Laser Accessories Datasheet

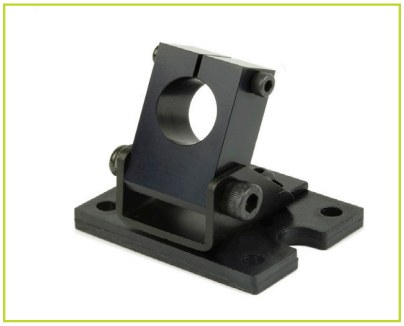
Mounting Clamps, Brackets, Power Supplies & Tubular Mounting System

Mounting Clamps

Heavy Duty Mounting Clamps (HDC)
The heavy duty mounting clamp allows our range of 7 to 25mm diameter lasers to be adjusted and securely fixed at any required direction or angle. The base plate has a series of threaded holes which enables the clamp to be fixed directly onto a machine or workbench.

Magnetic Base
The magnetic base is an accessory which allows the heavy duty mounting clamp to be magnetically attached to a ferrous surface, negating the need for any mounting holes.

MK1 Mounting Clamp
Fits the smaller, lighter laser products with diameters of 11-14 mm. It rotates on a ball joint allowing 360° rotation and 180° tilt.



Swivel Mount
Suitable for 11, 14 and 15mm diameter lasers. It provides the user with up and down tilt movement as well as ±45° swivel. The base plate has a series of holes which allows the clamp to be fixed directly onto a machine or workbench.

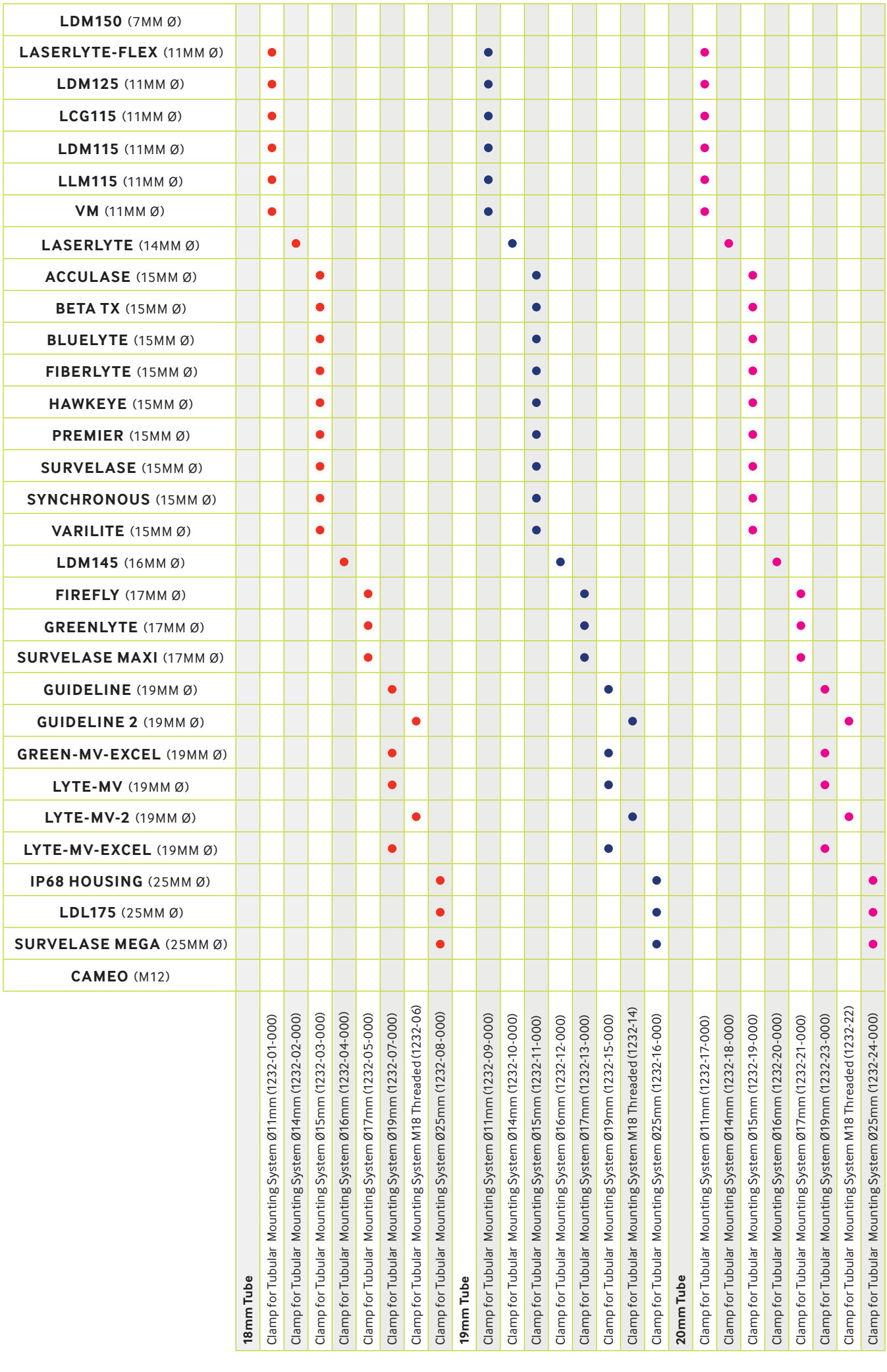
Pillow Block Bearing Mount
The Pillow Block Bearing Mount contains a spherical rolling element that serves as a rotational bearing. You can quickly and easily adjust the direction of your laser module in one smooth movement without the need for an Allen key. The bearing also provides enough friction to keep the pointing direction stable. Suitable for 11-19mm diameter laser.

Clamp for Tubular Mounting System
Heavy Duty Clamps for tubular mounting systems are compatible with ø11, 14, 15, 16, 17, 19, and 19 mm (M18 threaded) laser diode modules. You can position them at any position along the tube and at any angle using the robust dual clamping mechanism.

