

Technical Data

	<i>MiniFLAT</i> [®] 40	<i>MiniFLAT</i> [®] 80	<i>MiniFLAT</i> [®] 100
Traversing range X/Y/Z (mm)	300/400/150	300/800/150	300/1000/150
Table clamping area WxD (mm)	325x800	325x1200	325x1600
Opening (mm)	200		
Dimensions WxDxH (mm)	750 x 1030 x 700	750 x 1430 x 700	750 x 1630 x 700
Process speed X/Y/Z (mm)	50/100		
Repeat accuracy (mm)	≤ 0,02		
Drive motors	Stepper motors		
Drive elements X/Y/Z	Ball screw drives, clearance free adjustable 16 x 5 mm / 16 x 5 mm / 16 x 2,5 mm		
Control	Step-Controller iMC-P		
Operation	Function keys, Emergency OFF, optional: Control panel		
Software	PAL-PC, Remote optional: Galaad		
Item-No.*	281110 1101	281111 0101	281111 1101

* Is only valid for the basic configuration without base and protective cover!

Technical specifications subject to change!

made by *isel*[®]

isel[®]
From Components to Systems

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MiniFLAT[®]

CNC Machines with Stepper Motors



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General

MiniFlat[®] CNC machines are machines for various lines of business and fields of application with a good value for the money. We are able to provide complete solutions for proportioning, engraving, measuring, drilling and milling applications.

The basis is made of rigid steel and aluminium constructions of **isel** system profiles and elements. The play-free ball screw drives, used in the positioning axes, provide for high precision, accuracy and smooth running.

MiniFlat[®] CNC machines are available as compact units in standard sizes with traverse paths of X = 300 mm, Y = 400/800/1000 mm, Z = 150 mm in open and closed design as well as with and without base frame.

The linear units with stepper motors are optimally matched to the mechanics, the power electronics and the controller together with the software.

The Controller with Industry-PC iPC 10 is located at the back of the **MiniFlat**[®]. The function keys and the emergency OFF are standard affixed at a hand control element. Optionally a CNC control terminal with a 10"-monitor and touch screen can be integrated.

In case of the **MiniFlat**[®] the portal section is being moved about the fixed table in X/Y-bearing. This design makes the machines particu suitable for machine cutting up to four axis.

A wide range of functional application accessories and software applications as well as versions with other feed ranges are available for all CNC desktop machines.



Illustration:
MiniFlat as desktop machine with protective cover and control terminal

Illustration:
MiniFlat with base and protective cover as well as control terminal

Fields of Applications

- Drilling and milling
 - Fastening
 - Imprinting and engraving
 - Soldering and welding
 - Kleben und Vergießen
 - Bonding and casting
 - Arts and crafts
 - Modelbuilding
 - PCB assembly
 - Rapid Prototyping
 - Wood working
 - Education training
- ... and for many other applications!

Options

- Drilling/Milling spindle
- Frequency converter
- Tool changer
- Cooling / Spraying device
- Rotary Unit iZD 54
- Protective cover
- Base frame
- Control terminal
- Industry-PC iPC
- Extraction system
- Vacuum clamping plates
- Pneumatic accessoires
- I/O Module
- Software-Applications