

# GRUNIG

Made in Switzerland

G 11L

## Automatic screen cleaning machine (EX)



Grünig-Interscreen AG  
CH - 3150 Schwarzenburg  
Switzerland

**SMA**  
screen printing in focus

Telefon: ++41 -31 734 26 00  
Telefax: ++41 -31 734 26 01  
E - mail: mail@grunig.ch  
Internet: www.grunig.ch

# G-11L Automatic screen cleaning machine (EX)

## Application

The G-11L machine is used for cleaning the ink from screen printing stencils by means of solvents (ignition point > 40°C). This machine can not be used for degreasing, developing or decoating.

## Basic model

- The chassis of the screen cleaning machine is a welded construction made of chromium steel sheet V2A (WST 1.4301 stainless steel).
  - The roller door and the carriage are motorized by means of special stainless steel chains. The drive units are protected by sliding clutches.
  - The solvent is sprayed on by a double membrane pump using fan jet nozzles.
  - In order to reduce the quantity of solvent, the width of the machine can be divided into sectors A, B and C.
  - All the nozzles have been arranged in such a manner as to cover the entire surface when the solvent is sprayed onto the screens.
  - The pressure resp. the quantity of the solvent can be adjusted by means of a pressure regulator in the machine room.
- After the cleaning process the solvent is collected in a chromium steel tank below the machine. This chromium steel tank is divided into two basins (pre-washing and rinsing). By means of a flap the solvent which flows in is conducted to the respective basin (depending on the work process).
- The screen frames are placed into the wash bay from the front (front loader).
- In this case the width of the machine is only slightly bigger than the screen frame width, compared to a machine where the screen frames are inserted from the side.
- The roller door can be completely opened. This allows a simple and efficient cleaning and maintenance of the entire wash bay and of the nozzles.
  - All the electric and electronic componentry modules in the zones 0 and 1 answer the requirements of the explosion protection regulations.
  - The machine has been tested by the TÜV (German safety authorities).

## Accessories

- 1 control cabinet without explosion protection
- 2 screen frame holders
- 1 squeegee wash basket
- 1 discharge filter
- 1 air connection complete
- Operating manual with CE declaration

## Programs

- 1 - 3 all three programs freely programmable (i.e. the number of moves and the speed)

## Control

- PLC the most up-to-date processor-based programmable logic control with EEPROM memory; the RS-232 interface is already installed.
- FUF fully digitized frequency converter for the motor control.

## Option D Distillation version

The G-11L machine can be connected to any self-priming solvent distillation installation. The necessary connections have been prepared at the factory.

The distillation installation suctions the dirty solvent from the chromium steel tank; after the distillation process the solvent flows back into the rinsing tank below the G-11L machine. This system allows to continue using the same solvent; only the evaporated and lost solvent has to be replaced. This version represents a valuable contribution to the environmental protection.

## Option T

The solvent which remains in the screen after the cleaning process can be blown out by air nozzles. These nozzles have been arranged in such a way that the air stream blows the solvent out of the screen.

## Option H

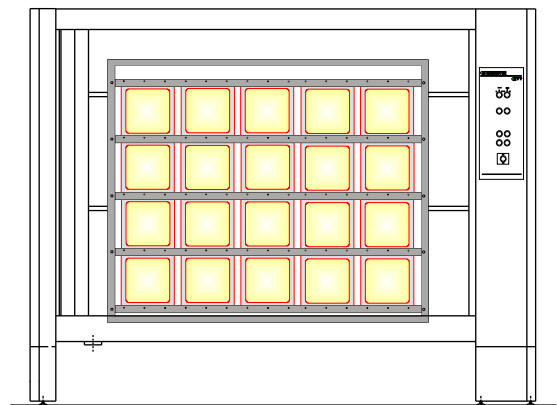
System for solvent handling

## Option Z

Additional screen frame holder

## Option M

Master-Frame for 16 - 20 CD-screen frames



Technical data subject to change without notice



The machine answers the requirements of the EU guidelines for machinery (CE-conformity).

Screen frame size	Screen frame width (SB)	mm	1500 - 5000
	Screen frame height (SH)	mm	1400 - 2400
	Frame profile thickness	mm	10 - 55
Index of options	D Distillation		
	T Air nozzle drying		
	H System for solvent handling		
	Z Screen frame holder		
Overall size	Total width	mm	SB + 1170
	Total height chassis	mm	SH + 368
	Total height (with socle)	mm	SH + 750
	Total depth	mm	750
	Energy supply	3 x 400 V / 3 x 220 V / 50-60 Hz	
Compressed air	Connection value	bar	8
	consumption	m <sup>3</sup> /h	35
	consumption ( option T )	m <sup>3</sup> /h	120
Exhaust air	Ventilator capacity	m <sup>3</sup> /h	720-1440
	Nominal pressure	pascal (5,0 mbar)	500
	Speed of exhaust air	m/sec	22,4
Solvent pumping capacity (adjustable quantity)	lit/min		50-80
Permanent sound pressure level	dB (A)		< 75

