

# CNC Machine

with servo controller

**FLATCom**<sup>®</sup>  
Series M

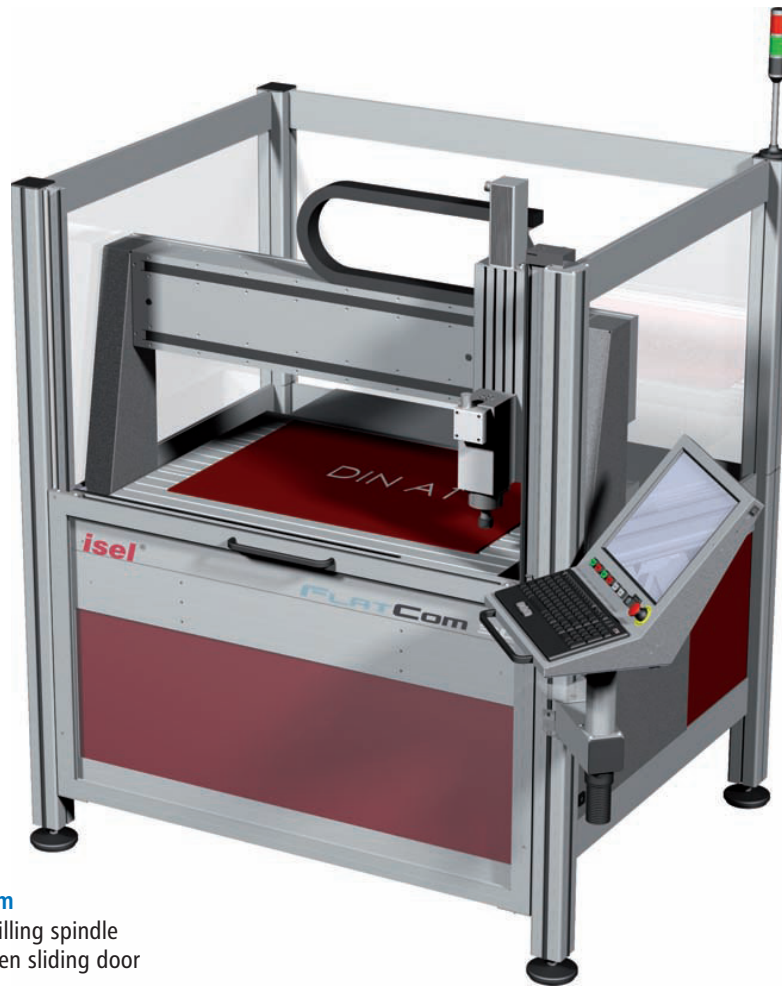


Figure: **FlatCom**  
with milling spindle  
and open sliding door

## General

**FlatCom**<sup>®</sup>-CNC machines are set-up modular, with high operating comfort for a multitude of automatable tasks at an ideal price/performance ratio.

The basis is a sturdy aluminum steel frame with linear units. The clearance free ball screw used in the linear axes ensure high precision, accuracy and quiet running.

**FlatCom**<sup>®</sup>-CNC machines are available as compact units in 4 standard sizes with traverse paths of

X = 550 / 900 mm,  
Y = 350 / 650 / 950 / 1250 mm,  
Z = 200 mm

in open and closed design with sliding door and transparent cover.

The DC servo motors of the 3 axis (max. 4 axis) are ideally adjusted to the mechanics, control and software.

The controller of the **FlatCom**<sup>®</sup> with safety circuit and zero speed monitor is located at an integrated control cabinet. Operation is via a control panel with 17" monitor with touchscreen, keyboard and mouse.

On the **FlatCom**<sup>®</sup> the portal area is fixed and the thereon attached workpiece is moved on the fixed machining table.

For all CNC machines (standard color: grey) extensive accessories and software applications as well as designs with larger traverse ranges are available.

Technical specifications subject to change.

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## Series M

### Applications

FlatCom®-CNC Machines are the basis for the set-up of machines for:

- Drilling and milling
- Assembling and mounting
- Imprinting and engraving
- Metering and Fastening
- Buring and polishing
- Forming and modeling
- Bonding and casting
- Soldering and welding
- Measuring and testing
- Scanning and scaling
- Sawing and cutting
- ... etc.

### Options

For FlatCom®-CNC Machines special devices and tools for different requirements and applications are available:

- Drilling and milling spindle
- Frequency converter
- Tool changer
- Cooling/spraying device
- Rotary unit
- T-Groove table milled
- Extraction
- Protective cover

- Vacuum clamping plates
- Pneumatic accessories
- CNC Joystick
- I/O Module
- Applications
- Direct drives

We are able to design and manufacture special machines.

### Technical specifications

	FLATCom® M 35	FLATCom® M 65	FLATCom® M 95	FLATCom® M 125
Traversing range X/Y/Z (mm)	550x350x200	550x650x200	900x950x200	900x1,250x200
Table clamping area WxD (mm)	700x500	700x750	1,050x1,000	1,050x1,500
Opening (mm)	250			
Dimensions WxDxH (mm)	1,160x900x1,700	1,160x1,200x1,700	1,480x1,500x1,700	1,480x1,800x1,700
Guides	Linear units with precision steelshafts and ball circulation skid, clearance free adjustable			
Process speed X/Y/Z (mm/s)	≤ 250			
Repeat accuracy (mm)	≤ 0,02			
Drive motors	Servo motors			
Drive elements X/Y/Z	Ball screw assemblies adjustable backlash-free			
Control	CAN controller iMC with 3 drive regulators CAN PC computer with I/O module safety circuit with zero speed monitoring Power supply 48 V / 1,000 W			
Operation	CNC Control Panel 17" mit Touchscreen, Tastatur und Maus			
Software	Windows, ProNC, isy CAD-CAM			
Weight (kg)	300	350	450	525
Item no.	275303 32665	275313 32665	275323 32665	275333 32665

Technical specifications subject to change.