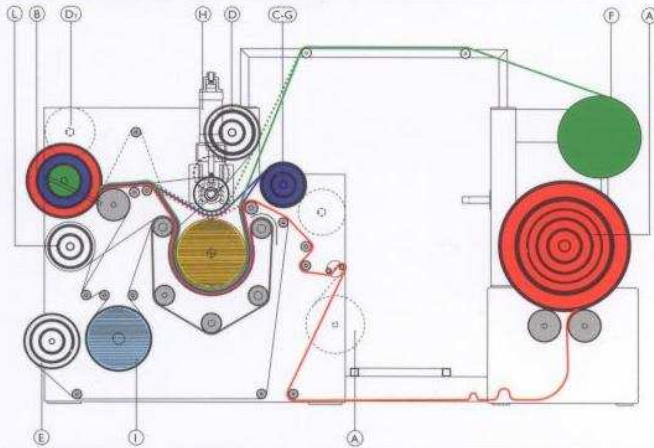


MONTI ANTONIO S.P.A.

MODEL 93 EXPLANATIONS

mod. 93 (2000/2600/3000/3600/4400)

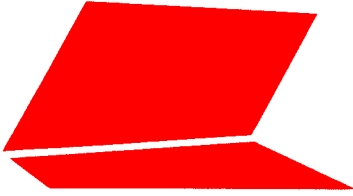


Con raffreddamento per laminazione
With cooling for lamination
Avec refroidissement pour métallisation
Mit Kühleinrichtung zur Metallisierung
Con enfriamiento por laminación

A) Materiale da stampare/ primo materiale	A) Material to be printed/ first material	A) Matériel à imprimer/ premier matériel	A) Zu bedruckendes Gewebe/ erstes Gewebe	A) Material a estampar/ primer material
B) Materiale stampato/trattato	B) Printed/treated material	B) Matériel imprimé/traité	B) Bedrucktes/ Behandeltes Gewebe	B) Material stampado/tratado
C) Carta da stampa	C) Printing paper	C) Papier d'impression	C) Druckpapier	C) Paper para estampado
C ₁) Optional: doppia carta da stampa	C ₁) Optional: double printing paper	C ₁) Optional : papier d'impression double	C ₁) Wahlweise: doppeltes Druckpapier	C ₁) Opcion: doble papel para estampado
D) Carta da stampa usata	D ₁) Optional: used printing paper	D) Papier d'impression utilisé	D) Benutztes Druckpapier	D) Papel para estampado usado
D ₁) Optional: doppia carta usata	E) Backing paper	D ₁) Optional : papier d'impression utilisé double	D ₁) Wahlweise: doppeltes benutztes Druckpapier	D ₁) Opcion: doble papel para estampado usado
E) Carta di protezione	F) Second material	E) Papier de protection	E) Schutzpapier	E) Papel de protección
F) Secondo materiale	G) Fusing film	F) Deuxième matériel	F) Zweites Material	F) Segundo material
G) Film fusibile	H) Pressing cylinder	G) Film fusibile	G) Klebefilm	G) Film fusible
H) Rullo di pressione	I) Cooling roll Optional	H) Rouleau de pression	H) Anpresswalze	H) Rodillo de presion
I) Rullo di raffreddamento Optional	L) Used backing paper	I) Rouleau de refroidissement Optional	I) Kühlungswalze Optional	I) Rodillo de enfriamiento Optional
L) Carta di protezione usata		L) Papier de protection utilisé	L) Benutztes Schutzpapier	L) Papel de protección usado

Model 93 can be used for:

- Transfer printing (sublimation)
- Direct inks reactivation
- Textile thermosetting
- Film / web bonding
- Plastification coating using film
- Transfer printing (no sublimation transfer) of polyurethane, PVC and synthetic leather
- Metalization and gold lamination (foiling / glittering effects)
- Transfer (no sublimation) of specials effects
- Applications of "black out" films and barriers



TRASFER PRINTING / DIRECT INKS REACTIVATION PROCESS

These process are very simple: in case of sublimation transfer printing you can put the printing paper on position C (see picture) and you have to put the textile to be printed on position A (see picture), the protective paper entry is on position E (see picture) and the exit is on position L (see picture). The exits for printing paper and for textile are on position D (see picture) and B (see picture).

