

Flat Bed and Gantry Units

FB2 / PA1 / PA2



Flat Bed Unit with Z Axis



Gantry Unit with Z Axis

isel X/Y/Z multiple axis units, handling units and positioning units with travels from 250 to 1250 mm are constructed on the basis of a modular system.

Stepper motors up to 300 Ncm and playfree ballscrew drives with a repetition accuracy of ± 0.01 mm (positioning reproductibility) are used as axis drives.

The linear guides that we use are the successful isel double track drives, proven for many years, with play-free linear ball bearings and ball screws with an accuracy of ± 0.01 mm.

In this redesigned version, all units are now equipped with two limit switches per axis.

The machining and positioning units are available in several constructions and different sizes and are characterised by low-friction running and high travel speeds. Low weight and high accuracy are achieved by using high quality aluminum components with surfaces, trimmed by milling.

The isel X/Y/Z units are the ideal basis for the construction of machines for: automatic placement and mounting, printing and engraving, drilling and milling, dosing and screwing, forming and modelling, glueing and sealing, soldering and welding, measuring and checking, sawing and cutting, etc.

Options for the Flat Bed Units

- adapted controllers for different application ranges
- Software modules for the operation in CAM, CNC and SPS applications
- DC servo motors instead of stepper motors (standard feature)
- intelligent stepper motors (with integrated power electronics)
- without motors, with input shaft extension
- different ball screw thread pitches (2,5 mm or 5 mm)
- Underframe (see picture on the left)
- Enclosed hood
- Other accessories see page E23 – E 31



Controller C-142
controlled by a Laptop

Ordering Data

FB2 / PA1 / PA2

X/Y-Flat Bed Units FB2

Item No.	Without Motor Item No.	Clamp. surface (mm)	Travel (mm)	Passage (mm)
246 203	246 208	850 x 750	500 x 530	190
246 203 2040	246 208 2040	1,100 x 750	750 x 530	190
246 203 2067	246 208 2067	1,350 x 1,000	850 x 780	190
246 203 2130	246 208 2130	1,750 x 1,250	1,250 x 1,030	190
246 203 3027	246 208 3027	850 x 750	500 x 530	300
246 203 3040	246 208 3040	1,100 x 750	750 x 530	300
246 203 3067	246 208 3067	1,350 x 1,000	850 x 780	300
246 203 3130	246 208 3130	1,750 x 1,250	1,250 x 1,030	300
246 203 5027	246 208 5027	850 x 750	500 x 530	500
246 203 5040	246 208 5040	1,100 x 750	750 x 530	500
246 203 5067	246 208 5067	1,350 x 1,000	850 x 780	500
246 203 5130	246 208 5130	1,750 x 1,250	1,250 x 1,030	500

All flat bed units are equipped with a **16 x 4 mm ball screw** as standard

Underframes for the Flat Bed Units

Item no.	suitable for flat bed unit with clamping surface:
248 500 0027	850 x 750
248 500 0040	1,100 x 750
248 500 0067	1,350 x 1,000
248 500 0130	1,750 x 1,250

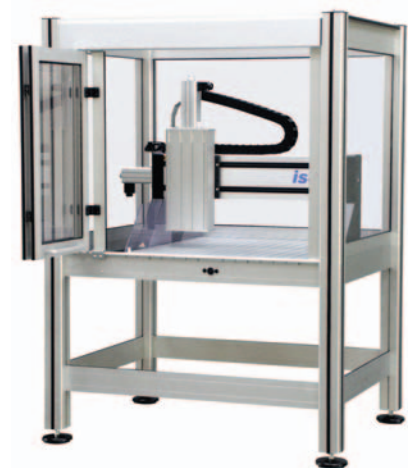


Z axes for the Flat Bed Units

Item No.	Stroke (mm)	
230 514 0300	75	with electromagnetic brake 24 V
230 514 0400	160	with electromagnetic brake 24 V
230 514 0500	260	with electromagnetic brake 24 V
230 514 0700	460	with electromagnetic brake 24 V

Enclosed Machine Hood for the Flat Bed Units

Item no.	suitable for flat bed unit with clamping surface:
248 200 0000	850 x 750
248 200 2040	1,100 x 750
248 200 2067	1,350 x 1,000
248 200 2130	1,750 x 1,250



Attention: The matching underframe has to be ordered separately.

Gantry Units PA1 / PA2

Item no.	Without Motor Item no.	Travel (mm)	Ball screw drive (mm)	Stroke (mm)
242 401	242 408	240 x 280	16 x 4	75
242 402	242 409	280 x 490	16 x 4	75
243 401	243 408	240 x 280	16 x 4	without Z axis
243 402	243 409	280 x 490	16 x 4	without Z axis

Software

Item no.	
Z13-33 7020	isy-CAM 2.5 light (only available in combination with an unit)