



The Dutch company VSM Nieuwkoop is specialised in high-tech machines for pressing and spraying ceramic products. Thanks to more than 35 years of experience in developing innovative machines, based on modular designs, we are able to find a suitable solution of any specific production problem in the field of ceramic manufacturing. VSM is renowned for its outstanding after-sales practice.

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## Flex pressing machines options

### AUTOMATION

#### SET UP →

- 1 Island automation set up
- 2 Integrated, with flying clay cutter
- 3 Integrated, with stationary clay cutter

#### OPTIONS →

- 4 Shaping
- 5 Shaping
- 6 Reshape after pressing
- 7 Reshape after pressing
- 8 Decoration afterwards
- 9 Decoration afterwards
- 10 Stamp
- 11 Faster production
- 12 Reuse of the clay



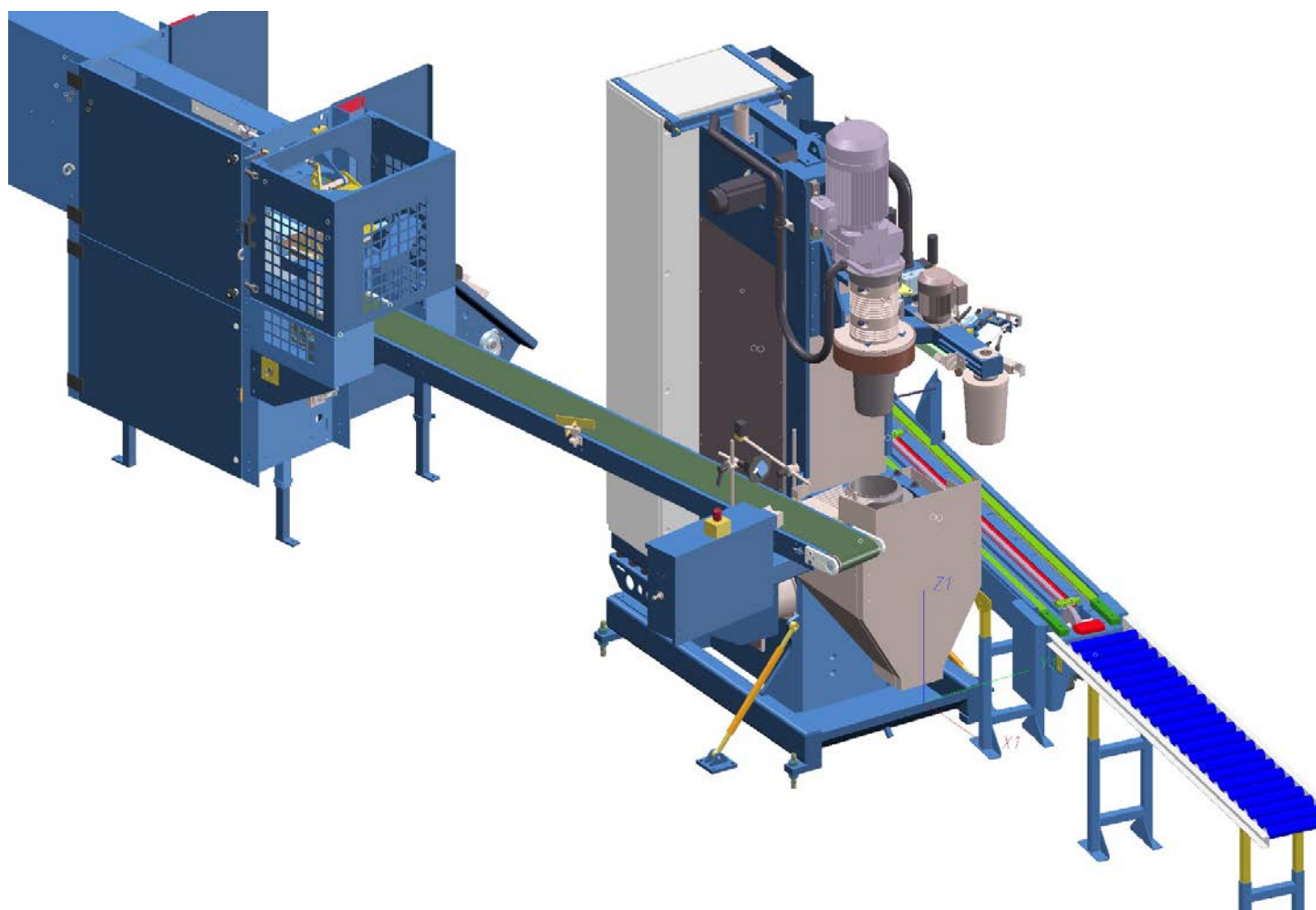
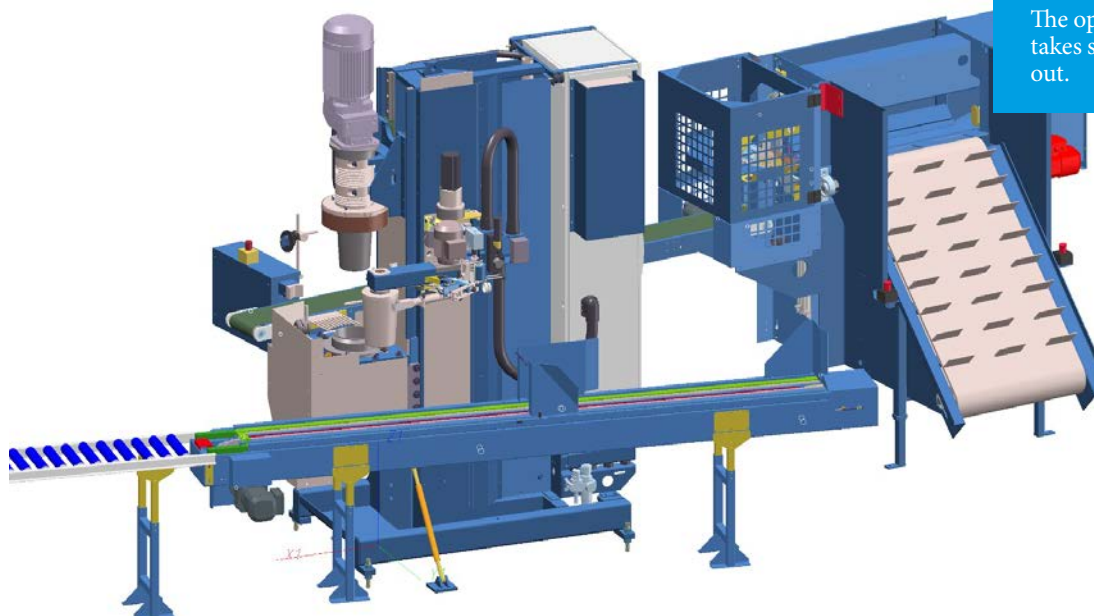
Next to the options  
shown in this document  
there are many other  
client specific options

# 1 Island automation set up

Flex in "Island" Automation set up:  
not connected to other machinery.

With: Clay feed, Cutter, and Product  
output on wooden shelves.

The operator put roles of clay in and  
takes shelves with finished products  
out.

