

Spray technology

The spray solution for warm chamber and cold chamber diecasting machines



Pomac Automation

Sprayer

Die sprayer Model 509

Pomac's model 509 is the economical spray solution for the warm chamber and small cold chamber diecasting machines!

The unit is fully electric servodriven with a maximum vertical speed of max 2.8 m/s and with an accuracy of 0.2 mm.

The main guidings of the beltdriven movable part as well as this part itself are made of stainless steel, thus offering the highest protection. Usually the unit is equipped with Pomac's manifolds for the warm chamber or cold chamber diecasting machines, but manifolds of other makes can easily be adapted.

Main features:

- Space saving compact design
- Up to 10 or 20 spray positions programmable
- Extra repeat movements between positions
- 1 or 2 spray channels, 1 or 2 blow channels
- Own diagnostics with error display
- User friendly programming
- Robust industrial controller
- Pedestal with manual vertical and horizontal adjustment and swing
- 500, 600, 700, 800 and 900 mm. max. strokes available

Installation on:

- Warm chamber: Full range from 40 tons closing force and up
- Cold chamber: 100 ton up to 340 ton closing force



Die sprayer Model 410



- Fast
- Accurate
- Reliable

Technical data and handling

- Robust light and simple, construction
- Highly resistible linear bearings with automatic central lubrication
- AC SERVO 2-axes
- Direct drive through pinion and gear rack
- Max. speed up to 2 m/s
- High process security due to constant spraying parameters

Model 410

- Max.weight for spraymanifold up to 60 kg.
- 2 axes with point to point movement
- Repeatability: 0,4 mm

Main Control

Reliable PLC control in combination with digital servodrives built in a floormounted panel with own ventilation.

Operator control

Easy, convenient , reliable and safe

Portable operator device

- Graphic touch screen programming with graphics and plain text
- Auto teach, logging and display of current process
- Warning messages and die memory
- 4 Digital I/O free-programmable besides the many standard interfaces for the DCM



Technical Data

Dimensions

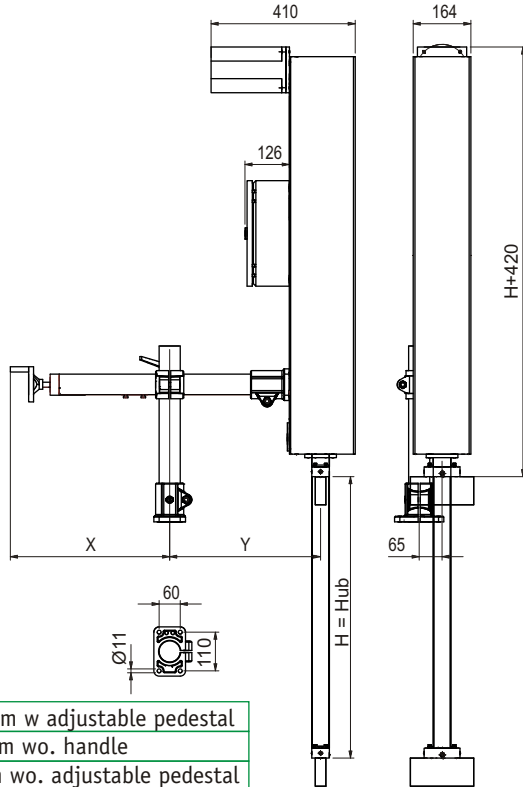
Panel 509 wallmounted dim. 400 x 400 x 150 mm
 Panel 410 floormounted dim. 1800 x 600 x 500 mm

Power connections

Model 509 : 230V single phase 16 Amps.
 Model 410 : 400V three phase 12 Amps.

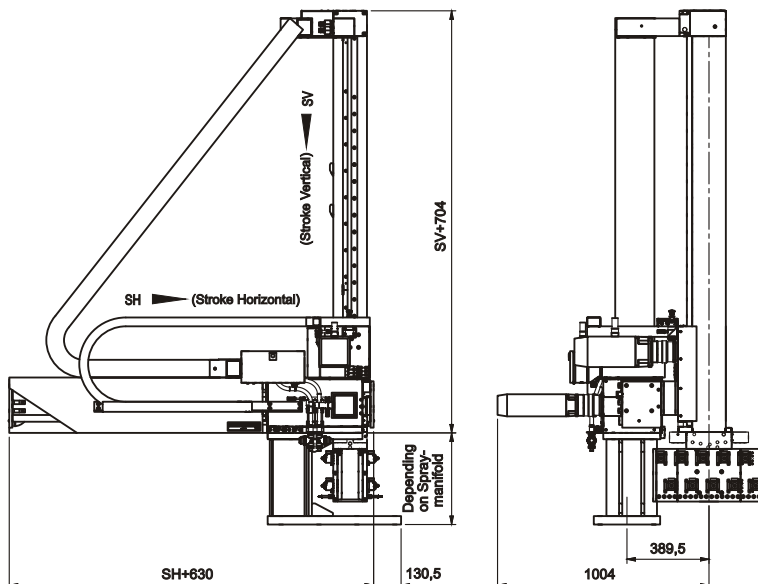
General Dimensions

509



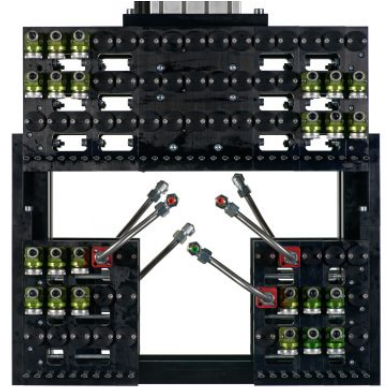
X = min 300 mm w adjustable pedestal min 180 mm wo. handle
min 50 mm wo. adjustable pedestal
Y = max 500 mm, min 250 mm

410



Model 032 Plate manifold

- Quick assembly and tuning
- Only 2 spray plates per die
- Easy adaptable
- High agent flow rates



Liquid supply Mixing unit

Mixing unit with pressure booster to supply the needed water based spray liquid with the right ratio of mixing and pressure to the spraying device. The unit is connected directly to the water line and the concentrate barrel.

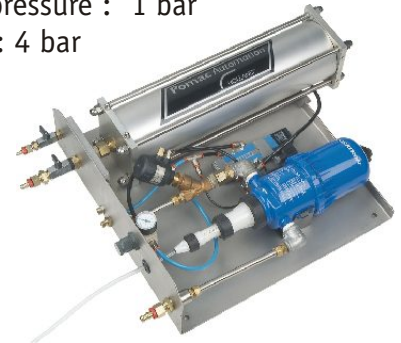
The unit is based upon the well-known "Dosatron" mixing pump with a 3 to 5-liter booster unit, all mounted on a stainless steel plate. Mixing ratio as well as output pressure are adjustable independently from water input pressure (ratio 0.1 to 5, output pressure from 2.5 to max. 6 bar).

Dimensions for wallmounting : 500 x 500 x 200 mm deep

Min. water inlet pressure : 1 bar

Min. air pressure : 4 bar

Valve : 24 VDC



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Note: 410 Strokelenlengths depending on D.C.M.