Global Laser

Product Overview

Thank you for purchasing one of our Heavy Duty Mouting Clamps. If you have any problems or require help when using these please call us on +44 (0)1495 212213 or contact your local representative.

The heavy duty mounting clamp allows our range of 7 to 25mm diameter lasers to be securely fixed at any required direction or angle. The base plate has a series of threaded holes which allows the clamp to be fixed directly onto a machine or workbench. An optional magnetic base is also available.

Mounting a Laser in the Heavy Duty Clamp

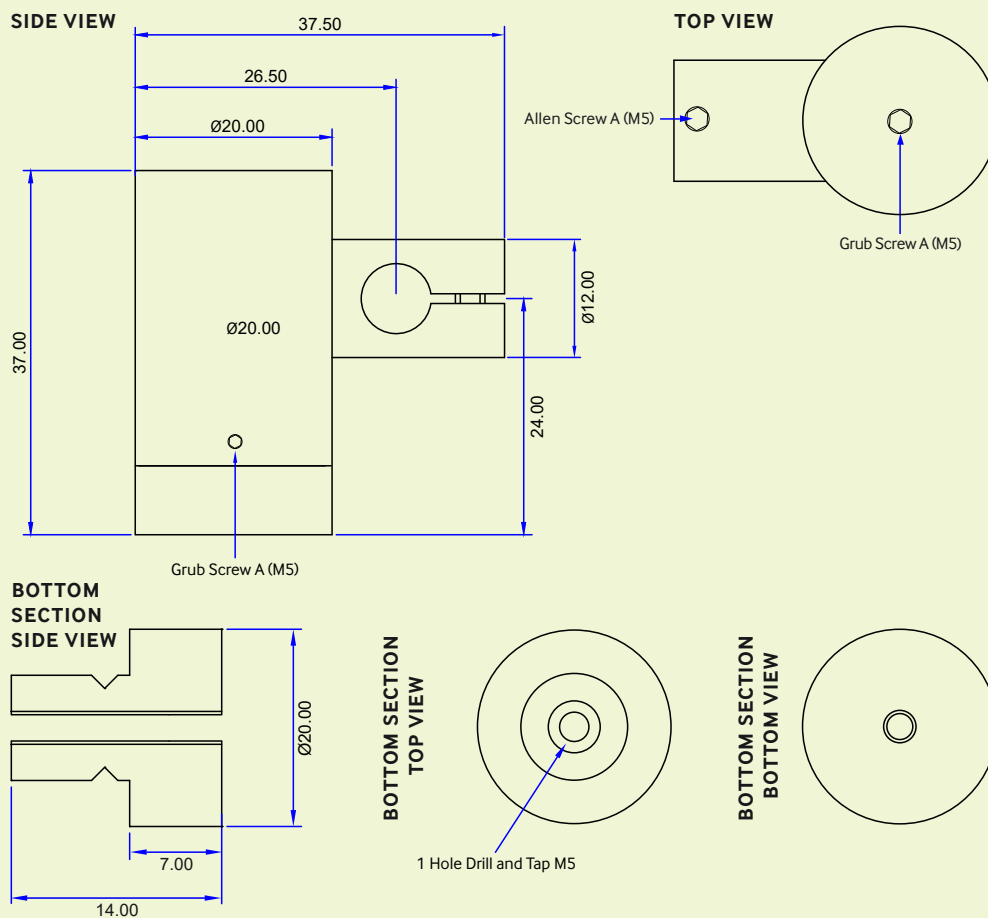1. To secure the clamp to a surface, there are three methods, depending on the model being used. Please refer to the mechanical drawings section for specific details of each mounts:
   a. Screw an M5 stud to the bottom of the base (see drawing A,B,C & D).
   b. Screw two M3 studs to the bottom of the base, through each of the two mounting holes, positioned at 180° to each other (see drawing C & D).
   c. Remove the base by removing x2 grub screw B with the supplied Allen key, then thread an M5 cap screw through the top of the base. Then re-attach the base to the body of the clamp (see drawing B, C & D).
   d. Remove the base by removing x2 grub screw B with the supplied Allen key, then thread an M3 cap screw through each of the two mounting holes, positioned at 180° to each other. Then re-attach the base to the body of the clamp (see drawing C & D).
2. Loosen Allen screw A using the supplied Allen key.
3. Slide your laser into the mounting hole and then tighten Allen screw A.
4. Loosen grub screw A.
5. Adjust the vertical angle of your laser and then tighten grub screw A.
6. Loosen 2 x grub screw B. This will allow the main body of the mount to be rotated independently of the base.
7. Adjust the horizontal angle of your laser and then tighten 2 x grub screw B.