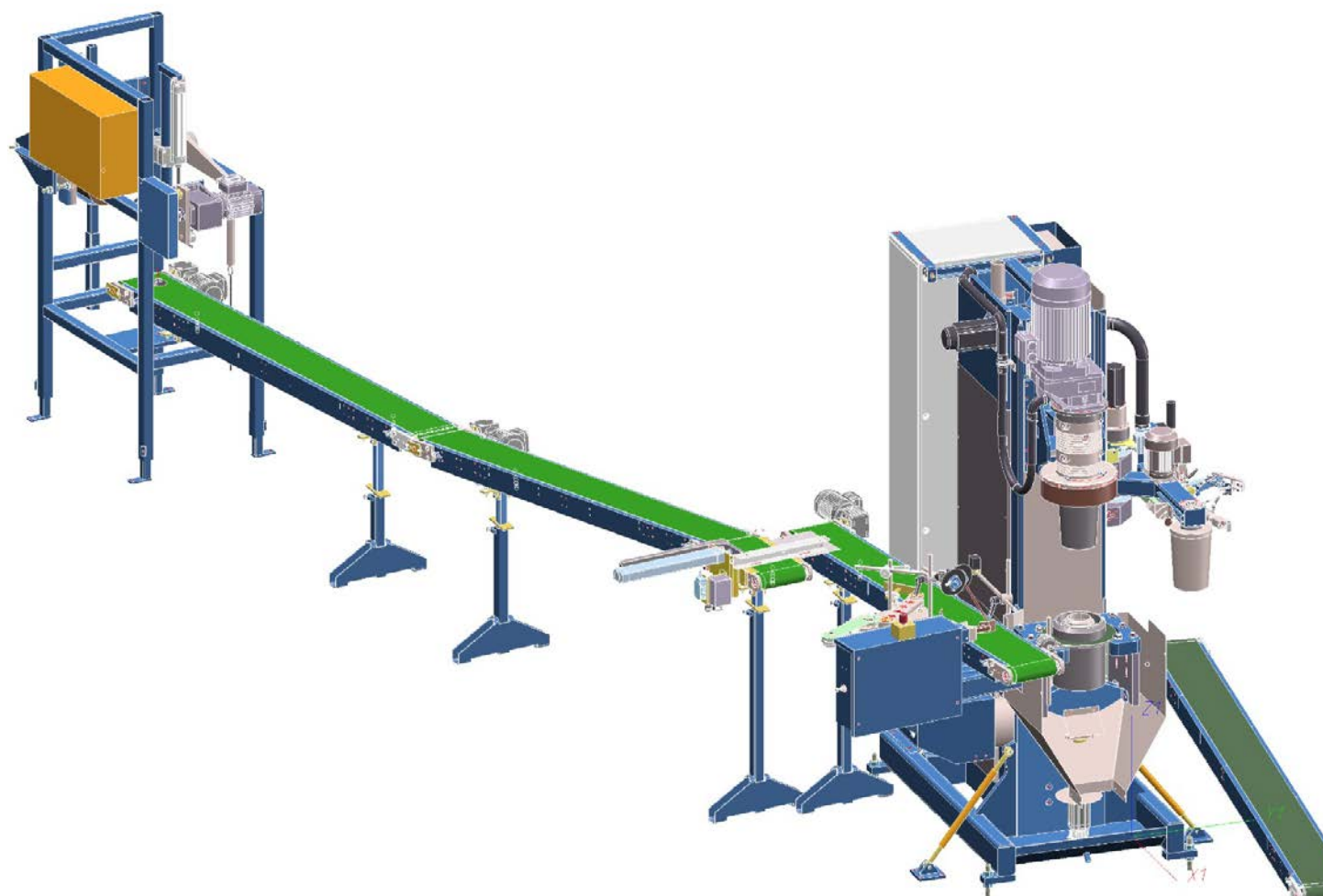
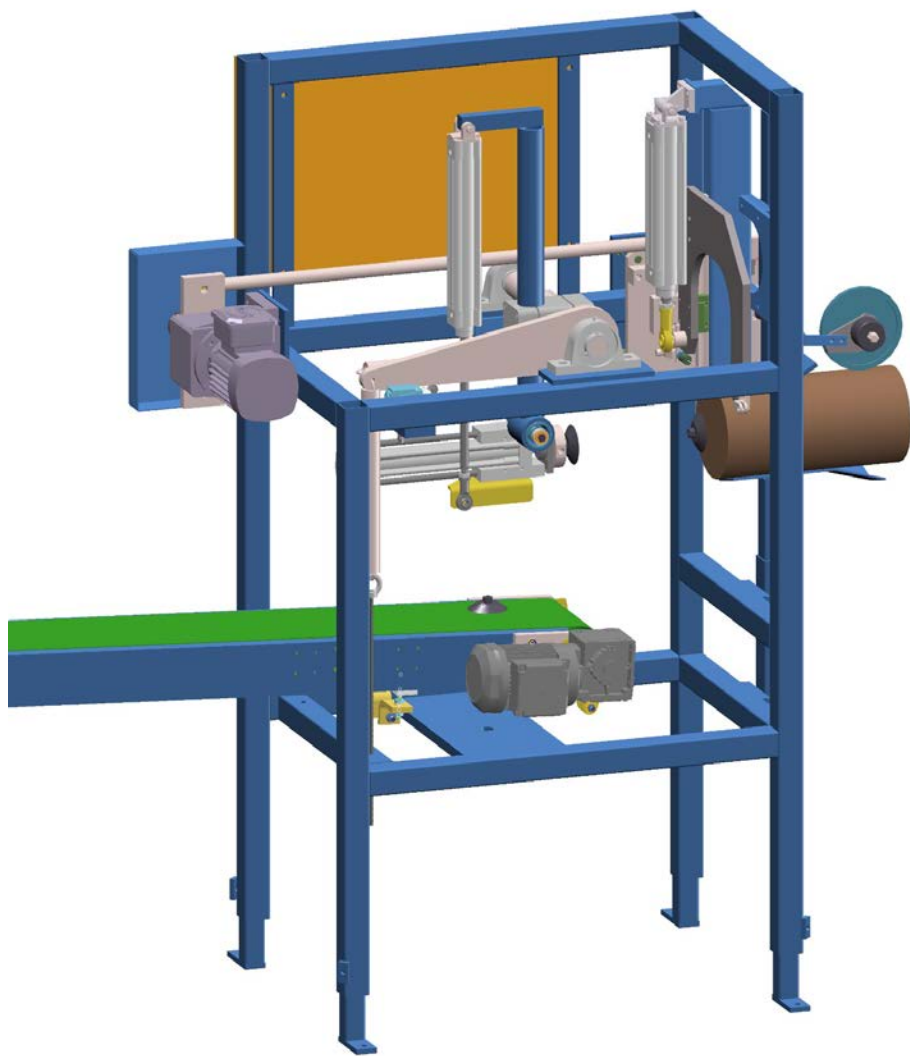


## 2 Integrated automation set up with flying clay cutter

Flex in Automation Set up: connected to your other machinery.

With “Flying” Clay Cutter feed and 3 belts connected to your Extruder. Product output on wooden shelves, or a conveyor to your dryer.

So your Extruder can run easy 15 pcs and then stops, and re-starts. Gentle to the Extruder!

