- m) 1 Longitudinal register monitoring and control system. Length register is monitored just before the emboss nip by scanning a rectangular or triangular print mark, and is controlled via the Elder computer.
- n) 1 Oven exit guider to give fine trim of lateral register into the emboss nip. Lateral position is monitored just before the nip by scanning either a triangular register mark or the web edge. Lateral adjustment of the web is achieved via the Elder computer, by micro-slewing of the oven exit roller.
- o) 1 Synchronous Elder computer drive system and controls. This has an interface for Customer's Modem and telephone connection, for remote fault diagnosis by our technicians in England.

(3) Additional Equipment

- p) 1 Automatic temperature speed link. This facility allows the operator to preset the web temperature immediately prior to the embossing nip. The computer drive automatically adjusts the paper speed to maintain this preset temperature.
- q) 1 Cooling water manifold with valves and flow indicators, for emboss rolls and cooling rollers.
- r) 1 External air cooling system for emboss backing roll, including supply and extract fans and high velocity nozzle box.
- s) 2 Spare emboss backing rollers in addition to one roller supplied with the basic machine in 1 (f) above.
- t) 1 Electrical supply for hoist, roll winder, shrink wrapper, trim removal, recirc air and trim drive.
- u) 2 Sets gears etc to suit Wetzel rollers.

(4) Integration

Included in this offer is the full integration of this equipment with the existing gravure press and a site visit to take relevant dimensions and have technical discussions.

Machine Description (See Drawing 80622-A)

- (1) a) 1 Unwind not included.
 - b) 1 Infeed tension control.
 - c) 1 See (1) below.
 - d) 1 Three zone arch-back oven unit gas heated 3 x 5 metre modules single pass damper control of nozzle velocity/re-circulated air independent temperature sensing and control to each zone motorised thread-up mechanism exhaust manifold duct and fan. Maxon gas burners. Extended height support legs included.
 - e) 1 Infra-red heating section with zoned switching pneumatic retraction to allow emboss/backing roll removal - auto retraction on line stop - fume extraction linked in to oven exhaust system.
 - f) 1 Embossing section hydraulic intensifier power unit independent pressure control with up to 4.0 tonnes per side - one rubber covered back roller, water cooled.
 - g) 3 760 mm diameter water cooled rollers, complete with rotary union connections.
 - h) Trimmers (Helios) , E&R to provide speed reference and mounting pads.
 - i) 1 Outfeed storage conveyor with adjustable guides (sloping board and two rollers) and photo-electric control storage conveyor has sufficient capacity for 30 seconds production at maximum speed. Sand-blasted steel draw roll, rubber nip rolls. The conveyor is positioned underneath the oven with the web being transported back to the conveyor and additional drive nip.
 - j) 1 Overhead gantry (hoist , for change of emboss and backing rollers.
 - k) 1 Complete drive and control system, fully pre-wired to main control panel and tested before delivery.
 - (2) Equipment to give embossing in-register with off-line printed design, including in register know-how.
 - 1) 1 Automatic edge guiding unit register draw nip assembly tension sensing transducer roller (all positioned at oven entry).

13 December 2005

ONE HIGH SPEED HOT EMBOSSING MACHINE, 53 & 70 CM (Gas Heating)

Production Criteria

Nominal Web Width:53 and 70 cm trimmed widths.Emboss Circumferences:525 to 1070 mm, random and in-registerTypical Paper/PVC Weights:90/90 to 100/220 gm/sq.mTypical Production Speed:150 m/minTypical Production SpeedsUp to 150 m/min for 90/90 gm/sq.m substrateUp to 80 m/min for 100/220 gm/sq.m

