

## BONDED FOAM PLANT (CHIP-FOAM)

TYPE BFE

FOR PRODUCTION OF RECONSTITUTED FOAM (BONDED FOAM)



*Module built Chip-Foam Plant Type BFE for environmental friendly recycling of PU scrap foam*

### Old foam problem - new foam product with HYMA technology.

HYMA technology can recycle flexible scrap foam into usable foam with BF Bonded Foam Plants. These are available in production models ranging from 2 blocks to 10 blocks per hour. BFH equipment can be supplied in a modular form with or without weighing box mounted above the mixer. The equipment can be fully automatic or manually operated.

In principle bonded foam is composed of about 90 percent foam granules (flexible scrap foam) and 10 percent chemicals, having reacted chemically with each other under pressure. The attractive bonded foam product that results has numerous uses, and is manufactured in densities from 40 to over 400 kilos per m<sup>3</sup>.

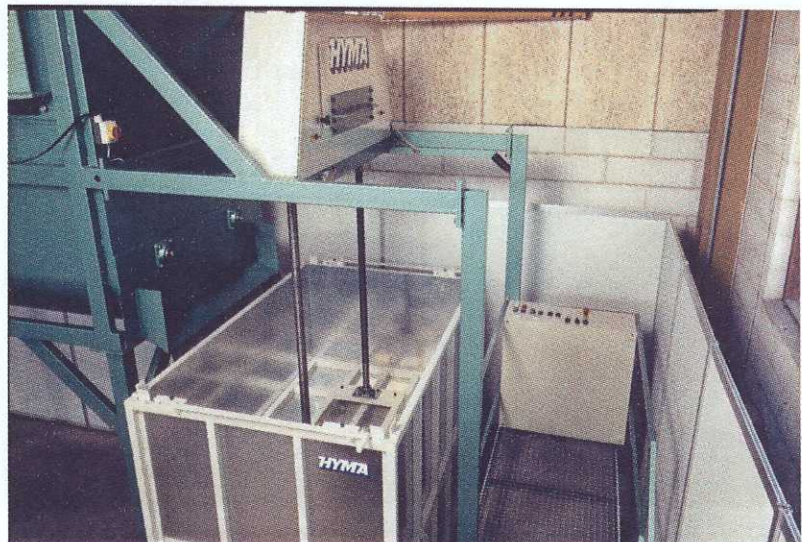
HYMA Chip-Foam Plant Type BFE is a small-sized manually operated

plant with low capacity and is based on the steam-cure system.

The reaction is accomplished by Prepolymer with steam acting as catalyst to the granule mixture.

This ensures a fast reaction and a quality endproduct.

Reconstituted foam requires a different reaction time for higher density than that of low density.



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The BFE plant consist of three main sections:

### GRANULE MIXER

Volume of 8 m<sup>3</sup>, and equipped with 2 reversible electrically powered screw agitators and piston operated outlet door for emptying the mixed content into the mould. The Mixer is equipped with an dust extraction filter top, which allows for transport of granules by means of air to the mixer. A work platform with control panel, equipped with controls for all electric functions, for dosage and operation of block press.

### BLOCK PRESS STATION

The block press is built together with the Mixer and the work platform, for convenient operation of emptying and compression. The press is actuated by means of electric power with double screw guides. Guide rails for positioning of mould and steam coupling is incorporated.

### BLOCK MOULD

The mould is constructed on a mobile bottom frame on four wheels, and when moved into the Press station it is fixed so the press-lid is in correct position during compression. The press-lid is pre-set to the desired height during the compression mode.

### STANDARD EQUIPMENT

- Filter top with granule dust extraction system
- Granule- and prepolymer Mixer with 2 reversible electric-motor powered screw agitators and electric operated outlet doors.
- HYMA Prepolymer system
- Mobile mould with two-parted sides and compressing topplate.
- Electric actuated block press with double guides, mould guide rails.
- Works platform with control panel, equipped with remote control for all functions.

### SPECIFICATIONS

Mixer volume: 8 m<sup>3</sup>  
 Standard mould dimension: 2070 x 1070 mm x H  
 Block dimensions, trimmed: 2000 x 1000 mm x H (max. 600)  
 Mixing capacity: 2-3 blocks/hour

### POWER SUPPLY:

380 V, 3 Phase, Neutral, 50/60 Hz, 15 kW.

### OPTIONAL EQUIPMENT

- Mould with alternative dimensions
- Electric hoist with automatic block gripper
- Drum heater (4 kW) for prepolymer, thermally controlled
- Floor scale with Weighing box
- Standard set of System ducting
- Alternative voltage.

IN OUR MACHINERY PROGRAMME FOR THE PROCESSING AND RECYCLING OF SCRAP FOAM YOU WILL ALSO FIND

- Steam Plant type BP
- Granulating Machine Type GMP
- Granule Silo System Type GFH
- Chip-Foam Plants Type BFS and BFH

Details available on request.

HYMA offers a Complete Service for the Foam Industry.



Chip-Foam Plant Type BFE with steam-cure system