

General Specifications

Overall Dimensions

See layout internal pages

Electrical Requirements

Power Type	single phase + Ground
50/60Hz	
Power Consumption	2,0 kW
Nominal Voltage *	230V ±7%

Compressed Air

Consumption (max)	300 NI/min.
Working Pressure	5,5÷6 kg/cm ² (80÷87 psi)
Exhaust by stand alone box	600÷1200 cfm

Weight	A24	M24	SA24
Gross:	1100 kg (2425,09 lbs.)	950 kg (2094,39 lbs.)	1100 kg (2425,09 lbs.)
Net:	900 kg (1984,16 lbs.)	750 kg (1653,47 lbs.)	900 kg (1984,16 lbs.)

* Different voltage can be provided upon request.

Operation Features

Panel size

Thickness	Width (max)	Length	Material
1,6÷4,5 mm	630 mm	250÷700 mm	FR4
1,0÷1,5 mm	530 mm	250÷700 mm	FR4
0,8÷0,9 mm	460 mm	250÷700 mm	FR4

Conveyor (Adjustment)

Conveyor Height	950÷1050 mm (37.4÷41.3 in.)
Unloader configuration	980÷1020 mm (38.6÷40.2 in.)
Process speed	0,3 to 2mt/min.

Guns Spray system

Spray Guns	2
Pressure	0,5 ÷ 2,5 bar
Temperature (max.)	up to 80°C
Needle: 0,7 mm	Viscosity suggested with this needle should be <= than 60 sec.
Needle: 1 mm	Viscosity suggested with this needle should be >= than 60 sec.

Touch Screen Display

Industrial touch PC/Display 10"

Cleaning Room Working Condition

Room temperature (max.)	22°C (71.6°F)
Room humidity (max.)	50%

Process

- Single or double sides process
- Stand alone exhaust motor box - RPM adjustment by display
- Automatic product drain out cleaning at end work
- Removable lower tray for waste product
- Operation direction: Right to Left
- Cleaning guns section

Option

- Automatic change color for one channel
- Solder level alarm
- Independent box for exhaust
- Barcode reader



DYNACHEM

AUTOMATIC LAMINATION TECHNOLOGIES

Where Innovation is Nothing New



Description

Automatic Lamination Technologies has developed the SmartSpray series S2 setting a new trend in PCB Soldermask spraying technology by horizontal coating. The board detection system allow the automatic spraying of single or double sides. The innovative solution of our nozzles provide advantages in precision film coating application on circuit boards. It is ideal for small to medium size printed circuit board manufacturers, who makes frequent product changeovers.

Our range of spray systems accommodates most PCB manufacturer's needs from stand-alone to in line systems.

We offer the utmost performance in quality, consistency and production speed for all types of solder mask, coatings and substrates.



DISTRIBUTOR

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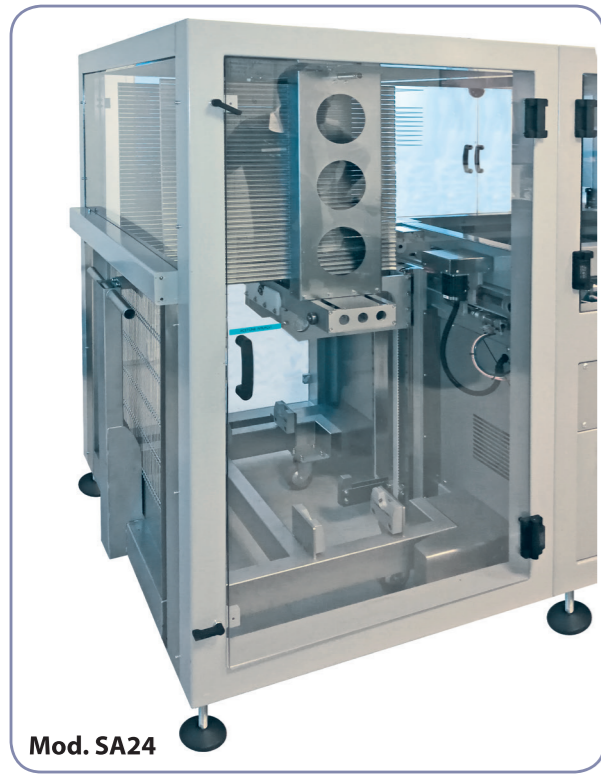
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For Imaging Materials Applications

SMART SPRAY series S2

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SmartSpray_EN20_Rev00
Gen 2020



Unloader module for 40 position



Cleaning guns section



Ink level alarm (for two tank)

- Machine models:**
- A24-S2 automatic unit
 - M24-S2 manual unit
 - SA24-S2 stand-alone unit

Mod. SA24

PATENT PEND.

