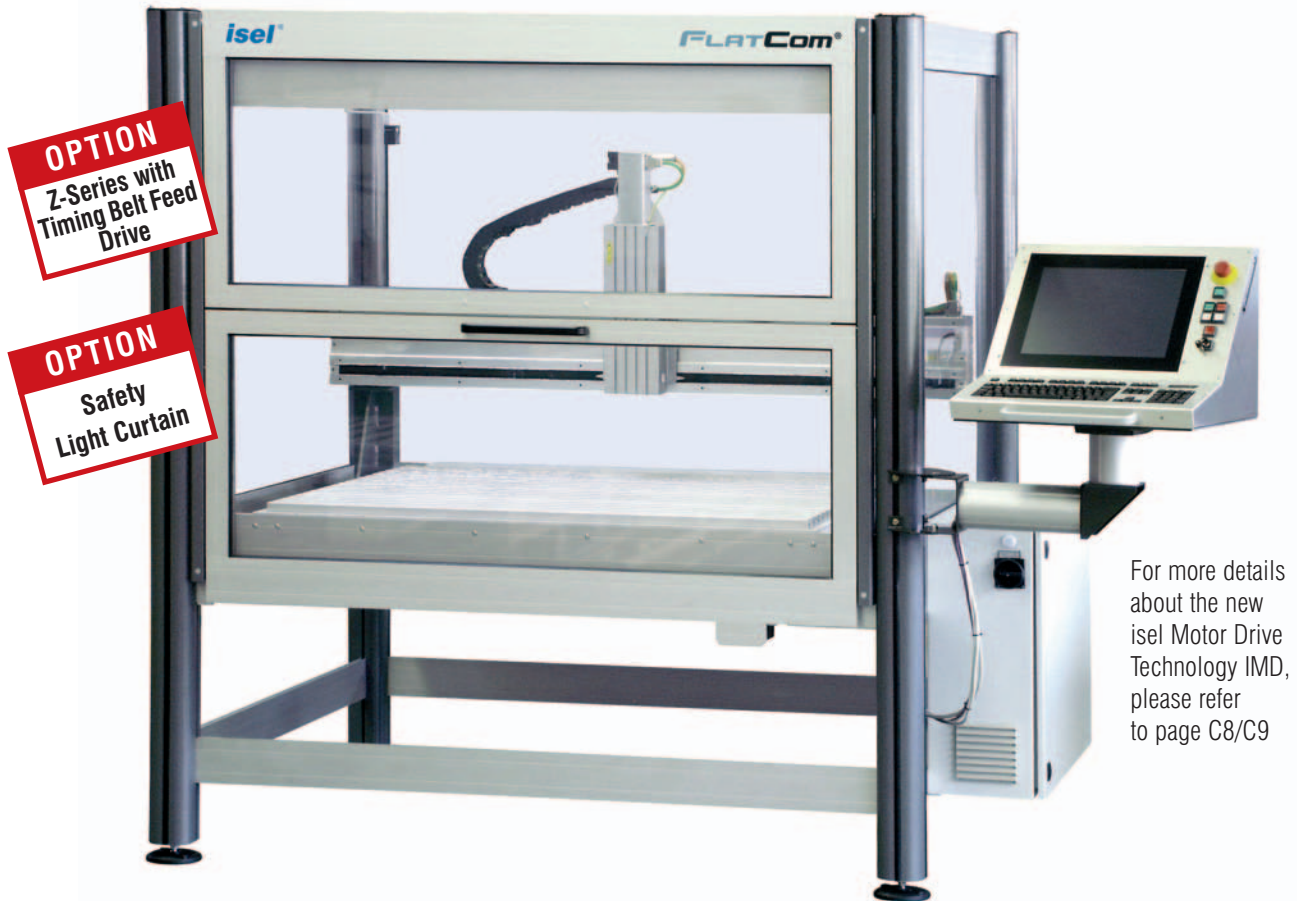


**FLATCom® 1****GANTRY Base Units K Series**... with **isel** Motor Drive Technology **IMD**

FLATCOM with closed cover

For more details about the new isel Motor Drive Technology IMD, please refer to page C8/C9

**FLATCOM** Base units are a modular design series with multiplies axes options with a max. of 5 axes configuration. The FLATCOM series are constructed to facilitate high rigidity and low vibrations, offering machining and positioning capability with travel ranges from 600 to 1,400 mm

The standard gantry clearance is 200 mm with (optional 300 mm)

The anodized aluminium profiles used for the **FLATCOM** construction are isel own special profiles combining high stiffness and low weight factor.

The Z-axis with T-slot profile (pitch dimension 25 mm) allows for mounting various attachments offering many types of applications.

The **FLATCOM** base units are delivered in five basic rack design sizes. They are available with or without protecting

cover, with add-on control cabinet as well as the isel CNC control panel and arm unit.

Space-saving vertically opening doors are installed as protecting covers.

Ballscrews with isel motors offering a positional repeatability of  $\pm 0.01$  mm serve as axis drives for the K series

The linear units are highly accurate with high torsion resistance with preloaded linear bearings and anti-backlash ballscrews assemblies.

