

**makro**  <sup>®</sup>  
labelling



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Technology for great numbers.

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# MAKRO LABELLING: TECHNOLOGY IN EVOLUTION ON THE SMALL AND LARGE SCALE

## Modularity, flexibility, practicality

are the three key concepts of the Italian based Makro Labelling, international standard setter for industrial labellers in the beverage, food, home and personal care and pharmaceutical sectors.

The thirty years' experience of its founders, an extensive international sales network and a meticulous before and after sales service, together with configuration flexibility and the ability to innovate, guarantee the company can satisfy all labelling needs, with constant expansion on markets both inside and outside Europe.

## A RANGE OF LABELLERS FOR SPEEDS FROM 1,500 TO 50,000 B/H, HIGH VOLUME PET PRODUCTION AND BLOCKS OF PHIALS

The Makro Labelling range includes labellers able to process from 1,500 to 50,000 bottles per hour, applying up to five labels per bottle and available in wet glue, hot melt, self-adhesive and combined versions.

For companies not requiring high production speeds, the **MAK 01**, **MAK 02** and **MAK 1** labellers provide up to 12,000 b/h with mechanical or electronic rotation of the bottle plates. With special applications and able to cope with production speeds of up to 50,000 b/h, the **MAK 2**, **3**, **4**, **5**, **6**, **7** and **8** labellers, on the other hand, satisfy the needs of medium to large companies. The range includes a high speed self-adhesive labeller with reel winders and non-stop system enabling production to continue at maximum speed even during reel changes and a combined labeller to apply the fiscal guarantee seal.

**MAK Roll Feed** is the new series of rotary labellers with production speeds of 6,000 to 40,000 b/h for the high volume PET labelling market (water and soft drinks sectors in particular). The use of wrap-round plastic and paper labels on a reel with hot melt application has maximum economic benefits for production with respect to traditional OPP or pre-cut paper labels.

The linear labellers line includes the new **MAKLINE Roll Feed** and **self-adhesive MAKLINE**. Both high performance and safe, although linear, they guarantee top quality labelling. The **MAKLINE Roll Feed** with motorised axles and brushless motors is designed for the water and soft drinks production market. It guarantees minimal costs and production speeds of between 6000 and 16,000 b/h. The **self-adhesive MAKLINE** designed for the beverage, food, home and personal care and pharmaceutical sectors can be adapted to large and small containers, with direct application of a maximum of 2/3 elements per bottle, rapid format change and maximum production flexibility.



## Features



10" touch screen to control and regulate the labeller.



18" touch screen to control and regulate the labeller with built-in quality control.



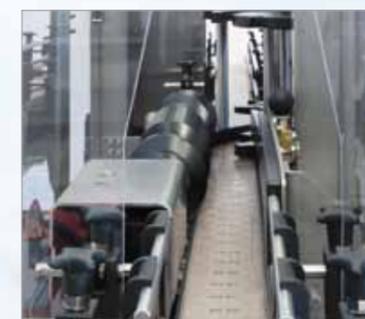
Easy label reel change over.



Bottle change without tooling.



Vision Control: a quality control system enabling the precision of the pack to be verified and faulty containers to be rejected.



Feedscrew motorised and controlled by a brushless motor with the function of the container infeed gate lock device with torque control.

## Patents

### Structure

- 1 Execution of the frame upper surface in "ROOF" type made in stainless steel sheet (AISI 304).
- 2 Frame upper portion made of stainless steel (AISI 304).
- 3 Support frame made of welded stainless steel tubulars (AISI 304), fitted on adjustable feet.
- 4 Automatic regulation of the axis by stepper motors.



The **Follower** optical guide system (an exclusive Makro patent) enables the bottles to be aligned for application of labels in precise positions with respect to a reference on the bottle and reduces format change times. It is available in carbon fibre and fitted with a line scan camera.

# mak AN · AS · AHS

## Self-adhesive labelling units



mak AN	50 mt/m'
mak AS	65 mt/m'
mak AHS1	95 mt/m'
mak AHS2	150 mt/m'

- 1 Cabinet in AISI 304 IP55.
- 2 Panel control of the unit.
- 3 Frame of the trolley in AISI 304.
- 4 Manual or automatic axes regulation point.

# mak HM

## Hot melt labelling unit



- 1 Application: pre-cut paper labels and OPP.
- 2 Nordson unit glue heating system.
- 3 Glue transfer: sprayed on bottles and distributed on overlaps with a dispenser "comb" operated by electro-pneumatic insertion (no bottle-no glue).
- 4 Unit support carriage made of steel tubes (AISI 304) equipped with X-Y-Z axis recording system.
- 5 Fixed and mobile carriage versions.
- 6 Bottle holder plate cam rotation; mechanics include replaceable sector or belt and toothed pulleys or stepper motors.
- 7 Min.-max. hourly production: 3,000 b/h to 42,000 b/h.

# mak G · GHS · GLL

## Cold glue labelling units



### mak G

Unit for medium productions at speeds of up to 25.000 b/h.

### mak GHS

Unit for large productions at speeds of up to 45.000 b/h.

### mak GLL

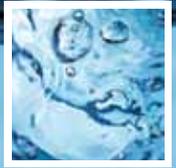
Unit for applying very long, even wrap-around labels. Enables up to 320-mm processing.

# mak ROLL FEED

## Labelling unit with wrap-round plastic labels



- 1 The roll feed labelling unit (reel holder, glue distribution roller, cutting roller and film traction roller) is operated by servo motors.
- 2 The use of corrosion-resistant materials guarantees an unlimited working life.
- 3 The input and output starwheels and bottle input auger are fitted with servo motors guaranteeing torque control.
- 4 The plates are rotated by motorised belt for cylindrical formats and electronic cam for shaped formats. In this case, rotation is guaranteed with different format bottles by a motor controlled by a touchscreen control panel.
- 5 The stainless steel glue roller distributes the glue on the edges of the labels.
- 6 The machine can also be used with large plastic containers more than 200 mm in diameter.
- 7 All models can also work with empty PET bottles, with pressurisation of each cap pressing head.



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