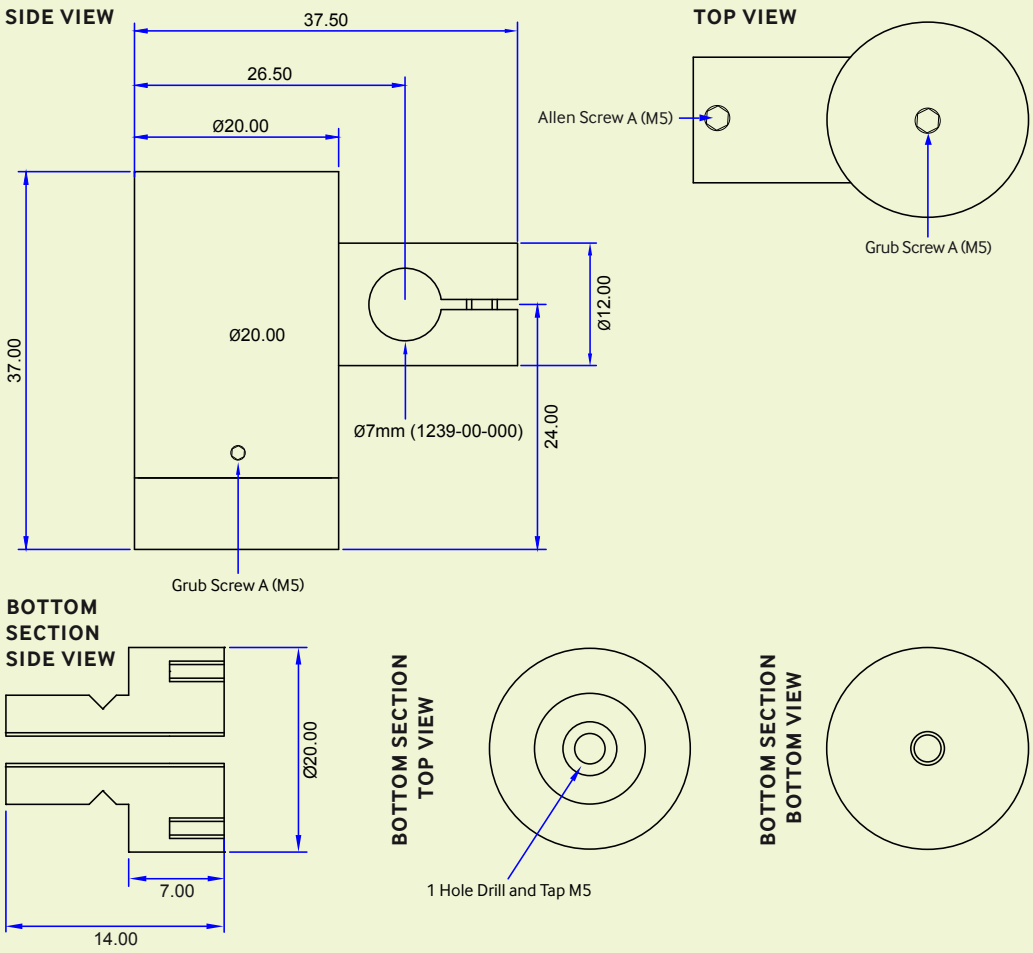
Mounts Overview

	HDC (7mm Ø) (1239-00-000)	HDC (11mm Ø) (1240-01-000)	HDC (14mm Ø) (1240-02-000)	HDC (15mm Ø) (1240-00-000)	HDC (16mm Ø) (1230-10-000)	HDC (17mm Ø) (1230-00-000)	HDC (19mm Ø) (1230-01-000)	Threaded HDC (19mm Ø) (1230-08-000)	HDC (25mm Ø) (1230-02-000)	MK1 Mounting Clamp (11mm Ø) (5000-50-000)	MK1 Mounting Clamp (14mm Ø) (5000-56-000)	Swivel Mount (11mm Ø) (1200-03-000)	Swivel Mount (14mm Ø) (1200-04-000)	Swivel Mount (15mm Ø) (1200-00-000)	Swivel Mount (M12) (1200-06-000)	Pillow Block Bearing Mount (11mm Ø) (1237-00-000)	Pillow Block Bearing Mount (14mm Ø) (1237-01-000)	Pillow Block Bearing Mount (15mm Ø) (1237-02-000)	Pillow Block Bearing Mount (16mm Ø) (1237-03-000)	Pillow Block Bearing Mount (17mm Ø) (1237-04-000)	Pillow Block Bearing Mount (19mm Ø) (1237-05-000)	Pillow Block Bearing Mount (M12) (1237-06-000)	Pillow Block Bearing Mount (M18) (1237-07-000)
LDM150 (7MM Ø)	●																						
LASERLYTE-FLEX (11MM Ø)		●								●		●				●							
LDM125 (11MM Ø)		●								●		●				●							
LCG115 (11MM Ø)		●								●		●				●							
LDM115 (11MM Ø)		●								●		●				●							
LLM115 (11MM Ø)		●								●		●				●							
VM (11MM Ø)		●								●		●				●							
LASERLYTE (14MM Ø)			●								●		●				●						
ACCULASE (15MM Ø)				●										●				●					
BETA TX (15MM Ø)				●										●				●					
BLUELYTE (15MM Ø)				●										●				●					
FIBERLYTE (15MM Ø)				●										●				●					
HAWKEYE (15MM Ø)				●										●	●			●				●	
PREMIER (15MM Ø)				●										●				●					
SURVELASE (15MM Ø)				●										●				●					
SYNCHRONOUS (15MM Ø)				●										●	●			●				●	
VARILITE (15MM Ø)				●										●	●			●				●	
LDM145 (16MM Ø)					●														●				
FIREFLY (17MM Ø)						●														●			
GREENLYTE (17MM Ø)						●														●			
SURVELASE MAXI (17MM Ø)						●														●			
GUIDELINE (19MM Ø)							●															●	
GUIDELINE 2 (19MM Ø)								●															●
GREEN-MV-EXCEL (19MM Ø)							●															●	
LYTE-MV (19MM Ø)							●															●	
LYTE-MV-2 (19MM Ø)								●															
LYTE-MV-EXCEL (19MM Ø)							●															●		●
IP68 HOUSING (25MM Ø)									●														
LDL175 (25MM Ø)									●														
SURVELASE MEGA (25MM Ø)									●														
CAMEO (M12)															●								

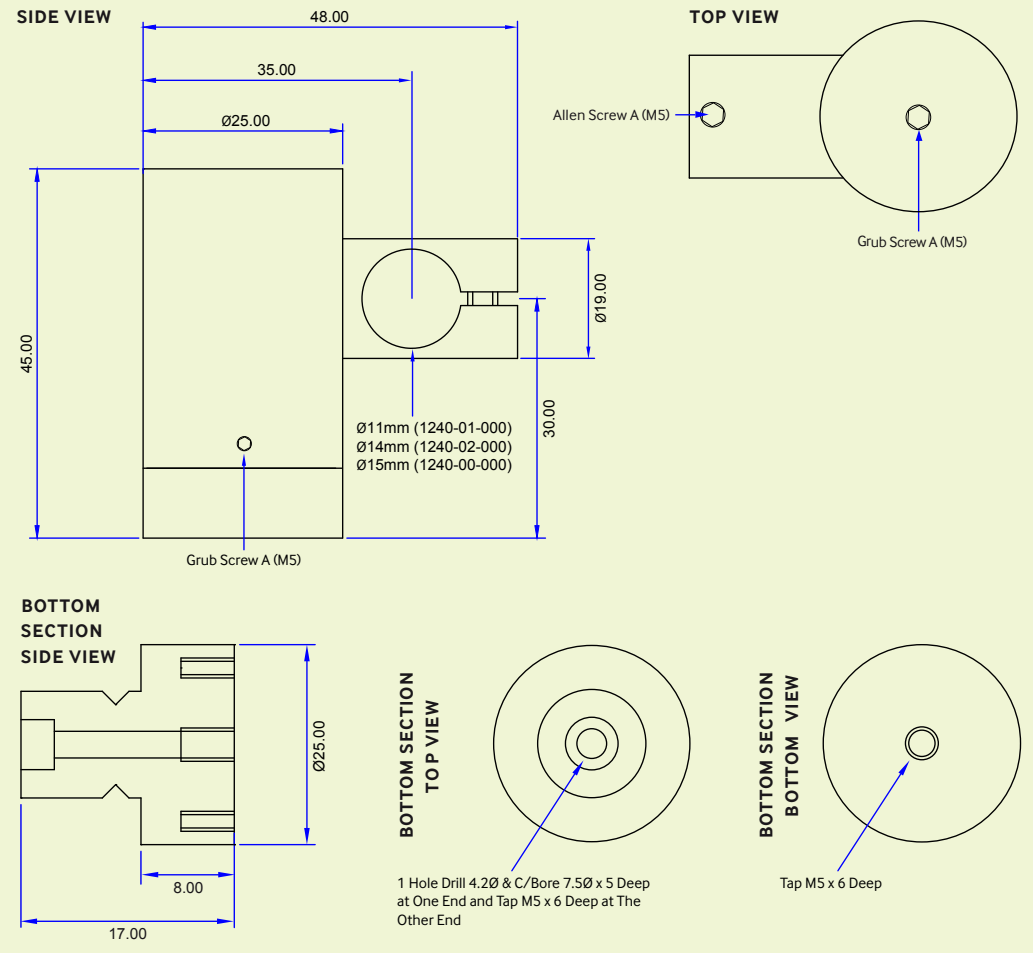
Mounts Overview



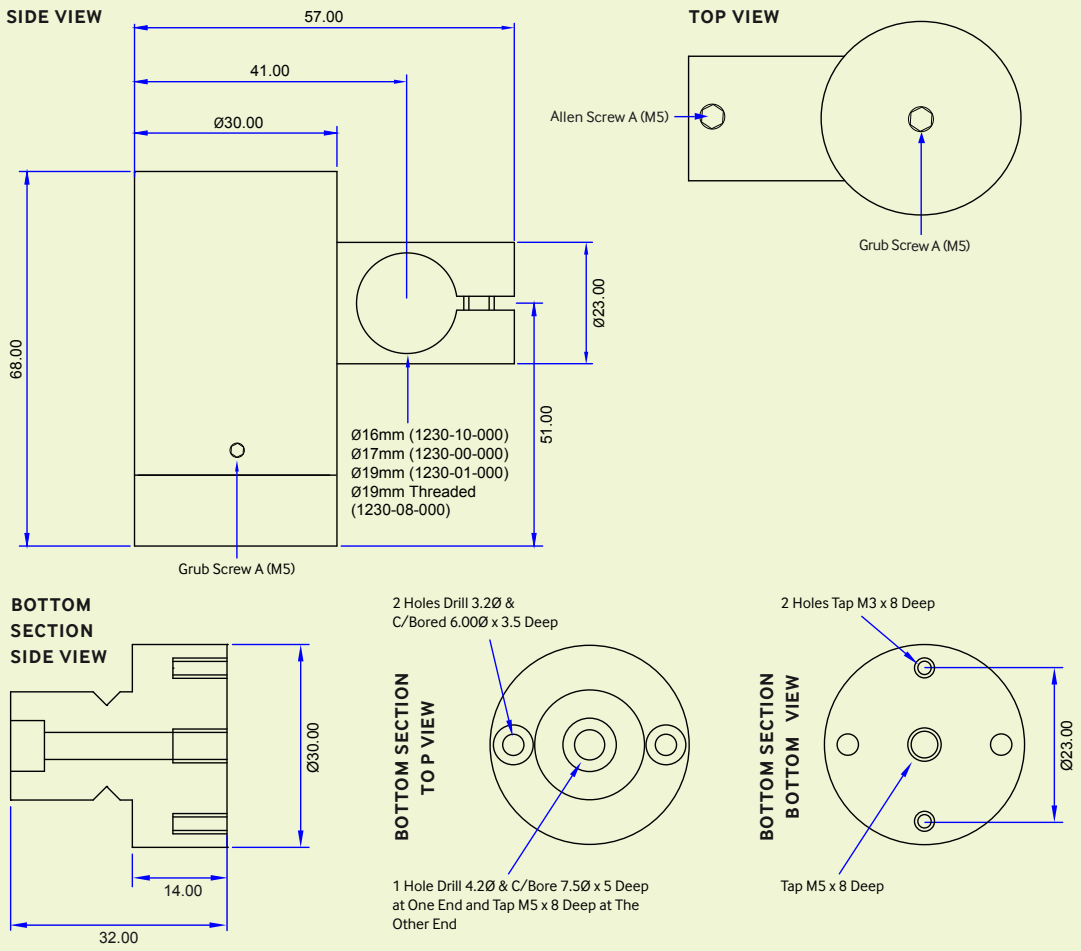
Heavy Duty Mounting Clamp for Ø7mm Laser Modules



