com](http://www.fontrafroadmarking.com)



# YOUR ROAD TO SUCCESS



**Touguidráulica Componentes e Acessórios, Lda.** was created in 2011 and is dedicated to the construction of road marking machines.

Our brand, **Fontraf Road Marking Machines**, is internationally known for the quality and reliability of its products. Fontraf Road Marking Machines has a vast portfolio of standard equipments. These can be adapted and tailored to our client's needs.

Below you'll find some of the type of products built by **Fontraf Road Marking Machines**.

- Cold painting machines;
- Thermoplastic painting machines;
- Pre-heaters;
- Accessories for manual painting;
- Molds for road marking and manual screed boxes;
- Other equipment, upon request.

All projects are made in total coordination with the client. This ensures a customized end- result, with excellent qualities of durability, performance and reliability.

We also provide technical assistance to our valued clients.

# THERMOPLASTIC ROAD MARKING MACHINES

Thermoplastic road marking is one of the most common types of road marks. Hot-applied, thermoplastic markings excel through improved durability, excellent reflection properties. Moreover it can be used for delineation with an acoustic and rumbling effect.

Road marking machines for thermoplastic painting are usually heated indirectly by thermo-oil that circulates around the paint chamber.

This means that these machines are prepared to keep the paint at a set temperature and not to melt the paint.

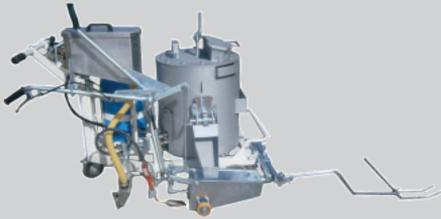
Melting the paint with a road marking machine implies that the paint will take much longer to be prepared (if you compare it with the time it takes with a directly heated pre-heater like the ones built by Fontraf). When the machine finishes the paint on tank, if there are no pre-heaters, the machine will need to melt another batch of paint.

For most countries, this takes too much time.

On the other hand, by not using pre-heaters, any impurity that may exist in the paint will go to the paint collectors of the machine which will result in its clogging. The pre-heaters have steel filters that prevent the bigger impurities to be transferred to the application machine.

For technical characteristics of the equipments, please contact us.

## THERMO EASY 80N



## THERMO EASY 80T



## THERMO EASY 80TS



## FT100



## AQ150



## AQ300



## ROAD400



## ROAD500



## ROAD1000



## ROAD1200v



## ROAD1500



## ROAD2800/19



## ROAD3000/19



## ROAD3500



**For technical characteristics of the equipments,  
please contact us.**

# COLD PAINTING MACHINES

The airless system is a type of road marking that combines high profit with excellent quality. Due to the low dispersion rates of application, when repainting the roads, there's no need to mill the previous markings.

Cold painting is much easier and safer than hot painting.

Cold paints don't need to be heated as it happens in hot painting. There's no need for pre-heaters. You only need to put the paint in the machine and you are ready to start. As such, the investment is always inferior when compared with thermoplastic painting.

The lines painted by cold painting, airless or low pressure, have much inferior thicknesses when compared to thermoplastic painted lines.

For technical characteristics of the equipments, please contact us.

## EASY LINE 300



## EASY ECO 100



## EASY ECO 200



## FT100 ECO



## EC01500



## EC02500



# ECO6000



**NEW MODEL  
2018**

**For technical characteristics of the equipments,  
please contact us.**

# PRE-HEATERS

Fontraf's pre-heaters ensure a fast fusion of the thermoplastic material while keeping the heavy duty feature, characteristic of Fontraf's machinery.

The pre-heaters are built in refractory steel, insulated in ceramic blanket, encased in brushed aluminum.

The steel used in the construction of Fontraf's pre-heaters is a special steel, usually used in industrial boilers. It ensures long term safety and reliability.

All pre-heaters are supplied with control panel to set the temperature of each pre-heater and to control the burners.

The pre-heaters have independent hydraulic mixers with variable speed and direction.

The pre-heaters can be supplied with diesel or gas heating system.

For technical characteristics of the equipments, please contact us.

