



MOBY Intro S EN

# MOBY



System for plastics material treatment  
based on infrared radiations and vacuum

2009 PATENTED

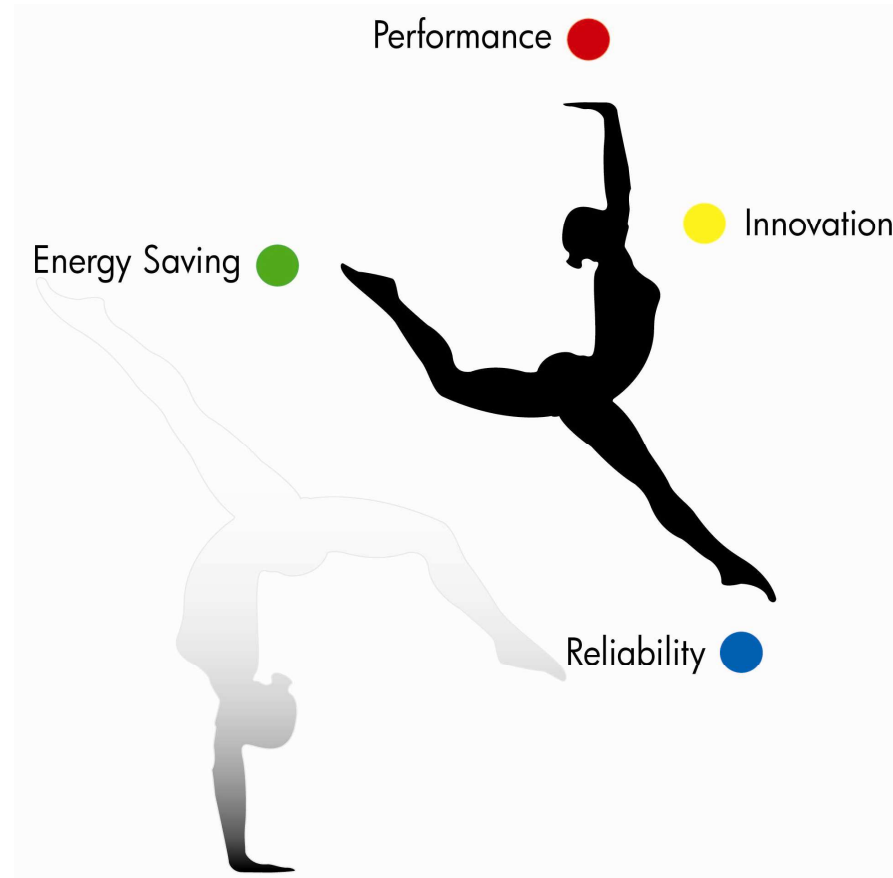




# PROCESSES



- Drying
- Dehumidification
- Crystallization
- Cleaning
- IV increasing
- Finalization

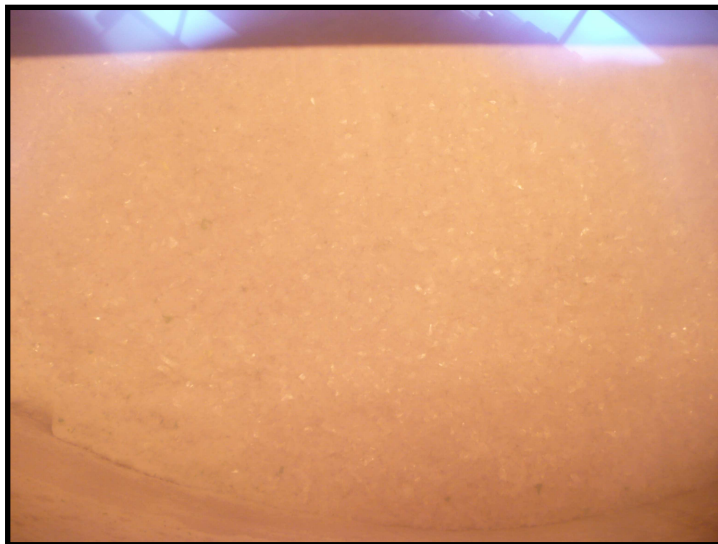




# TECHNOLOGY



- Infrared radiations
- Vacuum



The system applies in the same time infrared radiations and vacuum in order to heat efficiently the material mantaining it in an ambient under vacuum.