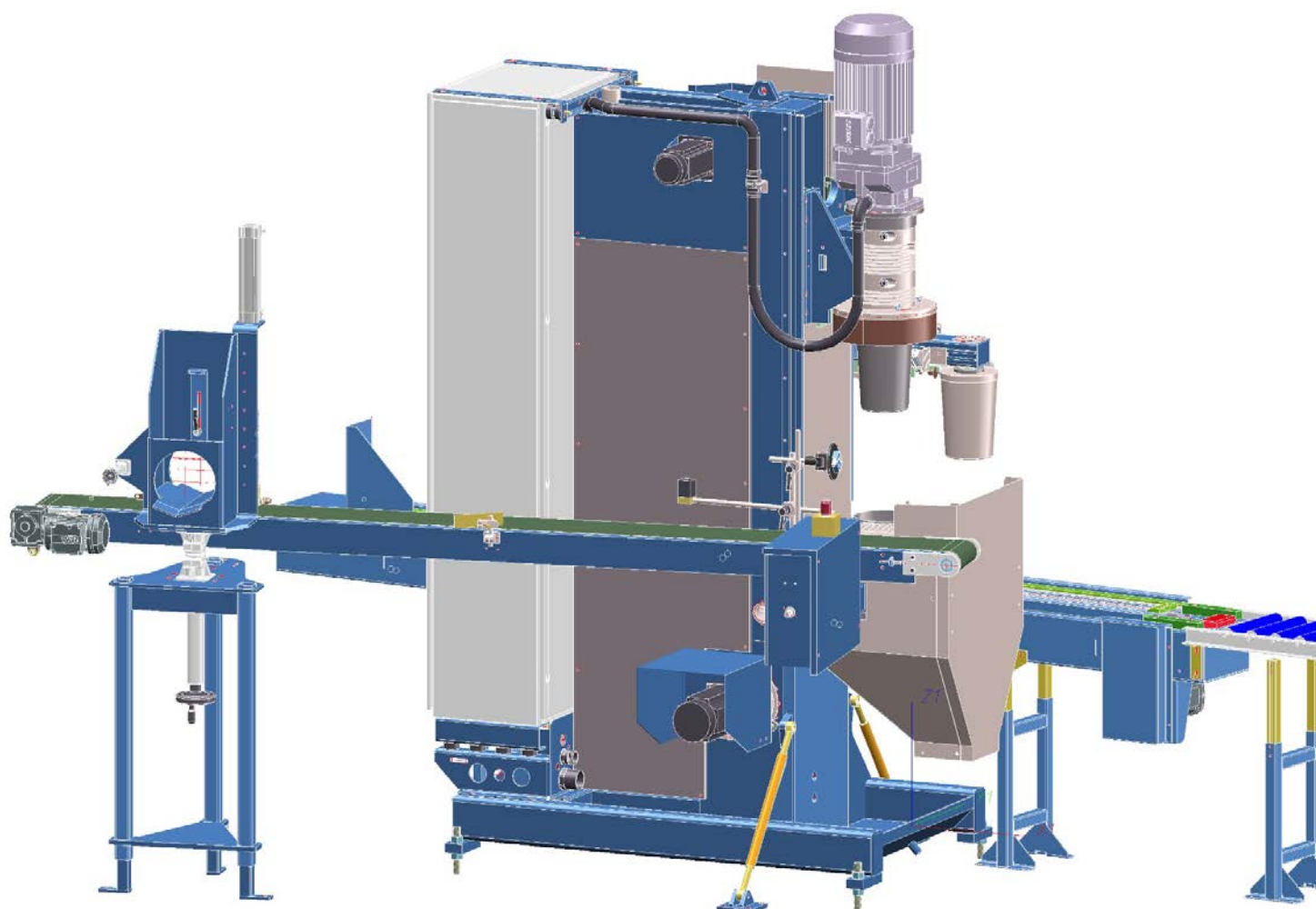
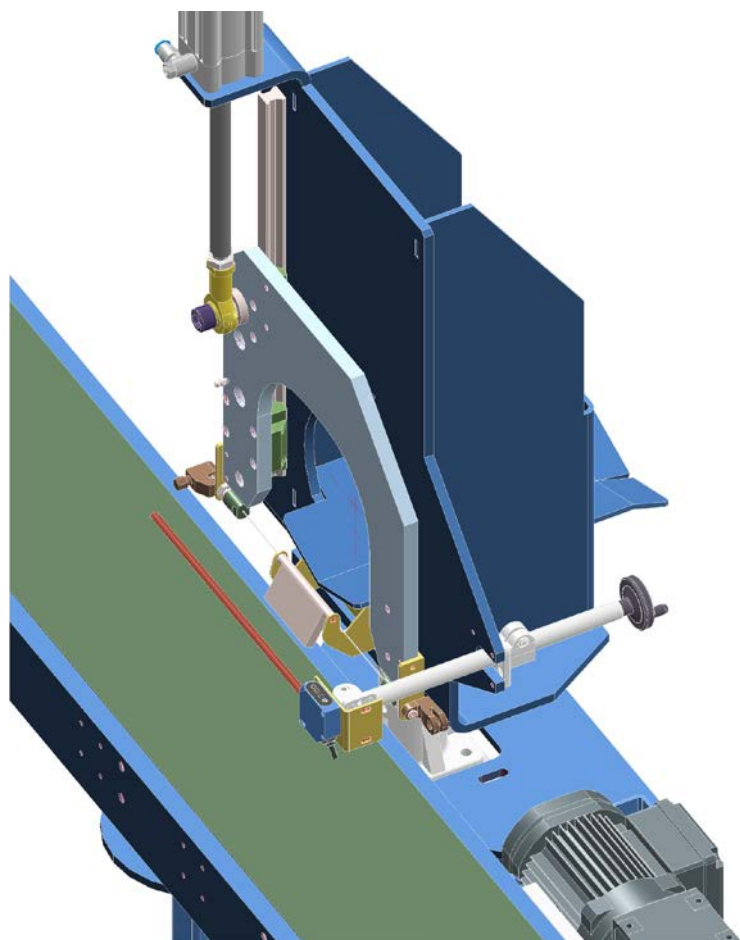


### 3 Integrated automation set up with stationary clay cutter

Flex in Automation Set up: connected to your other machinery.

With Stationary Cutter Clay feed to receive clay from your Extruder, and Product output on wooden shelves, or belt to your dryer.

Extruder stops and starts every piece of clay



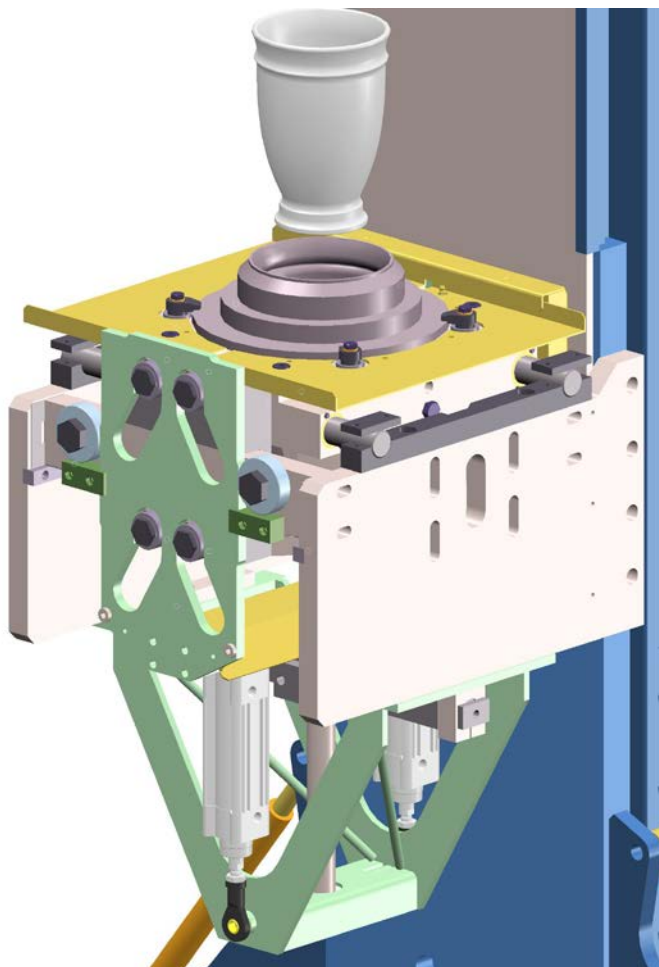
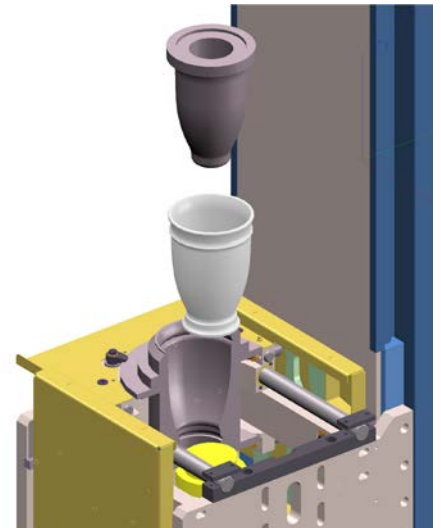
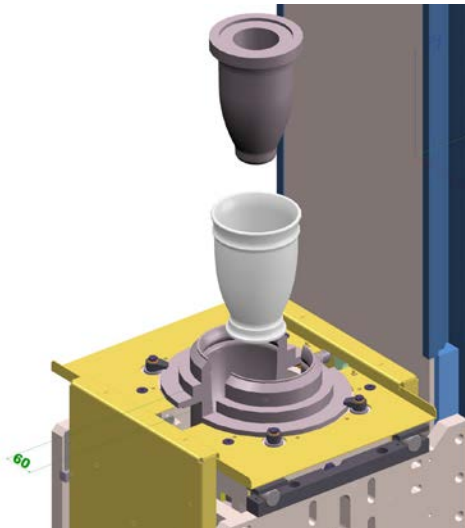
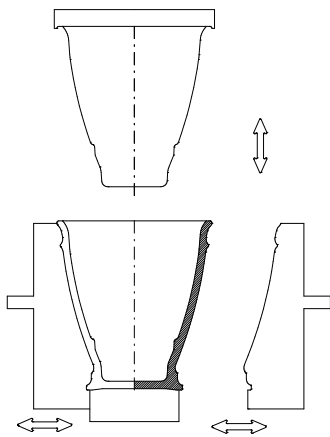


## 4 Shaping

Shaping by horizontally opening mould in two parts, to make footed ware.

