

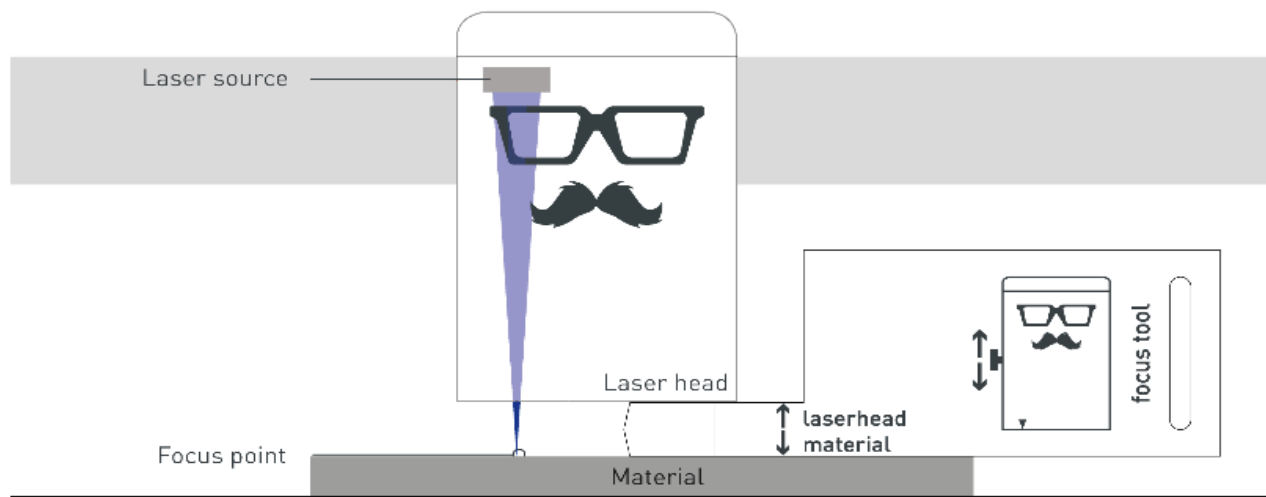
## Focusing the laser head

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Focusing the laser head is required to achieve optimal results with your Mr Beam II.

Since the laser light leaves the laser head in a cone shape, there is only one point at which it is bundled to the maximum, the focus point. In this point your Mr Beam II has the maximum performance and highest precision. Therefore, the focus point should be at the height of the material to be processed. To do this, the laser head must be manually adjusted to the material height.

For best results, the distance between the lower edge of the laser head and the upper edge of the material to be processed must be 10mm. Use the Mr Beam Focus Tool for this.



The focus tool captures four different positions the laser head can be mounted on: 1-16mm, 6-24mm, 12-30mm and 20-38mm. 38mm is the maximum object height Mr Beam II can process.



### Coarse focusing

There are four stages for coarse focusing of the laser head. For this purpose, the laser head can be mounted in different positions on the carriage of the X-axis of your Mr Beam II. This is done without tools by simple form-fitting. It is not necessary to disconnect the ribbon cable.

*Warning:* The ribbon cable may only be plugged in and out if the Mr Beam II is shut down and turned off!

Failure to do so will result in the inoperability of Mr Beam II!

### Fine focusing

The fine focusing is done by a thumb screw on the laser head. The focus must be readjusted each time the material is changed.

### How to focus

#### 1. Position the laser head

Move the laser head over the material by double-clicking on the working area.

#### 2. Coarse focusing

The laser head can be mounted at four different positions for coarse focusing.

#### 3. Precision focusing

Open the screw on the left side of the laser head to move it up and down.

#### 4. Positioning focus tool

Place the focus tool on the material and the cross under the laser head.

#### 5. Move the laser head

Move the laser head down until it touches the cross of the focus tool.

#### 6. Fixing the laser head

Tighten the screw again moderately and remove the focus tool.