# HYGROSCOPIC POLYMERS



ABS (extrusion)

ABS (injection)

CA

CAB

EVA

EVOH

IM

LCP

PA 11-12

PA 6-46-66-610

PAI

PAR

PBT

PC

PC per CD

PC/ABS

PC/PBT

PE,HDPE (cables)

PE,HDPE,LDPE

PE,HDPE,LDPE black 3%

PE,HDPE,LDPE black 40%

PEEK

PEI

PEN

PES

PET (textile fiber)

PET (bottle & sheet)

PET (injection)

PET PCR

PET G

PI

PMMA acrilic

POM acrilic (copolymer)

PP (talc powder 40%)

PPO

PPS

PSU

PTT

PUR

SAN

SB

TPE

TPO(POE)

TPU

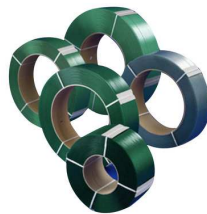




# MOBY on PET



- Dehumidification
- Crystalization
- IV increasing
- Cleaning



The contemporary application of infrared radiations and vacuum guarantee the maximum efficiency in terms of energy consumption and performance.





# MOBY on technopolymers



## ➤ Dehumidification



ABS, PA, PBT, PC, PMMA, TPU, ...

The material is heated under vacuum by infrared radiations and so technopolymers are preserved from oxydation and the dehumidifying time is highly reduced.





# The modules of MOBY system



MOBY - Process

Control

HC - Maintenance





# MOBY - Process



The material is heated by infrared radiations and maintained in an ambient of dynamic vacuum.





# HC - Manteinence



After the process, the material is manteined in a high-insulated ambient waiting to be transformed.



# CONTROL



GRAPHICAL TOUCH-SCREEN





# MOBY 'S REASONS

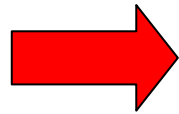


“If money in the market is so scarce, and rare, to spend it you need really good reasons.”





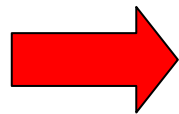
# MOBY 'S REASONS



## QUICK HEATING:

infrared radiations are the most efficiently way to heat plastic materials.

Growing from 10 up to 100°C is obtained in few minutes.



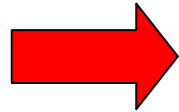
## ENERGY PROPORTIONALITY:

the temperature is checked directly on the material, so the quantity of energy put in the process is exactly the energy needed for the material in treatment.



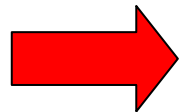


# MOBY 'S REASONS



## AUTO-TUNING HOURLY PRODUCTION:

the system processes only the material required by transforming machine and makes a self auto-tuning on the possible variations.



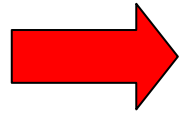
## HEATING CONSERVATION:

vacuum is not only a dehumidification means, but also the best exhisting insulation means.



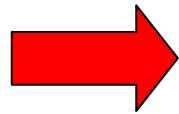


# MOBY 'S REASONS



## HEATING MAINTENANCE AND RESTORATION:

infrared radiations work under vacuum to maintain and restore the heating, in order to have the best temperature for dehumidification and for the processing machines.



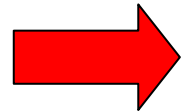
## EFFICIENCY OF THE APPLIED TECHNOLOGIES:

infrared radiations and vacuum are actually the technologies that guarantee the best ratio between energy consumption and performance.





# MOBY 'S REASONS



## SYNERGY OF THE APPLIED TECHNOLOGIES:

vacuum improves up to 40% the efficiency of infrared radiations.



## QUALITY OF THE MATERIAL AFTER THE TREATMENT:

the lack of air during the dehumidification prevents from oxydation and improve the quality of the material.





# MOBY OPEN HOUSE



It's been working from July 2009 the permanent open-house in Italian SB Plastics Machinery headquarter to see the innovative system MOBY for treatment of material based on infrared and vacuum working together.

The use of infrared radiations and vacuum allows to reach the maximum efficiency in the dehumidification of materials (not only plastic materials) and, in case of PET recycled, also crystallization, rigradation and cleaning.

All the customers interested can book a test on their own materials to check the efficiency of the system.

**NEWS !**



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