Inside the shape must be conical min 1°. Up to  $\varnothing$  230.

Moulds by VSM



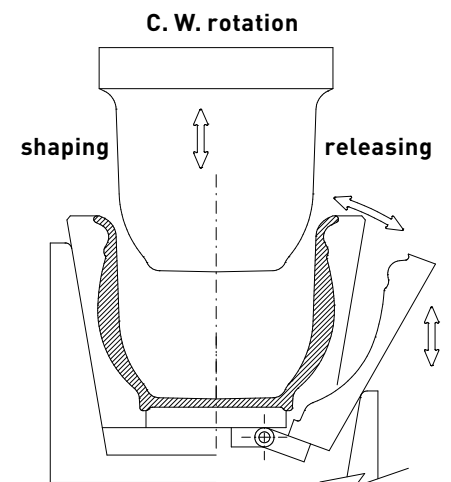
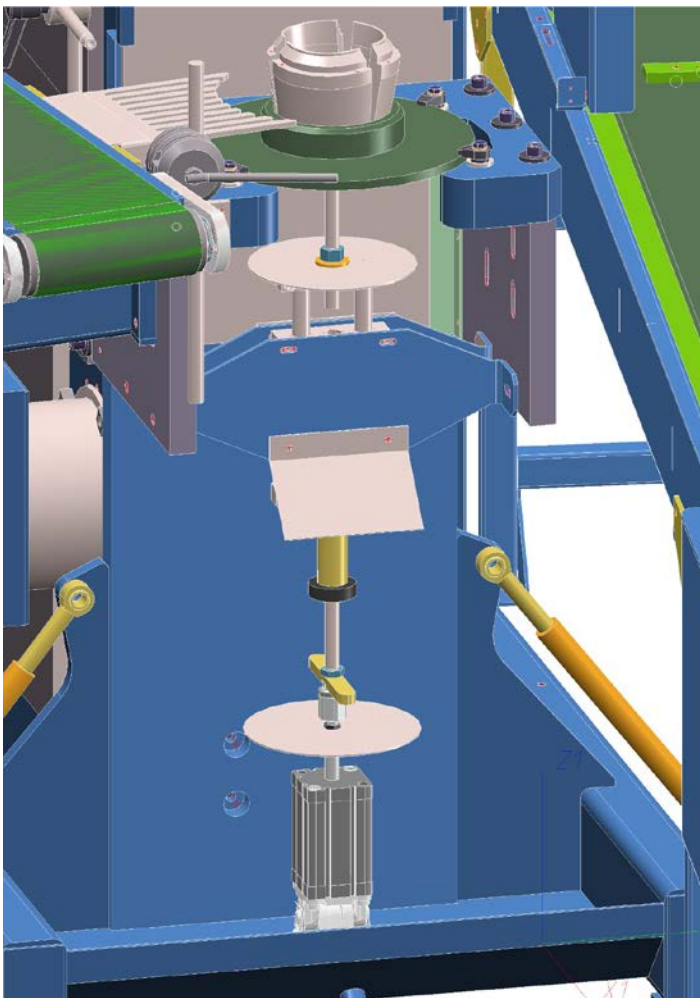
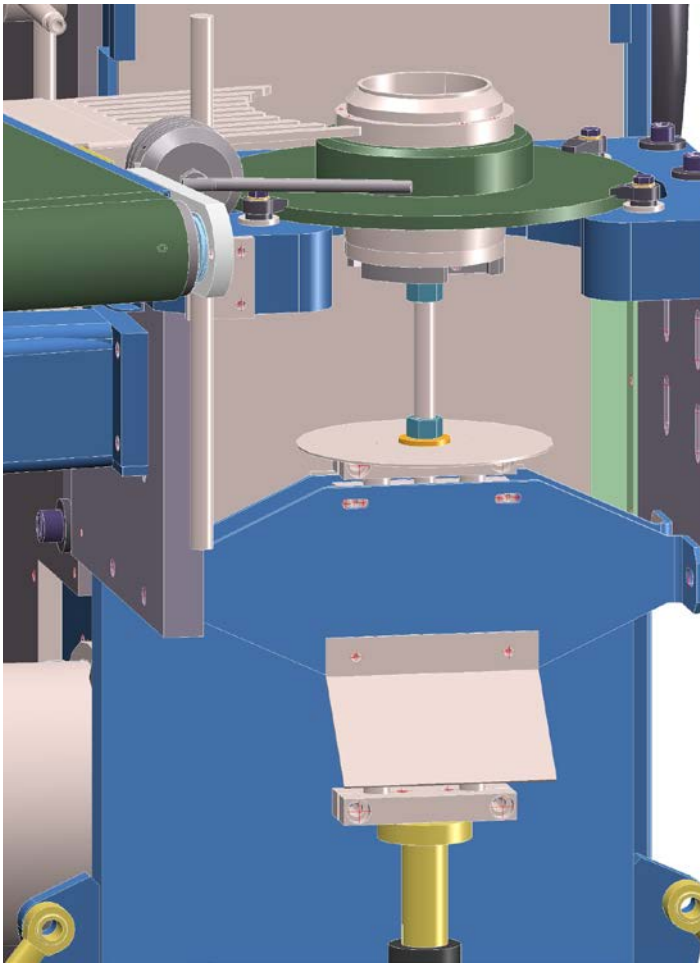
code: F-H-2-SplitM

## 5 Shaping

Shaping by horizontally opening moulds in 3 or 4 parts, to make footed ware.

Inside conical min. 1°  
Outside horizontal releasing.  
“Tulip” type up to  $\phi$  150.