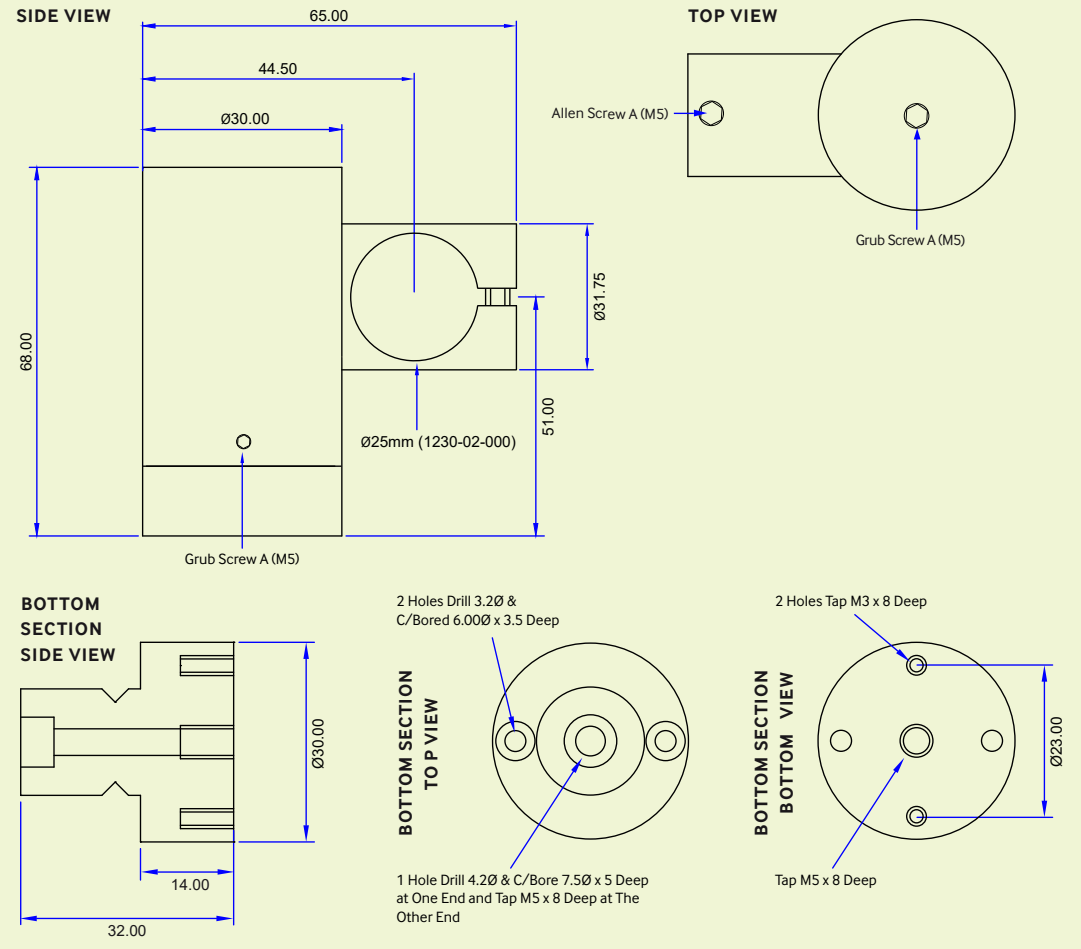
Heavy Duty Mounting Clamp for Ø11,14 & 15mm Laser Modules



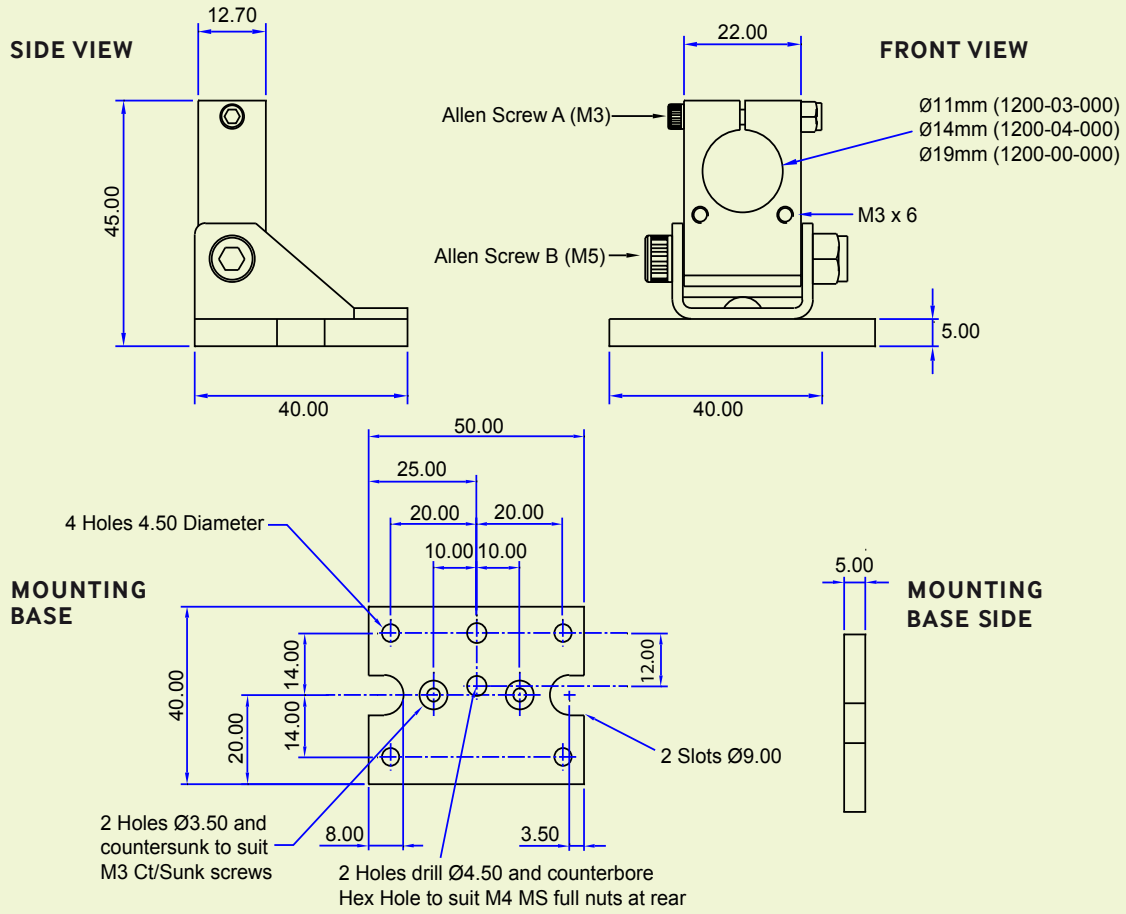
Heavy Duty Mounting Clamp for Ø16, 17, 19mm & M18 Threaded Laser Modules



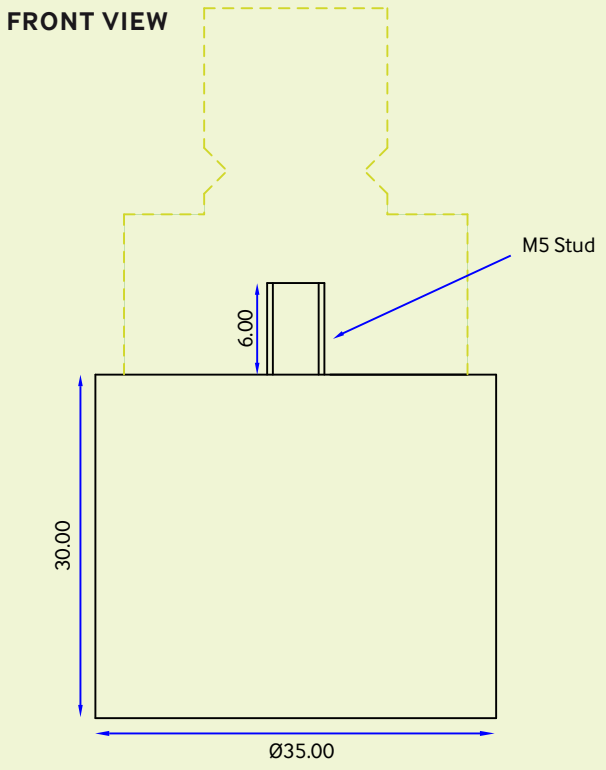
Heavy Duty Mounting Clamp for Ø25mm Laser Modules



