Polychromal

DSE-Aluprinter
ANODISED ALUMINIUM PRINTER

The DSE140 is a flatbed printer featuring a moving portal design and an impressive table size of 1400 mm by 680 mm. The printer is capable of printing directly in anodised aluminium plates and objects with superb scratch resistance due to sub surface printing. Using the Polychromal DuraColour inks, you can print ultra-sharp long lasting images and graphical symbols.
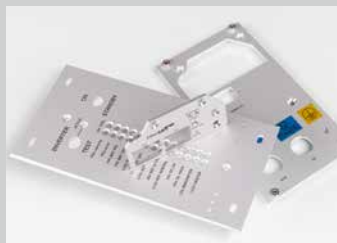

TABLE HEATING & VACUUM
The table can be heated up, Ensuring thermal stability that supports consistent print quality regardless of ambient environmental conditions. It is divided into two sections, each featuring independently controlled heating zones for optimal temperature management. Equipped with two low-noise, low-maintenance vacuum pumps, the system ensures that materials stay securely in place during printing. Each pump operates independently for flexible vacuum control.

BRIDGE HEIGHT
Capable of printing directly into anodised aluminium plates and objects up to 105 mm in thickness.

OBSTACLE DETECTION
Features automatic obstacle detection using advanced laser technology to prevent potential collisions.

AUTOMATIC NOZZLE CHECK
The system continuously monitors nozzle performance. If missing nozzles are detected, it initiates an automatic cleaning cycle. Should recovery fail, the Nozzle Area Select function is triggered, allowing printing to continue using the available nozzle area. This minimizes downtime while maintaining high-quality output.

REFERENCE STOPS
Pneumatic reference stops ensure precise media alignment and automatically retract during printing to eliminate the risk of head collisions.

DRYING DEVICE
An integrated drying device enables efficient drying even at low table temperatures (only in combination with Duraseal plates), supporting print quality and workflow speed.

STURDY CHASSIS
Built on a highly robust and precisely engineered chassis, the printer offers excellent stability. The precision aluminium rail system ensures smooth, accurate printhead movement, contributing to long-term mechanical reliability and consistent ink dot placement. This results in sharper prints and high output quality, even during prolonged production runs.

The benchmark printer for printing in anodised aluminium

Polychromal, DSE140 - Aluprinter

DSE-Aluprinter
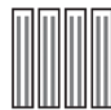### ANODISED ALUMINIUM PRINTER

1255 - 1360 mm

2770 mm

1600 mm

PRINTING SYSTEM

Utilizes two staggered Piezo Drop-on-Demand Epson printheads, printing in five colours: Cyan, Magenta, Yellow, Black, and Transparent.

1st Printhead: CMYK

2nd Printhead: Transparent

SIGNAL TOWER

A multi-colour signal tower provides a clear visual indicator of the printer's current operational status at a glance.

Signal Tower

TECHNICAL SPECIFICATIONS PRINTER

Model:	DSE140 - Aluprinter
Printing technology:	Ink-jet (on demand piezo printheads)
Printing size:	Max print area 1400 x 680 mm
Bridge height:	Variably adjustable to maximum 105 mm
Total weight:	545 KG

Printing resolution:

1440 x 1440 dpi	1400 x 650 mm	uni 94 min	bi 52 min
720 x 1440 dpi	1400 x 650 mm	uni 47 min	bi 26 min
720 x 720 dpi	1400 x 650 mm	uni 24 min	bi 13 min

Ink type:	DuraColour
Ink colours:	CMYK + Transparent
Cartridge contents:	220 cc each
Print heads:	Epson, 2 pieces (staggered configuration)

Interface:	LAN network
RIP software:	Fiery Digital factory
Installation space:	4770 x 3600 mm
Recommended Temp:	18°C - 25°C
Recommended RH:	45% - 80% RH

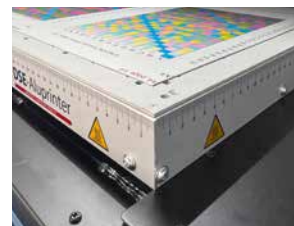|		
Power specification:	Input voltage:	AC 100V to 240V ±10%
	Input frequency:	50/60Hz ±1Hz
	Input load current:	16 A
Power consumption:	Power off:	AC200V to 240V: 3.2 W or below
	Sleep mode:	44 W or below
	Operation:	Max 3200 W

Control panel

Pneumatic reference stops

Cartridges

Ruler fixed on the sides

Design: www.emagy.nl 20250AV4