Moulds by VSM

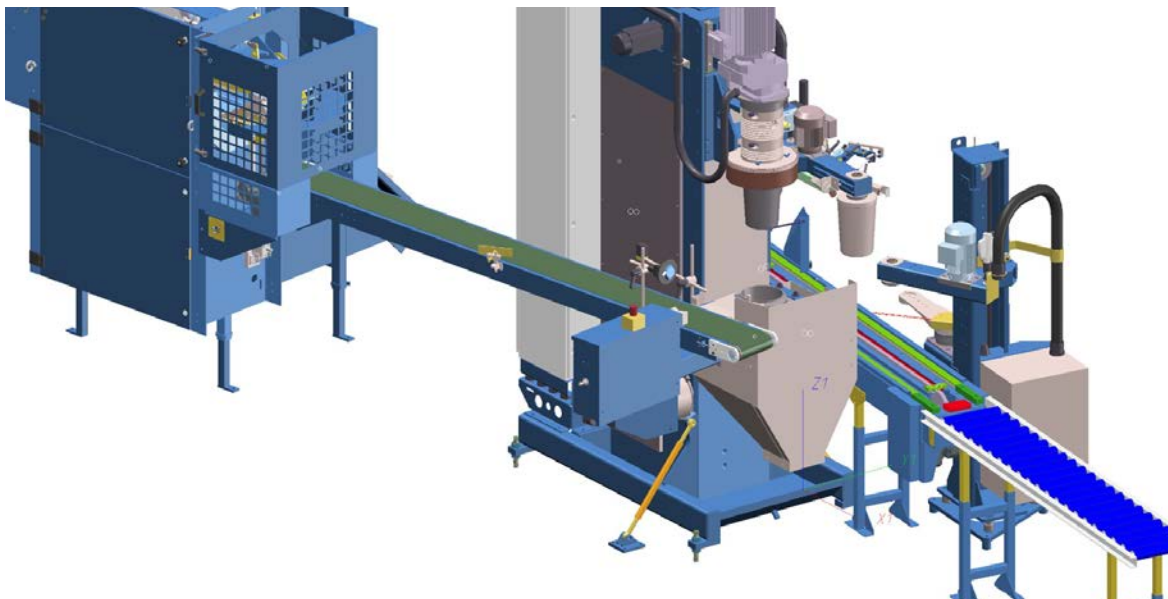
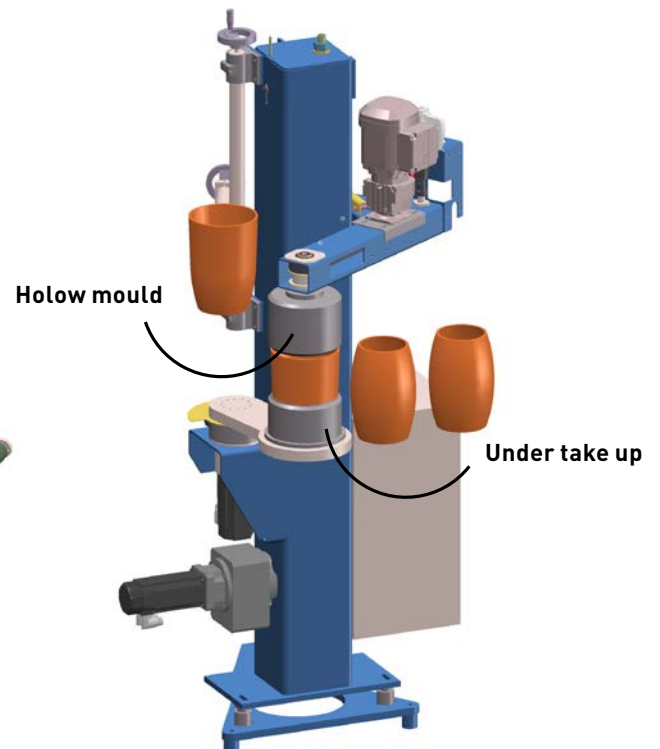
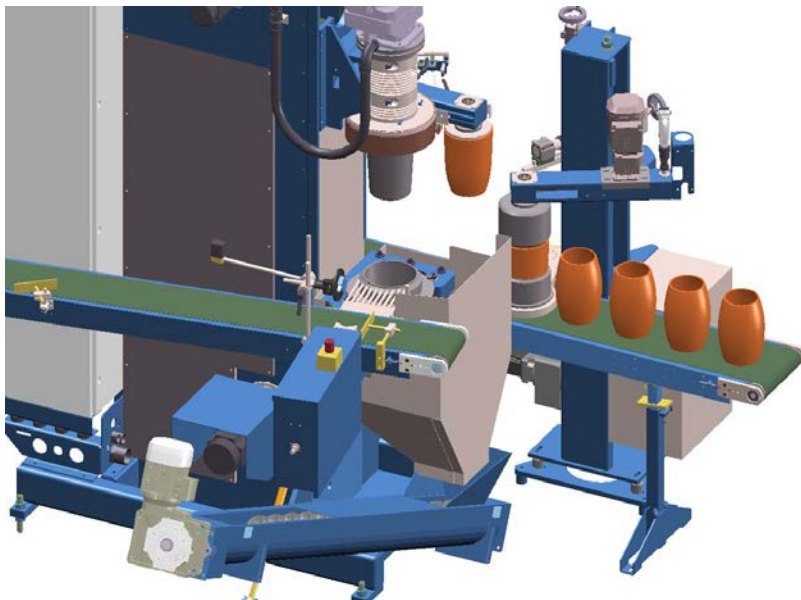
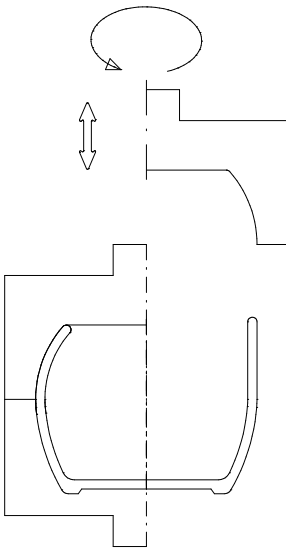


code: F-V-3-SplitM

## 6 Reshape after pressing

After the pressing it is possible to reshape the conical clay products into a hollow product.

Process: product is placed in under take-up, then a hollow mould comes over the top and presses the product inwards. (the example pictures are with other options as well)



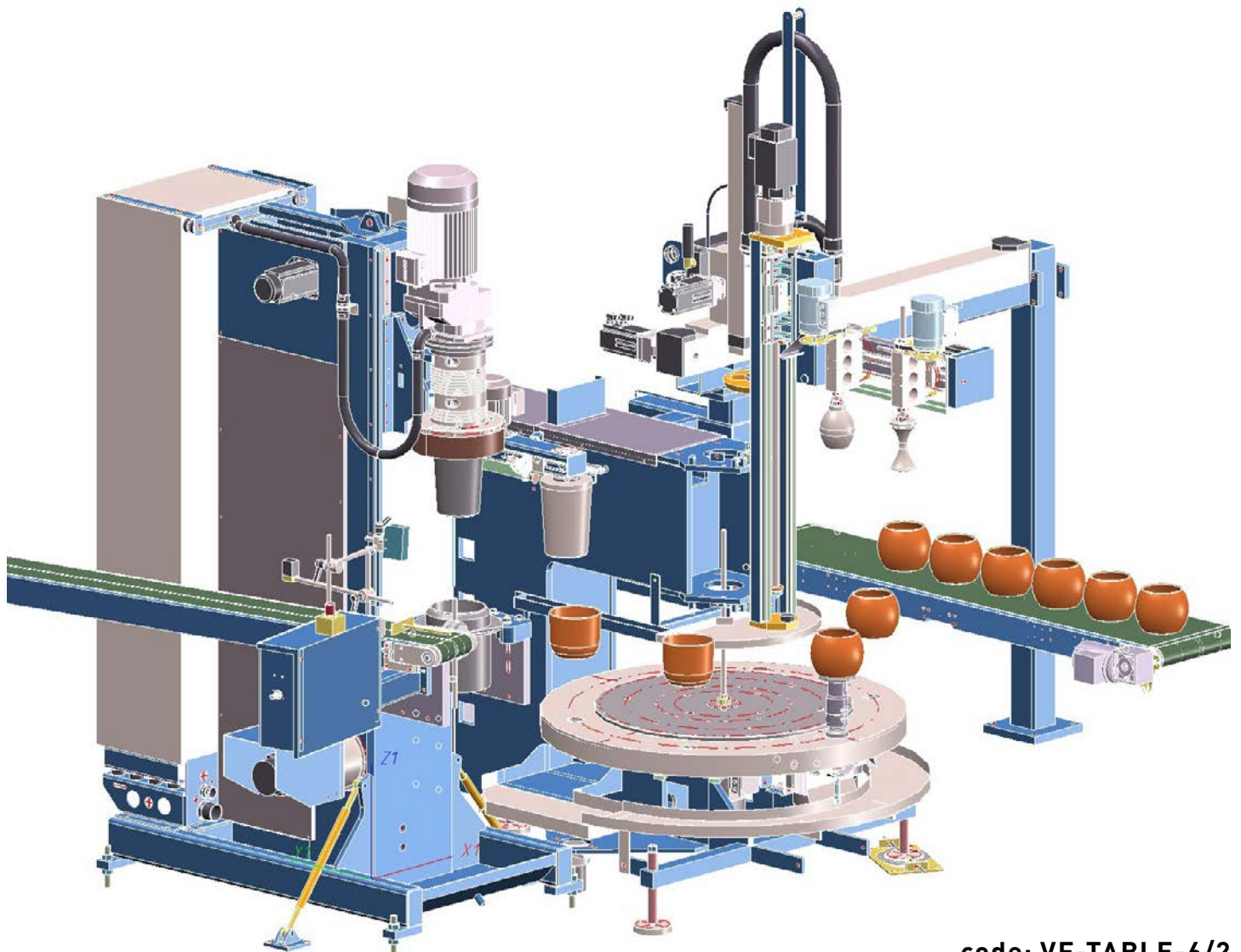
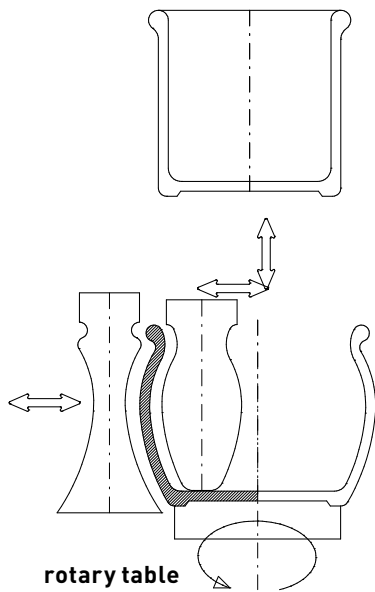
code: F-Dekor-ReShape unit



## 7 Reshape after pressing

After the pressing it is possible to reshape the conical clay products into a hollow product.