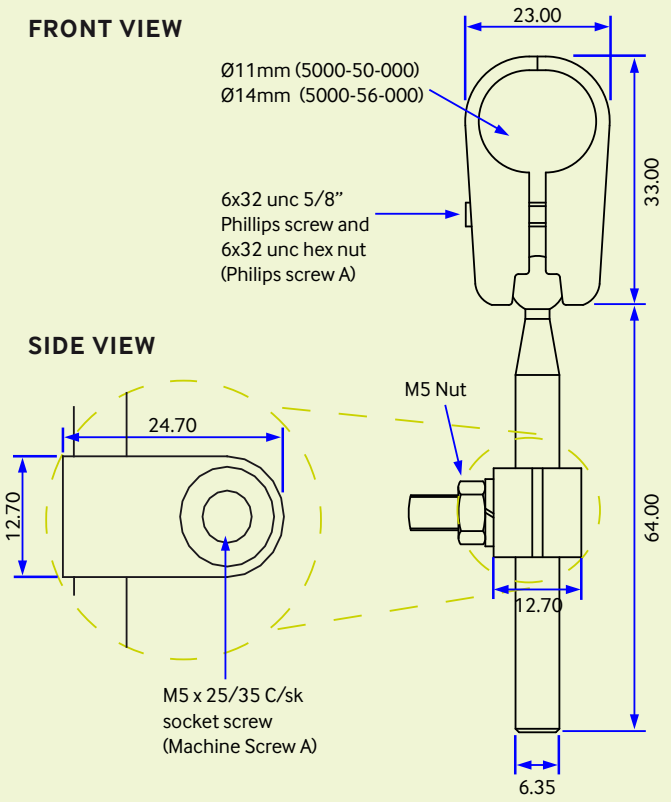
Swivel Mounting Clamp



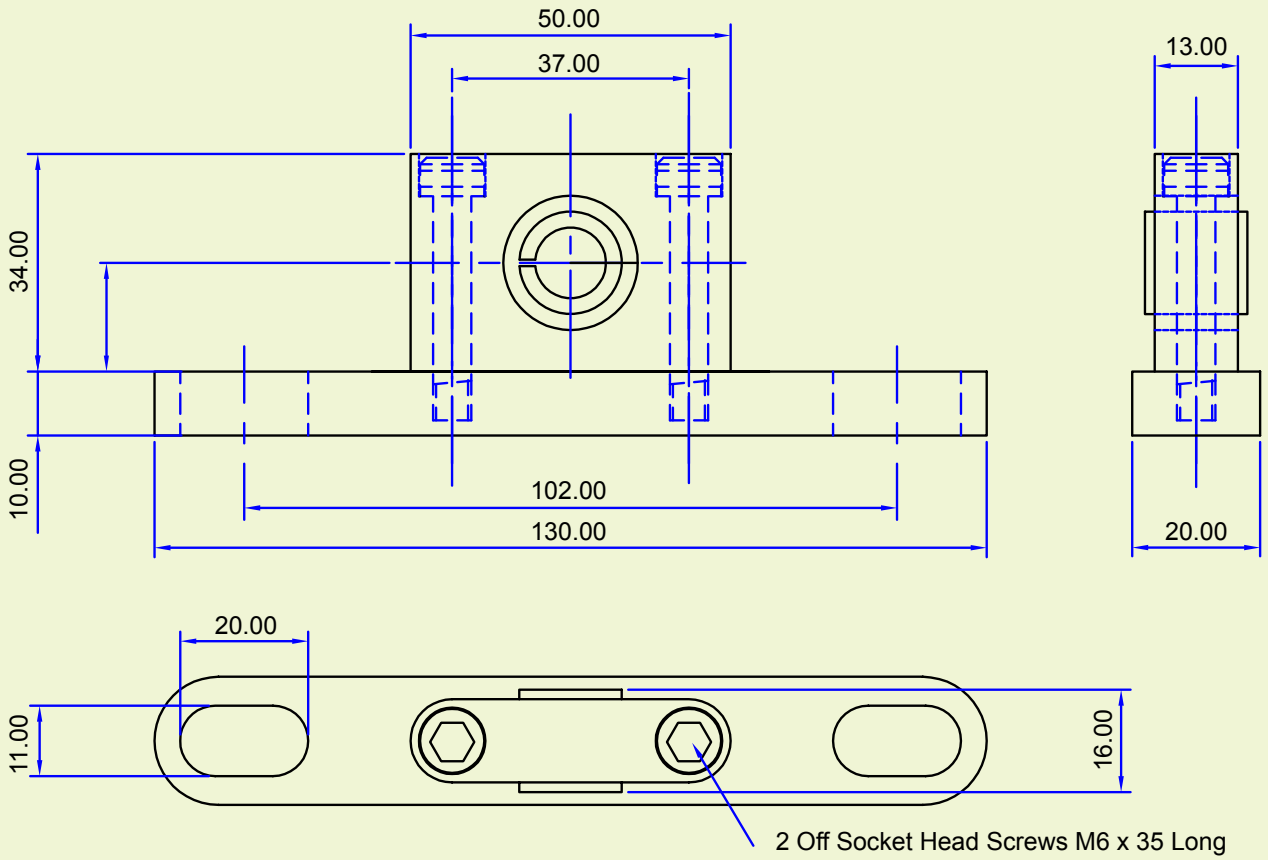
Magnetic Base



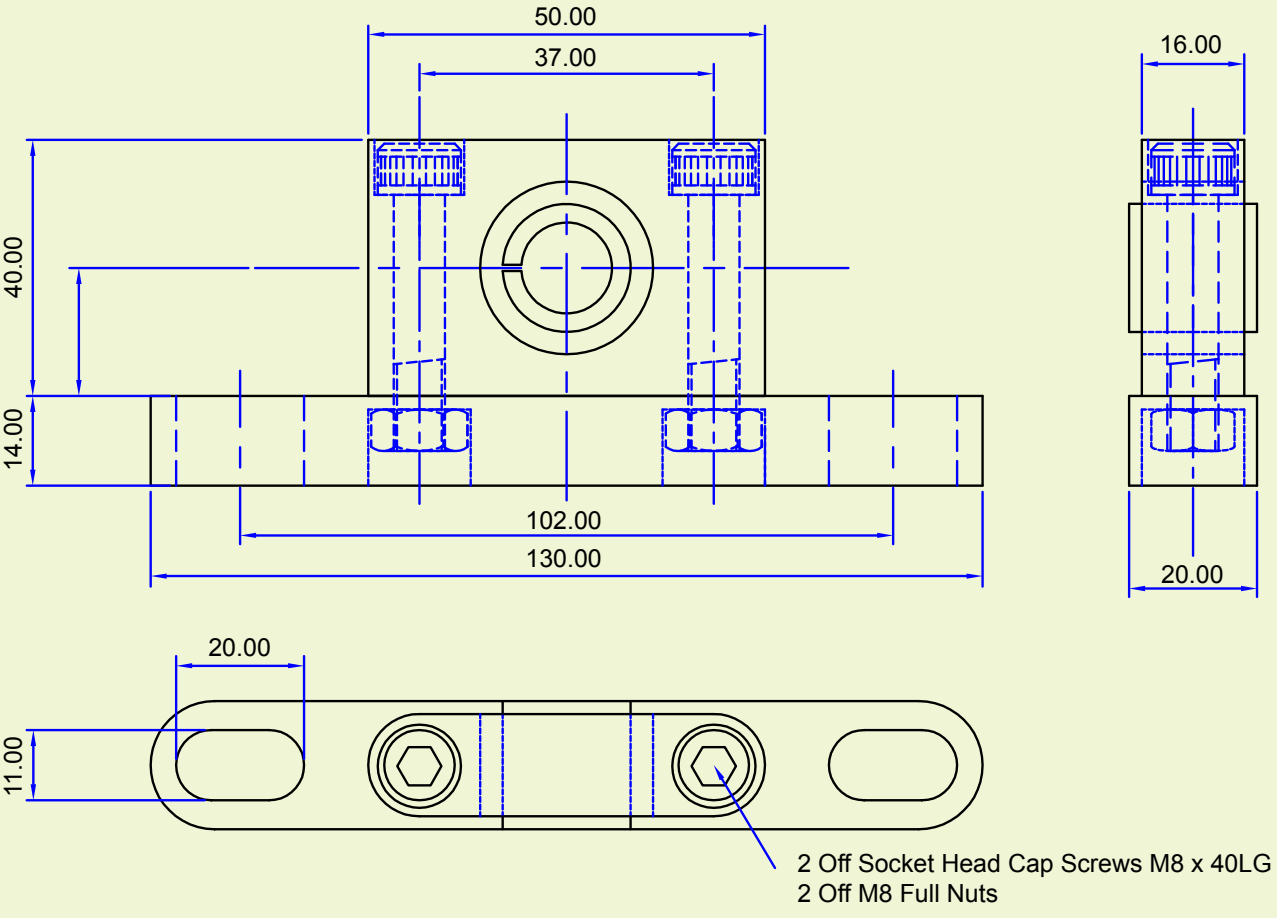
MK1 Mounting Clamp



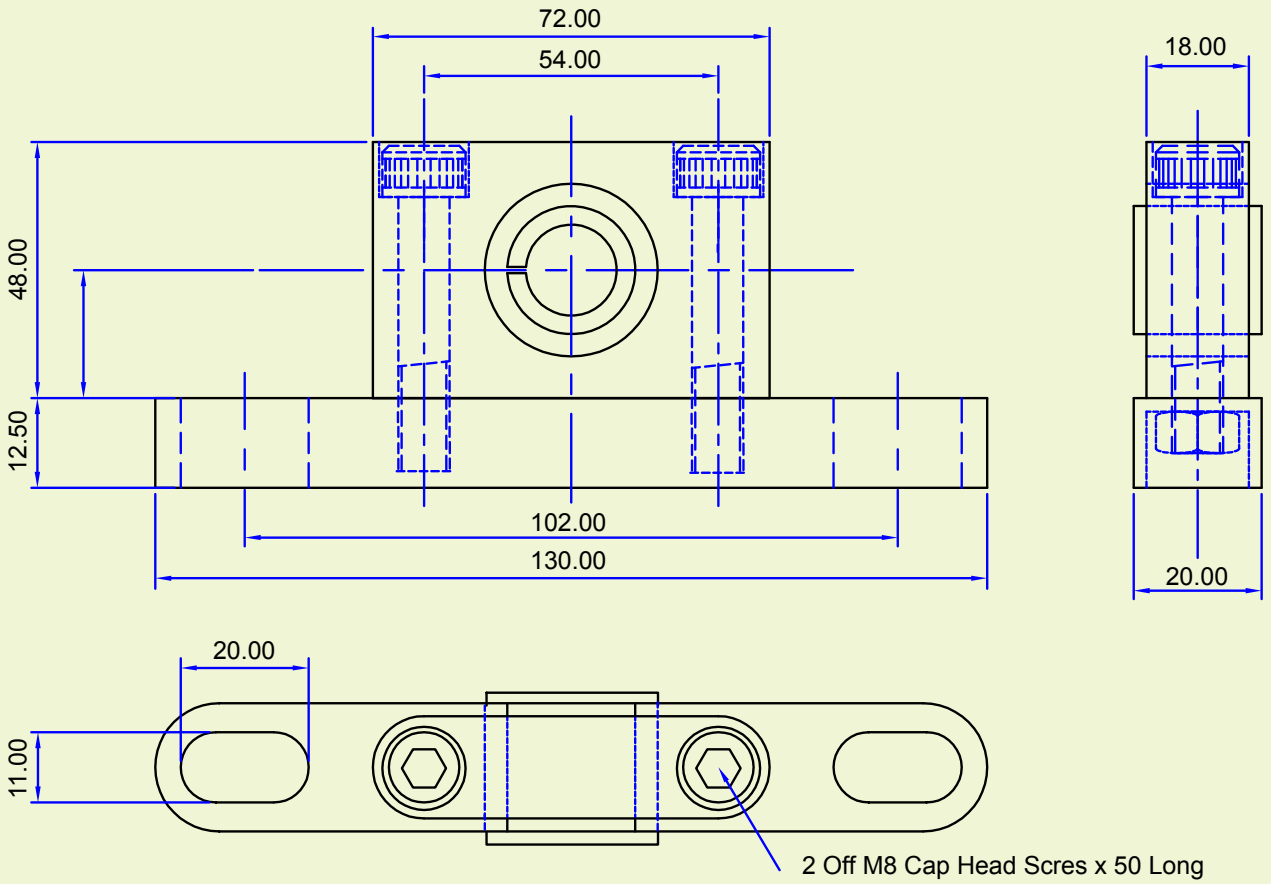
Pillow Block Bearing Mount for Ø11mm & M12 Threaded Laser Modules



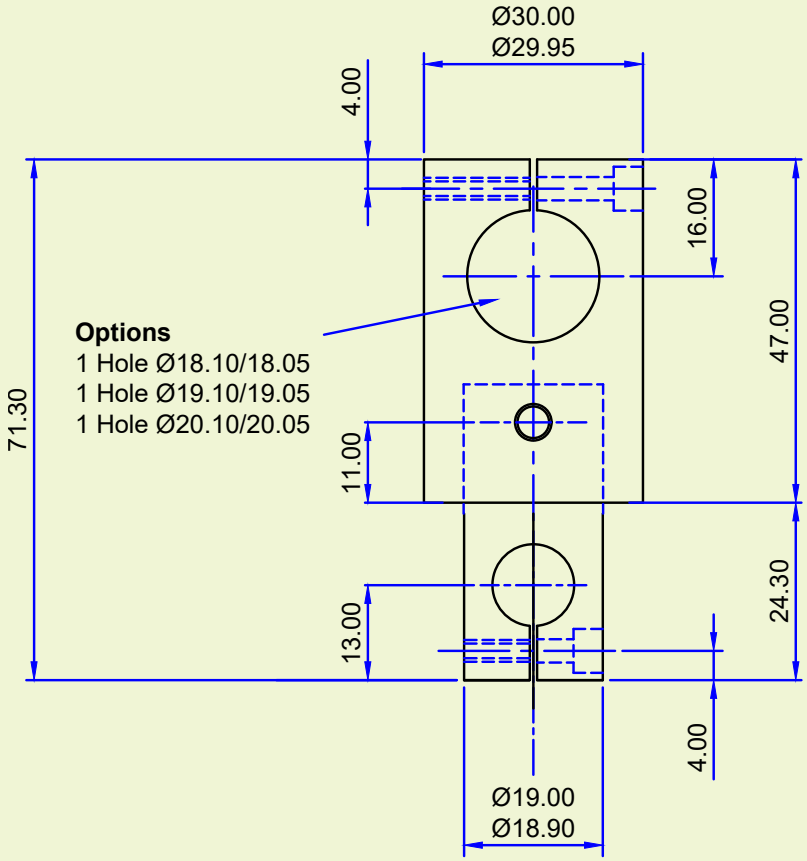
Pillow Block Bearing Mount for Ø14, 15 & 16mm Laser Modules



Pillow Block Bearing Mount for Ø17, 19mm & M18 Threaded Laser Modules



Clamp for Tubular Mounting System for Ø11, 14 & 15mm Laser Modules

