Established in 2014, Alban Laser Systems (ALS) can trace its history back to a Heriot-Watt University (Edinburgh , Scotland) MLT (Medical Laser Technology) spin out in the mid 1980's. ALS supplies a range of standard products and bespoke solutions.

Products are designed and manufactured in the United Kingdom. Alban Laser Systems have extensive technical expertise and practical experience. We are continually improving our products and developing new ones to keep pace with the demands of our customer's applications.

Existing customer base includes Particle Image Velocimetry, Laser Dentistry (multiple techniques) and Laser Tattoo Removal.

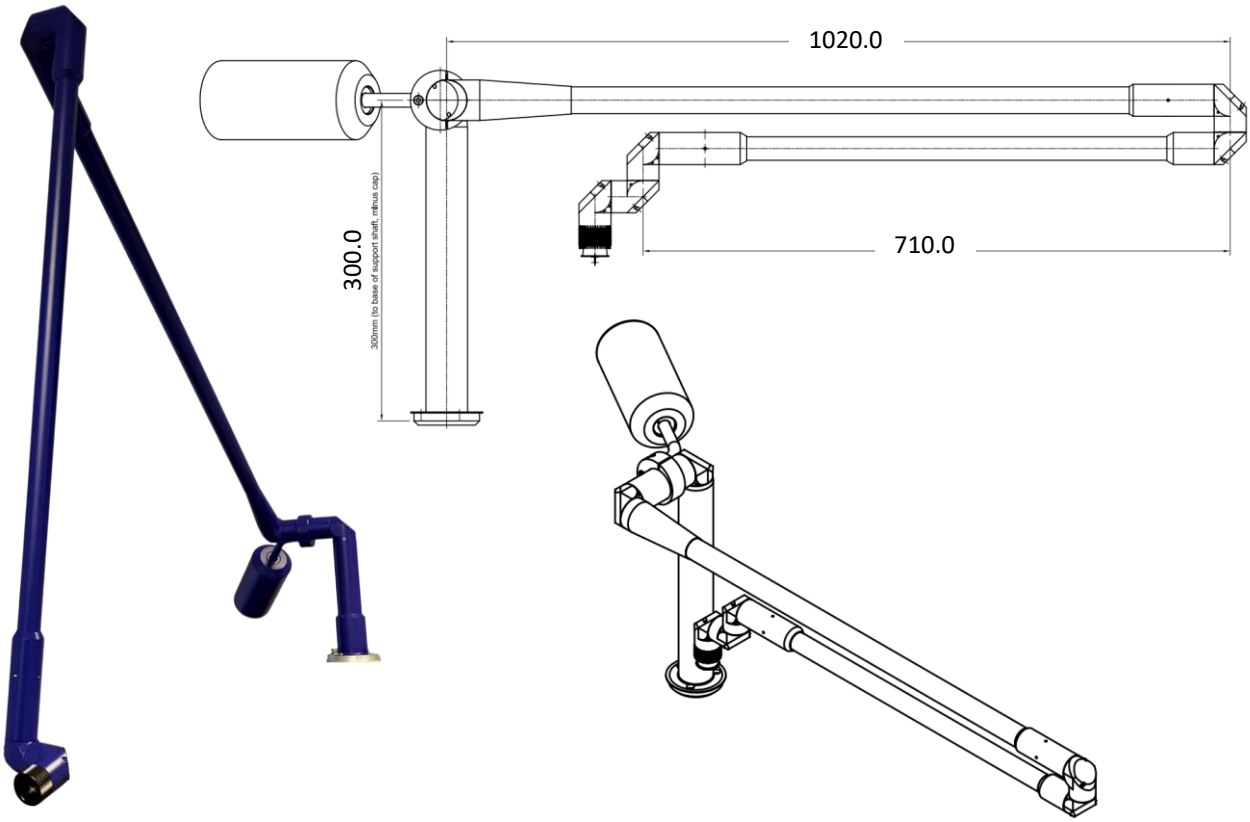
www.albanlasersystems.com

Custom/Bespoke options available for

- Mounting flange type, size
- Reach
- Number of joints
- Wavelengths single or dual beam (dielectric mirrors)
- Laser Power (Pulse Beam Energy density)
- Clear aperture (maximum open aperture)
- Counterbalance
- Colour, Paint-Anodise
- End piece/distal connector fittings
- In beam optics (final focus, relay, collimation), fixed and adjustable