Process: product is placed on a round indexing table, than a series of reshape, or special units can rework the product. Ask us for the possibilities.



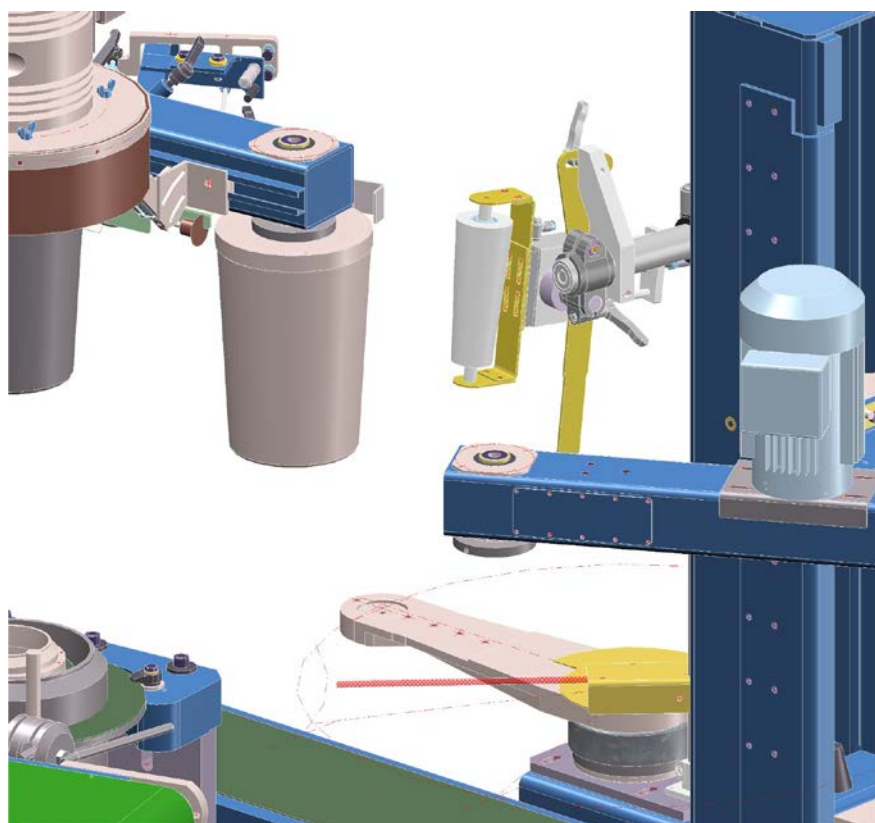
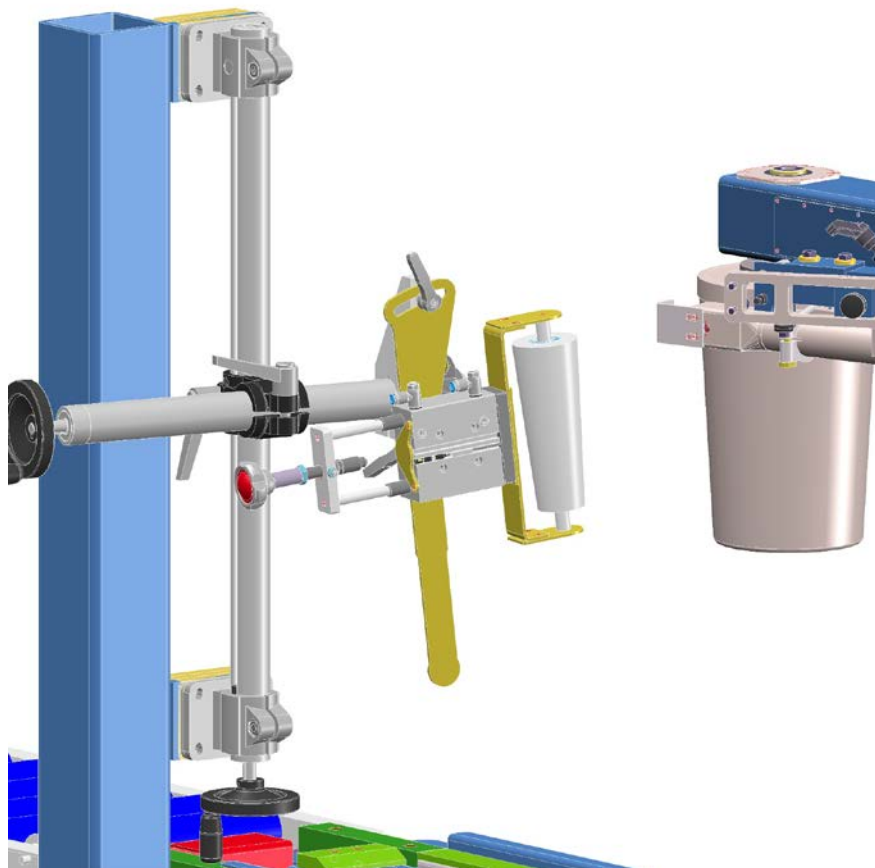
code: VF-TABLE-6/2



## 8 Decoration afterwards

Decoration Options: rolling an embossment (relief) in the product, with 2 geared servos, for perfect round and seamless decorations. or with a free running roller (shown)

Possible to have on the F-Dekor-Re-Shape unit, or a separate column (F-P-Basic)