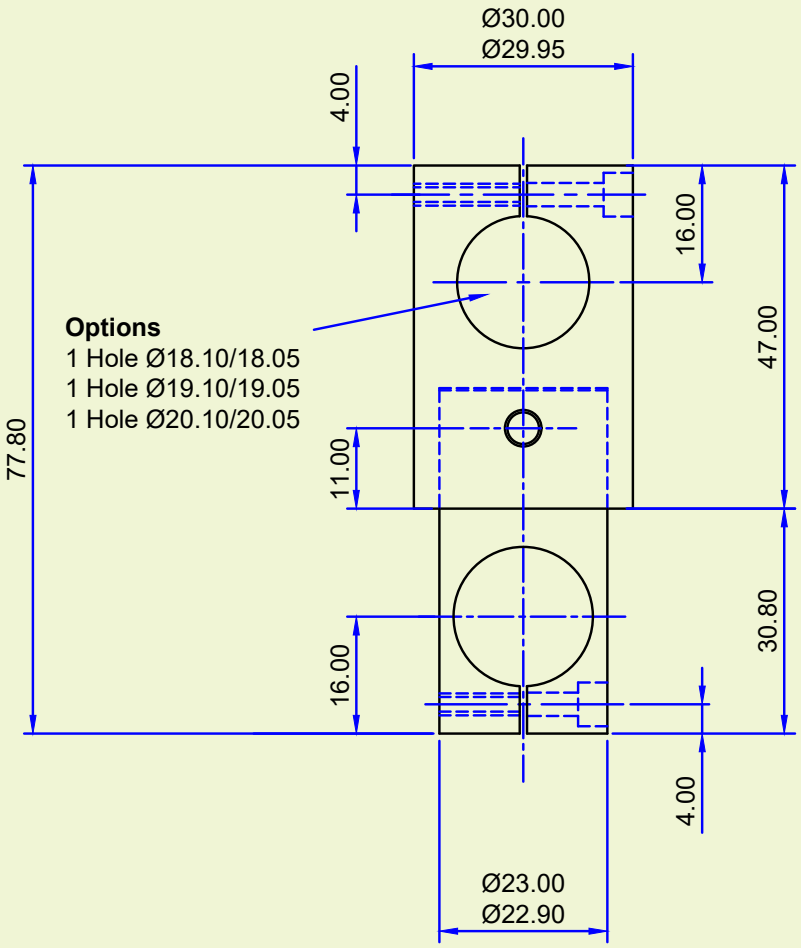


Ø18mm Tube
HDC Ø11mm (1232-01-000)
HDC Ø14mm (1232-02-000)
HDC Ø15mm (1232-03-000)

Ø19mm Tube
HDC Ø11mm (1232-09-000)
HDC Ø14mm (1232-10-000)
HDC Ø15mm (1232-11-000)

Ø20mm Tube
HDC Ø11mm (1232-17-000)
HDC Ø14mm (1232-18-000)
HDC Ø15mm (1232-19-000)

Clamp for Tubular Mounting System for Ø16, 17, 19 & M18 Threaded Laser Modules

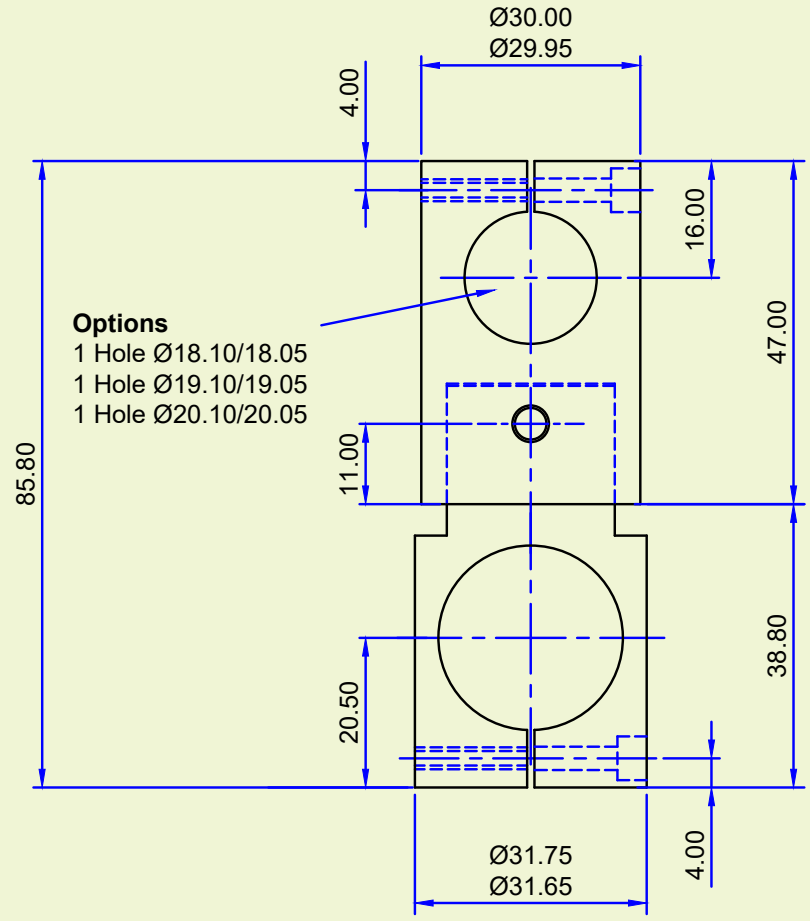


Ø18mm Tube
HDC Ø16mm (1232-04-000)
HDC Ø17mm (1232-05-000)
HDC Ø19mm (1232-07-000)
M18 Threaded (1232-06-000)

