



SPECIALTY FOAM BATCHBLOCK PRODUCTION AND RECYCLING SOLUTIONS



Presented by Mattia Pieri

Automation Experts

Machines, Lines, Software

55

YEARS OF EXPERIENCE

In bedding, upholstery and foam production

3

CORE DIVISIONS

That focus on foam, shredding and digital

72

COUNTRIES

WHERE WE OPERATE

mainly in Europe, North and South America and Asia





RANGE OF PRODUCTS



Viscoelastic
Foam

HR
Foam

HS
Foam

HL
Foam

HD
Foam

Visco Pneumatic
Foam

BATCH BLOCK PRODUCTION

MOD. FP-400

SAFETY

EHS – Very high safety standards

FLEXIBILITY

Wide range of types of foams produced.
Blocks customization size and shape.
Possibility to completely customize the foam by creating unique formulations.



INDIVIDUAL DOSING SYSTEM

Base polyols, blends, additives and solids .

Each component has its own tank to make the process accurate and more flexible while minimizing raw material preparation times



HIGH PRECISION DOSING SYSTEM

To ensure accurate dosing and transfer of components allowing full recipe reproducibility.



PROCESS PARAMETER CONTROLS

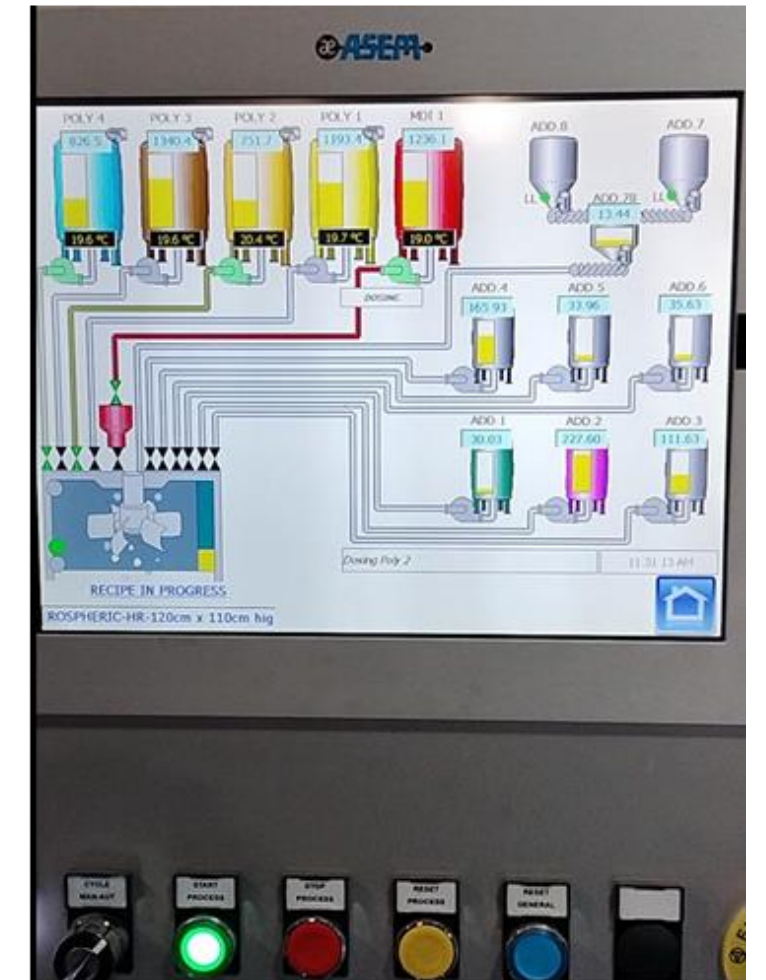
Customised touchscreen control panel to manage all process parameters.

QUALITY CONSISTENCY

By controlling foam expansion we ensure improved foam properties, squared blocks minimizing waste

EASY CLEANING

No chemical agents or water needed.
IBC support structure available to contain leaking.





