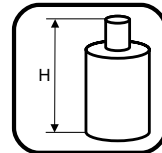
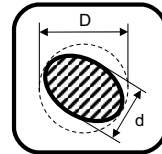


## Article and image geometry



$40 \text{ mm} \leq H \leq 450 \text{ mm}$

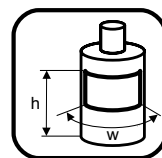


round, oval or flat

$D \leq 120 \text{ mm}$

$d \geq 20 \text{ mm}$

Handle radius  $\leq 110 \text{ mm}$



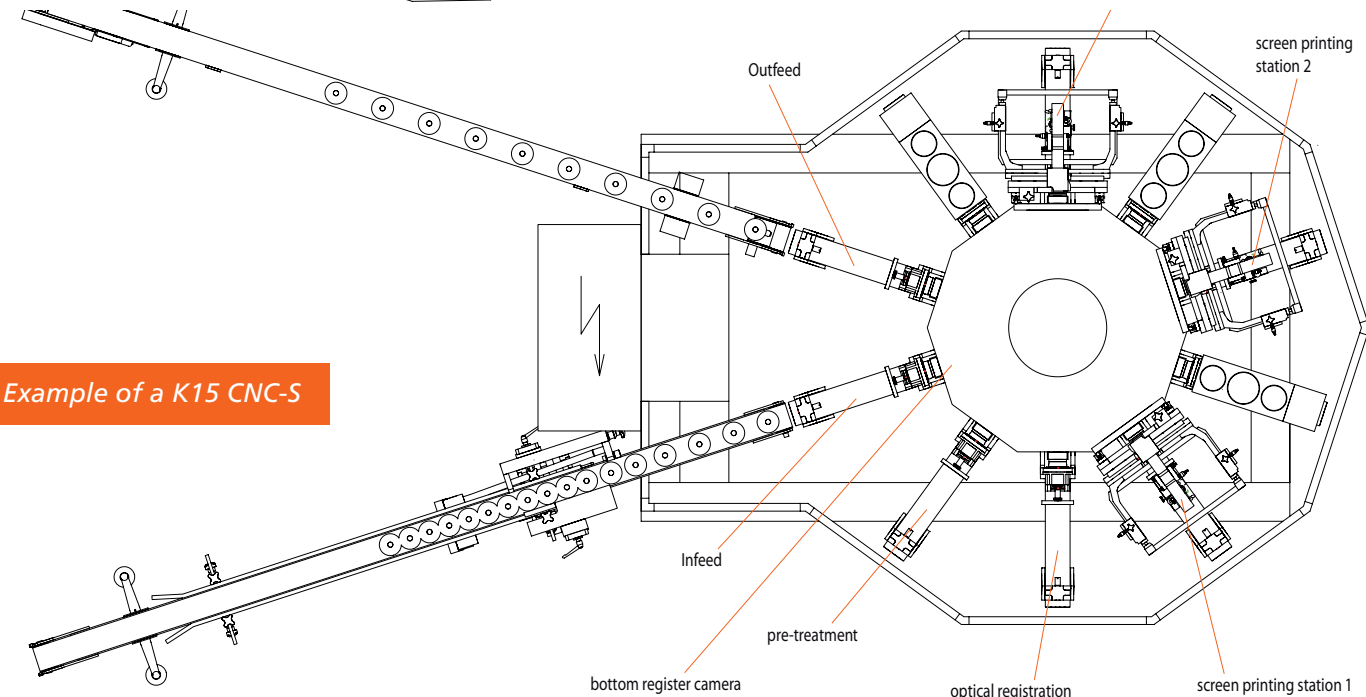
$h \leq 350 \text{ mm}$

$w \leq 380 \text{ mm}$

## Output

Mechanical cycles max. 120/Min

(depending on article shape, size and print image, infinitely adjustable)



Example of a K15 CNC-S



## Fully Automatic CNC Controlled Universal Screen Printing Machine

**KAMMANN MASCHINENBAU GMBH**

Bergkirchener Str. 228 · D-32549 Bad Oeynhausen (Germany)

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mail@kammann.de · [www.kammann.de](http://www.kammann.de)