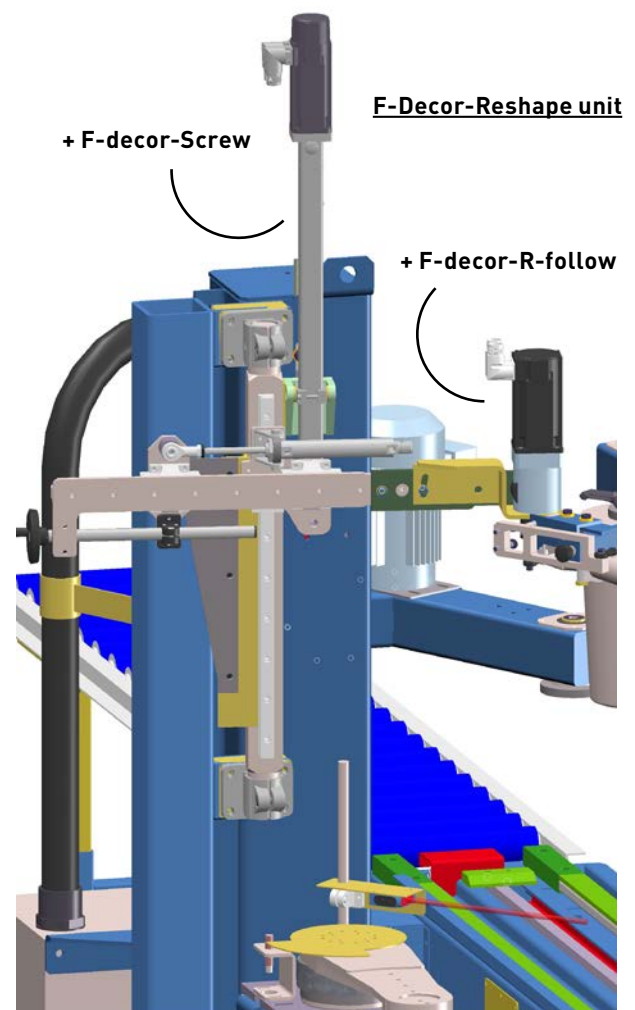
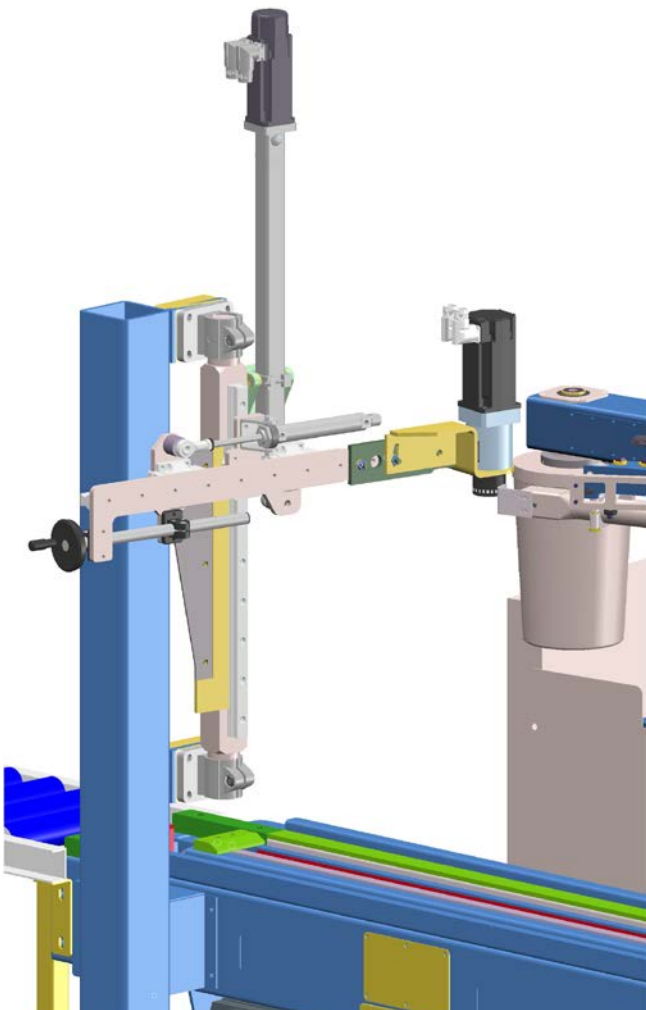
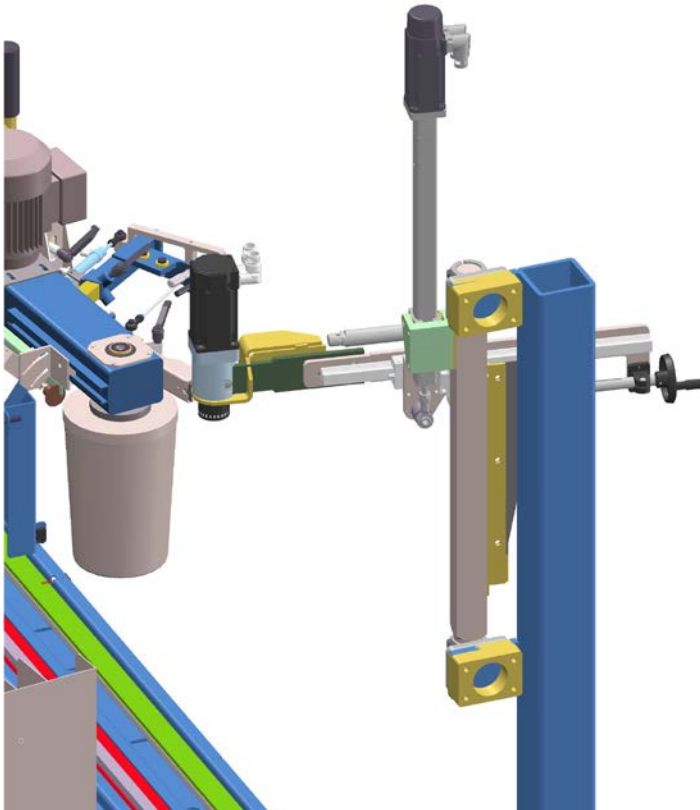
code: F-Dekor-RS  
F-Dekor-R-Follow

## 9 Decoration afterwards

Decoration Options:  
Rolling in the product a screw line, random software for endless various "pitch". Works with a Template of the product outer curve. (F-Decor-Screw)

Rolling an embossment (reliefs) in the product, with 2 geared servos, for perfect round and seamless decorations. (F-Decor-Follow)

Possible to have on the F-Decor-Re-Shape unit, or a separate colum (F-P-Basic)



code: F-Decor-R-Follow

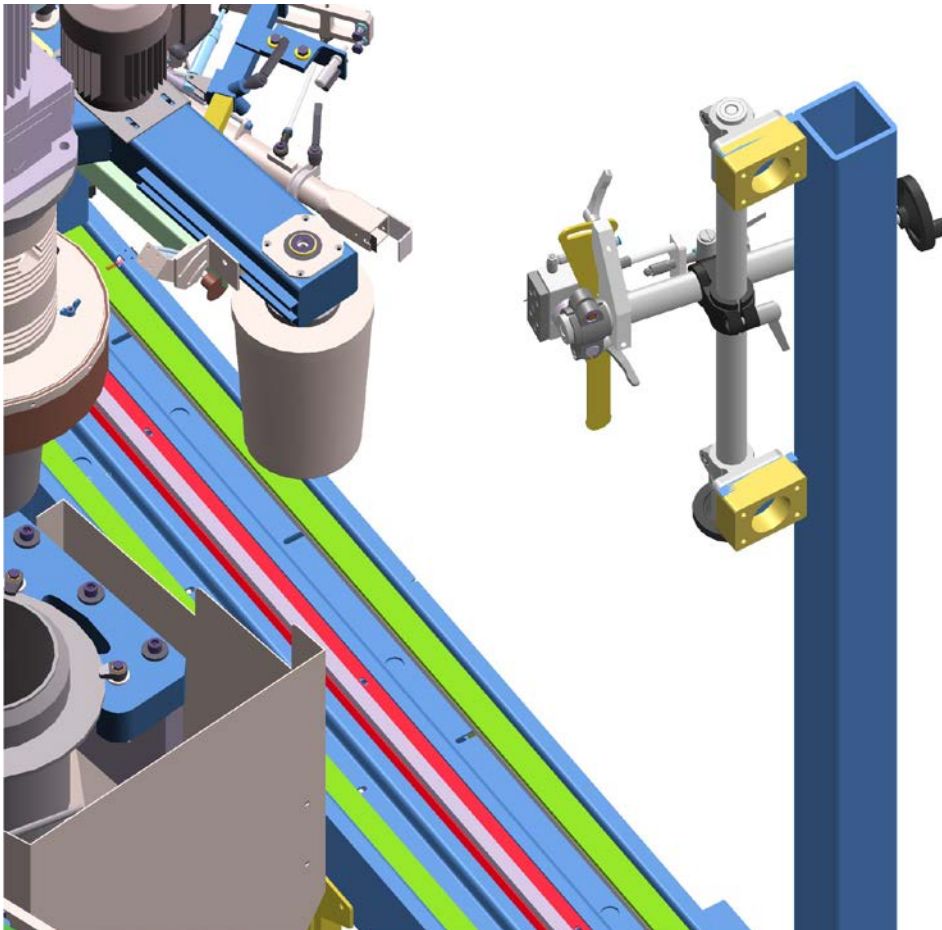
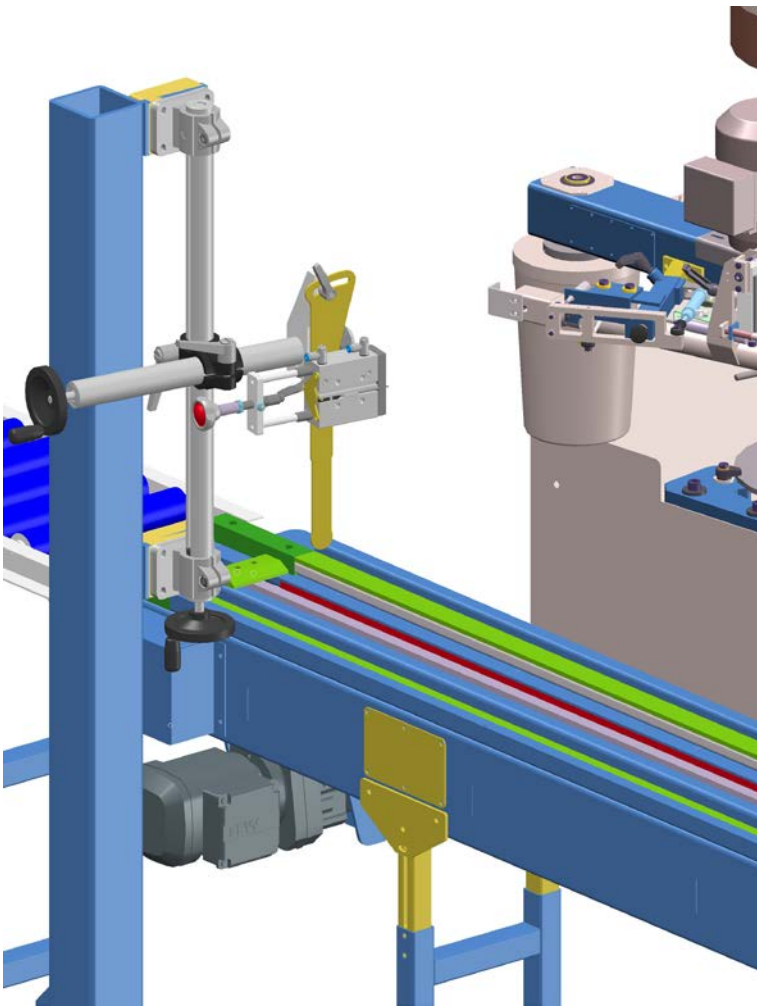
## 10 Stamp

