



**HD 02-04**  
**AUTOMATIC EYE DRILLING**

## Product Description

The machine HD 02-04 is designed for automatic drilling of multiple small eyes. Eye patterns can be distributed on the R rotation and the linear X-axis.

The PLC can contain 50 different product recipes. Each recipe can contain up to 100 eye positions, where pattern of rotation and linear position can be stored. Recipes can be stored, edited, and loaded from the touchscreen.

If required, the machine can also be used for manual drilling of e.g., pigtail catheters. Drill jigs are easily changed to account for difference in tube size and shape.

The tube and drill unit can be positioned easily and precise by servo motors – Vertical, horizontal, and rotational position is done via the touchscreen, and positions can be stored to the product recipe.

Replacing and adjusting the drill is also easy, due to the new way of controlling the servo motors.

The eye drilling can be done with either spiral drills or with hole punch drills. If using a hole punch drill, the waste can be collected and registered automatically as an add on feature, ensuring that no residues remain inside the tube. Drill waste can be removed by a connected vacuum system. The tube is fixed in the tube grip fixture using a predefined zero point. Once the tube is positioned, the operator can start the drilling process.

## Production capacity:

The production capacity is dependent on the tube material and size as well as the experience of the operator. The eye drill operation is app. 1.0 sec., depending on material properties.

## Tube specifications:

Tube Diameter:	Ø 0.8 – 10 mm.
Tube length:	Infinite.
Drill chuck Diameter:	0.3 – 6 mm.
Linear Z pattern area:	0 – 200 mm – automatic.
Linear X adjustment area:	+/- 10 mm – manual.
Linear Z adjustment area:	+/- 10 mm – manual.
Drill rotation speed:	200 - 5600 rpm.

## Installation:

Required Space:	Length app. 700mm, width 530mm, height 515mm.
Power:	1x230V AC 50-60Hz 10A.

## Environment:

It is recommended to operate the machine in a clean environment.