Ø19mm Tube
HDC Ø16mm (1232-12-000)
HDC Ø17mm (1232-13-000)
HDC Ø19mm (1232-15-000)
M18 Threaded (1232-14-000)

Ø20mm Tube
HDC Ø16mm (1232-20-000)
HDC Ø17mm (1232-21-000)
HDC Ø19mm (1232-23-000)
M18 Threaded (1232-22-000)

Clamp for Tubular Mounting System for Ø25mm Laser Modules

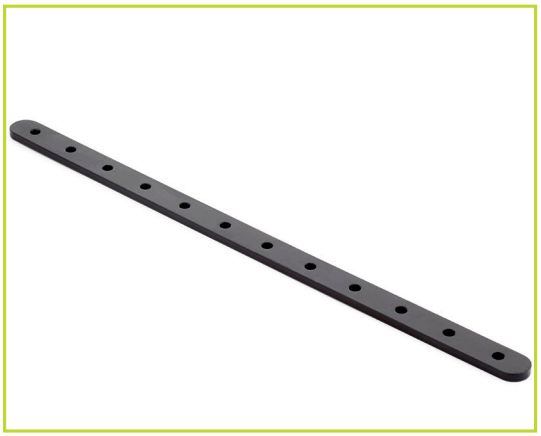


Ø18mm Tube
HDC Ø18mm (1232-08-000)

Ø19mm Tube
HDC Ø19mm (1232-16-000)

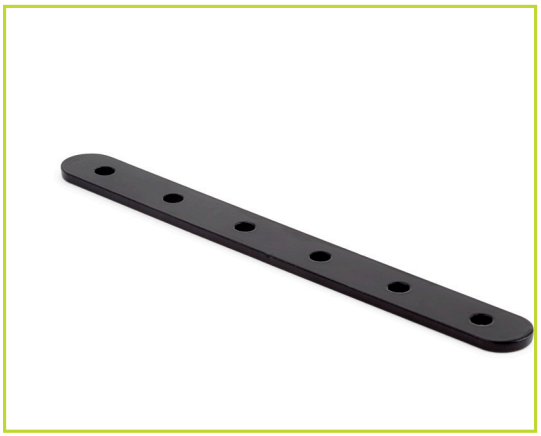
Ø20mm Tube
HDC Ø25mm (1232-24-000)

Mounting Brackets



B12

30cm/12” metal mounting bracket with M5 holes at regular intervals.



B6

15cm/6” metal mounting bracket with M5 holes at regular intervals.

B4

10cm/4” metal mounting bracket with M5 holes at regular intervals.

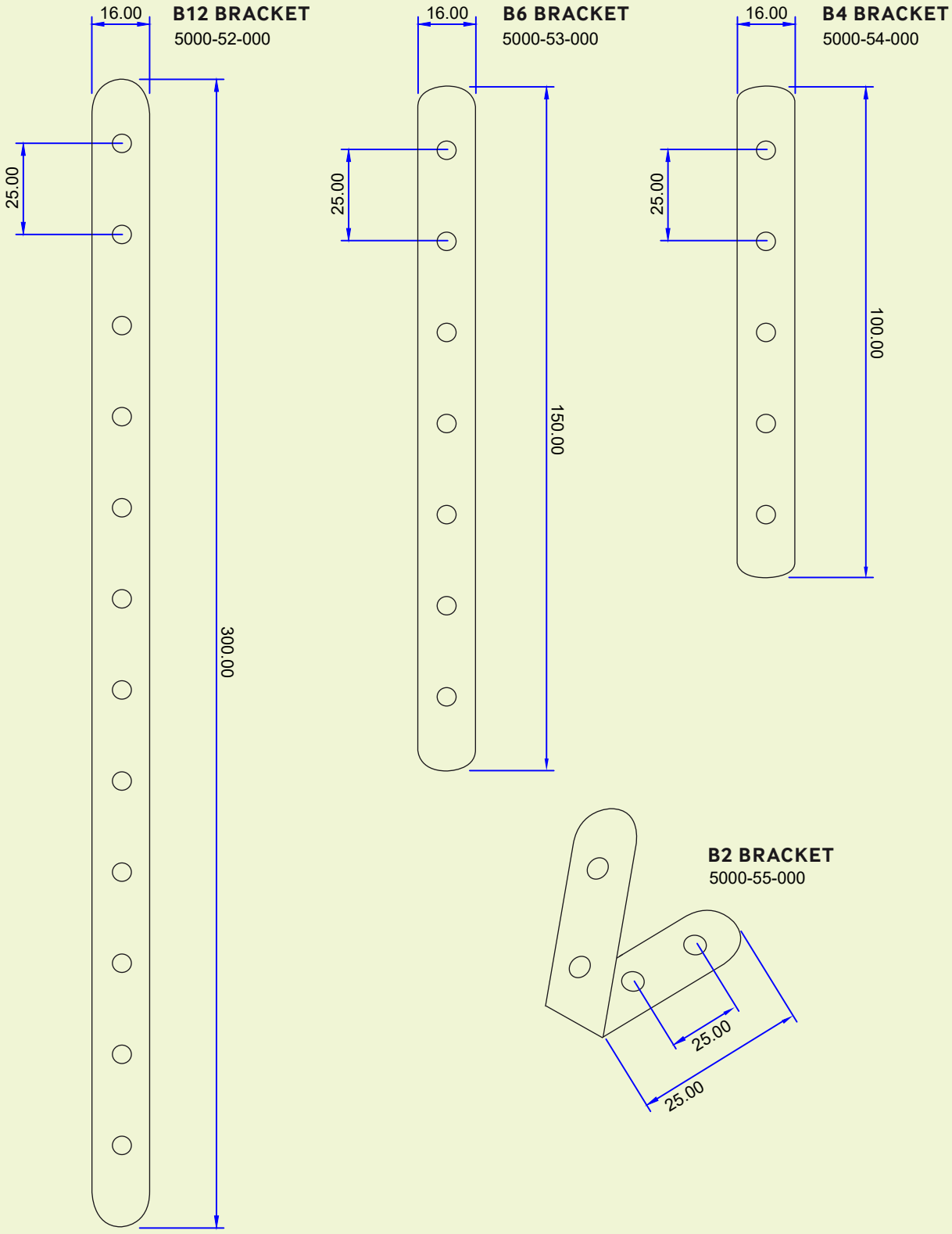
B2

Right angles 10cm/4” metal mounting bracket with M5 holes at regular intervals.

Please Note: A set of all 4 brackets can be also be purchased.
BS - 5000-51-000

Mechanical Drawings

Mounting Brackets



Mains Power Supplies

A range of mains power supplies are available for powering our lasers (for compatibility see table below). The PS-1 & PS-4 range run on 110-240Vac input via an IEC mains lead (supplied) and has the benefit of a power on LED indicator.

Versions can be ordered with either a key switch or rocker switch fitted that allows the power supply output to be switched on/off at the power supply. The key switch version has a removable key when in the off position, that allows the user to prevent any unauthorised use.

The PS-1 has one outlet to power one laser and the PS-4 has four outlets to power up to four lasers. All our power supplies are CE & UKCA marked. A wide range of cables to connect the laser module to the power supplies are also available, please see the product datasheet for more detail. You can also contact Global Laser or your local representative.