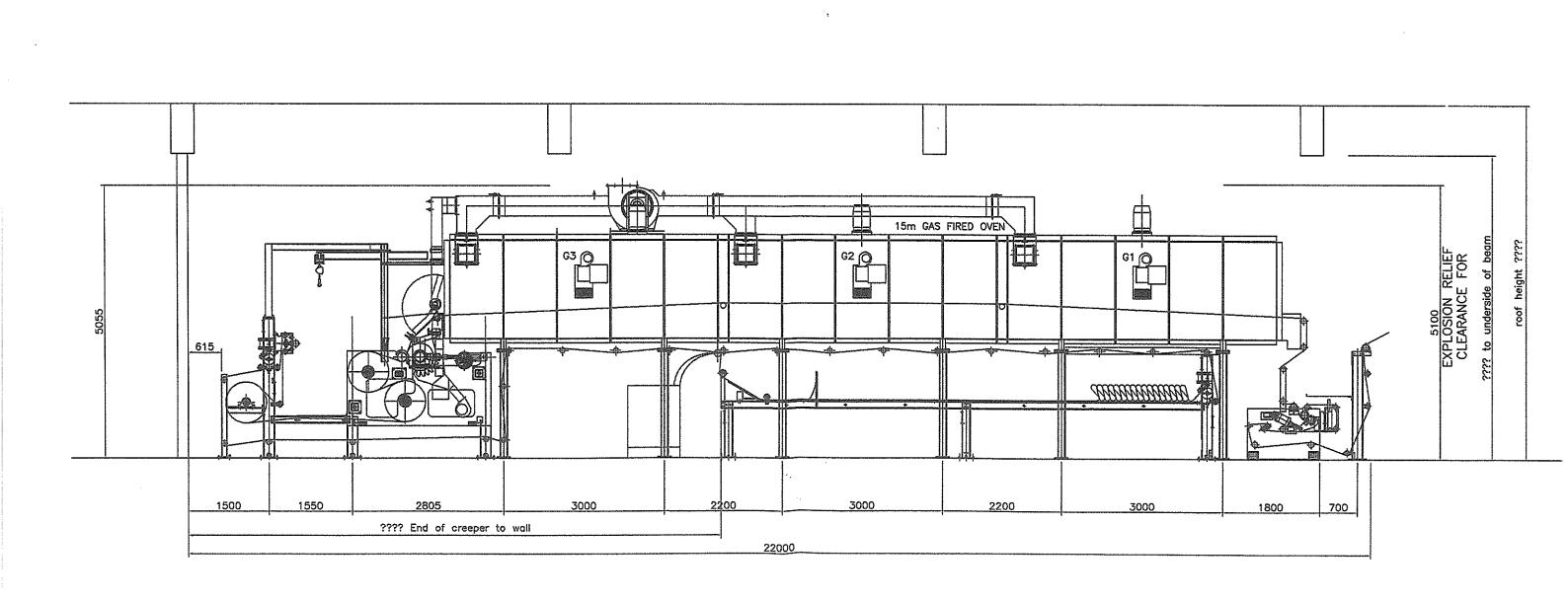
Note the Hot Embossing machine with oven heating can also be used with semi-expansible PVC base to give deep emboss effects with reduced PVC weight, also for chemical (inhibitor) embossing by missing out the emboss nip.

A longer oven will give increased speeds with high PVC weights; we have installed oven at up to 25 metres long.



One High Speed Hot Embossing Machine, 53 & 70 cm Integrated with Existing Gravure Press





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2) Retrofit per installazione di un gruppo di ventilazione consistente in:

- camere di asciugamento lunghezza 2,2 mt (colore camera RAL 9002)
- sistema di riscaldamento a gas
- > completo di ventilazione
- predisposizione per futura installazione di un controllo LEL

3) Retrofit per installazione freno elettromagnetico su svolgitore in sostituzione di quello attualmente in uso.





1) Retrofit per sostituzione armadi elettrici e controllo in asse elettrico degli elementi Rotoscreen, comprensivo di:

- ➢ N. 1 armadio relematica, completo di:
 - Interruttore generale
 - N°2 Trasformatori
 - Alimentatore
 - N°22 Automatici di differente amperaggio
 - N°2 Soft start per ventilatori
 - N°19 teleruttori
 - N°17 Relè Omron
 - N°3 RelèTelemecanique
 - Cablaggio armadio relematica
- N. 1 armadio automazione comprensivo di
 - PLC (N°1 micro memoria card, N°1 cpu siemens S7 315 2DP, N°4 schede digitali input, N°4 schede digitali output, N°8 connettori per schede PLC, N°1 touch panel TP170), guida PLC
 - SYNCRHO (N°1 CPU mod. 7000, N°2 schede Input/Output, N°1 scheda card base, N°1 tastiera Syncrho, N°1 trasformatore, N°1 Automatico)
 - Cablaggio armadio automazione
- N. 1 armadio azionamenti comprensivo di:
- N. 5 azionamenti SIMOVERT MC DC 510650V 6,1A PLUS
- N. 1 azionamento SIMOVERT VC DC 510650V 25,5A PLUS.
- N. 1 azionamento SIMOVERT VC DC 510650V 17,5A PLUS
- N. 1 SIMOVERT MC 3AC 380-480V 120° PLUS 50 KW
- N°1 bobina di commutazione
- N°1 filtro
- Cablaggio armadio azionamenti
- ➢ N°5 servomotori sincroni 1fk7 compact 11nm 100K 3000giri/min e relative trasmissioni meccaniche complete di supporto
- N°1 motore asincrono compatto 15kw 1500giri/min
- ▶ N°1 motore asincrono compatto 7kw 2000giri/min
- N°1 serie di cavi nuovi Siemens ai motori
- N°1 serie di canaline passa cavi