A SOLUTION FOR EVERYONE



**Autonomous
Manufacturers**



**Slabstock
Manufacturers**



**System
houses**

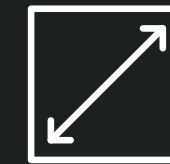
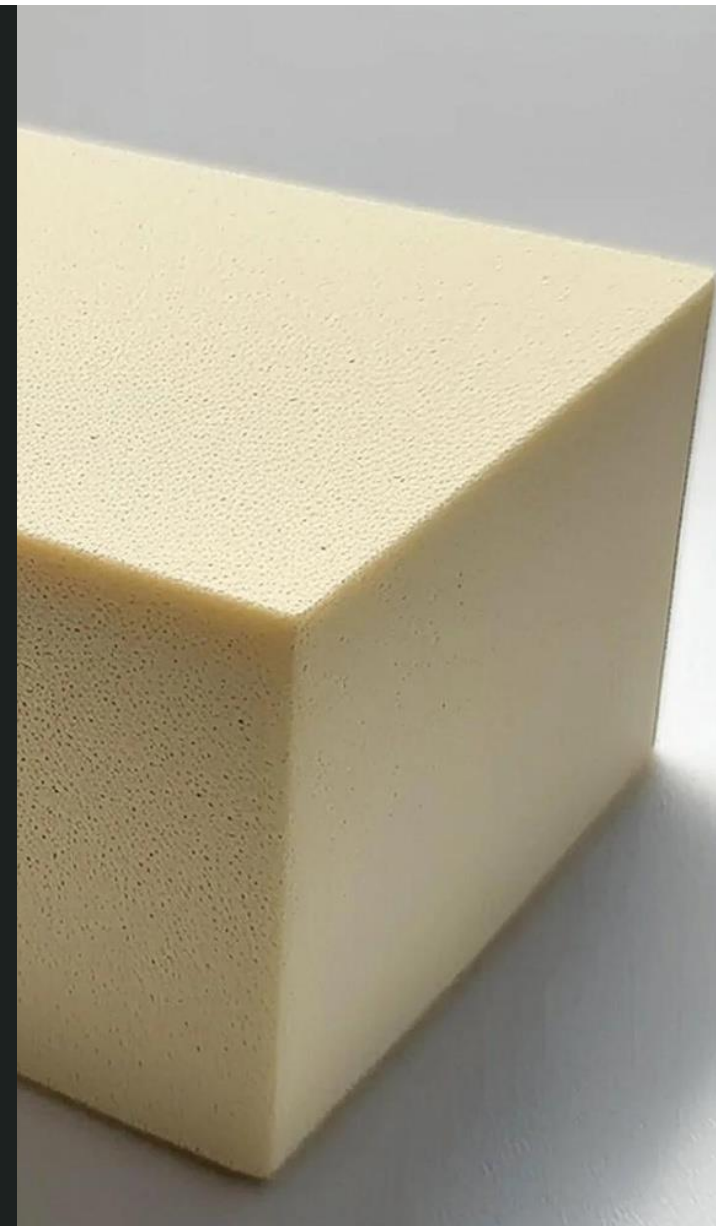
MAIN ADVANTAGES



**Create and
test foam
formulation**



**Just in time
production**



**Customize
block size and
shape**



**Increase
brand
differentiation**

Relevant Manufacturing Savings



Foam cost reduction
(from 20 to 30% less)



Low or zero
transportation costs



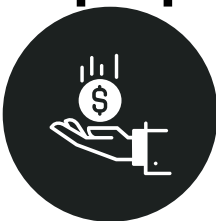
Quick return on
investment (less than 12
months)

Digitalization

Remote Access

Share data and reports with chemical suppliers to improve quality and production.

Brighi Technicians can also access the equipment for trouble shooting.



Chemical Components	Manufacturer Name	Dosing Volume (kg/min)	Viscosity (mPa.s)	Density (g/m)	Color
US-352P (POL)	Urethane Sciences	46	158	1,15	COLORLESS
CosyPur (ISO)	BASF	163	100	1,2	WHITE
PAPI23-HA (ISO)	DOW	76	50	1,1	BROWN
NIAX L-620 (SILICON)	MOMENTIVE	0,91	30	1,04	YELLOW
ZZDL-DABCO T9 (TIN)	EVONIK	0,16	250	1,25	PALE YELLOW
SUPRASEC 2332 (ISO)	Huntsman	70	90	1,2	BROWN
BLUE (Colour)	Milliken	0,508	900	1,1	BLUE
XG-100 (Graphite)	Peterson Chemicals	220	N/A	N/A	BLACK



THE CHALLENGE OF FOAM WASTE



Regulatory Pressure

Stricter rules on foam waste disposal and a push for circular economy models



Customer Demand

Buyers and end-users increasingly expect sustainable products with recycled content



Environmental Concern

Foam waste contributes to landfill overload due to its non-biodegradable nature

OUR SOLUTIONS FOR FOAM RECYCLING

SHREDDING

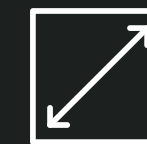


Reuse waste to be environmentally friendly and reduce waste disposal costs



Use as filling material or rebonded foam

REBONDING



Mix different types of foam waste achieving the desired density



Increase your brand differentiation with high quality recycled material

REBONDED LINE WORKFLOW



Viscoelastic Foam

HR Foam

HS Foam

HL Foam

HD Foam

and more..

SCIENTIFIC BLEND

of different types of foam and fabric
with our software

DOMINO
CONNECT THE DOTS



Генератор энергии
continuous loading

Chemicals and shredded foam blending station

Shredded foam blender

Dust collecting system

Double-chamber shredder

Technical Data

Avg input density: 1.5/1.8 pcf

Avg output density: 3.0/3.5 pcf

Shredder screen size: 1/8 inch

Production capacity: up to 1,200 lb/hr

Relevant Manufacturing Savings



Foam cost reduction
(replace virgin material
with recycled material)



Low or zero
transportation costs



Quick return on
investment (less than 12
months)



Thank you very much!

BOOTH #1706

www.brighigroup.com