MACHINES DUBUIT

Applications

Plastic Tubes

Plastics Flasks

DUBUIT
GROUP

MACHINES DUBUIT

One or 2 colours for complex shape

Weight: 2 tons

3 or 4 numerical axes

1 or 2 colours

UV Ink

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High Speed CNC screen-printing for MASCARA

Machine 902-AC
2 colours config

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Screen printing on TUBES

Universal screen printing machine 150

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304 303 305 307 302 306 301

Attachment for plastic containers

CHUCK AND COUNTER-POINT INFLATING DEVICE

To print soft plastic bottles, it is necessary to hold them between a chuck and a point. Through the point, inflating air is injected to make the container rigid. The chuck is driven by a gear and a rack, this making the bottle rotate.

REGISTRATION DEVICE

Cylindrical or conical bottles to be printed in several colors must have a registration slot on the bottom. A slip clutch will rotate the bottle until it engages the drive pin, at which point the pin (which is gear driven) will rotate the bottle at the same speed as the screen.

FLAT ATTACHMENT

Screen has to be stationary and squeegee movable. The change-over from cylinder to flat will be done easily by moving a clevis which drives either the screen or the squeegee. The flat object support can be adjustable in height and, if the object has to be inflated, a lateral inflating point can be used.

OVAL DEVICE

The oval object is put on a support which rotates around the center of the radius of the curve of the surface to be printed.

CONICAL DEVICE

A screen holder sector moves rotating around the top of the cone which can be obtained by extending two opposite generating lines of the object.

FLIP-FLOPDEVICE

Used toprinttwo sides of an oval with two different decorations with the same color. The oval attachment is associated to a 180 degree rotating device and to the movement of the screen ann holder.

INVERTED CONICAL DEVICE

In this device, there is a scheduled center of rotation of the sector bar positioned at the rear of the machine.

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Attachment *for glass containers*

ROLLER CARRIAGE

The printing of rigid cylindrical objects is made with a stationary squeegee and a movable screen. During printing, the object, positioned on the rollers (mounted on ball bearings), rotates by simple friction of the screen.

BODY AND NECK DEVICE

The neck of the bottle is printed by a conical device with short radius. This device is synchronized by the printing head. The body of the object is printed at the same time by a standard screen.

DIFFERENTIAL DEVICE

This device is suitable for printing onto two different diameters in one cycle. One of the screens is mounted on the screen holder arms. The second one is sliding. Its movement is given by a rod driven by a roller attached on a lever connected to the first screen. The position of the lever allows adjustment of the second screen stroke.

REGISTRATION DEVICE ON THE SIDE

Some glass bottles have no registration ramp on the bottom, but a hole on the side. The device registers the dimple with a finger of which the position is fixed. The chuck is then synchronized with the screen through an electromagnetic clutch.

TWO - COLOR ATTACHMENT

The first color is printed with thermoplastic enamels. During the return stroke of the screen, the sliding table, carrying the chuck and counterpoint device, moves backwards to present the bottle under the second screen to receive the second color.

ALL AROUND OVAL DEVICE

The objects to be printed are mounted onto a support (mandrel or chuck and counterpoint) vertically movable. During printing the squeegee moves and follows the shape of the object.

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Ceramic device • laboratory equipment

MANDREL DEVICE

The cup put on the mandrel is orientated by its handle. It is held in position by a manual point. The screen length equals the distance between the sides of the handle. It is possible to print up to 15 mm from the handle.

RIM ATTACHMENT

The screen is stationary. The squeegee is rotated through a chain which moves around a gear. A central axis shapes the screen in order to make the mesh parallel with the surface to be printed. It is recommended not to decorate a full 360 degrees.

BURETTE ATTACHMENT

One long squeegee remains always parallel to the generatrix of the objects having a small diameter. The squeegee (maximum length of 600 mm (24")) is attached at two places. The screen makes aforward/backward movement with a possible maximum stroke of 200 mm (8").

QUICK ADJUSTMENT OF ROLLER CARRIAGE

For printing laboratory ware which may have various dimensions, machine will be equipped with adjustable roller carriage by screw and wheel. A similar adjustment is available to adjust the height of the object.

PRINTING OF PLATE CENTER

The rim attachment can be adapted with an articulated squeegee allowing the complete printing of inside of plates as well as of any round boxes.

PRINTING SEVERAL SIDES OF AN OBJECT

If the same decoration has to be made on several sides of an object, the object will be mounted onto a rotating device. After printing of each side, the object will be automatically rotated. When all sides are decorated the machine stops automatically.

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Attachment *for diverse objects*

PRINTING WITH VACUUM TABLE

To print light flat objects, it is necessary to hold them on a vacuum table to prevent them from adhering to the screen during the printing operation.

PRINTING WITH SLIDING TABLE

This attachment makes the positioning of an object onto a vacuum table easy. It is made with a sliding table which allows the item to be loaded outside the screen area.

FLAT DOUBLE STROKE ATTACHMENT

If the object to be printed has a printing length above 300 mm (12"), it is necessary to install a double stroke attachment to extend the printing stroke to 600 mm (24").

PRINTING OF FLAT AND CYLINDRICAL OBJECTS

In this case, the squeegee is stationary and the object is mounted on a support receiving either a synchronized rotation or a synchronized movement from the screen motion.

