FlatCom® XL

The allrounder

- heavy milling process
- windows-based software
- gantry drive with large travels
- available in five sizes
- complete with motors, controls, PC and monitor

PILZ
THE SPIRIT OF SAFETY
INSIDE

Fig. FlatCom® XL 142/252
equipped with control panel
iOP-19

isel®

FlatCom®XL | The allrounder

Do you mainly want to machine non-ferrous metals such as aluminum, brass and bronze?
Do you need travels of more than 2,000 mm? In this case, our allrounder will come into play.

The travel unit is mounted on the table surface. This is why it has a high level of stability, since it is connected to the stiffened machine frame. The machine remains vibration-free even at higher speeds.

Features

- various portal passages with an extended Z-axis
- powerful isel control
  with maintenance-free servomotors
- reliable LES units
  with steel ball screws installed as drives
- PILZ security technology
- easy to use thanks to the height-adjustable CNC panel
- network-compatible control PC with WIN 10
- sliding/folding door
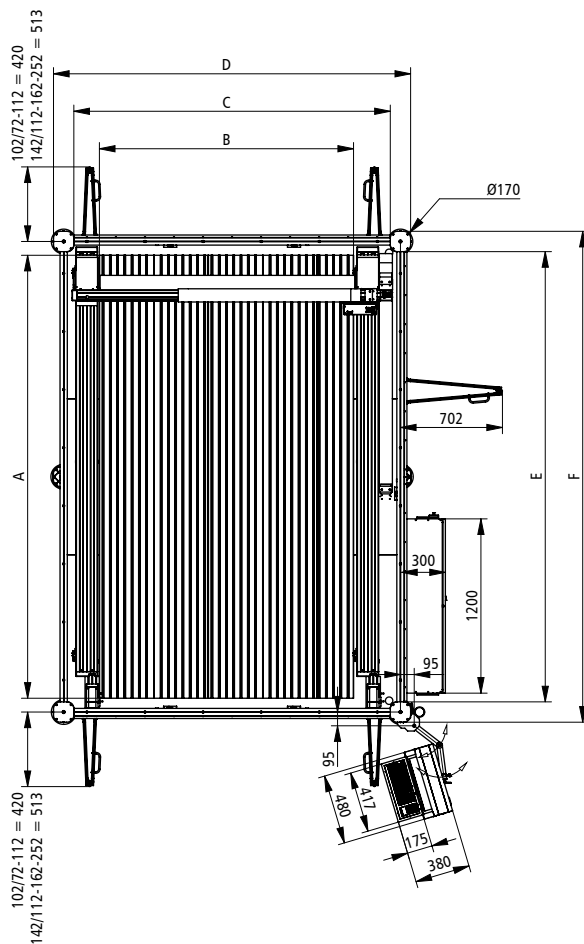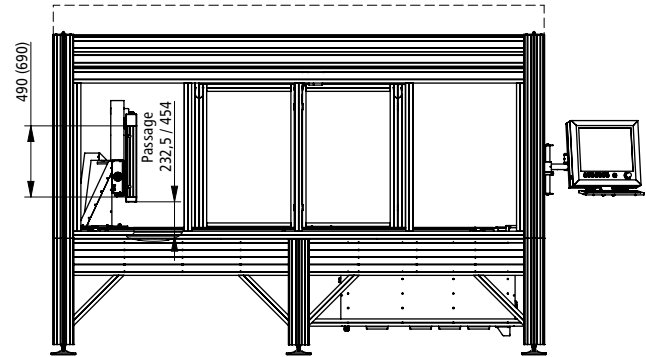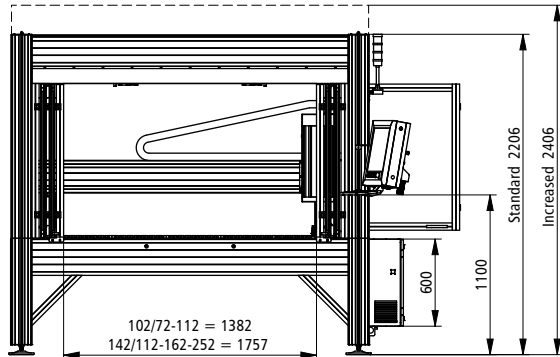- clamping of the workpieces by means of a T-slot plate

Options

- iSA milling spindles and water-cooled HF milling spindles
- round and linear tool changing stations
- cooling spray device
- cold air cooling, cool-min
- automatic tool length measurement
- mill breakage control
- electronic handwheel
- pneumatic sliding door
- rotation units
- a maximum of 6 interpolating axes + 6 handling axes
- safety light curtain
- closed and/or light-tight hood for laser applications
- hood attachment with increased portal passage
- workpiece clamping systems (hand lever, vacuum clamping tables, etc.)
- extraction systems
- LED engine room lighting
- RAL colour selection
- PC control panel with free PCI slots
  (for the use of external PCI hardware)
- interface adjustments
- CAD/CAM software

