

## Integrated XY positioning stage

### 1 - Application

This 2-axis translation is made up of an embedded micro-positioning stage integrated in the carriage of a translation stage. The XZ height is minimized. The stage could be set horizontally or on the side. This stage has been designed for an industrial cutting application.

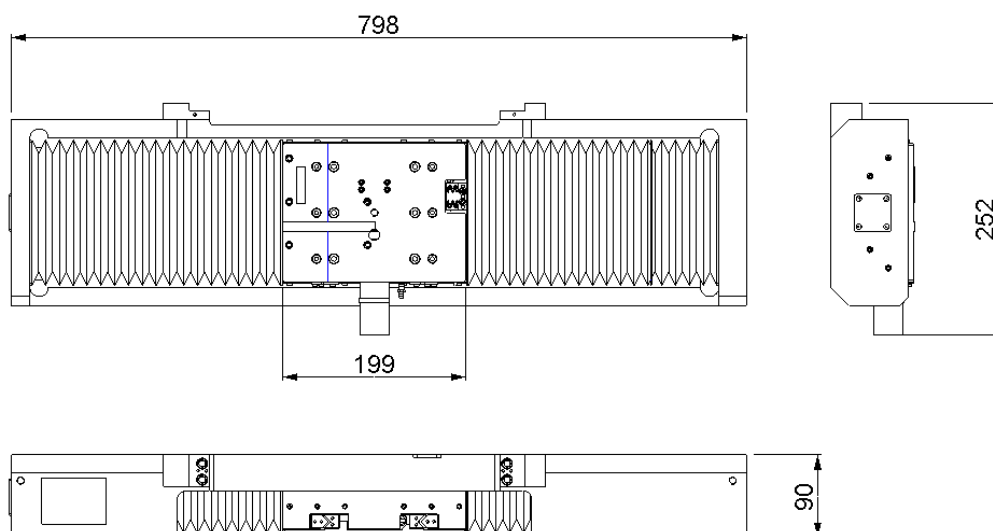
### 2 - Description

X-stage	Y-stage
<ul style="list-style-type: none"> <li>• Recirculating ball bearings</li> <li>• Reversible screw-nut</li> <li>• Brushless motor with gearbox</li> <li>• Optical sensors</li> </ul>	<ul style="list-style-type: none"> <li>• Crossed roller bearings</li> <li>• Irreversible screw-nut</li> <li>• Hybrid stepper motor</li> <li>• Absolute linear encoder</li> </ul>

## 3 - Technical Data

CHARACTERISTIC	X-value	Y-value
Travel :	400mm	2mm
Theoretical resolution :	1 $\mu$ m	1 $\mu$ m
Unidirectional repeatability :	3 $\mu$ m	-
Accuracy :	10 $\mu$ m	1 $\mu$ m
Straightness :	<10 $\mu$ m	-
Flatness :		
Max velocity :	750mm/s	33 mm/s
Acceleration :	3m/s <sup>2</sup>	-
Load capacity :	10 kg	
Mass :	-	
Material :	Aluminum	
Electrical specification :		12 VDC
Electronic controller :		Standard

## 4 - Dimension (mm)



*Note: Other information's or drawings on demand*