- In house assembly
- In house alignment
- In house mechanical design (CAD)
- Technical consultant (40 + year Laser Articulated Arm design)
- Access to external optical design engineer
- Mirrors sourced from 3 industry standard suppliers
- Bespoke prototypes

CA-16, 16 mm clear aperture arm



Feature	Details
Function	Particle Image Velocimetry
Clear aperture	16mm
Number of joints/mirrors	6
Nominal Reach	1730mm
Wavelength/Mirror	532nm, 25/3mm Fused Silica
In Beam Optics	None
Arm Material	Standard Carbon Fibre
Balance Mechanism	Mass Counterbalance
Dynamic Relative Beam Accuracy (less than)	+/- 0.5mm, +/- 1.0mRad

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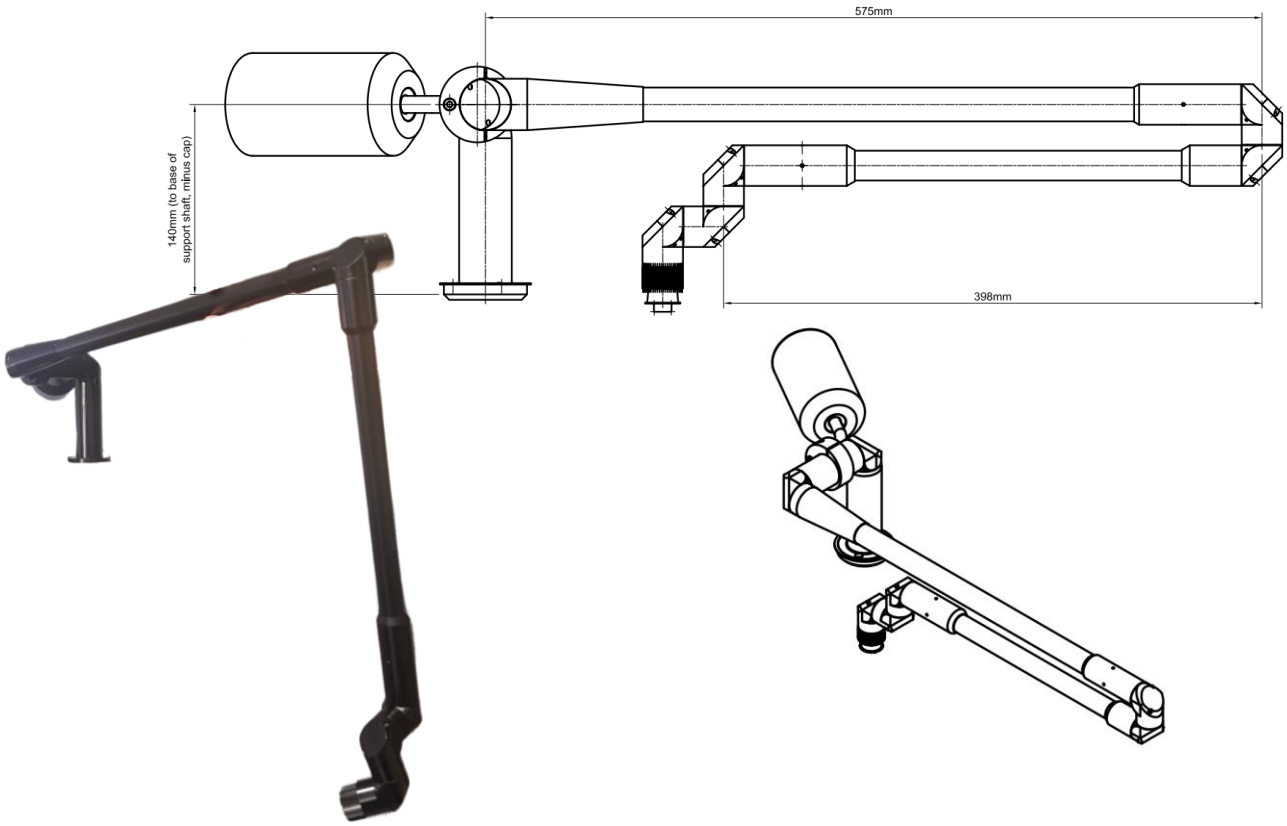
CA-16, 16 mm clear aperture arm



Feature	Details
Function	Laser Tattoo Removal
Clear aperture	16mm
Number of joints/mirrors	7
Nominal Reach	973mm
Wavelength	633nm, 25/3mm BK7
In Beam Optics	None
Arm Material	Standard Carbon Fibre
Balance Mechanism	Mass Counterbalance
Dynamic Relative Beam Accuracy (less than)	+/- 0.5mm, +/- 1.0mRad