Mounting a Laser in the Heavy Duty Clamp with Magnetic Base

1. Secure the magnetic base to the Heavy Duty Clamp.
   a. Screw the stud on the top of the magnetic base into the centre hole at the bottom of the Heavy Duty Clamp.
2. Remove the keeper from the magnetic base and place on a ferrous surface.
3. Loosen Allen screw A with the supplied Allen key.
4. Slide your laser into the mounting hole and then tighten Allen screw A.
5. Loosen grub screw A.
6. Adjust the vertical angle of your laser and then tighten grub screw A.
7. Loosen 2 x grub screw B. This will allow the main body of the mount to be rotated independently of the base.
8. Adjust the horizontal angle of your laser and then tighten 2 x grub screw B.
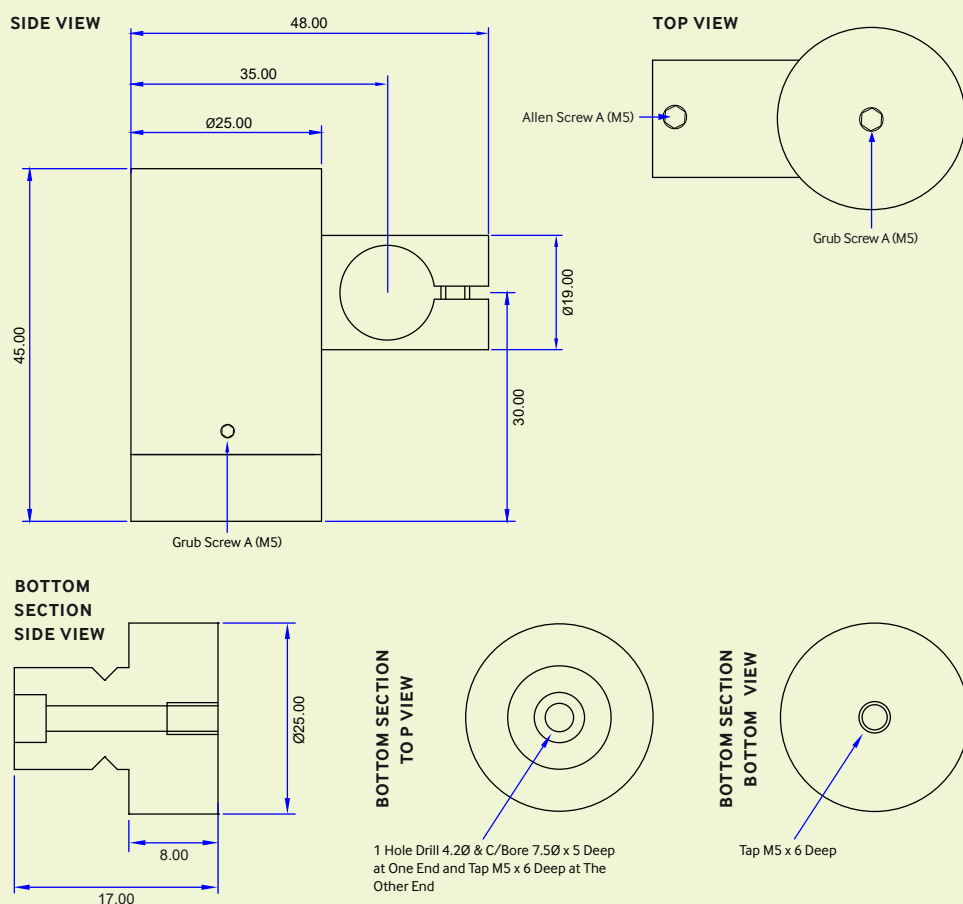
Mechanical Dimensions

A) Heavy Duty Mounting Clamp for Ø7mm Laser Modules

SIDE VIEW

37.50
26.50
Ø20.00
37.00
Ø20.00
Ø12.00
24.00
Grub Screw A (M5)

TOP VIEW

Allen Screw A (M5)
Grub Screw A (M5)

