

## Description

The machine is designed for etching and cleaning of silicon tubes and various small parts. The machine can operate with tubes up to 300mm in diameter and from 1450mm to 2765mm in length. Etching solution is automatically mixed from deionised water, hydrofluoric and nitric acid according to preset recipe.

Features:

- manipulator with an arm controlled by buttons
- automatic preparation of etching solution in preset volume and concentration of each component
- two containers for preparing and storing of etching solution with continuous measuring of amount solution stored, maximum liquid level sensor and rinsing jets, all made of PVDF
- large etching bath with tube rotating mechanism and maximum and minimum liquid level sensors, made of PVDF
- small etching bath for little parts with maximum and minimum liquid level sensors, made of PVDF
- also provides possibility of etching and cleaning of silicon tubes only from inside by etching jet and tubes rotation
- drying by heated filtrated nitrogen with optional rotation of the tube
- circulation units above working space
- manual showers and aspirators for maintenance, illuminated working space, automatic front cover controlled by button
- PLC with touch screen secures:
  - control, regulation and safety functions during manufacture process
  - setting and control of process parameters, selection of etching technological recipe and service rinsing procedures
  - control of pneumatic and hydraulic active parts
  - display of actual conditions and operation modes of the machine



## Proportions and specification

Height: 2480 mm  
 Width: 4050 mm  
 Length : 1391 mm  
 Weight: 1600 kg