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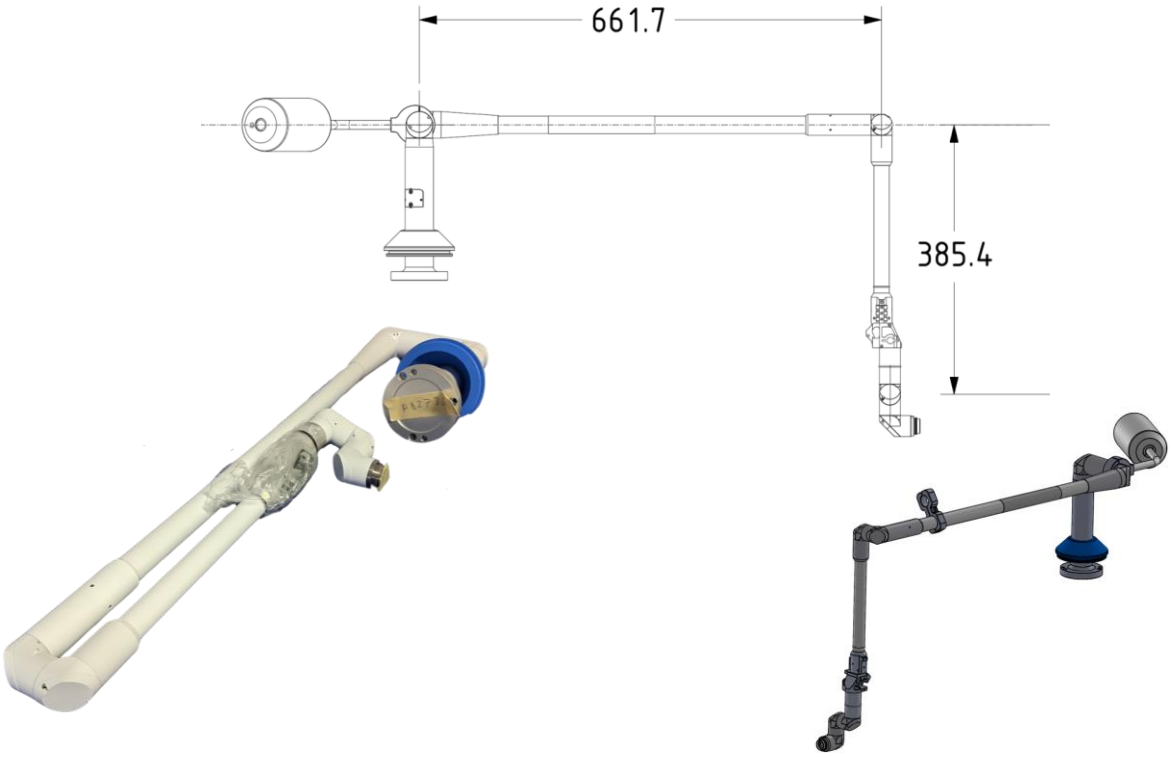
CA-16, 16 mm clear aperture arm



Feature	Details
Function	Laser Dentistry
Clear aperture	16mm
Number of joints/mirrors	7
Nominal Length	1047mm
Wavelength/Mirror	9.35um, 520nm 25/3mm Silicon
In Beam Optics	Collimator, 2 Axis Galvo
Arm Material	High Stiffness Carbon Fibre
Balance Mechanism	Mass Counterbalance
Dynamic Relative Beam Accuracy (less than)	+/- 025mm, +/- 0.5mRad

