



introduction of flextos`s latest development

Key facts:

The aim was to build a CNC machine based on the well known and reliable Supercut XPS basis.

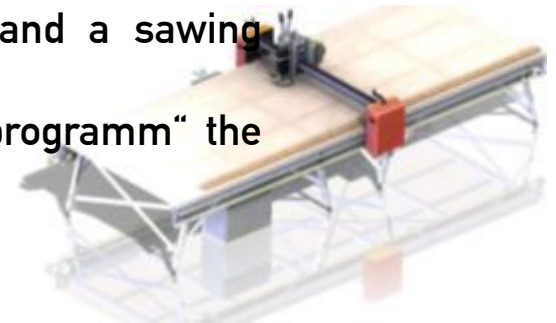
The user should be able to work with a CNC machine without having any knowledge about CNC programming. There are no special skills necessary to operate this machine.

Pre set programs like circles and different cut outs and as well a workflow of shapes production is already installed.

An open source G-code converter can convert external drawings to the machine language and give you the opportunity to build fancy shapes or ornaments.

An unique system that combines a CNC milling machine and a sawing machine into one compact system.

The big 10" touch panel has the absolute new function to „programm“ the machine in a way of like paint-by-numbers.



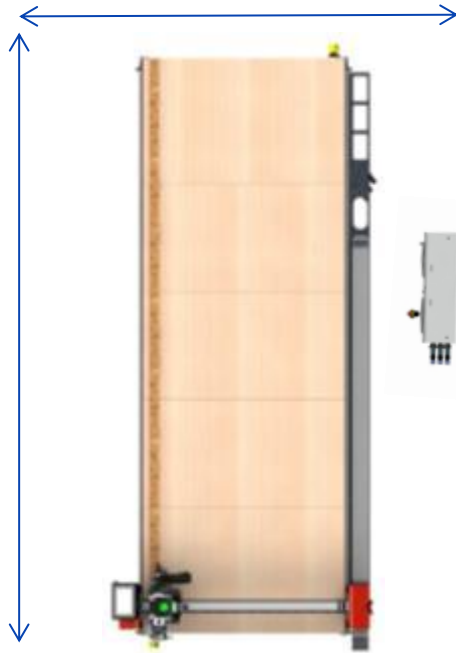
Technical data:

- machine size: L: 4900 B: 2200 H: 1200
- machine weight incl. electrical cabinet: 650 kg
- max. board size: L: 3700 B: 1400 H: 60mm
- electrical requirements: 400 V / 16A; 3- Phase
- Power of aggregates: milling unit 1,8 kW saw unit 1,5 kW
- Gantry drive with STEP Motor
- Feed rate 10 m/ min



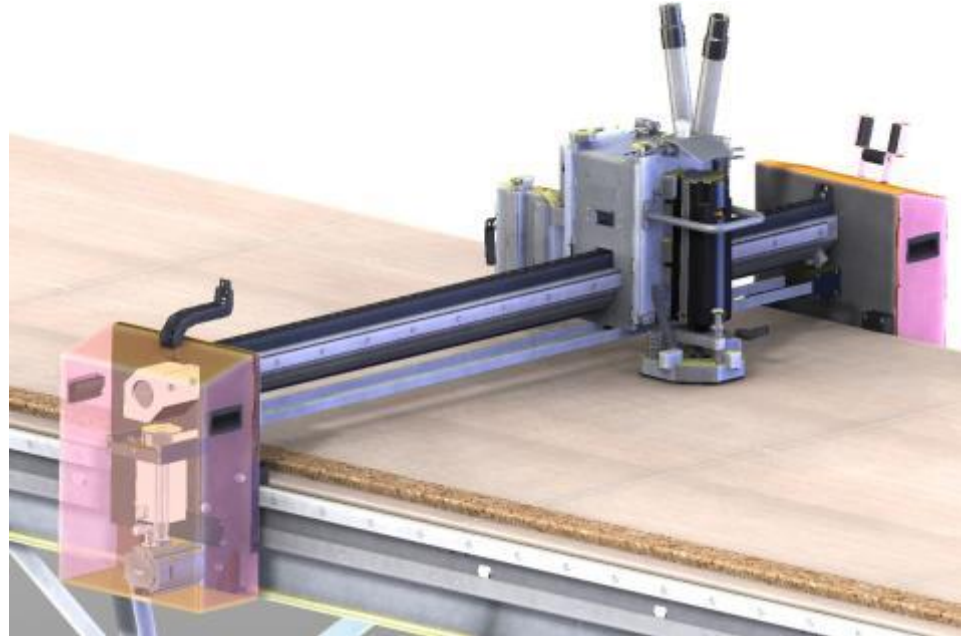
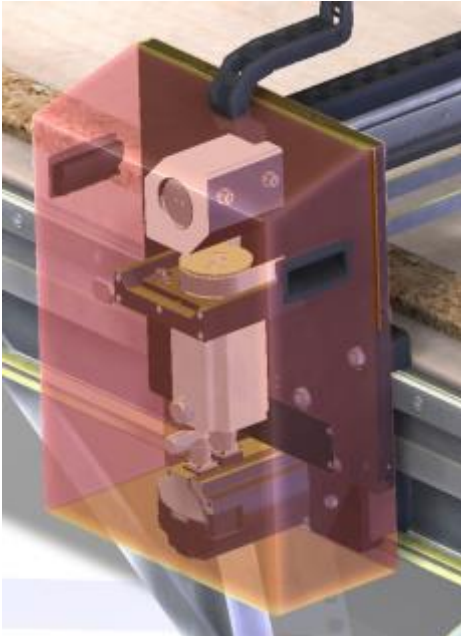
Floor layout:

- L: 7000 B: 3500 mm



Building technique:

- Robust and sealed STEPER motor on 2 axis
- Toothed belt on X and Y axis
- wrap resistant Gantry technique



control and programming

All inputs are done by a 10" big touch pad, which is mounted to the machine.

The touch panel is easy to use and understand. A intuitive software helps to programm the machine. Very similar to a smart phone.

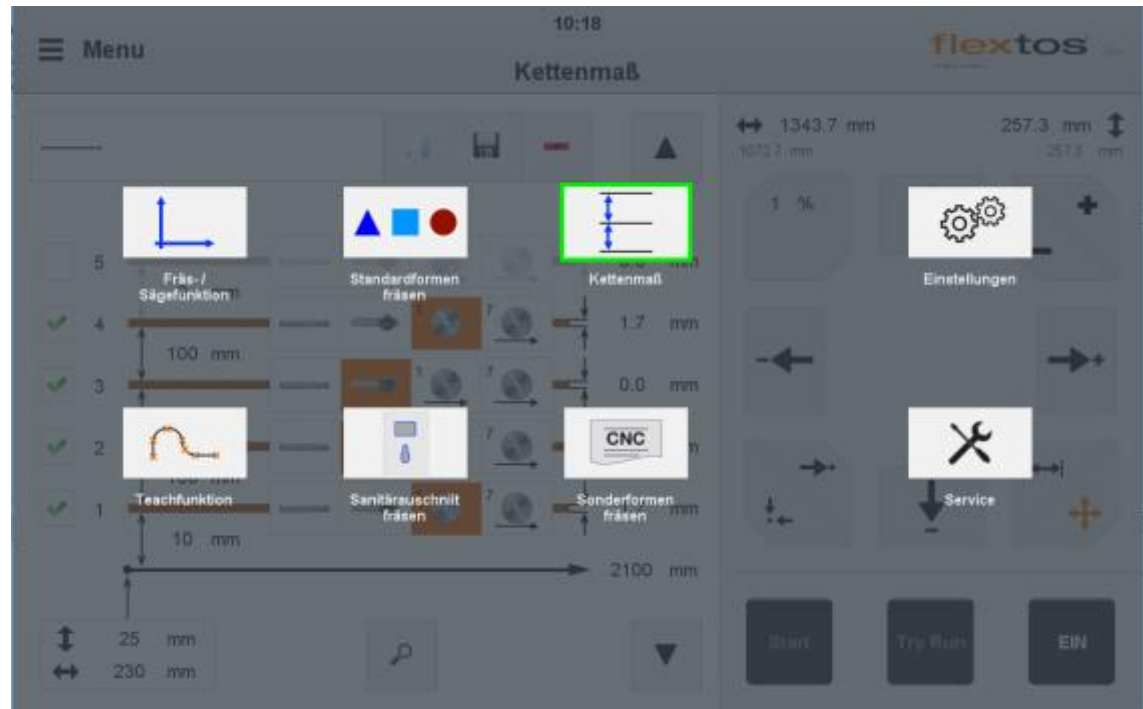
An optional handheld device give the extra flexibility to use the machine in a semi manual mode.