MANUAL REGISTRATION

When printing several colors on a rigid cylindrical object it is possible to register the colors with a pointer. The first printed color will be manually placed on the same angular position in front of the pointer.

PRINTING OF SPHERICAL OBJECTS

Printing of such surfaces is difficult requiring a special screen. The diameter of the gear driving the object will be chosen slightly smaller than the outside diameter of the object.

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Attachment for big objects

(CYLINDRICAL) DOUBLE STROKE ATTACHMENT

To print an object having a printing stroke above 300 mm (12"), it is necessary to equip the machine with a double stroke attachment suitable up to 600 mm (24").

(CYLINDRICAL) TRIPLE STROKE ATTACHMENT

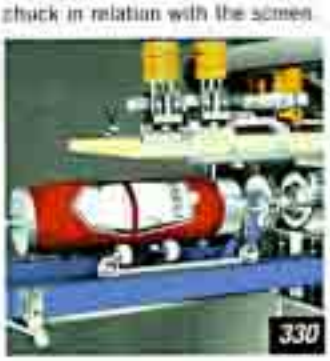
To print on pail of large dimensions, the object is put on a mandrel support. If the stroke is above 600 mm (24"), the double stroke attachment will be replaced by a triple one with a printing stroke of 900 mm (36").

MECHANICAL DWELL ATTACHMENT

When it is necessary to print inside a recessed area (bottle crate for example), this attachment will provide vertical lift of the squeegee at right angle from screen surface.

PRINTING ON HEAVY CONTAINERS

To print heavy containers (fire - extinguisher) in several colors, the objects are loaded on a carrier between chuck and counterpoint outside the screen area. Then, the carrier is positioned under the screen and a clutch will drive the chuck in relation with the screen.



DIRECT DRIVE OF SCREEN ATTACHMENT

If printing large diameters requiring double or triple stroke, demanding close registration "direct drive" is necessary.

CAM CIRCULAR ATTACHMENT

When printing on gearbox gaskets, it is possible to use the plate attachment and to adapt a cam which will make the squeegee following the shape of the object.

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Machine ***150*** *characteristics*

Since 1961, the date of Mr Louis DUBUIT's patent, more than 5,000 universal machines type 150 have been manufactured, making it a standardin the printing industry.

The basic movements remain the same, each new device (capacity : 100)has been integrated in the basic Machine giving the new Machine extra possibilities.
It is this continuous innovation which makes the original Machine DUBUIT 150 the leaderin its market.

Technical ***characteristics***

Output	*1500 à 3000 /h*
Motor power	*0,5 hp*
Weight	*340 Kg*
Max.print;width	*250 - 300 mm (12")*
Minimum stroke standard	*50 mm (115/15")*
Minimum stroke With excentric drive	*10 mm (3/8")*
maximum length of print	
Cylindrical standard	*300 mm (12")*
• with double stroke	*600 mm (24")*
• twith triple stroke	*900 mm (36")*
Flat standard	*300 mm (12")*
• double stroke	*600 mm (24")*

special ***Machine150 L***

Machine 150L is a larger version of the machine 150. It is possible to have a 19" stroke without additional attachment. It is designed for printing of large objects and therefore the printing head lifts up to 4" instead of 3" on a standard 150.The 150L can receive most of the attachments available for machine 150.

Technical ***characteristics***

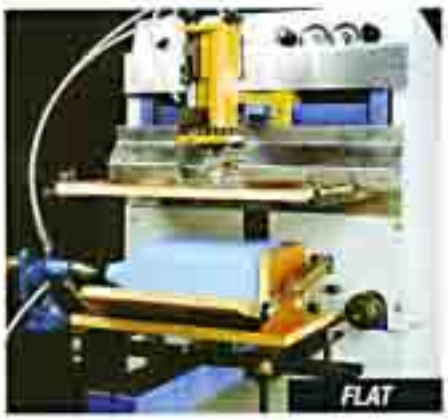
Output	*1500 objects/h maxi*
Power	*1 hp*
Weight approx.	*400 Kg*
Standard minimum stroke	*50 mm (2")*
Standard maximum lenght of cylindrical	
• Stroke	*480 mm (18")*
• Double sroke	*960 mm(39")*
Length of flat stroke	*500 mm (19")*

Universal screen printing **Machine 150 M**

The basic concept isderived from that of the 150. The capabilities are equivalent with a printing stroke of 290 mm. but with a smaller space requirement. Cylindrical, flat or oval objects, with one or more colors can be printed using the same attachment and toolings as on the 150.

BASIC MACHINE
The machine is fitted with a pneumatic squeegee type ST 300, stand and intermittent operation device.

OPTIONAL EXTRAS
• Flat attachment • Pre-inking device •Tiltable squeegee •Drive from rack • Mandrel • Roller carriage • Chuck and counterpoint • Inflation device • Oval device • Automatic registration.



Technical **characteristics**

Machine cycle	*1500 À 3000/h*
Installed power	*0,5 kW/h*
maxi screen stroke	*300 mm*
Maxi. printing lenght	*290 mm*
Maxi. printing stroke	*10 mm*
Weight	*250 Kg*
Dimensions	*height 1,60 m width 1,05 m depth1,10 m*

ABOVE SPECIFICATIONS ARE JUST INFORMATIVE AND CAN BE CHANGED WITHOUT NOTICE

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