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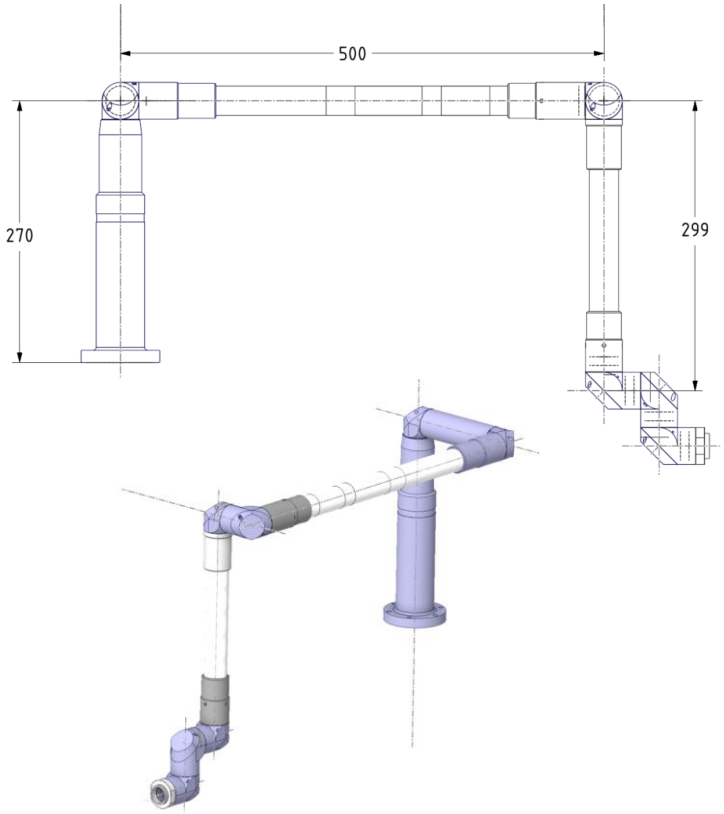
CA-21, 21 mm clear aperture arm



Feature	Details
Function	Laser Dentistry
Clear aperture	21mm
Number of joints/mirrors	7
Nominal Reach	800mm
Wavelength/Mirror	10.6um/520nm, 32/6mm, Silicon
In Beam Optics	Double Relay, Focus (5 lenses)
Arm Material	Standard Carbon Fibre
Balance Mechanism	Mass Counterbalance
Dynamic Relative Beam Accuracy (less than)	+/- 0.5mm, +/- 1.0mRad

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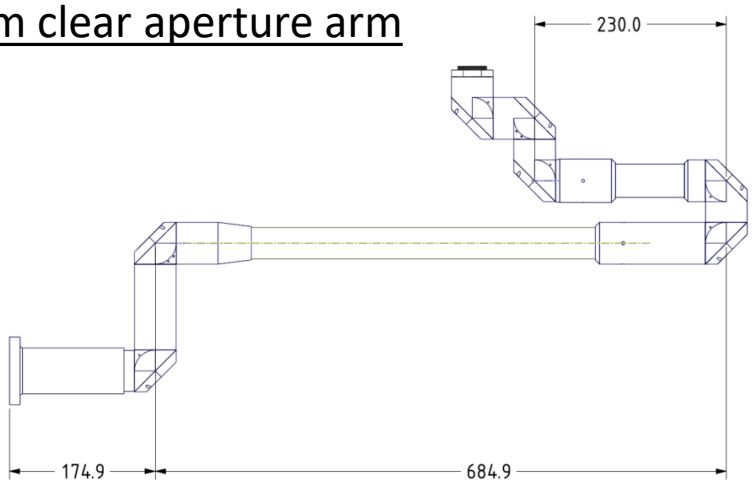
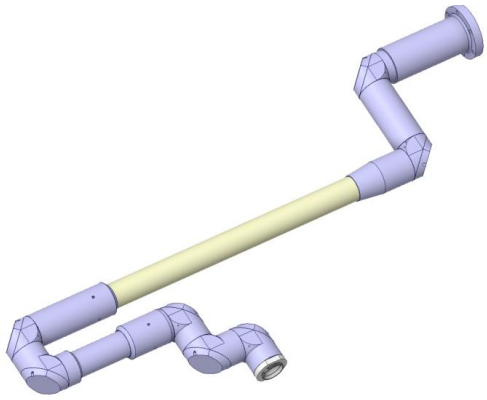
CA-30, 30 mm clear aperture arm





Feature	Details
Function	Laser Dentistry
Clear aperture	30 mm
Number of joints/mirrors	7
Nominal Reach	915mm
Wavelength/Mirror	10.6um/520nm, 43/6mm
In Beam Optics	Relay, Focus (3 lenses)
Arm Material	High Stiffness Carbon Fibre
Balance Mechanism	Mass Counterbalance
Dynamic Relative Beam Accuracy (less than)	+/- 0.5mm, +/- 1.0mRad

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BS EN ISO 9001 : 2015

The scope of this certification applies to the Quality Management Systems relating to the following activities

THE DESIGN AND MANUFACTURE OF ARTICULATING ARMS FOR LASERS

PROUD MEMBER OF technology SCOTLAND

LASER SYSTEMS