

**Mandrel screen printing machines**

mandrel Screen printing machines

**machines**  
**DUBUIT**

# MACHINE type 360



The basic machine has a vertical turret fitted with eight mandrels for transferring all types of objects capable of being positioned on a mandrel (tubes, jars, syringes, etc.) through the various stages of the machine.

The turret assembly is driven by a mechanical indexor supported by a welded chassis. Printing occurs in one direction with the head synchronised mechanically with all the movements; the squeegee and floodbar are pneumatically controlled.

At the print station, the objects are rotated either by friction or when registration is required through a rack and pinion assembly connected to the screen. The turret can be fitted with a UV curing unit, surface treatment device or other optional devices for various print requirements.

### GENERAL SPECIFICATION

Overall dimensions	length 1,5 m
width	1,35 m
height	1,95 m
Weight	850 kg without UV dryer 1040 kg with UV dryer
Main motor power	1,1 kW
UV curing unit:	6 inch lamp rated at 300 W/inch
Electrical consumption with UV dryer.	6 kW
Air consumption	1 Nm <sup>3</sup> /h with 4-bar pressure



### FLAME TREATMENT



360 PLASMA To treat fragile surface and difficult materials. This process allows an exceptional surface tension without any heat addition



CORONA TREATMENT DEVICE to treat polyethylene or polypropylene objects. Compared to flame treatment, this has the advantage of not heating the objects.



IONISING DEVICE to eliminate static, with or without particle remover (brush with vacuum).

FEEDING FROM INCLINED CHUTE BY PUSHER for perfectly cylindrical objects

## AUTOMATIC feeding

FEEDING FROM INCLINED CHUTE BY PUSHER WITH SELECTION for cylindrical objects that are uneven (such as with screw threads) preventing parallel movement. The inclined chute is fitted with a selection device which holds back the next object prior to that at the loading station.



FEEDING FROM DESTACKER when the objects are presented in a stack, each object is picked up by a gripper and loaded on to the mandrel.



FEEDING FROM A WALKING BEAM for objects having a collar, such as syringes.



MECHANICAL SQUEEGEE LIFT needed to print all around artwork

REGISTRATION CHUCK AT PRINT STATION for print registration on the object utilising the ramp in the base of the object

AUTOMATIC INK FEEDER controlled by peristaltic pump

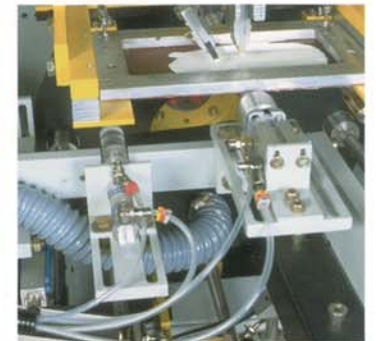
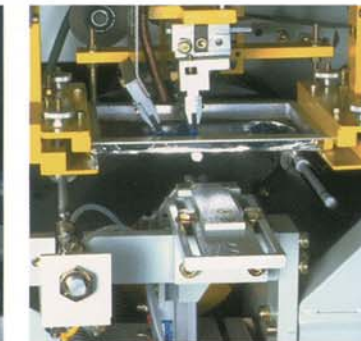


# OPTIONAL equipment

## PRINT

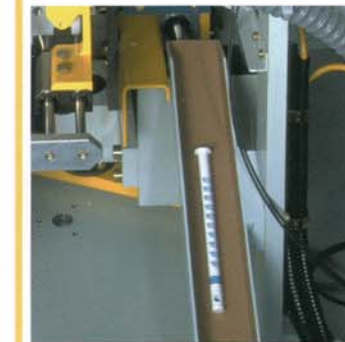
ROLLER CARRIAGE AT PRINT STATION proposed for objects having a small diameter in relation to their length (to avoid the possibility of mandrels bending).

PUSHER AT PRINT STATION to ensure the position of the print with regard to the object height



EJECTION BY SUCTION CUP for placing objects on their bases, for instance, on a drying conveyor

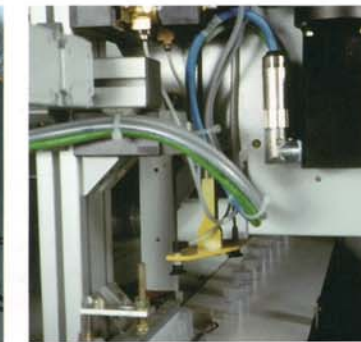
EJECTION BY SLEEVE on inclined chute



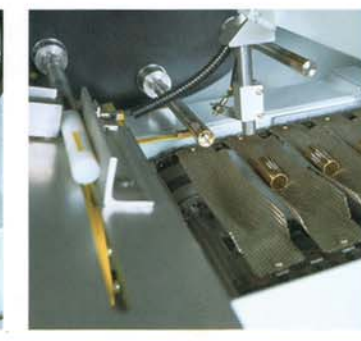
EJECTION BY GRIPPERS for unloading objects on to pins of a drying oven or lehr for glass syringes



360 NUMERIC The numeric loading and unloading arm has the advantage of a quick set-up by teaching procedure without tooling.



