



*BUSINESS PRESENTATION*

**ENERGY SAVING  
ON BLOW-MOLDING  
MACHINES**



# TARGETED STRATEGIES TO SAVE ENERGY

In the last period, the costs of electricity and gas supply have doubled, **while in the first days of January 2022 the cost of the energy component alone has quadrupled compared to 12 months ago**. A real drain on companies. It's important to adopt strategies to limit energy consumption in production facilities.

**BBM HAS INVESTED IN THE RESEARCH AND DEVELOPMENT OF SOLUTIONS TO GUARANTEE ENERGY AND COST SAVINGS IN THE BOTTLING SECTOR.  
HOW?**

Thanks to a combination of upgrades designed for blow molding machines, you can save on energy consumption and achieving the same results



**AIR RECOVERY**

**PRESSURE  
REDUCTION**

**CERAMIC  
PANELS**



# AIR RECOVERY

## The possibility to reuse the blowing air for the machine utility

Without replacing the original blower manifold, an integrated wirelessly connected system for managing air recovery can be installed.

The system allows for automatic adjustment of the machine in operation, based on format and speed. It is possible to manage the auto check-up of the sensors and the diagnostics of each valve directly from the panel.

An upgrade that can be done on machines of the main manufacturers.

**We guarantee a certain return on investment and an intervention tailored to your needs.**



# PRESSURE REDUCTION

Precise and meticulous adjustment of the pressure required to blow the bottle to the right size

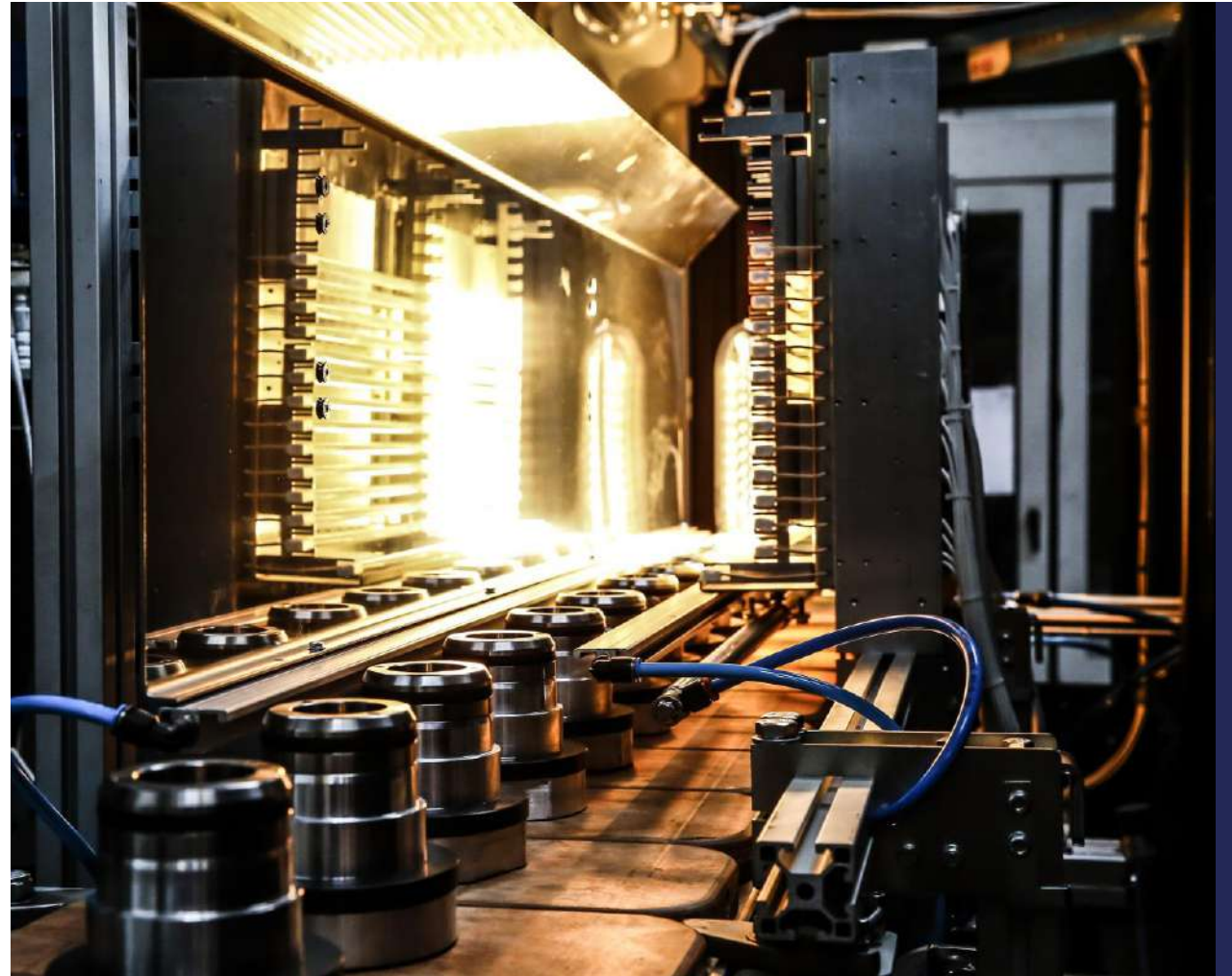
Thanks to this modification made by BBM Service, your blowing plant can work at the required pressures and no higher, while maintaining the quality of the blown bottle unaltered

