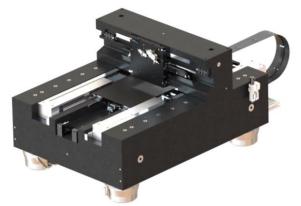
EZ-0730

EITZENBERGER

Key Features

- Y/X Stage with Vakuum Chuck
- Ultra High Speed
- Impulse Decoupled X Stage
- Short Move and Settle Time
- Repeatability in nm Range
- Reduced weight due to carbon components



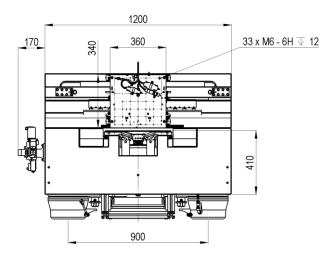
High Precision Impulse Decoupled Stage

Concept and Design

Intelligent design gives the EZ-0730 stage maximum rigidity and excellent repeatability, minimizing axis crosstalk.

Built-in features:

- Impulse decoupling to minimize crosstalk even at high accelerations.
- Weight optimization by using carbon for the lower slide.
- Use of carbon structures with thermal expansion close to 0 to minimize harmful temperature effects.
- Extremely rigid chuck due to integrated flat 11-zone vacuum clamping device with high-precision tip/tilt adjustment using sophisticated pressure membrane technology.
- Minimization of disturbance forces emanating from the energy chain due to novel drag chain concept.
- Ironless drives and high-precision scales (Heidenhain LIP6 G0).



The machine bed is made of granite. The axes can be customized according to the customer's requirements.

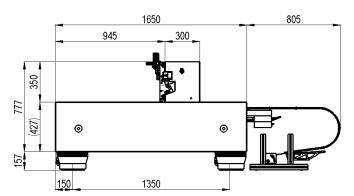
Applications

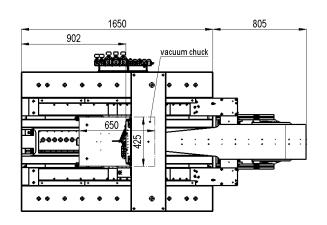
High-precision positioning, scanning, exposure, laser engraving, laser processes in general.

Drive Control

We offer the EZ-0730 stage with the following drive controller:

Triamec





EZ-0730

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KINEMATIK MIT LUFT

Unit	Value
mm	850 x 500
nm	< ±200
nm	< 1
nm	X < 40 / Y < 20
nm	< 20
msec	30
μm	< 2
μm	< 3
	< ± 4
	< ± 3
mm	0.2
µrad	< 1
	X = 1,500 / Y = 500
mm/s ²	X = 80,000 / Y = 2,000
Unit	Value
	active impulse decoupled
mm	1,280 x 1,880 x 950
kg	X = 5 / Y = 8
	40
-	26
kg	3,200
	Value
	incremental
	1Vpp, 4 µm signal periode
Unit	Value
	3-phase, synchronous, ironless
V_{DC}	up to 300
Ν	564 / 58
A _{rms}	22.6 / 5.5
V/m/s	101 / 30
N/A	124 / 36.3
Unit	Value
bar	5
Sl/min	35
h	> 20,000
11	× E0,000
	PNP
11	
	PNP
	mm nm nm nm nm msec µm µrad µrad µrad mm/s² Unit kg kg kg Nm kg ykg kg kg

Subject to technical modifications and typographical errors.