BOTTOM SECTION SIDE VIEW

Ø20.00
7.00
14.00

BOTTOM SECTION TOP VIEW

1 Hole Drill and Tap M5

BOTTOM SECTION BOTTOM VIEW

B) Heavy Duty Mounting Clamp for Ø11,14 15 & 16 Laser Modules

SIDE VIEW

48.00
35.00
Ø25.00
45.00
Ø19.00
30.00
Grub Screw A (M5)

TOP VIEW

Allen Screw A (M5)
Grub Screw A (M5)

BOTTOM SECTION SIDE VIEW

Ø25.00
8.00
17.00

BOTTOM SECTION TOP VIEW

1 Hole Drill 4.2Ø & C/Bore 7.5Ø x 5 Deep at One End and Tap M5 x 6 Deep at The Other End

BOTTOM SECTION BOTTOM VIEW

Tap M5 x 6 Deep

C) Heavy Duty Mounting Clamp for Ø17, 19mm & M18 Threaded Laser Modules

SIDE VIEW

57.00

41.00

Ø30.00

68.00

Ø23.00

51.00

Grub Screw A (M5)

TOP VIEW

Allen Screw A (M5)

Grub Screw A (M5)

BOTTOM SECTION SIDE VIEW

Ø30.00

14.00

32.00

2 Holes Drill 3.2Ø & C/Bored 6.00Ø x 3.5 Deep

BOTTOM SECTION TOP VIEW

1 Hole Drill 4.2Ø & C/Bore 7.5Ø x 5 Deep at One End and Tap M5 x 8 Deep at The Other End

2 Holes Tap M3 x 8 Deep

BOTTOM SECTION BOTTOM VIEW

Ø23.00

Tap M5 x 8 Deep
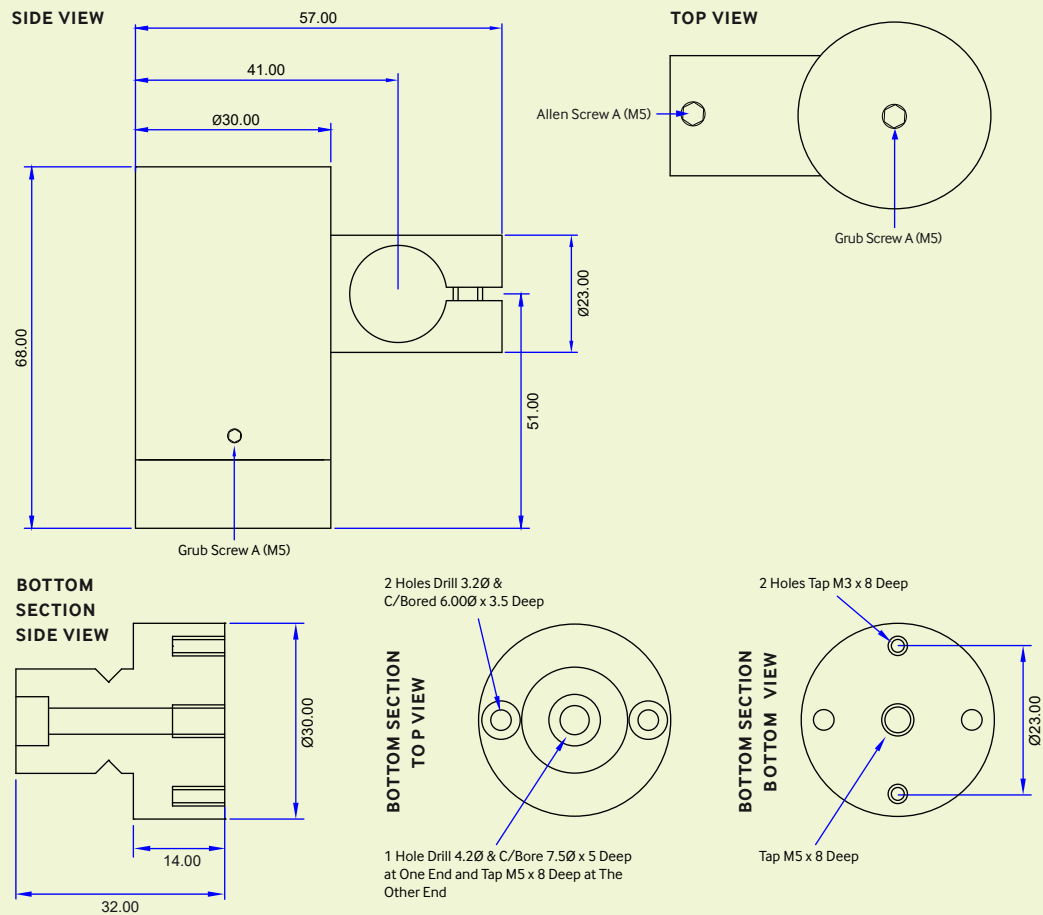
D) Heavy Duty Mounting Clamp for Ø25mm Laser Modules