**Each 1 bar reduction in pressure can decrease consumption by 5%**  
Why would you wait?

**Compressed air pressure reduction**

**Intervention in a short time**

**Safe and immediate savings**



# CERAMIC PANELS

The new Ceramic Panels for Oven are panels with reflective ceramic walls, which result in faster heating of the preform.

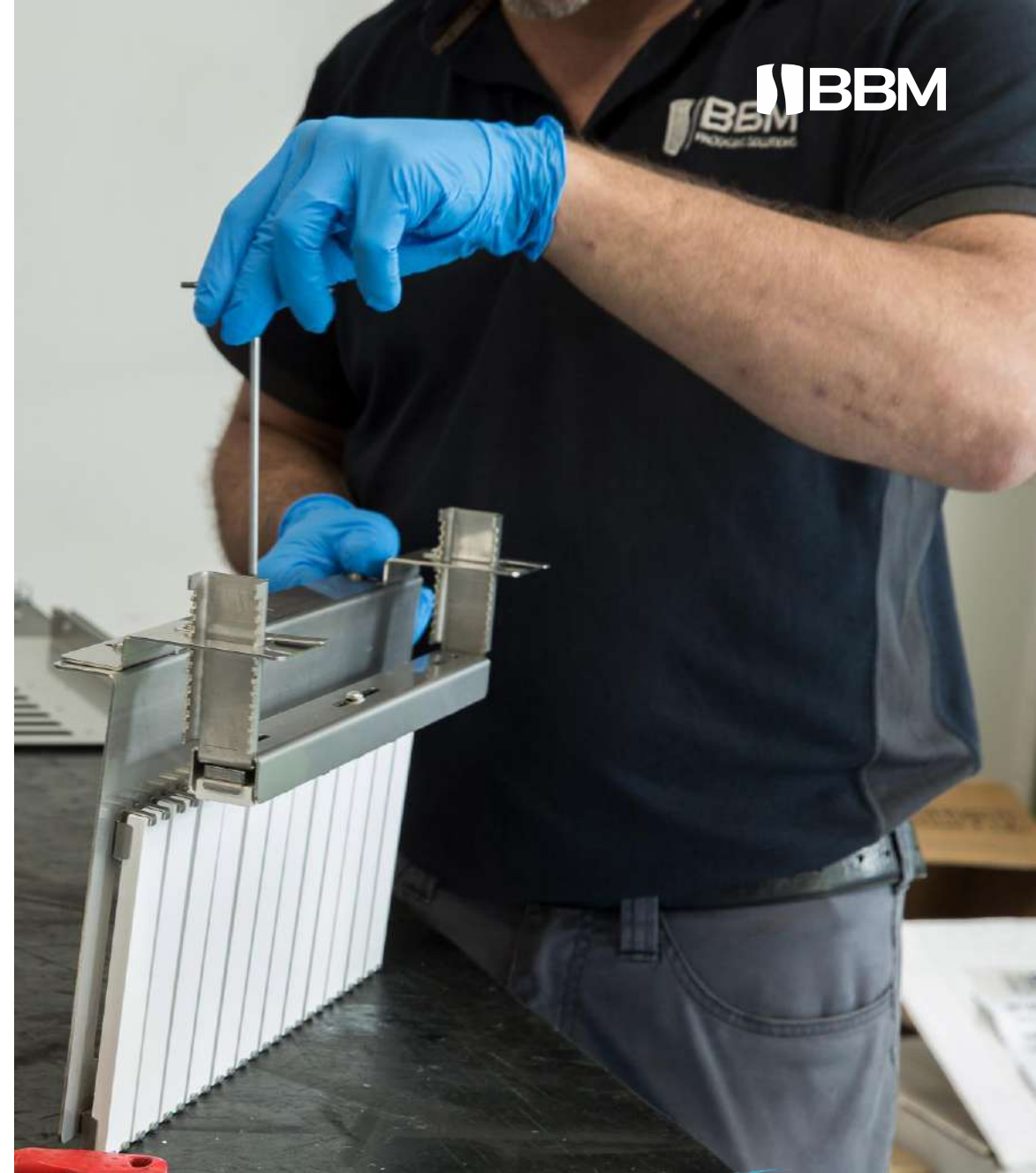
By reducing the operating power of individual lamps, **the installation of BBM ceramic panels allows up to 35% less power consumption, resulting in cost savings.**

