

# C-ALS® Cavity Auto-scanning Laser System

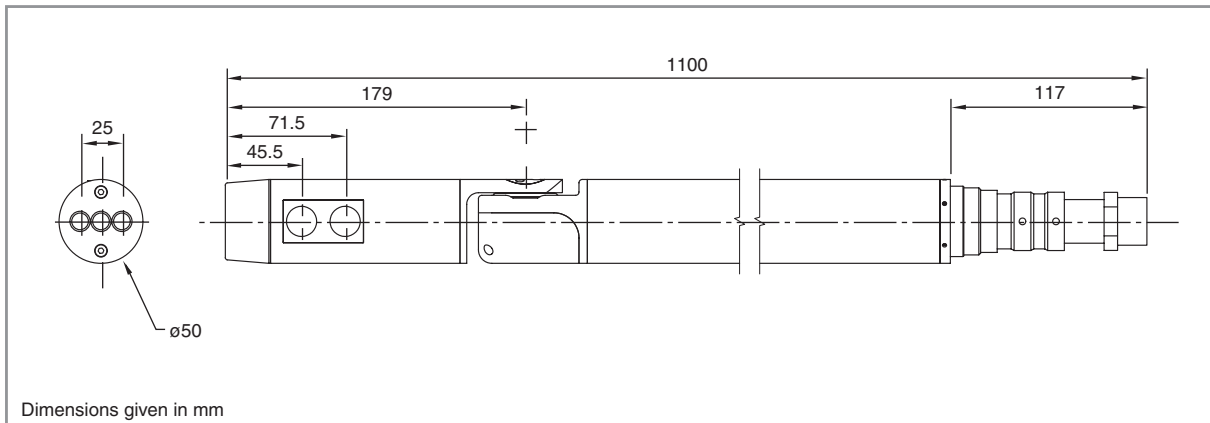
[www.renishaw.com/mining](http://www.renishaw.com/mining)

## Specification

<b>Laser module</b>	
Type	Semiconductor, 905 nm
Resolution	1 cm
Range	Up to 150 m to Kodak white card
Laser classification (IEC/EN 60825-1 (2007)) (21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser No. 50, dated 24 June 2007)	Class 1
<b>Angle measurement</b>	
Type	Opto-electronic encoder
Accuracy	0.2°
Resolution	0.1°
Range	Vertical: -90° to 90° Horizontal: 0° to 360°
Motion	Servo-driven gear system in both axes with manual clutch override system
<b>Boretrak sensors</b>	
Type (options available)	Triaxial sensor
Pitch-and-roll accuracy	+/- 0.2°
Pitch-and-roll range	360°
Compass (optional) accuracy	+/- 1.2°
<b>Physical data</b>	
Construction	Machined aluminium and stainless steel
Water and dust resistant	IP67
Dimensions	Probe and extension piece: 2000 mm x 50 mm Surface unit: 465 mm x 345 mm x 170 mm
Weight	Stainless steel probe: 5.9 kg Single-section steel extension piece: 3 kg Main C-ALS cable: 0.18 kg/m 1 m Boretrak rod: 0.4 kg Surface unit excluding extra options: 10 kg+
External power input	12-15 V dc and 110-240 V ac
Power consumption during scan	0.8-2 A

For further information and the best possible application and performance support please contact Renishaw or visit [www.renishaw.com/mining](http://www.renishaw.com/mining)

## C-ALS probe dimensions



For worldwide contact details, please visit our main website at [www.renishaw.com/contact](http://www.renishaw.com/contact)



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