EJECTION BY SLEEVE into the baskets of a drying oven. The object must be thick walled.



## AUTOMATIC ejection



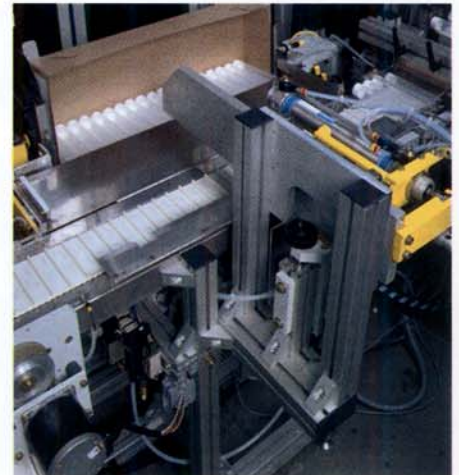
EJECTION BY SLEEVE on to belt conveyor for further handling, such as loading into cardboard cartons



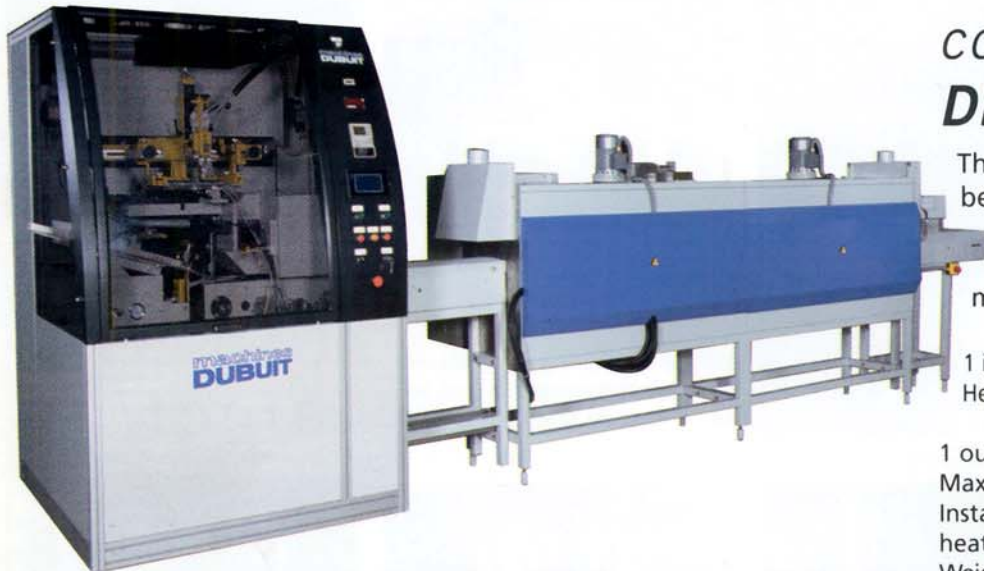
## ANCILLARY machine

All machines in the range are suitable for connection to an automatic unscrambler.

In the same way various infeed devices can be fitted, such as loading into cardboard boxes



## DRYING



### conventional DRYING

These machines can feed a flat belt dryer type 44/361 or a basket type 43/361. In both cases the oven is synchronised with the machine.

#### SPECIFICATION

1 inlet element -	length 1,5 m
Heating element composed of	1,5 m length modules
1 outlet element	length 1 m
Max. temperature	100 to 200°C
Installed power per heating module	10kW.
Weight with 2 heating modules	700 kg



### LEHR

For printing enamel on to glass objects the printing machine can be connected to an enamelling lehr, manufactured by DELTA THERMIQUE. The object transfer to the lehr is ensured by a chain fitted with heat resisting pins with the line speed synchronised with the machine.

SPECIFICATIONS ABOVE ARE ONLY APPROXIMATE AND CAN CHANGE WITHOUT NOTICE