MODEL	DESCRIPTION	INPUT	OUTPUT	LED INDICATOR	OPTIONAL KEY SWITCH	COMPATIBLE WITH
	PS-1 Power Supply (Powers one laser)	110/240 Vac 50/60 Hz Via IEC connector with IEC Mains lead (UK, European, USA or Australian)	5.0 Vdc 1 Amp Female DC Jack	Yes	Yes	- LaserLyte - LaserLyte-Flex - GreenLyte - LDL175 - FireFly * - Lyte-MV - Lyte-MV-EXCEL - Greenlyte-MV-EXCEL* - GuideLine - Lyte-MV- 2 (See Note 1)
	PS-4 Power Supply (Powers four lasers)	110/240 Vac 50/60 Hz Via IEC connector with IEC Mains lead (UK, European, USA or Australian)	5.0 Vdc 1 Amp Female DC Jack	Yes	Yes	
	PS-1 Power Supply (Powers one laser)	110/240 Vac 50/60 Hz Via IEC connector with IEC Mains lead (UK, European, USA or Australian)	10.0 Vdc 1 Amp Female DC Jack	Yes	Yes	- Any Direct Drive Green Laser (515/520nm) - GuideLine-2 (See Note 2) - Lyte-MV-2 (See Note 2)
	PS-4 Power Supply (Powers four lasers)	110/240 Vac 50/60 Hz Via IEC connector with IEC Mains lead (UK, European, USA or Australian)	10.0 Vdc 1 Amp Female DC Jack	Yes	Yes	

NOTES

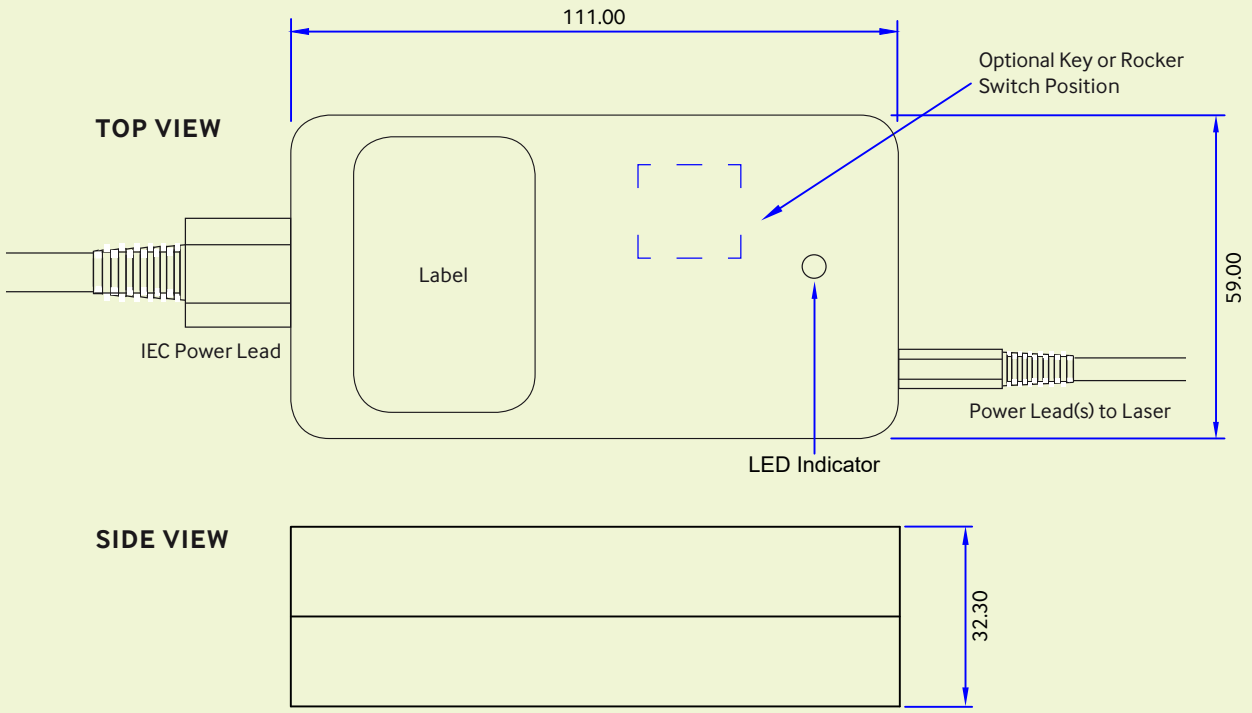
** Current can vary between models. Please contact us for more information if being used with a PS-4.*

Note 1 - 5V models

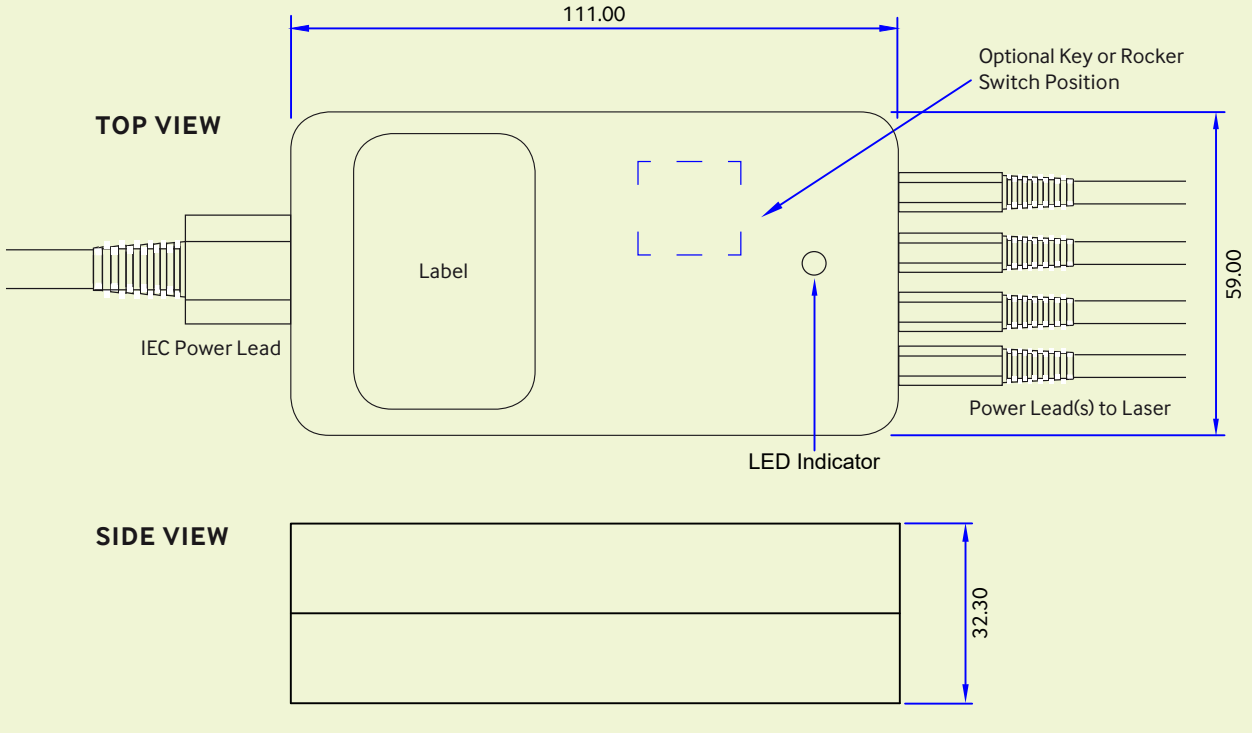
Note 2 - 24V models

Mechanical Drawings

PS-1



PS-4



Battery Box Power Supplies

The Battery Box from Global Laser provides a power source for applications were it is impractical to provide a permanent power source. Housed in a compact ABS box and operates from three AA industrial batteries (4.5V Models) or eight industrial AAA batteries (12V Models). Up to 70 hours of laser operation can be provided (model dependent). A 2.5mm DC Jack connector is fitted which is compatible with a wide range of Global Laser products. An on/off switch allows the user to control laser diode modules output and battery lifetime. The batteries can be replaced by simply removing four screws and removing the lid of the box.

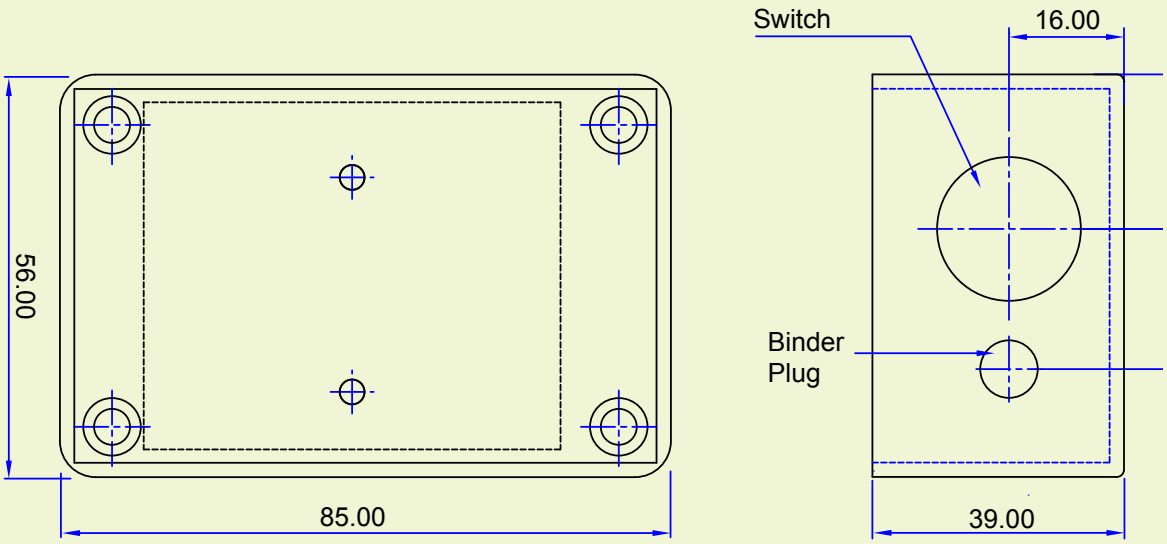
To add to the Battery Box range two additional models are available which have the added benefit of being able to control laser diode modules power control. The advantage of this is being able to control the output power of the laser diode module when combined with any of Global Lasers range of modules fitted with an LC or Analogue power control.

The output power can be controlled via a potentiometer fitted to the top of the box. This allows the user to adjust the laser output power between off and the maximum factory set output power. Values in between are linear. The output is via a 4pin M8 binder plug and a cable to connect the laser diode module to the battery box. These are available as separate items. Please refer to the Battery Box Datasheet from more information.

