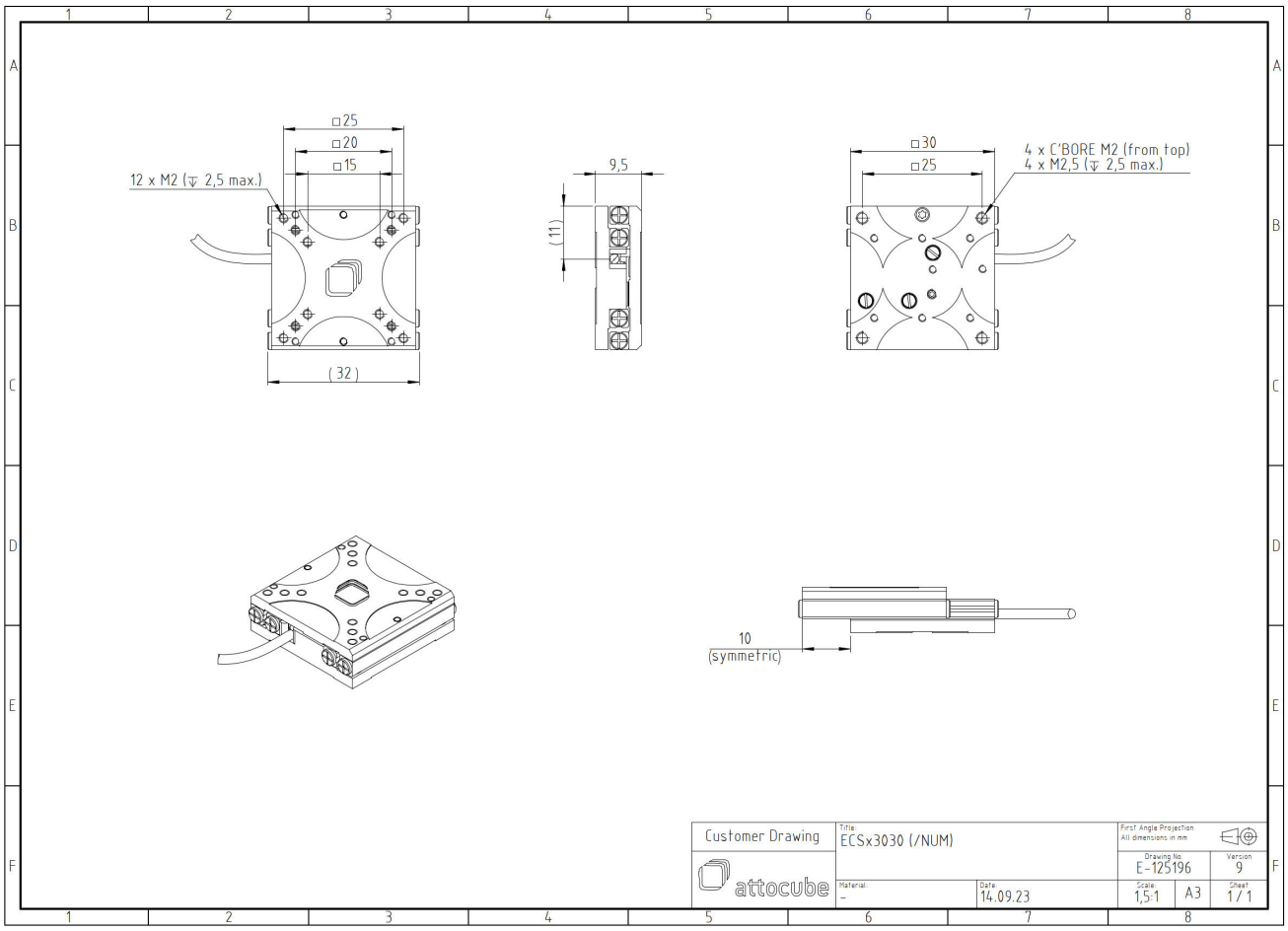
ECSx3030/StSt/NUM+/HV

1011434

Technical Specifications

Size and Dimensions	
footprint; height	30 mm x 30 mm; 9.5 mm
maximum installation space	30 mm x 51.6 mm; 9.5 mm
weight (stainless steel version)	51 g
height	9.5 mm
cable	50 cm cable with connector
Materials	
positioner body	stainless steel
actuator	PZT ceramics
connecting wires	copper, jacket: RT: PTFE, HV/UHV: fiberglass
Coarse Positioning Mode	
travel range (step mode)	20 mm
maximum drive velocity @ 300 K	4.5 mm/s
input voltage range	0 - 45 V
Fine Positioning Mode	
fine linear positioning range @ 300 K	1.6 µm
fine positioning resolution	sub-nm
input DC voltage range	0 - 45 V
Position Encoder	
readout mechanism	optoelectronic sensor
encoded travel range	entire travel
sensor resolution	1 nm
sensor power (when measuring)	50 mW
repeatability	50 nm (bidirectional)
Load (@ ambient conditions)	
maximum load	1 kg
maximum dynamic force along the axis	1 N
Error Motion	
roll E_AX	specified* 0.75 mrad (expected** < 0.3 mrad)
pitch E_BX	specified* 1.25 mrad (expected** < 0.5 mrad)
yaw E_CX	specified* 1.25 mrad (expected** < 0.5 mrad)
y-Straightness E_YX	specified* 6 µm (expected** < 2.5 µm)
z-Straightness E_ZX	specified* 8 µm (expected** < 2.25 µm)
*	specified: guaranteed for every positioner
**	expected: typically met by most positioners
General Specifications	
environment	high vacuum

All rights, including rights created by patent grant or registration of a utility model or design as well as rights of technical modifications are reserved. Delivery subject to availability. Designations may be trademarks, the use of which by third parties for their own purposes may violate the rights of the trademark owners. © attocube systems GmbH



All rights, including rights created by patent grant or registration of a utility model or design as well as rights of technical modifications are reserved. Delivery subject to availability. Designations may be trademarks, the use of which by third parties for their own purposes may violate the rights of the trademark owners. © attocube systems GmbH