Programming and options on the Touch panel

Main menu

- Manual sawing and milling
- pre-set forms
- Workflow for shapes (L, U...)
- Teachfunction, „paint-by-numbers“, to produce free shapes and forms
- Serial production of repeated parts
- CNC –CAD interface for external programmes



Overview of standard forms

10:24

Menu **Standardformen fräsen** flextos

1343.7 mm 257.3 mm
1072.7 mm 257.3 mm

1 %

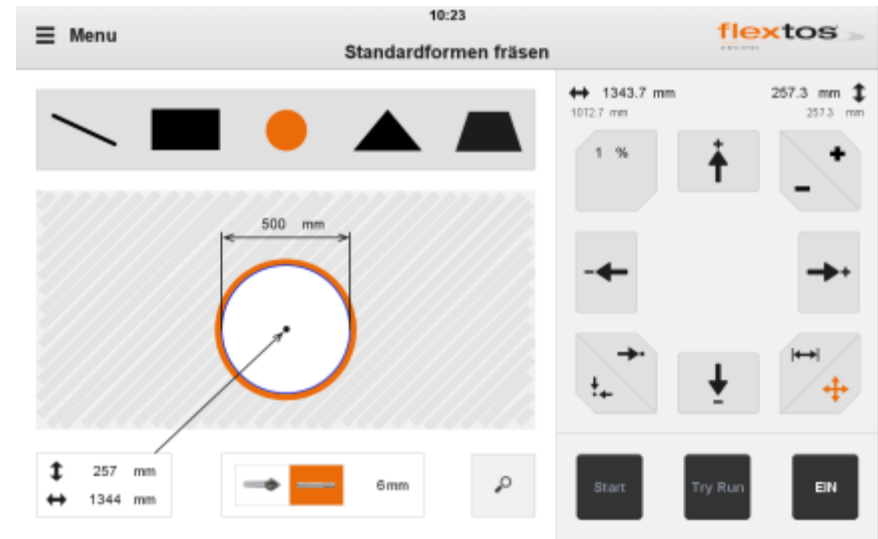
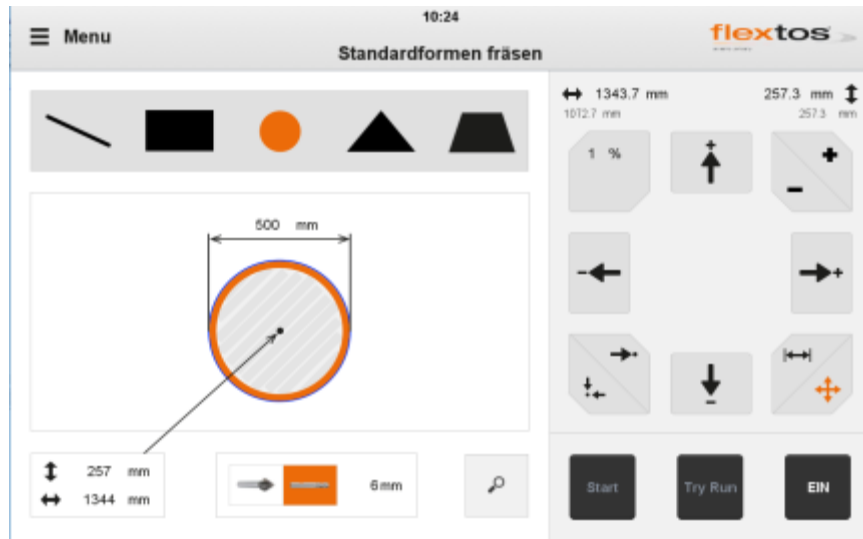
Start Try Run EIN

The screenshot shows a CNC control interface for 'Standardformen fräsen' (Standard forms milling). At the top, there is a 'Menu' button and the time '10:24'. The 'flextos' logo is in the top right. Below the title, there is a toolbar with icons for a line, square, circle, triangle, and trapezoid. The main display area shows a 3D model of a triangular part with dimensions: 300 mm height, 250 mm and 500 mm horizontal segments, and a 50 mm radius. A 6 mm diameter tool is shown. The interface includes a control panel with directional arrows and a 1% scale. At the bottom, there are 'Start', 'Try Run', and 'EIN' buttons.

Standardt form like circle cut out

Left side show a circle cut out in a board, the hatched area is waste

Right side show a circle cut out in a board, the hatched area is waste - result a disc