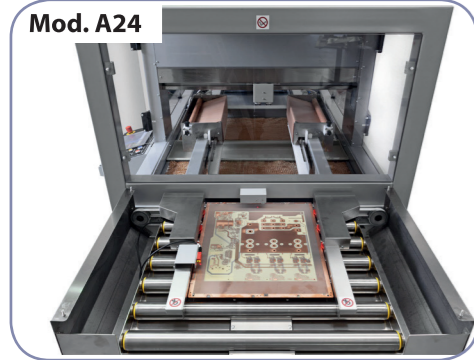
Mod. M24

Entrance section



Mod. A24

PATENT PEND.

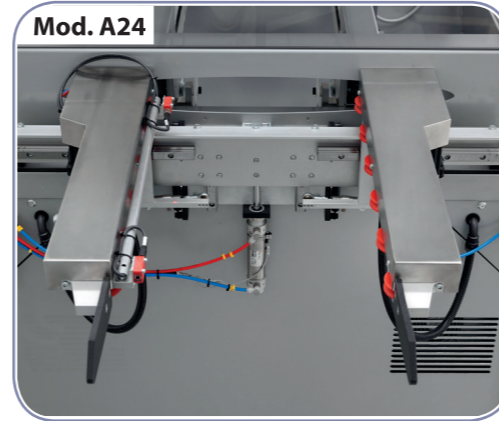


Entrance Centering soft unit



Roll To Roll paper system for over spray protection

Mod. A24

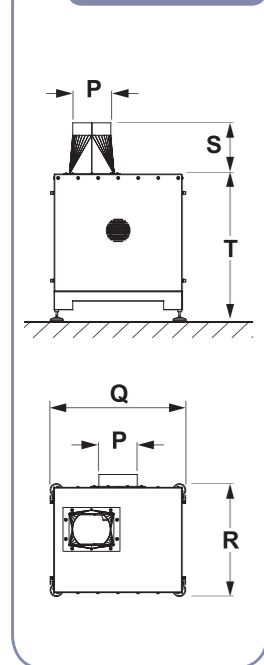


Exit Feeder system to Oven

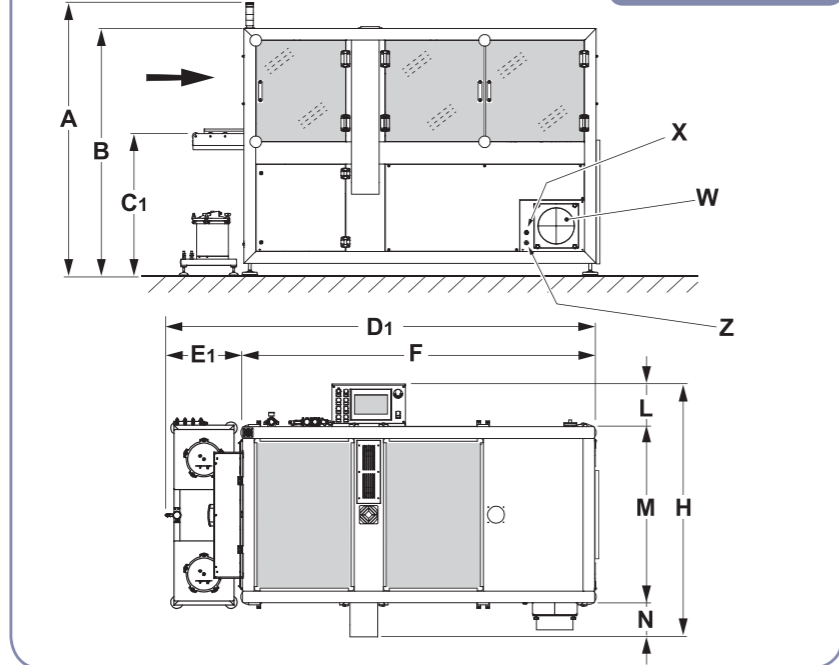
Advantages

- Comply with industry 4.0
- Automatic set-up of the parameters
- Simple, Easy & Quick maintenance
- Single or double sides process
- High precision guns transmission system
- Heating spray circuit
- Automatic panel width reading
- Input conveyor with centering unit
- Exit Feeder to Oven with soft pressure
- HMI Display Touchscreen 10"
- Pre set for barcode reading
- Cleaning guns section
- Lateral Roll to Roll paper protection system
- Automatic color change for one channel
- Solder level alarm (option)
- Independent box for exhaust (option)

