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1. Before you start

1.1 Assembly time



You will need approximately 1 hour to install and calibrate your cutter



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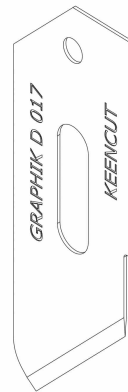
1.2 Be careful when lifting



To prevent injury and damage, lift the box and the machine with 2 people



1.3 Components



X 100

The Evolution3 FreeHand comes in 5 different sizes ranging from 1.1m (44") to 3.1m (124") (cutting length) in 0.5m (20") increments. Each machine is fitted with a Double Graphik blade cutting head.



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1.4 Tools Included



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1.5 Tools not included



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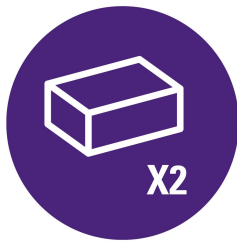
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1.6 Extra tools needed to measure bench flatness



2 blocks (or similar) of equal size



2 equal weights



Thread



1.7 Symbols and icons



Muscle = do this firmly



Feather = do this gently

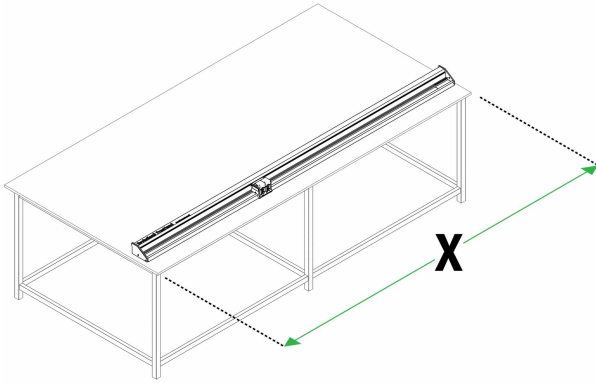


Be careful when lifting



2. Installation

2.1 Workspace required



The width of the work surface needs to be 40cm (16") wider than the cut length of the FreeHand.

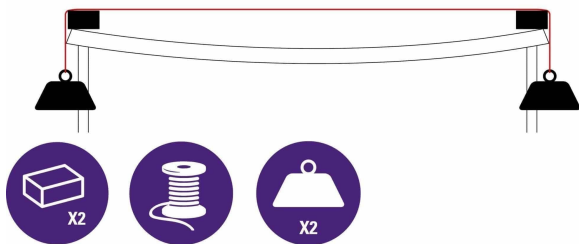
Metric example: E3FH260 260cm + 40cm = 300cm

Imperial example: E3FH104 104" + 16" = 118"

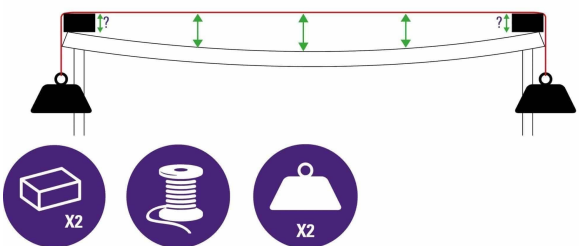


2.2 Work bench flatness test and requirements

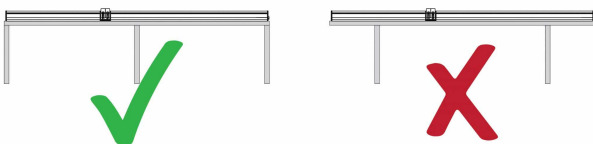
If your workbench does not meet the following parameters and cannot be adjusted for flatness it is recommended to use a different bench. Keencut's BenchTop Bench is designed especially for this purpose.



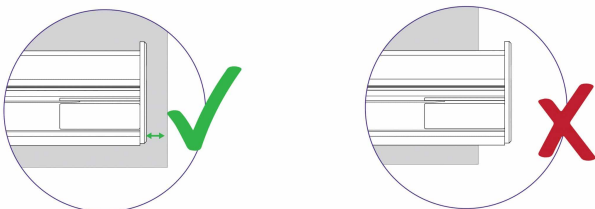
Check the flatness of the worktop by stretching a thin piece of strong thread between two blocks of the same height approximately over the area the cutter is to be used.



Measure the highest and lowest part of the worktop under the thread, the difference between the two measurements should ideally be no more than 1mm (1/16"). If it is greater it will be necessary to adjust the surface flatness with a new top or by using spacing pieces between the worktop and bench framework.



The work surface must be stable with a robust framework below and good support (no flexing) particularly in the area under the two ends of the cutter.

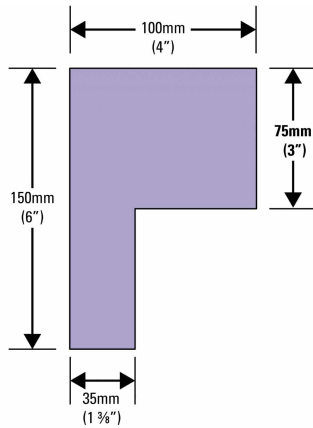


Both ends of the cutter should be fully supported and not overhanging the work surface.

