

FOAM GRANULATING MACHINE TYPE GMP FOR FLEXIBLE- AND BONDED FOAM



HYMA Granulator types GMP-50 and Gmp-30 and controlstand.

When converting the flexible foam into final products, a considerable quantity of waste and cut off cannot be avoided. This material can be converted 100% into foam granules. The simplest and most economic equipment therefore is the thoroughly tested type GMP Granulating Machine (or Granulator), available in 5 different sizes, all with noise absorbing cabinets.

The HYMA Type GMP Granulator is designed and constructed to meet foam producers' demand for a heavy duty, durable and reliable unit for the conversion of valueless foam scrap into attractive, higher-priced foam granule material.

The foam granules can be used for cushion- and pillow filling etc., or for further conversion into chip foam.

Thousands of GMP's are in satisfactory and profitable operation all over the world, and thus also under extreme conditions, and appreciated for:

- *durable and reliable performance*
- *easy handling and operation*
- *continuous and undisturbed production under extreme conditions*
- *heavy duty construction*
- *minimum of maintenance*

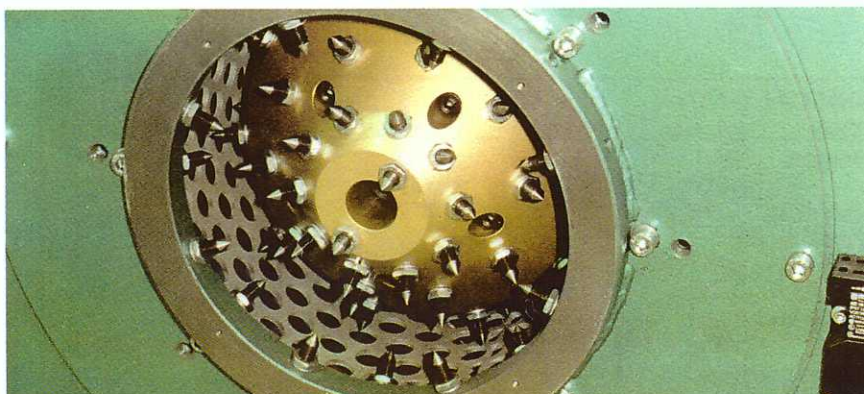
The HYMA GMP machine has the following essential design features:

- Large circular insertion conically shaped so that the tearing effect is optimized from the original dimension of the foam to the final granule.
- Independent oil greased bearings for rotor shaft.
- Larger types has belt drive between rotor shaft and motor, which protects motor against heating and jolts from rotor unit.
- Exchangable chrome-nickel spikes in granulator-head.
- Interchangeable sieves with fixed holes in hole diameter suiting selected size of the granule.

The GMP Granulator has been specially constructed for the granulating of flexible foam, and with the minimum of moving parts. The rotating granulator-head is equipped with exchangeable chrome-nickel spikes, and is almost free from maintenance.

The GMP Granulator is less sensible for damage in case of small stones, metal particles etc. entering the machine together with the foam scrap.

The GMP Granulator is as standard equipped with a sieve with fixed holes. For the production of other size granules, the interchangeable sieve system makes it possible to mount sieves with desired hole diameter.



The rotating granulator-head with spikes and sieve system.

The company policy aims at continuous improvement of the products, and therefore all rights to change the design and specifications without notice are reserved.

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HYMA

COMPLETE SERVICE FOR THE FOAM INDUSTRY

FOAM GRANULATING MACHINE TYPE GMP FOR FLEXIBLE- AND BONDED FOAM

The type GMP Granulating Machine is available in models to meet with your requirements as regards productive capacity, and equipped for your particular needs.

STANDARD EQUIPMENT:

- Electric motor with thermistor control, indication light and automatic cut-off on overheating.
- Conical rotating granulating head with chrome-nickel spikes and belt transmission drive. (TYPE GMP-50, GMP-75 and GMP-100).
- Conical rotating granulating head with chrome-nickel spikes and direct motor-drive. (TYPE GMP-20 AND GMP-30).
- Interchangeable sieve with fixed hole diameter.
- Built-in granule conveying blower.
- Sound suppressed cabinet and feed hopper.
- Free-standing control panel with motor starter.

The stated capacity of the machine is with sieve with 20 mm holes, and reduction of the hole size will result in reduced output capacity. Sieves with holes 6-8 mm in diameter will easily result in impractical overfeeding of the machine.

If finer granules is a requirement, this can be obtained by install two granulating machines in series, so that the first one makes rather big granules, and feeds the next machine, which makes the final product in desired granule size.