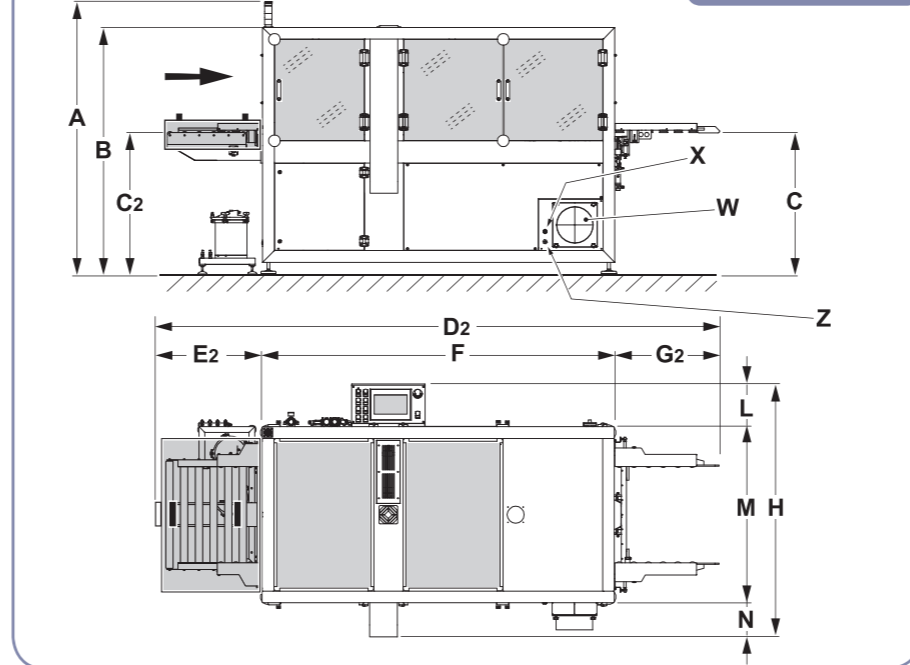
Extraction fan



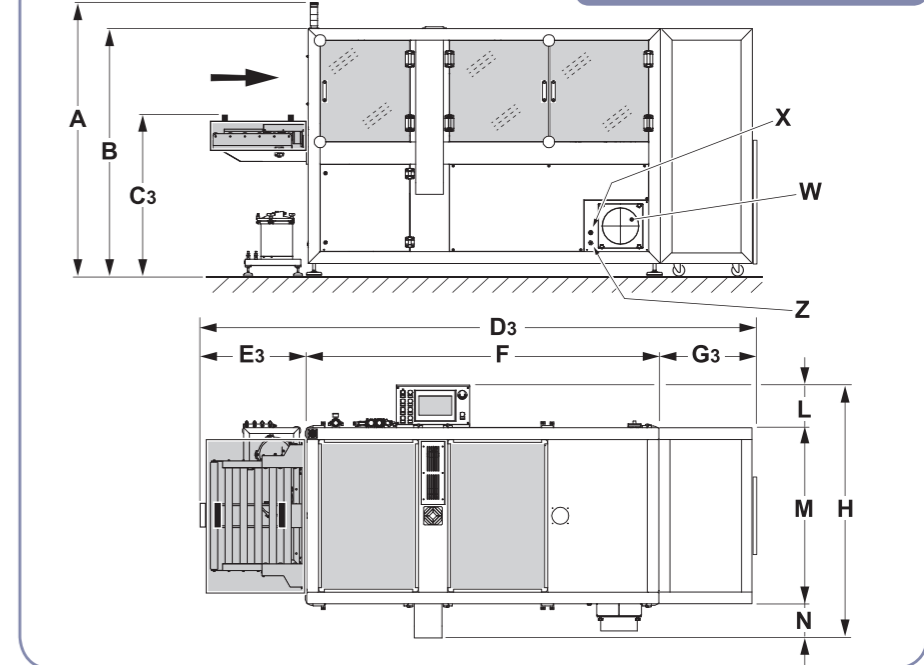
Mod. "M24- S2"



Mod. "A24- S2"



Mod. "SA24 stand-alone unit"



A 1880 mm74.0 in.	C3 1110 mm43.7 in.	E1 520 mm20.5 in.
B 1700 mm66.9 in.	D1 2920 mm114.9 in.	E2 656 mm25.8 in.
C1 1040 mm40.9 in.	D2 3770 mm148.4 in.	E3 710 mm27.9 in.
C2 970 mm38.2 in.	D3 4135 mm162.8 in.	F 2400 mm94.4 in.

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- X** Pneumatic connection pipe \varnothing 12-10mm
- W** Air exhaust connection \varnothing 250mm 1000±2000 m³/h adjustable
- Z** Electrical connection cable 5mt. 6x4mm²