



## DRY MATIC LINE

**AUTOMATIC LINE, ELECTRONICALLY DRIVEN:** for powder/foam extinguishers filling, screwing, pressurizing, labelling/silk printing and leakage testing operations. Such a line allows to join several full-automatic units, by means of a conveyor belt (equipped with free/frictioned rolls and fitted with both pallets and extinguisher adopters); the whole line is electronically driven. By this arrangement it's possible to fill 160/180 extinguishers of 6 kg./hour abt. (with one filling head) 280/300 extinguishers of 6 kg./hour abt. (with two filling heads).  
This line needs N° 1-2 operators.

### Main Parts:

#### CONVEYOR BELT, ROLLS-EQUIPPED

special design for both pallets and adopters handling, safety protections equipped and made up of :

- Conveyor belt inox steel rolls equipped (dia. 50 mm)
- Electric motoreducers
- Pneumatic stoppers, for adapters run-stopping
- Electronic proximities
- Polyzone pallets, size 200x350 mm
- Adapters, properly sized according to extinguisher dimensions

#### Technical characteristics

- Belt speed : 9 m/min.
- Motoreducer : 380V, 50Hz, three-phase
- Frame : anodized alum sheet
- Roll : stainless steel made

**No 1-2 (or more) TANK** (2500 kg/ea.) - tanks for powder both storage and handling, equipped with:

- Electric motovibrators, mass-adjustable
- Electronic level sensors, for powder high/low level checking
- Powder recovery system:
- No 1-2 (or more) recovery hoppers, with filters, valves and pipes

- Filters, with automatic self-cleaning feature
- Special vacuum valves, pneumatically driven

**BIG-BAG EMPTYING SYSTEM** - special hopper, for powder storing from big-bags of 1,000 kg – see technical data-sheet.

**No 1-2 VACUUM PUMP BOX** - for both powder transferring and extinguishers filling, equipped with:

- Oil-recirculation vacuum pumps, with antipollution devices
- Absolute filters
- Pumps end-filters

#### Technical characteristics

- Wiring: 380V, 50Hz, three-phase (other wiring on request)
- Power installed: 4.4 kW each
- Pumping rate: 160 m<sup>3</sup>/h
- Dimensions (ea.): 1,400x650 mm ht 1450 mm

#### ELECTRIC/ELECTRONIC LINE CONTROL-BOX

sheet box, epoxy powder painted, containing :

- Electronic instruments for vacuum control
- Electronic display for powder filling control
- Electronic display for water/foam filling control
- Electronic display for screwing torque control
- Electronic display for pressurization control, transducer-equipped
- Auxiliary relays, safety thermal relays, contactors for electric engine control
- Pilot and warning lamps
- Control gauges for both vacuum and compressed air
- Auxiliary devices
- Electronic programmer (PLC Siemens)
- PANEL VIEW Siemens, for manual/automatic line control
- Software engineering and licence



# DRY MATIC LINE



## TECHNICAL CHARACTERISTICS

- Wiring: 380V, 50Hz, three-phase (other wiring on request)
- Output control circuit: 24V AC
- Output control electronic circuit: 24V DC
- Dimensions: 800x600 mm ht 2,000 mm
- Colour: RAL 7032

## AUTOMATIC WATER/FOAM FILLING UNIT

- full-automatic equipment for water/foam filling, made up of:

- Electric panels, equipped with electronic weight display
- Digital adjusters
- Foam suction pump
- Water/foam pneumatic solenoid valves
- Special filling device with inox valves, inox nozzles and safety microswitches
- Loading cells
- Safety devices (safety grille)



**MATIC FILL ELECTRONIC UNIT** - full-automatic version, specially designed for a rolls-equipped conveyor and made up of:

- No 1-2 filling head, inox made
- No 1-2 loading cell, for doser scale
- Vacuum control instruments
- Pneumatic box, solenoid valves equipped
- Ultra-sounds devices and proximities, for extinguisher interception
- Belt-joining special device
- Pneumatic cylinders for the extinguisher vertical handling inside the working area
- Safety devices (safety grille)

## TECHNICAL CHARACTERISTICS

- Pneumatic feeding : 6 bar
- Filling rate (theoretical) : 160/180 piece/h abt. (one filling heads)  
280/300 piece/h abt. (two filling heads)
- Dimensions : 1,000x700 mm ht 2,000 mm
- Colour : RAL 7032



**VIBRATING TABLE** - pneumatic special device, properly designed to fluidize, by a plate vibration, any packed powder inside the estinguishers. It's made up of:

- Alum frame
- Pneumatic vibrator
- Pneumatic clamp, to lock extinguisher during

the fitting operation

- Shock absorbers
- Pneumatic box, solenoid valves equipped
- Proximity, for the extinguisher interception
- Belt-joining special device
- Stoppers, inside the working area
- Safety devices (bi-manual pushbuttons for jaws closure)

**SCREWING UNIT** - made up of:

- Steel structure, epoxy powders painted
- Self-centring vice
- Screwing electric device, with pneumatic lowering, fitted with:
  - Self-braking and self-positioning motoreducer
  - Electronic device for screwing torque managing, to interface the electronic instrument inside the control box
- Motoreducer speed adjuster (inverter), for a proper torque set
- Pneumatic box, solenoid valves equipped
- Belt-joining special device
- Stoppers, inside the working area
- Safety devices (safety grille)
- Screwing key (size on request)



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### TECHNICAL CHARACTERISTICS

- Motoreducer: self-braking
- Power installed: 0.5 kW
- Compressed air supply: 6 bar
- Screwing torque: electronically adjustable, up to 60 Nw/m
- Lock device: self-centering clamp
- Handle positioning: electronic sensor
- Dimensions: 1,000x1,000 mm ht. 2,000 mm
- Colour :RAL 7032

### PRESSURIZING UNIT - made up of :

- Steel frame, epoxy powders painted
- Pneumatic cylinder, ways-equipped, for pressurizing head insertion into the valve
- No 1 Nitrogen injector, pneumatic thruster driven
- No 1 pneumatic device, for handle opening
- Electropneumatic interception valve
- Pressure electronic transducer, to interface the electronic instrument inside the control box
- Magnetic safety sensors
- Pneumatic box, solenoid valves equipped
- Ultra-sounds device and proximity, for the extinguisher interception
- Belt-joining special device
- Safety devices (safety grille)

### TECHNICAL CHARACTERISTICS

- Compressed air supply: 6 bar
- Nitrogen feeding: adjustable up to 25 bar
- Nitrogen injector: electronic, pressure transducer equipped
- Dimensions: 1,000x1,000 mm ht. 2,000 mm

### AUTOMATIC He LEAK CHECKING UNIT

- see data sheet

### LABELLING STATION

- see data sheet

### SILK PRINTING AND STOVE UNITS

- see data sheet