**Independent and self-cleaning**

**Prevent bottle neck deformation**

**Applicable on blow molding machines of the main brands**

**Return on investment in less than 6 months**





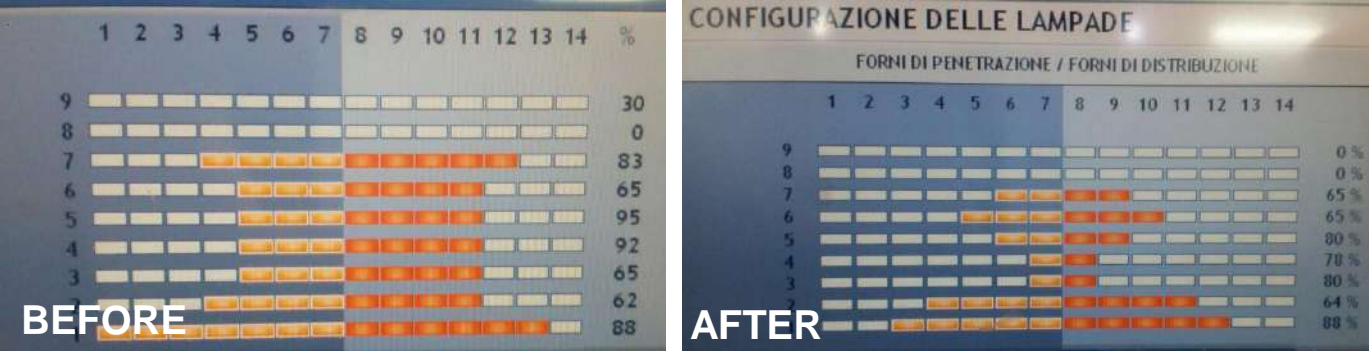
# LOWERING TEMPERATURE

Lowering the temperature of the mold-holder spindle in the бага area, thus, preventing bottle neck deformation