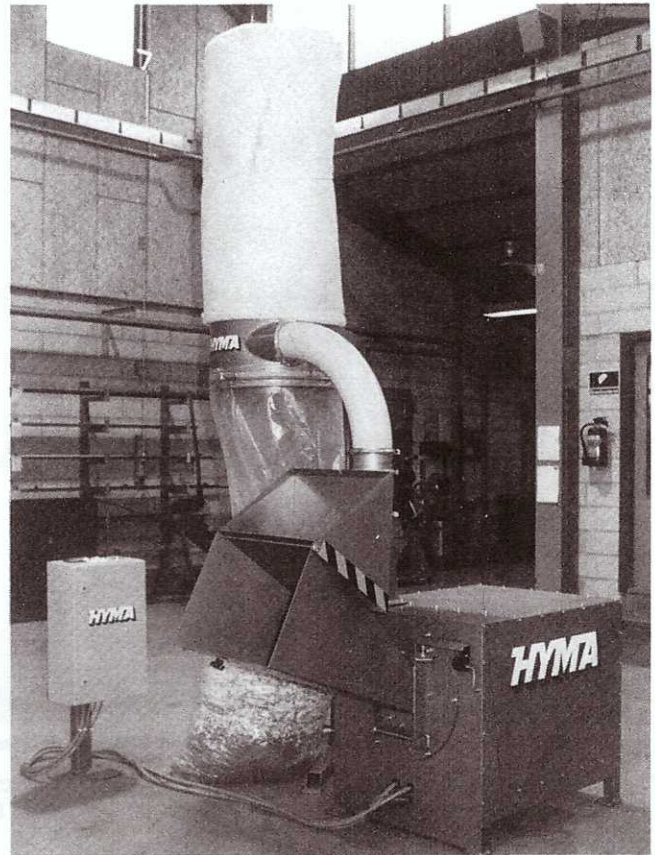
To obtain even better result, the number two granulator may be replaced by a Prebreaker type GBP or a Hammer-Mill type GMH.

Large outputs of granules of different sizes and/or qualities require separate storing facilities, and therefore the HYMA type GFH Silo Unit is strongly recommended.

The GMP's can be easily connected to other units from the HYMA programme, e.g. Silo Filling Units of all sizes, Sack-Fillers, Filling-tables, Cushion/Pillow Filling Lines etc.

By means of the built-in blower, the foam granules can be transported in a transport-tube over considerable distances and the filling can be executed directly into sacks, thereby avoiding further handling of the granules.

Another possibility is to transport the granules for storage in a silo and from the silo the granules can then be taken out for filling, when convenient.



The HYMA GMP-30 Granulating Machine with Sack filling unit.

OPTIONAL EQUIPMENT:

- E01- Interchangeable sieves with fixed hole diameters: 6, 8, 10, 12, 15, 20 or 25 mm. Please specify E01-06, E01-08, E01-10 etc, last no indicating dimension of holes.
- E02 Adjustable sieve system (GMP-20 and GMP-30 only).
- E03A Free-standing Single-head Sack Filler.
- E03B Free-standing Double-head Sack Filler.
- E04 Different Voltage and Cycles.

SUPPLEMENTARY EQUIPMENT

Foam waste can be made into valuable product by converting into foam granules for cushion filling etc.

The simplest way is to use a GMP together with a sackfiller for polyethylene bags.

Silo Filling Plant GFH is a machine with great capacity for filling granules into pillows and mattresses as it can be equipped with up to 4 filling stations and other equipment, and can further be built up into any height required.

With HYMA Bonded Foam Plant BFH the granules can be converted into new foam blocks of densities 40 to 400 kg per cbm, which can be cut up for many purposes.

BFH Bonded foam plant operated by one person.

Spaghetti Machine, type SPH, which has an in-built blower for connection to silo or sack-filler. The SPH can optional be delivered with either 2 or 3 cutting-units for operation. Can be supplied with cutting width 4 - 8 or 12 mm.

Hydraulic Bale Press, type HPH for unconverted foam waste.

HYMA also offers a full range of manual and automatic operated vertical, horizontal and bevel angle cutting machines specially designed for optimal conversion of flexible, rigid and bonded foam. Contact us for further information.

TECHNICAL DATA

FOR TYPE:	GMP-20	GMP-30	GMP-50	GMP-75	GMP-100
Electric motor	20HP 15KW	30HP 22KW	50HP 37KW	75HP 55KW	100HP 74KW
Sieve hole diam.:	20mm	20mm	20mm	20mm	20mm
Feed hopper opening:					
Top:(mm)	425x515	425x515	460x470	460x470	460x470
Bottom: (mm)	160x210	160x210	D=270	D=270	D=270
Capacity per hour, (approx.):	120kg	185kg	300kg	500kg	700kg
Power supply (all types):	380 V, Three Phases, Neutral, 50 Cycles				

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