SIDE VIEW

65.00

44.50

Ø30.00

68.00

Ø31.75

51.00

Grub Screw A (M5)

TOP VIEW

Allen Screw A (M5)

Grub Screw A (M5)

BOTTOM SECTION SIDE VIEW

Ø30.00

14.00

32.00

2 Holes Drill 3.2Ø & C/Bored 6.00Ø x 3.5 Deep

BOTTOM SECTION TOP VIEW

1 Hole Drill 4.2Ø & C/Bore 7.5Ø x 5 Deep at One End and Tap M5 x 8 Deep at The Other End

2 Holes Tap M3 x 8 Deep

BOTTOM SECTION BOTTOM VIEW

Ø23.00

Tap M5 x 8 Deep

Drawings not to scale
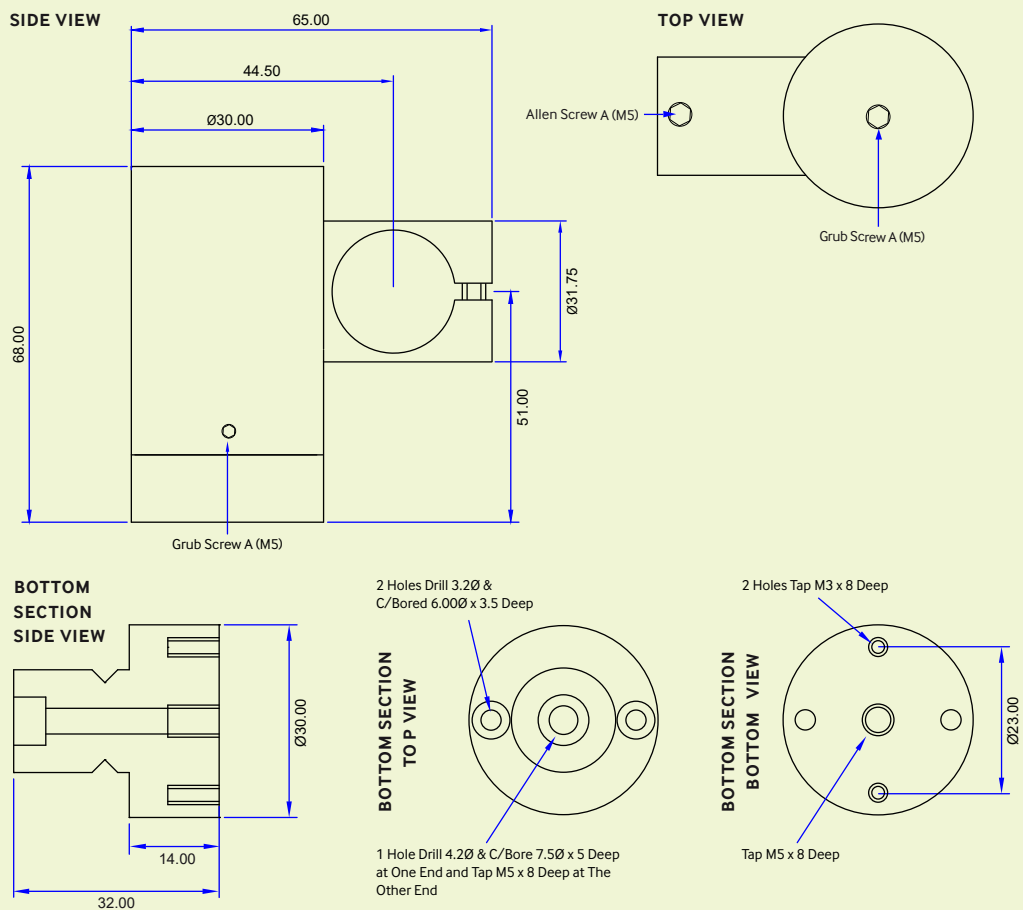
Notes

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

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