



PRINT - MILL - SCAN

Our coordinate system KOSY
- a multitasking allrounder among small machines

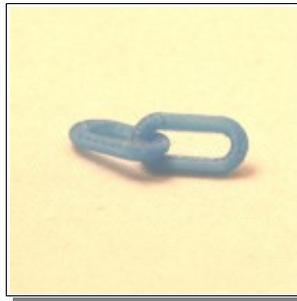
- ✓ **3D-printer**
thanks to an extruder
- ✓ **3D-milling machine**
thanks to a motor spindle
- ✓ **3D-scanner**
thanks to a scanning system



Hollow part with undercut



Empty inner space



Linked elements



Thin-walled objects

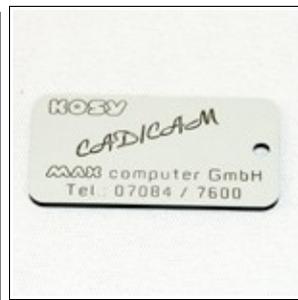


3D-models of all kinds

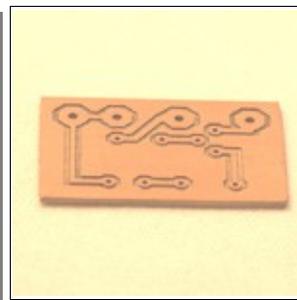
You can print a lot, but not all !



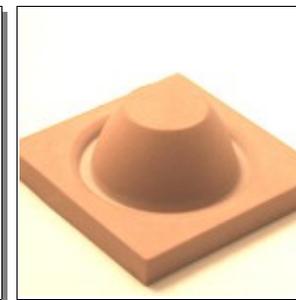
Metals



Engravings



Boards



Deep-drawing molds

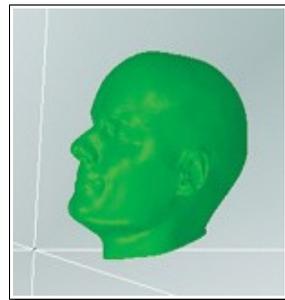


Precise shafts with threads

You can mill a lot, but not all !



It must be real wood



3D-photo



Models



Die stamp



„Spare parts“

You may want to copy a lot, go forward to print or mill it !

You will need a flexible system, able to do it

How to get this multitalented allrounder.....

Have you already got one of our milling machines – KOSY1, KOSY2, KOSY3, KOSYportal, KOSYmassive?

Upgrade these machines:

- Extruder with accessories
- Software upgrade
- Retrofitting service

Purchase of a new complete system

All our machines ordered later than October 2013 will be prepared to support all 3 applications. It is up to you to choose your equipment. Just a few simple operations are required to make a 3D-printer out of the milling machine or a scanner and vice versa.

LowCost offer

From September 2013 we offer our machine **MultiLite**. It is able to do all operations, too, but in a reduced way. Lite = in the sense of *cut down*.

Please have a look on the details

- Product info: Extruder
- Product info: Coordinate table MultiLite

Basic thoughts on the system

A wave of enthusiasm has been generated for 3D-printing, similar to a technical revolution. We, too, have been incited and tried it out. Its technology is wonderful, but, please, let's stay realistic:

You won't be able to print all, just as you won't be able to mill all. However, the two procedures complement each other very well.

The consequences we have drawn: We have been building coordinate tables for more than 20 years, equipped by motor spindles to become CNC-milling machines. Why not upgrade the coordinate table by an extruder to become a 3D-printer!

The extruder allows to press hot plastic material through a nozzle. Due to the coordinated movements of the coordinate table three-dimensional bodies are generated. Of course, extruding is not the only method, to make plastic parts, but the easiest. Precision and surface quality can be improved by injection molding or by deep-drawing technology and it takes less time, serial production becomes possible. In order to make the required forms and tools however, you need a milling machine. This is just an example for printing to be one of different options.

For us the extruder is sort of a „printhead“, other kinds of printheads are possible, but mean more effort. Please feel free to contact us if your applications are more complex.

For 3D-printing you need a file describing the shape of the body. Normally this is an STL-format. If you want to construct a part yourself, you need a 3D-CAD-software, available in different levels. And you need a CAM-program, which is able to calculate the movements suitable for the printing method. In the printing sector it is often called „Slicer“. Additionally you need an operating and controlling program for the whole system, which finally enables the production of a 3D-part. Software plays a major part in this system, it makes the difference in ease of use and handling. Therefore we are sure there will be big changes in the next years, not only in our company.

For some time already we have been using STL-files for milling as well – Even here the two production methods match well.

Go for printing a part

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