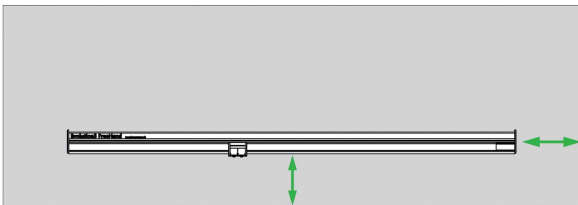


2.3 Creating a cutting station

This section suggests a method of creating a cutting station, although beneficial for productivity and accuracy it is not essential.

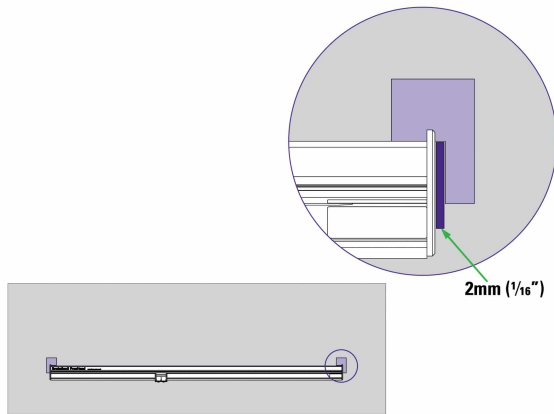


Create two 'L' shape blocks from 25mm (1") wood, MDF or plastic approximately to the following dimensions. These will be used as location guides for your FreeHand and a means of holding it above the worksurface whilst you have both hands free to place the material to be cut.



Place the FreeHand in its flat working position on the workbench. Make sure that it is in alignment with the edge of the work bench and a comfortable distance in from the edge of your bench.





Position the two blocks as shown with a 1-2mm (1/16") spacer between one end of the FreeHand and the inside edge of the adjacent block. Fix the blocks to the work surface. Ensure the FreeHand can be lifted and moved with ease and is not rubbing against the blocks.

When placed within the blocks the FreeHand is in a fixed cutting position. Either:

1) Make a cutting groove in the work surface:

A mark can be made on the table surface using Graphik blade and this used as a guide to cut a groove in the worksurface with a power saw. A cutting mat will be required should the Fabric Tool head be used.

2) Line the table surface with a cutting mat, PVC foamboard or similar:

This will need to be fixed in place either by screwing the two blocks through it or by using double sided adhesive tape. The blade tip should always run in the original cutline when the FreeHand is positioned within the blocks.

Multiple workstations can be created and the FreeHand shared between them.

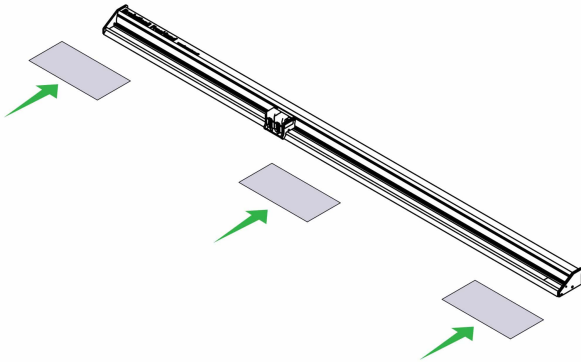
[See how to use the cutting station >](#)



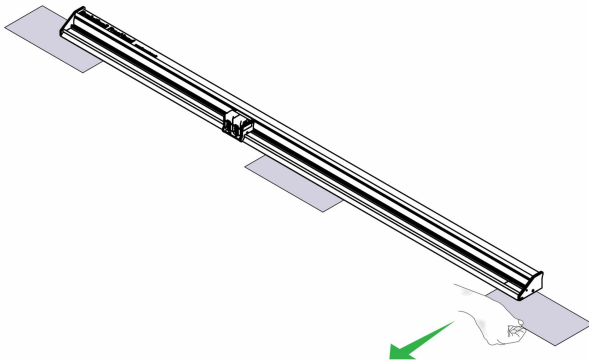
3. Calibration

3.1 Remove cutter bar sag

See how to remove cutter bar sag in this video >

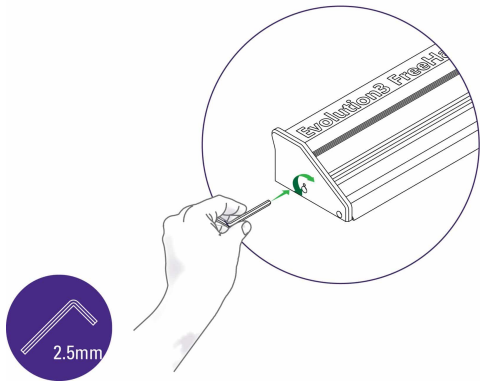


Place the FreeHand on a flat surface and insert 3 pieces of 3mm ($\frac{1}{8}$ ") thick board (PVC Foamboard, ACP or similar) under each end and the middle of the cutter bar.



Test each of the boards to check they are clamped in position. Remove the central board and check the gap under the cutter bar is only a little below 3mm ($\frac{1}{8}$ "). This gap can be adjusted.





Use the 2.5mm Allen (hex) key in the Allen (hex) screw on the left hand end of the cutter to adjust the cutter bar sag. Turn clockwise to raise the clamp in the centre.



4. Using your machine

4.1 Register your machine



Registering your SmartFold machine will activate your 5 year guarantee.

[Register your cutter to activate your guarantee >](#)



4.2 User guide



See the Evolution3 FreeHand User Guide for advice on cutting techniques, using the different cutting heads and care and maintenance of your machine.

[Visit the Evolution3 FreeHand User Guide >](#)



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