



SECURITY FOILING LIMITED

SECURITY SOLUTIONS FOR THE WORLD WIDE MARKET



Introducing the 508 CSF/WF

Description

Robust Commercial hot foiling machine utilising a state of the art Programmable Logic Control system and mechanical impression mechanism which can apply up to 30,000 kgs of pressure. The machine has been developed with high output production in mind. Designed to be used to stamp continuous pack to pack stationery and continuous reel to reel web in stand-alone or fully integrated versions, the 508 CSF/WF can meet most production needs.

Purpose

The 508 CSF/WF machine is used to quickly validate, authenticate and protect documents by means of applying security features onto the documents. Holograms can be applied in either patch or continuous striping, which are difficult to copy or reproduce, DATAFOIL® which is a clear foil based protection can be applied over data allowing the data to still be visible and cannot be removed without leaving evidence of tampering. SECURIGRAFIX® can be applied which is difficult to photocopy (with correct foil selection) or reproduce and is used to identify and authenticate documents.

Paper Feed System

The 508 CSF/WF machine is designed to be fully flexible, by adding or removing paper unwind and rewind stands the press can change production format, making the press the ideal selection for the security printer. Full integration into existing print production lines can be carried out by SFL's experienced technicians, so reducing the need for offline document production. A comprehensive edge guiding paper control system ensures accurate and reliable registration to print.

Web without sprocket holes can be processed along with registration to print sensing requirements when these options are specified at the time of purchase.

Foil Unit

Two full width foil reel holders in the top of the machine; house the foils being used for the security applications. The foils are held under tension that is applied to the side of the foil roll. The foil follows a path through the machine which takes it between the security die and the document being processed, then back up to the foil unit which houses the computer controlled stepper motor which pulls the foil through with great accuracy. The waste foil is collected on disposable foil cores for quick and efficient removal under secure conditions. Hologram registration is optional at extra cost. An air powered foil separation system is incorporated into the design for ultimate flexibility and reliable results with a complete range of hot stamping foils. A small compressor supplied with the machine powers the air separation system. Additional full width foil units can be specified at the time of purchase.

Hologram Registration System

The hologram registration system is optional and can be located within the foil path of the machine; it is fully adjustable to allow for positioning of the hologram on to the document. The system is designed to apply either one or more holograms per document processed depending upon requirements.

Impression Unit

The 508CSF/WF machine houses a unique and robust impression mechanism, which incorporates a removable die plate. The dies are fixed to the die plate, which are customer specified and positioned to suit their own application and areas to be foiled on their documents. The machine can be programmed to carry out multiple stamps of the same image on the same document as well as applying more than one feature at a time. The die plate is removable from the back of the machine, the die plates are interchangeable therefore allowing for different jobs or spare security dies to be ready mounted for use in the machine.

Typical Production Examples

Example 1:

Continuous Stationery, 4" repeat, 12" wide sprocketed. One registered hologram image measuring 25mm in diameter applied to each document
Set up time : 45 Minutes
Running speed : 10,000 images per hour

Maintenance

Foil changes : 1 per hour (15 Minutes each)
Make Ready Changes : 1 per day (15 Minutes each)
Machine Overhaul : 6monthly

Example 2:

Continuous Sprocketed Web, 475mm wide applying 15mm wide wallpaper hologram foil striping, 3 across the web, Reel to Reel.
Set up time : 2 hours
Running Speed : 15.25 metres / Minute

Maintenance

Foil changes : Every 2 hours (15 Minutes each)
Make Ready Changes : 1 per day (15 Minutes each)
Machine Overhaul : Six monthly

Technical Specification

Document Handling

Maximum Speed Upto 10,000 impressions per hour or 80 metres per minute
Maximum Paper Width 508 mm
Minimum Paper Width 76 mm
Maximum Paper Thickness 180 gsm
Maximum Web Draw Length 914 mm
Minimum Web Draw Length 1.6 mm
Web Draw Resolution 0.1 mm
Maximum Roll Diameter 1000 mm
Core Size Options available
Maximum Roll Weight 500 Kg

Foil Handling

Maximum Foil Impression Area 200 mm x 430 mm
Maximum Foil Width 460 mm
Minimum Foil Width 10mm
Maximum No. of Reels 10
Maximum Foil Roll 100mm diameter
Maximum Foil Waste Collection 100mm diameter
Foil Core Size 25.4mm
Number of Foil Rewinds 2 (additional rewinds at extra cost)
Number of Hologram Registration Units 1 per foil rewind (optional at extra cost)
Hologram Positional Tolerance +/- 0.5mm
Hologram Registration Mark 5mm x 5mm Bi-directional centered on image (recommended)
Foil Separation System Air Knife with Compressor

Heating

Heating Zones 4
Temperature Range 0-240 degrees centigrade
Temperature Sensors 2
Die height 6.35mm

General

Dimensions approximate 1700 mm (H) x 1300 mm (W) x 1700 mm (D)
Weight (kg) 1300 kg to 2100 kg depending upon model
Machine power supply 1 phase 220 - 240v 50Hz (other options available)
Duty Cycle Continuously rated