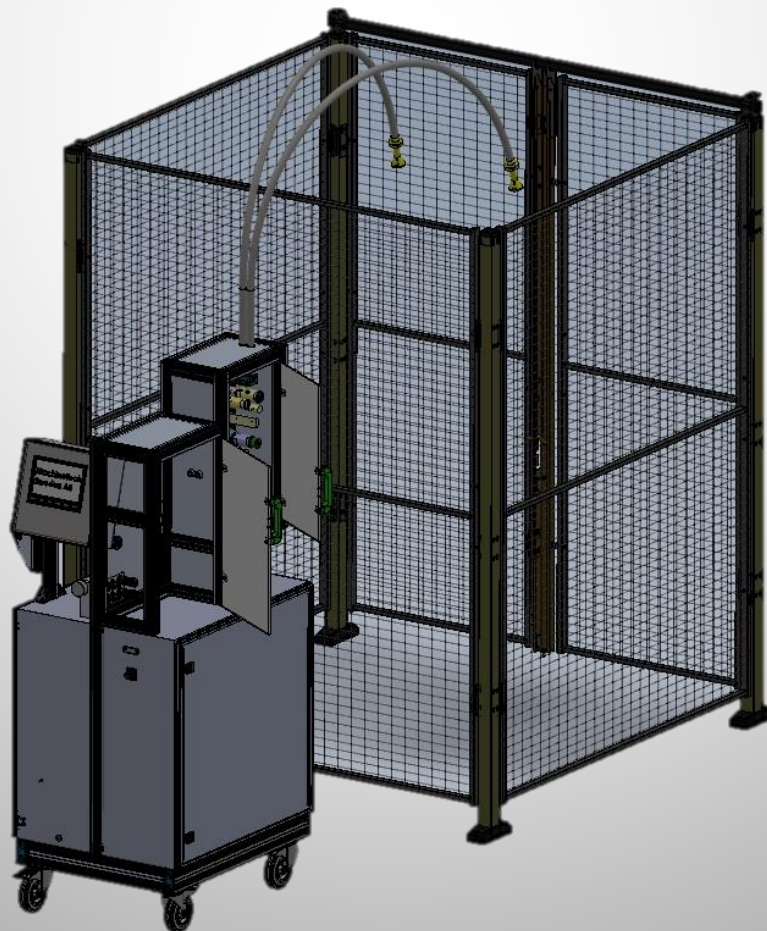




Glass-Fiber Texturizing & Filling Equipment

For Mufflers and Sound Dampening Applications



Fillex – Manual Filling Machine



Fillex – Manual Filing Machine

Machine Description

Fillex –Manual Filling Machine is designed to texturize glass fibre roving and inject directly into any shape of container with the help of our custom designed glass-fiber texturizing nozzle. The term “texturizing” is associated with the modification of the physical arrangement of glass fiber filaments, so they offer optimized sound absorbing performance.

Fillex – Manual Filling Machine is a manually operated machine and has capacity to drive 2 glass fibre strands, and blow simultaneously with one nozzle or two nozzles operation, depending upon the application, in order to increase productivity. Machine requires an operator to hold the nozzle during the filling operation and to press the integrated start button on the handheld nozzle to initiate the filling cycle.

Fillex – Manual Filling Machine is based on Control panel (HMI) & PLC system that allows the recipe management and has ability to save up to 100 recipes in the integrated memory. Recipes can be saved as production part number, and it is possible to have one recipe with up to 4 filling cycles, which means upto 4 different amounts of fiber in 4 filling cycles (1 filling = 1 amount of fiber). This helps to produce either more than one part number in which each part has different amounts of fiber to fill or to fill more than one cavity with different amounts of fiber in one part number.

Fillex – Glass fiber filling machines are being engineered with sole purpose to provide best to our customers. Fillex – Manual Filling Machine is CE marked product according to CE Machinery Directive 2006/42/EC. Fillex – Manual Filling Machine can also be customized with additional accessories according to the specific requirements, choice of Components, or application area.

Key Features:

- 2 strands of glass fiber roving
- PLC system
- HMI & Recipe management
- CE marked
- Dust proof electro static sensors
- Intelligent safety
- Possible to customize
- Equipped to connect vaccum fan
- Hand and/or pedal operation
- Siemens or Allen Bradley PLC and Control panel.

Applications:

- Exotic passenger cars
- Commercial vehicles
- Two & three wheelers
- Glass-fiber pre-forms for silencers
- Pre-forms for sound insulations
- Industrial silencer filling
- Silencer filling for power engines
- Non-automotive
- Aftermarket
- Marine



Fillex – Manual Filling Machine

Machine Operation:

The fiber glass roving is fed to the feeding unit of machine directly from the pallet(s) and it is operated by a motor drive and controlled by a PLC system along with a programmable frequency convertor. The required amount of the texturized fiber glass (in grams) is entered in the recipe system through the touch panel (HMI). It is required to start the cycle by the operator, but cycle will stop automatically.

The equipment requires an operator – manually operated in the following sequence:

- An operator can start a sequence in two ways-
 1. With a start button located on the panel.
 2. With an integrated button in the hand held nozzle.
- and glass-fibre thread is pulled by the feed roller in feeding unit.
- The feeding unit automatically measures amount of feed compared to the desired amount entered through the HMI.
- Once the amount is reached the equipment stops and the thread is cut automatically in the cutting device attached to the nozzle.
- The sequence is finished and the equipment is ready for the next filling cycle.

Filling Specifications & Glass fiber rovings:

Filling Specifications:

Glass-fibre filament 4800 G/km Tex @ 50Hz

One Nozzle operation

~ **30.4 g/sec**
~ 6.3 m/sec.
~ 22.8 Km/h

Two Nozzles Operation

~ **60.8 g/sec**
~ 12.7 m/sec
~ 45.6 Km/h

Glass-fibre rovings:

All models fabricated by MachineTech Sweden have the capability to drive different Tex. values of glass-fibre roving i.e. 2400 Tex., 4800 Tex., 7000 Tex.

Glass-fibre filament 7000 G/km Tex @ 50Hz

One Nozzle operation

~ **50.2 g/sec**
~ 7.1 m/sec.
~ 25.8 Km/h

Two Nozzles Oepration

~ **100.4 g/sec**
~ 14.3 m/sec
~ 51.6 Km/h

Energies connection:

Electrical connection:	400V, 50/60 Hz (for EU)
Pneumatic connection:	1.5 inches
Air supply:	6,5 – 7 bar

* Machine tolerance \pm 5%



MachineTech Sweden AB
Fabriksvägen 33
375 30 Mörrum
Sweden

Phone: +46 451 38 41 80
Email: info@machinotech.se
Web: www.machinotech.se

www.machinotech.se

* The specification and key features described in this product sheet may deviate slightly. Due to ongoing innovation and R&D enhancement MachineTech Sweden AB reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.