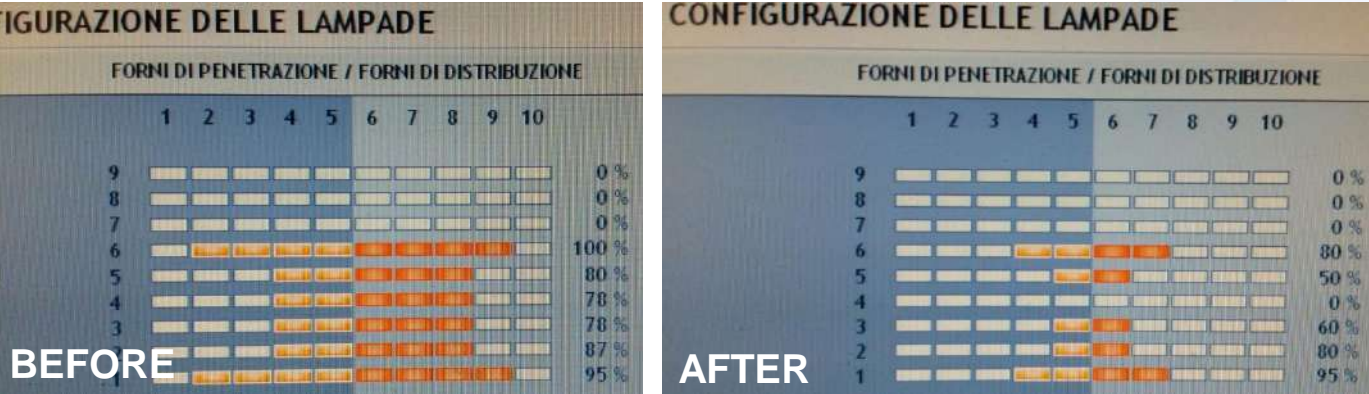


# INSTALLATION EXAMPLES

Water bottle - Format 1.500ml: real saving of 35%



Bottle of milk - real savings of 63%





# INSTALLATION EXAMPLES

Water bottle - 500ml size: real saving of 37%



Bottle of milk - real savings of 48%.





# CONCRETE SAVING

**BBM has designed a simple method to allow you to personally calculate the payback of your investment, for your company.**

Click on the link "Calculate your savings for free" on the dedicated article and, following the instructions on the right, complete the table to get a real figure on the actual energy and cost savings obtained through the installation of ceramic panels BBM.

## Energy saving calculation instructions

Blow-molding machine model	Ovens
	20

**Step 1:** After indicating the model and number of furnaces, take the daily kWh consumption of the blower and enter it in the yellow box provided.

Daily average kw consumed	195
---------------------------	-----

**Step 2:** Assuming a set % of savings, we will result in the kWh saved after installing the upgrade (green box).

Kw saved every hour	58,5%
---------------------	-------

**Step 3:** Enter the hourly cost kWh of your area in the box. You will get the hourly cost savings after installation of the upgrade (orange box).

Hourly cost kw	0,15 €
Risparmio economico orario	8,78 €

**Step 4:** Enter, depending on the season, the number of hours worked per day and the number of days worked per month. You will get the payback expressed in months (light blue box).

Hours worked/day	24
Days worked/month	30
Payback, in months	3

# HOW WE WORK

At the service of your saving project



### The ideal mix

The combination of the three upgrades on the blow molding machines guarantees effective and consistent energy savings, to avoid waste in this period of rising energy bills



### Fast Interventions

Don't waste time: our specialized BBM technicians can reach your plant quickly and safely



### Certified Savings

We can put at your disposal a certification body, to have your savings quantified and be able to access calls for tenders and funding



### Assistance

BBM offers not only immediate technical support services, but also preventive maintenance programs to maintain the performance of your equipment over time







# SAVE ENERGY

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

**BBM Service s.r.l.**  
Via Pregalleno, 24  
24016 San Pellegrino Terme  
Bergamo | Italy

Tel +39 0345.23642  
E-mail: [info@bbmpackaging.com](mailto:info@bbmpackaging.com)  
**bbmpackaging.com**