





HOT END AUTOMATED SYSTEM TAKE OUT ROTATIVE





This system makes it possible to pick up items and place them on the conveyor with a specific orientation. It can be fitted to all arms.



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HOT END AUTOMATED SYSTEM **BLANKONTROL**





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HOT END AUTOMATED SYSTEM BLANKONTROL





Automatic regulation of mould ventilation

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Don't need to clean the camera





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FOLOFLAME FIRE POLISHING MACHINE

Why the name "FOLOFLAME"

Following Flame



The two fire polishing methods can be compared to a finger passing through a flame:

- · Fixed re-burn, equivalent to a quick pass over the flame. In this case, the flame remains stationary while the object moves along the conveyor, which limits its effectiveness.
- · Accompanying re-burning corresponds to a prolonged passage above the flame. The flame follows the item, increasing its efficiency..



FOLOFLAME



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- Energy savings
- Improved production quality
- Easy installation and adjustment
- Q, Top-of-the-range mechanics

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HOT END AUTOMATED SYSTEM FOLOFLAME 2/5

FIRE POLISHING MACHINE





- Foloflame contributes to the decarbonisation
- of industry:
- 60% energy savings
- Up to **580 tonnes of CO2** saved per line per year
- No loss of energy between 2 items
- Superior flame efficiency



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Reduces forming defects

Optimisation through item tracking

+ High-gloss finish on items





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HOT END AUTOMATED SYSTEM FOLOFLAME 3/5

FIRE POLISHING MACHINE





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HOT END AUTOMATED SYSTEM FOLOFLAME 4/5

FIRE POLISHING MACHINE



FOLOFLAME SETTING PART :

Foloflame is equipped with 2 types of tools :

- Tools for basic burners
- Tools for torch burners

Mechanical adjustments of rotation, depth, height and angles are made easier (cranks and indexing) to make adjustment quicker and more comfortable. This offers great flexibility for adapting to all types of product.

> Our foloflame is equipped with an "adjustment mode" that allows access to the work area. The return speed is then lowered so that you can work in complete safety.





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HOT END AUTOMATED SYSTEM FOLOFLAME 5/5

FIRE POLISHING MACHINE





FOLOFLAME ACCELERATION PART:

In an tracking fire polishing system, there are 2 movements:

- -----> Forward movement to tracking the product
- Return movement to return to the starting position

As this return movement is time **without fire polishing**, it must be as **fast as possible**. In view of the distance, it consists of a very strong **acceleration** and a very strong **deceleration**.





Our system is equipped with a helical drive rack and pinion for the most efficient torque transmission possible.



HOT END AUTOMATED SYSTEM STUCK REJECT

IS MASTER



- On the machine output convoyor
- Prevents conveying troubles

SWR consists of: a **control cabinet** with **touch panel**, one **sensor** plus one **reflector***, **wiring** and one **electro valve***.

*(or two, depending on the chosen option)

We supply supports for **sensors** and **reflectors**, which include **compressed air cooling**.

The **speed of the machine** can be set by input or manually. The **center distance of bottles** can be set. **Bottle width** is learnt by the system. Ejection can be set **automatically or manually.**

You also have three counters which provide real time information on:

- Bottles without defects
- Fallen or stuck bottles
- Bottles that are too close.

You have an output that you can use to trigger hot surface treatment. In the event of power failure, **the system will restart with the same parameters**, but with ejection disactivated.







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HOT END AUTOMATED SYSTEM FLAME MASTER







Fire-polish your bottle, with high accuracy and very low deformation.

Some bottles which previously stayed in single gob because of the fire-polishing, switched to double gob.

Our equipment :

- Pressure Regulator are dome relator
- On gaz there are strainer filter and filter for mechanicall impurities
- On Oxygen there is a strainer filter
- Flowmeters are from Krone
- Safety line: there is an input to stop automatically the Flamemaster if the conveyor is stopped.

Latest Improvements:

- Even quicker job change and set up times
- Ergonomic settings
- · Easier set up to the height of the conveyor
- Software improvement for maintenance



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HOT END AUTOMATED SYSTEM **VALVE CONTROLLER**

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Upgrade your existing machine with a proportional valve system for counter-blowing and fore-blowing.

We offer a multi-language system.

The system allows the operator to set up to seven different levels with different pressures. The length of each level can be set in **ms** or **degrees**.

Once one section is set, the parameters can be duplicated. We also set pressure for the little blow after the opening of the blank mold.

The values given by the valve compared to the values entered can be monitored in real time. A pocket may be used to adjust the time and pressure.

TME

GlassPro

Durée to Durée total

www.tme-engineering.com

Proportional Valves Controller





P roportional V alves C ontroller	Ť
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	S1 Pres. pouf 1000 COPIER		S2 Pres. poul 800 COPIER		S 3	S3 Pres. pour 700 COPIER	
	Pression	Durée	Pression	Durée	Pressi	on Durée	
Palier 1	1000	1500	1000	1500	100	0 1500	
Palier 2	500	50	500	50	500	0 150	
Palier 3	0	0	0	0	0	0	
Palier 4	800	350	800	250	80	350	
Palier 5	0	0	0	0	0	0	
Palier 6	0	0	0	0	0	0	
Palier 7	0	0	0	0	0	0	
tale des paliers	5	1900	5	1800		2000	
e cycle percage	G	2000	G	2000		2000	



HOT END AUTOMATED SYSTEM ROTAPLATE



Given the IS Machine is a Linear Machine, when products need to be fire-polished, a compromise between 'hot sections' (near the first burner) and 'cold sections' (away from the first burner) needs to be found.

The **power of the burner** can result in **dimensional problems** on products due to these **"hot sections"**, or **insufficient polishing** in **"cold sections"**.

Occasionally, one or two sections may have to be stopped as a result.



Our solution :

ROTAPLATE solves this! Time on the cooling plate is **extended** for hot sections' and the **temperature of the product** when it arrives at the first burner is **equalized**. Up to four products can sit on the cooling plate at any one time.

The setting of ROTAPLATE is intuitive and the motoring is **smooth** (without vibrations), thereby allowing work on unstable products. Up to four sections can be equipped on the machine







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