Technical data

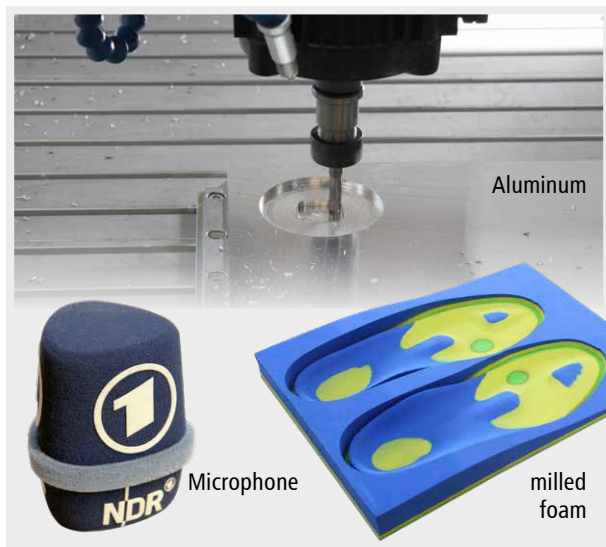| FlatCom®	XL102/72	XL102/112	XL142/112	XL142/162	XL142/252
Travel ranges X/Y [mm]	1125/720	1125/1100	1500/1100	1500/1600	1500/2500
Z stroke [mm]*	210 (optional: 410, each without processing unit)				
Z passage [mm]*	230 (optional 450, each without processing unit)				
Table clamping area WxD [mm]	1375 x 1300	1375 x 1700	1750 x 1700	1750 x 2200	1500 x 3100
Dimensions WxDxH [mm]	2114 x 1614 x 2206	2114 x 2014 x 2206	2489 x 2014 x 2206	2489 x 2514 x 2206	2489 x 3410 x 2206
Equipped with control cabinet & open doors	2338 x 1949 x 2206	2338 x 2684 x 2206	2713 x 2871 x 2206	2713 x 3371 x 2206	3106 x 4267 x 2206
Travel speed X/Y/Z	max. 15 m/min.				
Drive motors	Maintenance-free EC/AC servomotors				
Drive elements X/Y/Z	Ball screw drive, set without clearance				
Control	CAN controller iMD equipped with 3 drive controllers which are expandable to 12 axes (max. 6 interpolated & 6 handling axes), PC, I/O module, safety circuit equipped with standstill monitoring, power supply 48 V / 1000 W, PILZ safety technology inside				
Operation	Control panel iOP-19 touchscreen equipped with keyboard and touchpad				
Software	WinRemote (optional: ProNC, isy-CAM)				
Weight [kg]	approx. 680	approx. 730	approx. 840	approx. 930	approx. 1,180
Electrical specifications	400V, 16A				
Part No. (Z stroke: 210 mm)	278040 232443*	278041 232443*	278042 232443*	278043 232443*	278044 232443*

*without installed components on the axes.

FlatCom®XL | Dimensional drawing [dimensions in mm]

FlatCom®XL	102/72	102/112	142/112	142/162	142/252
A	1300	1700	1700	2200	3050
B	1375	1375	1750	1750	1750
C	1804	1804	2179	2179	2179
D	2084	2084	2459	2459	2459
E	1304	1704	1704	2204	3100
F	1584	1984	1984	2484	3380

isel®

FlatCom® XL | The all-in-one solution
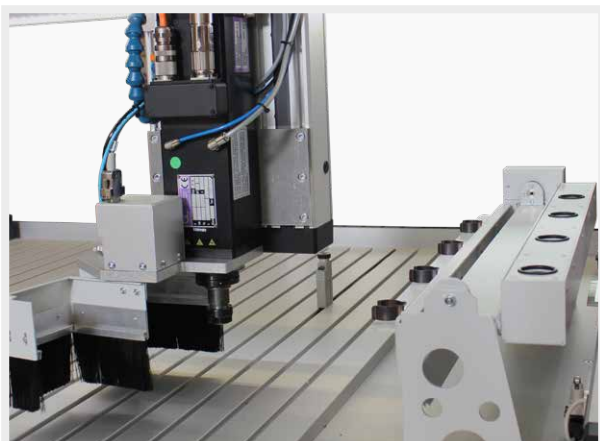

Aluminum

Microphone

milled foam

Typical materials:

- aluminum
- brass
- wood
- plexiglass
- foam and milled plastics
- and many more

Application areas:

- automotive supplier
- model and mold making
- orthopaedic technology
- measurement and testing procedures
- dispensing applications

Option: automatic tool changer equipped with suction device

our "reliable ones" - the LES axis series

FlatCom ® XL 102/72 and 142/252
in size comparison