Decoration Options: to press a stamp in the side of the product.

Possible to have on the F-Dekor-Re-Shape unit, or a separate column (F-P-Basic)

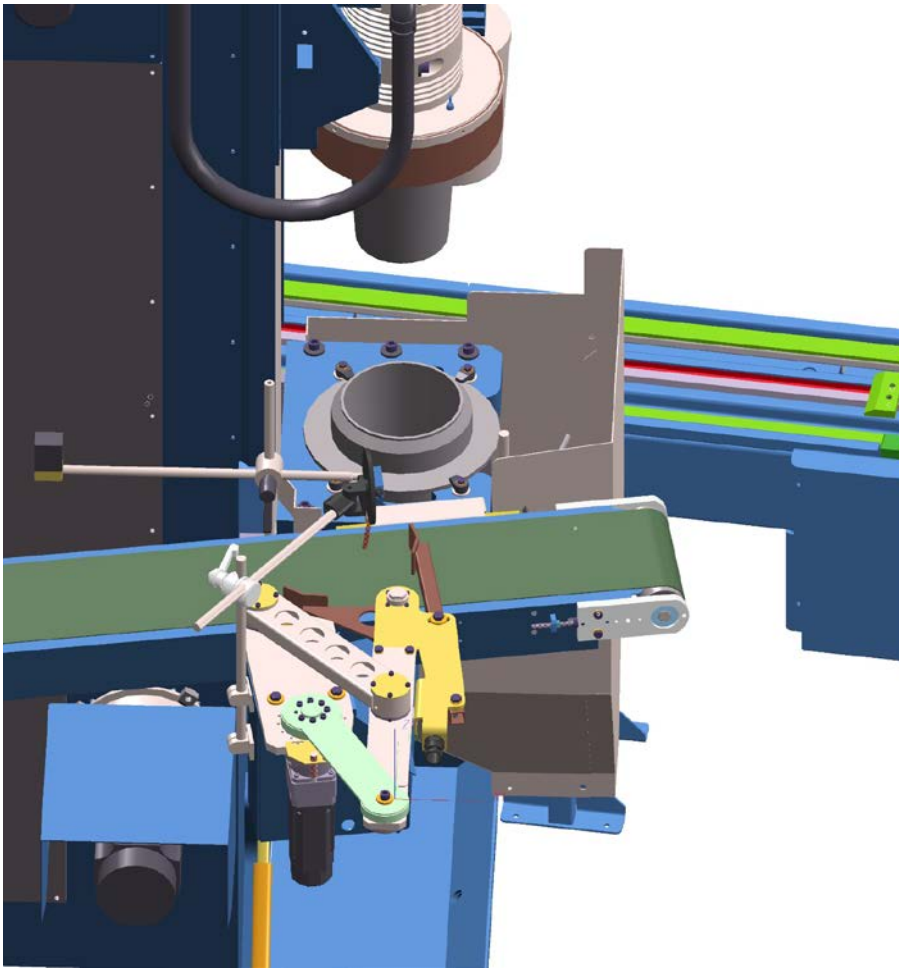
For Underside stamp option:  
F-Dekor-UnderStamp

Pictures with the: F-P-Basic



code: F-Dekor-RS



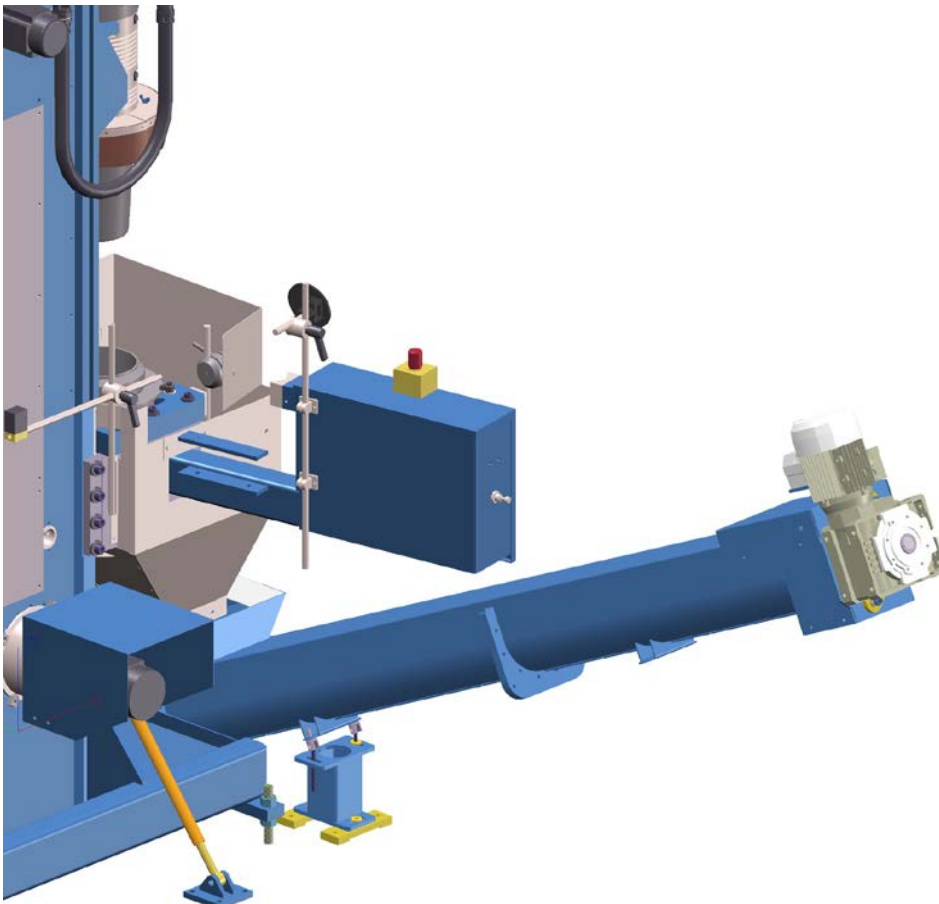


## 11 Servo Clay lay in arm

Servo Clay lay in arm: Clay slider with servo-motion and pneumatic clamp, to quickly and precisely drop the clay in the center of the mould, advantages: less stand stills due to less errors at clay put in.

Quicker production possible, and a must have for the 200 SF machine, for high production of small products

**code: F-C-S**



## 12 Reuse of the clay

Waste clay removal, it is a screw in a trough, of special design. It separates the used mould oil, so most of that will not enter your used clay mixer. Available in any length up to 6 m

**code: F-W-Clay**