Overview sequence of milling and / or cutting

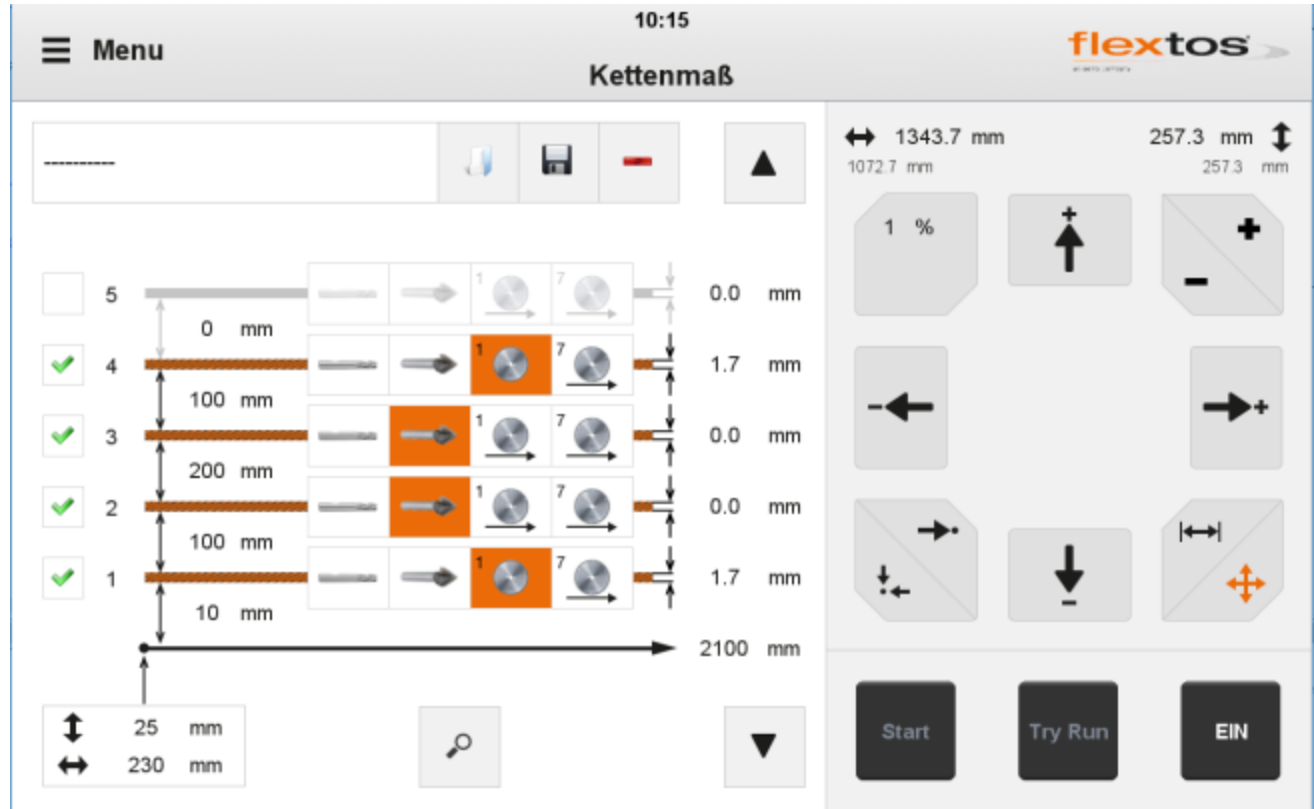
Saw cut

V-cut

V-cut

Saw cut

Result: U-shape



Overview of moving the axis

Free manual movement



Move specified distance

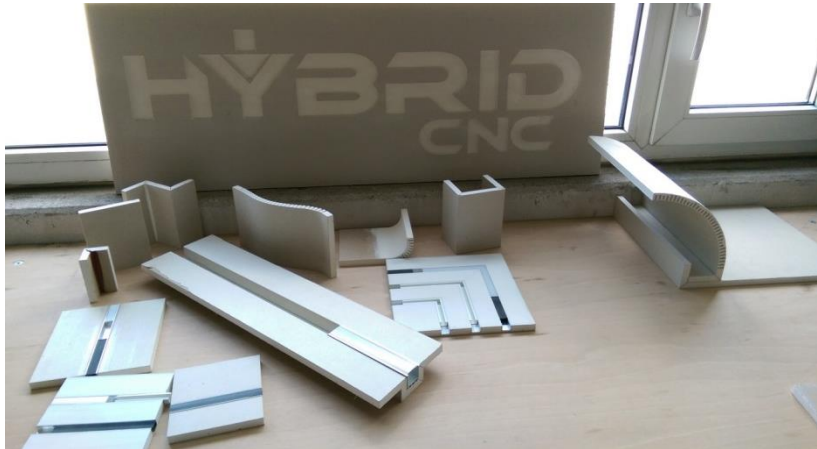


Move to a specified point



External CNC programm

The machine has a USB connector where you can upload external CNC files. A provided software converts dwg., dxf. and many other formats into a G-code and machine language. This feature allows almost unlimited possibilities in design variations.



Be part of the digital drywall future!

www.flextos.com

