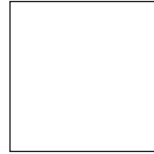




SECURITY FOILING LIMITED

SECURITY SOLUTIONS FOR THE WORLD WIDE MARKET



Introducing the POISE™

Description

A low volume short duty cycle desk top security hot foiling machine utilising a control system to secure documents by means of an impression mechanism which can apply up to 1000 kg pressure. The machine has been developed with high security in mind, using a coded electronic access system and two levels of security for daily use. All customised processing materials such as dies and foils are maintained within the secure metal casing of the machine and can only be accessed by using the machines security access system. Further security against unauthorised use is the automatic shut down which is activated after 10 minutes of the machine sitting idle.

Purpose

The POISE™ machine is used to easily and quickly validate, authenticate and protect documents by means of applying security features onto the documents. Holograms can be applied 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 or reproduce and is used to identify and authenticate documents.

Paper Feed System

The POISE™ machine is designed with a front paper feed system which consists of a document being placed onto the paper tray which is located in the front of the machine. The tray can be locked into place once the position for foiling onto the document has been set. This allows for subsequent documents to be foiled in the same place with out the need to set up each document individually. Templates can be made to fit in to the paper tray to locate small documents and credit cards.

A tractor feed device has been designed for the continuous feed of documents through the machine and is an optional extra. A cut sheet A4 feed device has been designed for the continuous feed of documents as an optional extra.

Foil Unit

A foil tray is located in the top of the machine; this houses the foils being used for the security applications. The foils are held in the front of the tray 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 tray which houses the computer controlled stepper motor which pulls the foil through with great accuracy. The waste foil is collected behind the foil tray 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.

Hologram Registration System

The POISE™ machine houses a unique and robust impression mechanism, which incorporates a removable die plate. The security 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 POISE 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 right hand side of the machine by means of a security door, the die plates are interchangeable therefore allowing for different jobs or spare security dies to be ready mounted for use in the machine.

Impression Unit

The Press houses a robust and unique impression mechanism automatically compensating for differing thickness' of documents e.g. A certificate, plastic card and passport can be handled without changes to the impression mechanism. This incorporates a removable die and make ready plate. The dies are customer specified and presented in either portrait or landscape to suit their own application and areas to be foiled on their documents. The die is removable from the front of the machine after first removing the security guard, the dies are interchangeable therefore allowing for different jobs or spare security dies to be ready for use in the machine, providing quick and efficient die changes.

Typical Production Examples

Example 1:

University Certificate, A4 size document hand fed, 50 certificates per day requiring a 25 x 25mm registered hologram and Datafoil area measuring 15 x 100mm.

Heat up cycle : 5 Minutes

Hand feeding 50 documents : 15 minutes

Maintenance

Foil changes : 2 per year (15 Minutes each)

Make Ready Changes : 4 per year (15 Minutes each)

Machine Overhaul : 12 monthly

Example 2:

Sprocket Fed Cheque Stationary, 4" Repeat, 2000 cheques per day requiring a 25 x 25mm Registered hologram and 15 x 100mm Datafoil area.

Heat up cycle : 5 Minutes

Sprocket feeding 2000 Cheques : 60 Minutes

Maintenance

Foil changes : Every 9 production days (15 Minutes each)

Make Ready Changes : Every 5 production days (15 Minutes each)

Machine Overhaul : Six monthly

Technical Specification

Document Handling

Maximum Speed 300 to 2000 impressions per hour depending upon POISE™ machine settings and feed method

Maximum Paper Size 210mm x 297mm recommended
241mm wide tractor fed inc. sprockets
Maximum Paper Thickness 3mm

Foil Handling

Maximum foil impression area 210mm x 127mm in one impression
Maximum foil width 216mm
Maximum foil roll 100mm diameter
Maximum foil waste collection 100mm diameter
Foil core size 25.4mm
Number of foil rewinds 1 (additional rewind at extra cost)
Number of hologram registration 1 (optional at extra cost)
Hologram positional tolerance +/- 0.5mm
Hologram Registration Mark 5mm x 5mm Bi-directional centered on image (recommended)

Heating

Temperature range 0-200 degrees centigrade
Temperature sensors 2
Heat-up cycle time 5 minutes
Die height 6.35mm

General

Dimensions approximate 550mm (H) x 530mm (W) x 340mm (D)
Weight (kg) 93kg
Machine power supply 1 phase 220 - 240v 50Hz
Duty Cycle Continuously rated