## DIESEL VERSION

Model	Capacity	Burner	Engine	Hydraulic oil tank	Fuel tank
HOT180	180 liters (360 kg)	Diesel, 12 v	10 hp	35 liters	62 liters
HOT2x180	360 liters (720 kg)	Diesel, 12 v	13 hp	104 liters	62 liters
HOT250	250 liters (500 kg)	Diesel, 12 v	10 hp	35 liters	62 liters
HOT2x250	500 liters (1000 kg)	Diesel, 12 v	13 hp	104 liters	62 liters
HOT2x350	700 liters (1400 kg)	Diesel, 12 v	13 hp	104 liters	62 liters
HOT500	500 liters (1000 kg)	Diesel, 12 v	10 hp	On request	On request
HOT2x500	1000 liters (2000 kg)	Diesel, 12 v	13 hp	On request	On request
HOT2x650	1300 liters (2600 kg)	Diesel, 12 v	18 hp	On request	On request
HOT2x750	1500 liters (3000 kg)	Diesel, 12 v	18 hp	On request	On request



# GAS VERSION

Model	Capacity	Burner	Engine	Hydraulic oil tank
HOT100	100 liters (200 kg)	Gas	8 hp	35 liters
HOT180	180 liters (360 kg)	Gas	8 hp	35 liters
HOT250	250 liters (500 kg)	Gas	10 hp	35 liters
HOT2x250	500 liters (1000 kg)	Gas	10 hp	35 liters
HOT2x500	1000 liters (2000 kg)	Gas	10 hp	35 liters



# ACCESSORIES FOR MANUAL PAINTING

Road marking projects don't end with the painting of lines and the rib line application. Most horizontal signalization projects include some type of marking that needs to be manually executed.

These horizontal markings are extremely important for the user's safety and commodity, also enabling a better flow of the traffic.

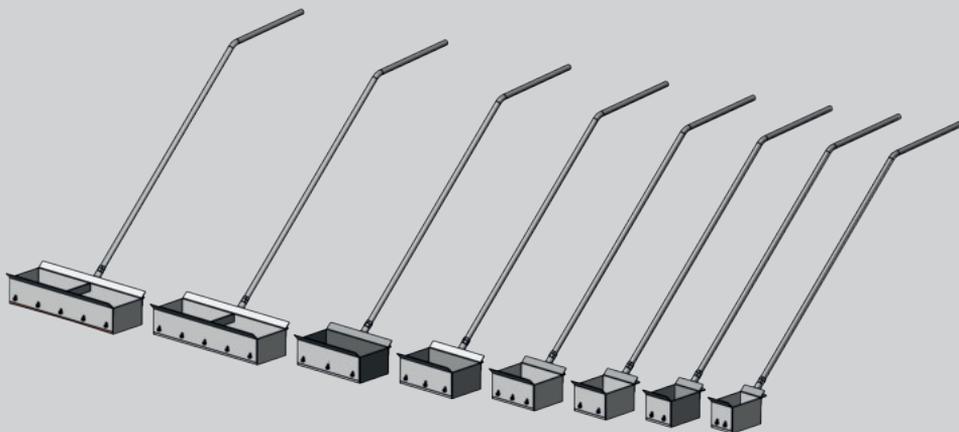
Warning arrows for imminent detours, STOP indications written in the ground, crosswalks, indications of a BUS reserved lane, danger and traffic warnings, special parking indications, etc., are examples of signs that must be manually painted. This is done by a specialized crew.

Fontraf provides his clients with a series of molds that enables them to rapidly, safely and with great quality, paint any inscription, symbol or word, that needs to be applied on the roads.

For technical characteristics of the equipments, please contact us.

# MOLDS AVAILABLE

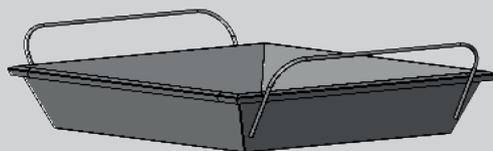
- Mold of 600 mm;
- Mold of 500 mm;
- Mold of 500 mm with bands;
- Mold of 250 mm;
- Mold of 200 mm;
- Mold of 150 mm;
- Mold of 120 mm;
- Mold of 100 mm;



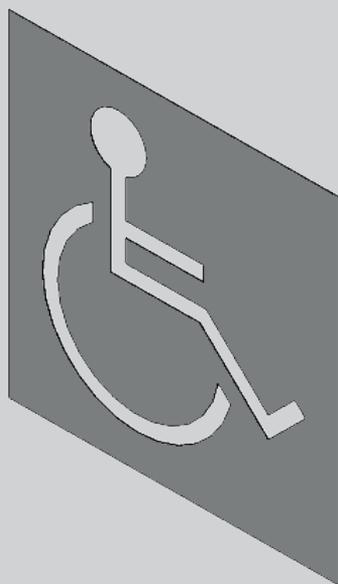
Other measures on request



**BUCKET FOR PAINT**



**PAINT TRAY**



**SYMBOL FOR HANDICAPPED**

*Other measures and symbols on request*



**LETTER "B"**



**LETTER "U"**



**LETTER "S"**



**LETTER "T"**



**LETTER "O"**



**LETTER "P"**

**Other measures and symbols on request**

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