**Flexible.  
Precise.  
Innovative.**



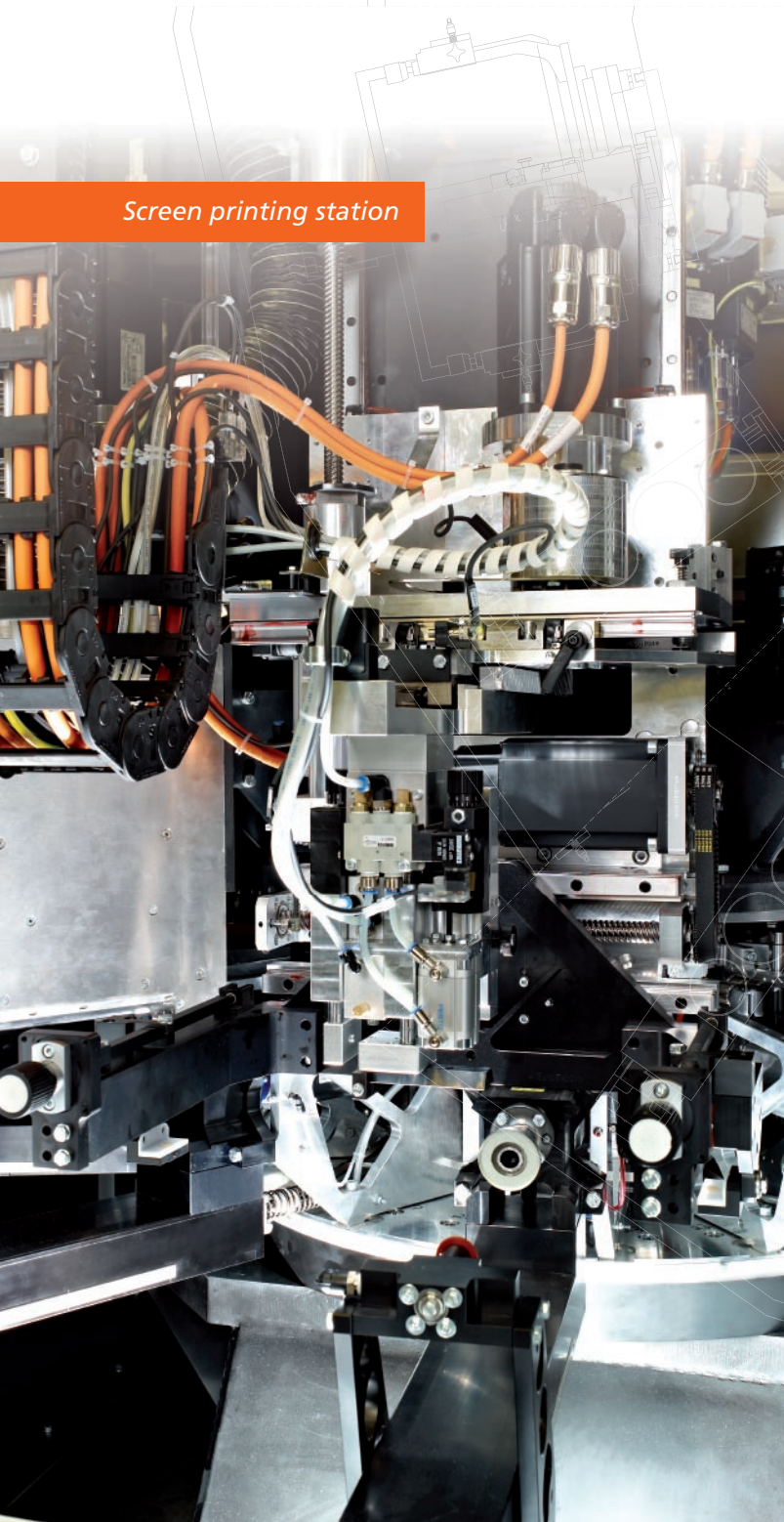
# CONCEPT

## Flexibility and Precision

Our innovative **KAMMANN K15 CNC** is equipped with complete CNC-functionality and prints on any product shape or form (round, oval, square, flat, handle or plug-on articles) to the highest standard.

The flexible handling system allows for both, vertical and horizontal infeed and outfeed of articles. Set-up times are extremely short.

Screen printing station



UV dryer



Our newly developed camera system can be used to position products using any markings on the bottom of the articles without the need of bottom register tools.

Additionally, the **KAMMANN K15 CNC** offers the potential to lower production costs. The machine can be equipped with a partial set of tools for small runs.

# ADDITIONAL BENEFITS

## High Performance

- Servo driven indexing table available in four different sizes
- Solid basic construction – suitable for glass, plastic, and metal articles
- Printing of up to 10 UV colours or 12 thermo-plastic colours possible in one machine pass
- Single-Captured-Tooling for perfect printing results. Colour to colour register accuracy: +/- 0.1 mm
- Extremely short change-over time due to a quick change system
- Air inflation for plastic articles
- Vacuum supply for plug-on articles
- Printing on different shapes and radii in each printing station
- Optimized ratio between article printing and article transport time
- Modern, ergonomic operating concept

## Additional Features

- Tiltable axis for conical articles with a vertical angle of +/- 18°
- Optional integration of different processing i.e. print inspection, hot stamping unit, labelling, heat transfer, and varnishing
- Optional motorized screen fine adjustment in y- and rotative direction
- UV dryer using the innovative KAMMANN UV-technology with up to 300 W/cm; bulb and reflector lifetime is increased by filtered air cooling system. Energy-saving-mode reduces energy consumption up to 30 %. Other UV-systems can be integrated
- Screen heating for thermo plastic inks
- Optional servo-driven height adjustment of pre-treatment and UV dryers for non-round articles
- Optical and seam registration
- Mechanical pre-registration
- Remote maintenance of all systems via Internet and optionally camera supported
- Integrated longitudinal squeegee device with very short change-over times
- slide-in system for quick change of decorating modules, e. g. hotstamping

Operating panel