In case of direct inks reactivation the printed textile entry is on position A (see picture) and the textile exit is on position B (see picture), obviously the protective paper entry and exit are on the same position of transfer printing process (position E and L see pictures).

In these operations the materials to be treated must pass all-round felt and heated cylinder.

TEXTILE THERMOSETTING

This process is very simple to understand. Model 93 can be used for ironing, fixing and thermosetting textile. The textile to be treated is on position A (see picture) it pass all-round the heated cylinder and felt and then it will exit treated on position B (see picture). This use of model 93 is done when the customer needs to treat, for example, polyester for anti-shrinkage purpose.

FILM / WEB BONDING

In these process we use three materials two textiles to be bonded using one film or one web. We have to put the two textiles on position A and F (see picture) and we put the film or web on position G (see picture). We pass these materials all-round the heated cylinder, here the film / web (done by glue) melt thanks to the heated cylinder temperature (usually 150-160 °C), for attaching the two textile in a very strong way we have to pass under the silicon pressing cylinder H (see picture) it press the two materials. Here the two textiles are a new one composed by first textile + glue + second textile, I pass over the pressing cylinder H (you can not see this passage in the upper picture) and the new textile exit is always in position B (see picture).

There is also an other method for making the film / we bonding, I can pass the materials to be bonded between the heated drum and the pressing drum H (see picture) with the film (position G) on the middle of these two materials without passing all-round the heated cylinder and felt.

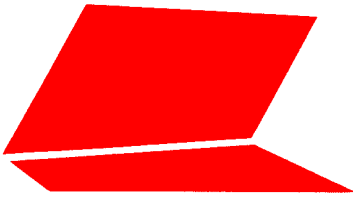
I can use one or the other method depending the materials that I have to treat.

PLASTIFICATION COATING USING FILM

In this process you can obtain a plasticized textile for having a impermeable effect.

In this process you use one textile in position A (see picture) and one film in position G , the operation is exactly the same of the film / web bonding but here there isn't the second textile so that the plasticized textile exit will be on position B (see picture).

Also here the second method used on film / web bonding is valid (passing under the pressing drum H) obviously with the difference that here there is not the second textile.



MONTI ANTONIO S.P.A.

TRASNFER PRINTING (no sublimation) OF POLYURETANE, PVC AND SYNTHETIC LEATHER.

In this process there are two materials: the material to be treated and the material to be transferred. The material to be treated is on position A (see picture) and the material to be transferred is on position G (see picture). Here is necessary to have only a normal transfer so that we can pass between the heated and pressing cylinder in order to obtain a treated material that will be rolled up (exit) on position B (see picture).

METALIZATION AND GOLD LAMINATION

In this process I have got three materials one textile, one design film, one foil (gold or metal colour). The design film is one plastic film which have glue that give the design to a textile. The material to be treated is on position A (see picture), the design film is on position G (see picture), here I can do in two ways: first one I'll pass between pressing and heated cylinders or, second, I pass all-round the heated cylinder and felt, practically with this procedure I transfer the design from the design film on to textile. Attention before separating this two materials I must wait 24-48 hours in order that the glue will be stable on to textile. Once that I have this textile designed by glue I can take one foil and I put it on position G (see picture), also here I can pass, or between the heated and pressing cylinders or all-round the felt and under the pressing cylinder but here I can separate the designed textile from the exhaust foil immediately.

TRASFER (no sublimation) OF SPECIALS EFFECTS

See the explanation for transfer printing of polyurethane, PVC and synthetic leather.

APPLICATION OF "BLACK OUT" FILMS AND BARRIERS

See the explanation for film/web bonding

! ATTENTION: All the operations required the passage between the heated drum and the pressing drum I must use the machine with the function that allow at heated drum to turn in anti-clockwise.

For better understanding I suggest you to watch the videos that I put you on FTP server

If you will have some doubts about the described process don't hesitate to contact me for further explanations.