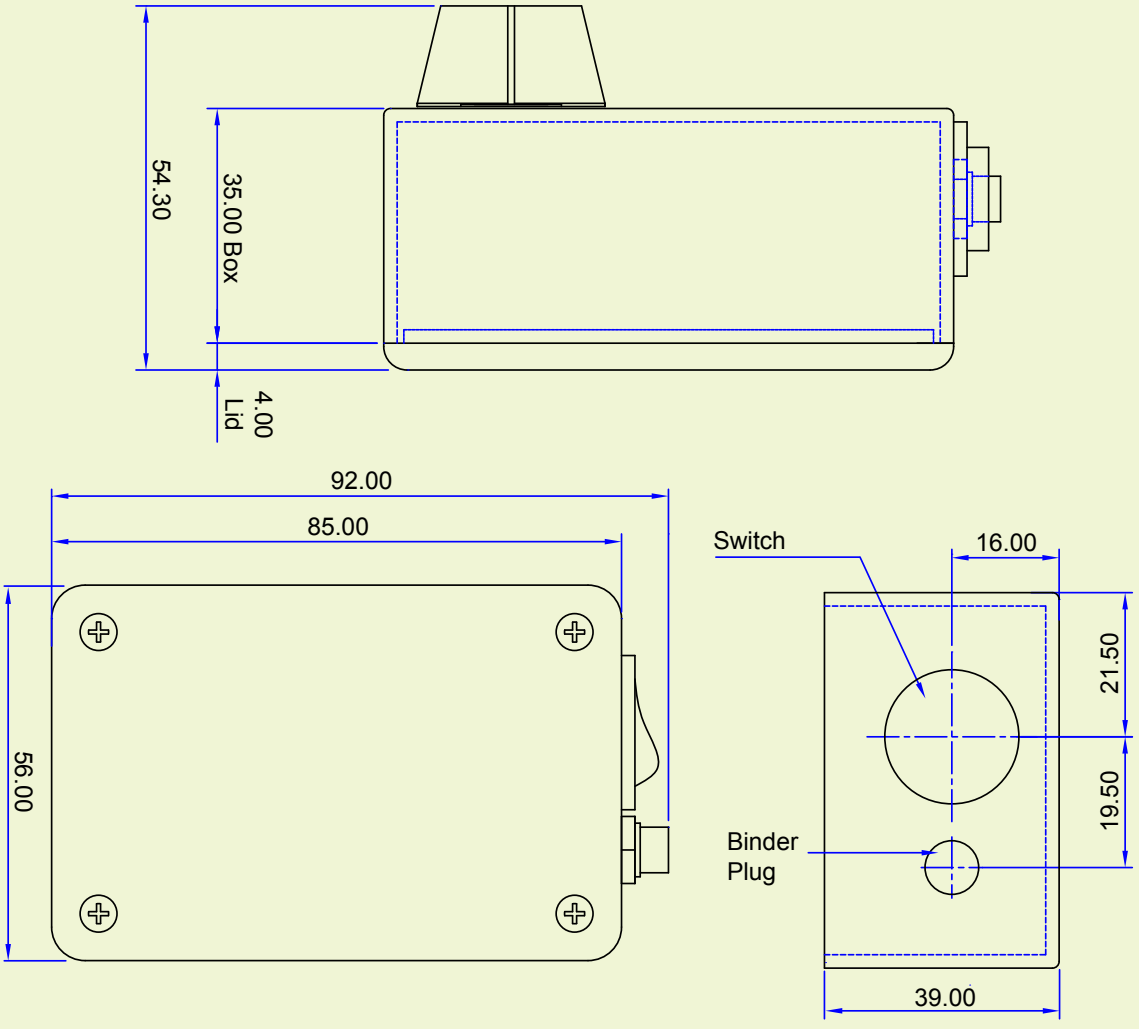
MODEL	DESCRIPTION	INPUT	OUTPUT	LED INDICATOR	ON/OFF SWITCH	COMPATIBLE WITH
	4.5V Battery Box Power Supply (Powers one laser)	AA Type 1.5V 1500mAH x3	4.5 Vdc Female DC Jack	No	Yes	Red & IR Models
	4.5V Battery Box Linear Power Supply (Powers one laser)	AA Type 1.5V 1500mAH x3	4.5 Vdc 4 Pin M8 Binder Connector	No	Yes	Red & IR Models with Linear Control
	12V Battery Box Power Supply (Powers one laser)	AAA Type 1.5V 1150mAH x8	12 Vdc Female DC Jack	No	Yes	Blue & Green Models
	12V Battery Box Linear Power Supply (Powers one laser)	AAA Type 1.5V 1150mAH x8	12 Vdc 4 Pin M8 Binder Connector	No	Yes	Blue & Green with Linear Control

Mechanical Drawings

Battery Box Power Supply - 4.5V & 12V



Battery Box Power Supply Linear Control - 4.5V & 12V



Screw Terminals DC Power Jack

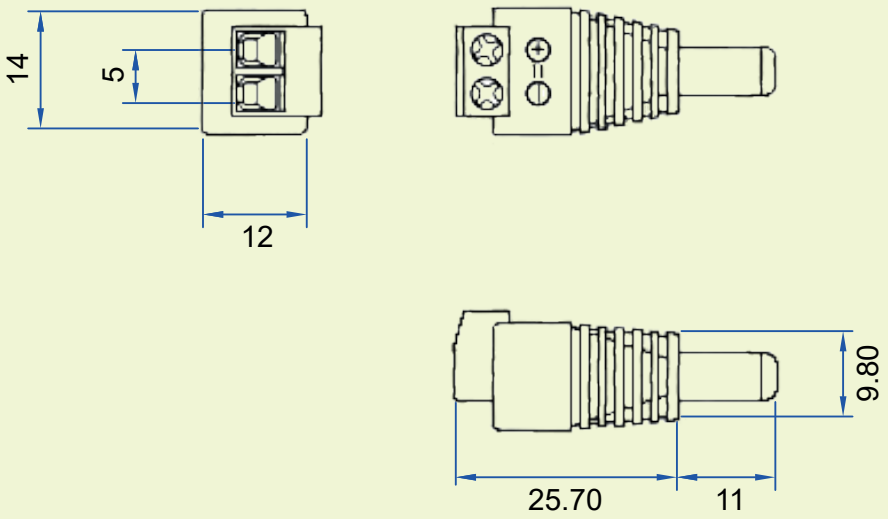
	Screw Terminal DC Power Jack
Part Number	5026-61-000
Gender	Male
Size	2.5mm
Mounting Type	Cable Mount
Type	DC
Termination Method	Screw
Contact Plating	Nickel Plated
Current Rating	2A
Voltage Rating	16 V

This plug can be used to connect laser modules that have flying leads to Global Lasers range of mains power supplies, battery power supplies and 24V adaptors all without the need for any soldering.

There is a 2.5mm DC jack on one end, and a screw terminal block on the other. These connectors are attached to the flying leads using the screw teminals pictured,

It is important to note that the screw terminal marked "-" on the jack plug is +Vdc and the screw terminal marked "+" on the jack plug is 0Vdc.

Screw Terminals DC Power Jack



Tubular Mounting System

The tubular mounting system from Global Laser provides a versatile solution for mounting laser modules above workstations, table saws, cutting tables and many other applications.

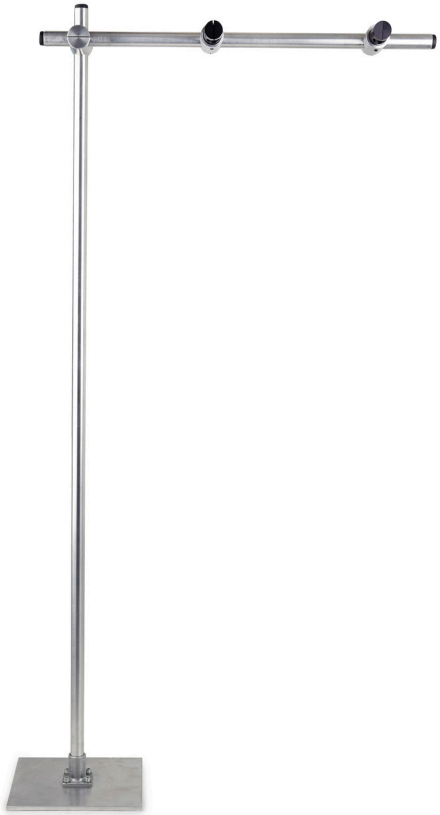
The robust systems comprises of an aluminium tube which can be floor, ceiling or wall mount via a metal base. The base allows the bar to rotate by 360°. A laser mount/s can be fixed to this bar which allows the angle of the laser diode module to be vertical adjusted via the mount. The mount can also be rotated by 360° around the bar and moved vertically in relation to the bar.

A second aluminium tube can be mounted perpendicular to this which is both vertical and horizontally adjustable. Upon this a laser mount/s can be fitted allowing vertical and horizontally adjustable of the laser module itself.

Tube diamaters of 18, 19 and 20mm are avaliable and the length can be customised. Mounting clamps for the majority of Global Lasers product range are available. A set of cable clamps are also supplied which each systems to allow users to clamp the laser modules power cables to the tube section of the mounting system.

“T” Tube Set Up

Single Tube Set Up



“L” Tube Set Up

For more infomation please refer to the Tubular Mounting Datasheet.

Notes

Please Note: Global Laser Ltd reserve the right to change descriptions and specifications without notice.

For further information about any of our products please contact your local distributor or you can contact Global Laser in the UK.
Your Local Distributor Is:

Manufacturing Operations Certified to ISO9001

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