All units are fitted with two limit switches per-axis.

The standard **FLATCOM** base units as well as custom made solutions are constructed with isel range of components, offering smooth and high speed travel.

## General applications

FLATCOM GANTRY base units are constructed for examples:

- Assembling and mounting operations
- Printing and engraving
- Drilling and milling
- Dispensing and screw fixing
- Shape forming and modelling
- Pasting and casting
- Laser and water jet cutting
- Soldering and welding
- Measuring and test reporting
- Sawing and cutting

and many other possible applications

## Options available for the FLATCOM GANTRY Base Unit

- DVD drive
- Ball threaded spindle, pitches 2,5 mm or 10 mm (standard: 5 mm)
- Milling and engraving spindles
- Tool changing station
- Tool levelling
- Cooling/spray units
- Vacuum clamping table
- Exhaust device (in preparation)
- Safety light curtain

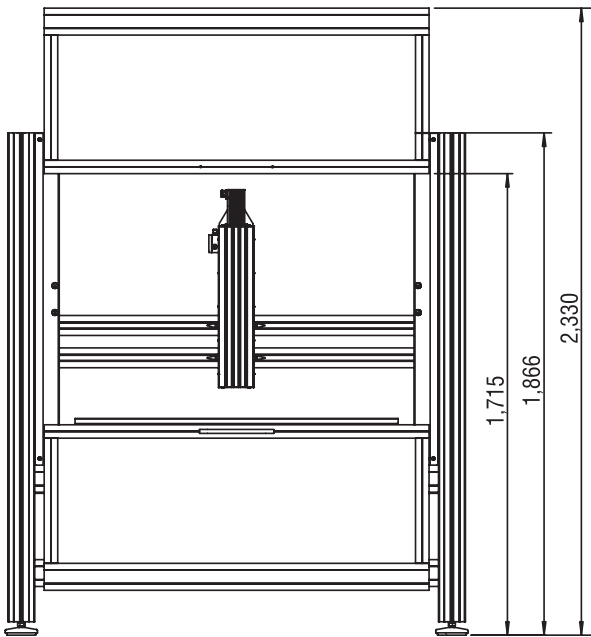


FLATCOM 40-H with undercarriage, protection cover and machine operating console

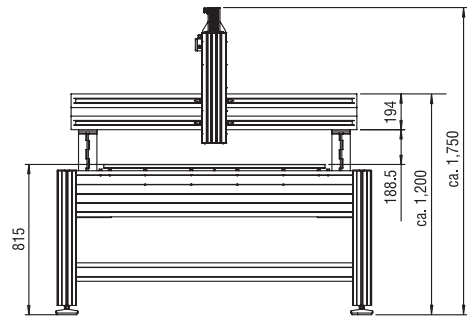


FLATCOM 40-U with undercarriage, without Cover

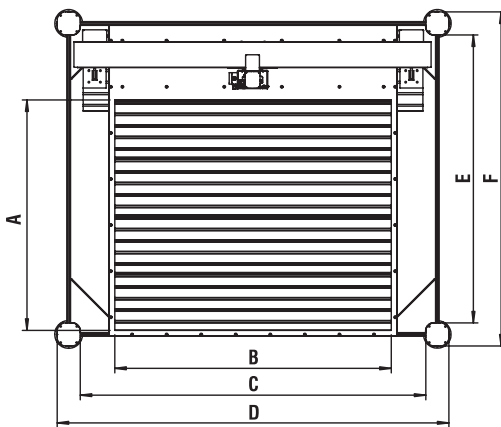
Scale Drawing / Dimensions



FLATCOM with Undercarriage and Cover



FLATCOM with Undercarriage, without Cover



	A	B	C	D	E	F
<b>FLATCOM 1/20</b>	750	750	1,000	1,200	650	1,150
<b>FLATCOM 1/30</b>	1,000	750	1,000	1,200	1,250	1,450
<b>FLATCOM 1/40</b>	1,000	1,250	1,500	1,700	1,250	1,450
<b>FLATCOM 1/50</b>	1,500	1,250	1,500	1,700	1,750	1,950

Technical Data

	FLATCOM 1/20	FLATCOM 1/30	FLATCOM 1/40	FLATCOM 1/50
<b>Feed range (X/Y) [mm]</b>	700 / 600	700 / 900	1,200 / 900	1,200 / 1,400
<b>Surface clamping table [mm]</b>	750 / 750	750 / 1,000	1,250 / 1,000	1,250 / 1,500
<b>Z-travel [mm]</b>	150 (optionally 250, each without machining facility)			
<b>Z-throughput [mm]</b>	200 (optionally 300, each without machining facility)			
<b>Dimensions with control cabinet and cover [mm]</b>	W = 1,420 D = 1,150 H = 1,870	W = 1,420 D = 1,450 H = 1,870	W = 1,920 D = 1,450 H = 1,870	W = 1,920 D = 1,950 H = 1,870