

EVOLUTION-E2

Distributor Information Guide



Contents

- Introduction to the Evolution-E2
- Standard Tools & Accessories
- Optional Tools & Accessories
- Blade Selection Chart
- The Features Explained
 - Primary Features
 - Secondary Features
- Operating the Evolution-E2
- Tips for a Good Demonstration

KEENCUT

THE WORLD'S FINEST CUTTING MACHINES

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Introduction to the Evolution-E2

What is the Evolution-E2?

The Evolution-E2 is a bench mounted manual cutter designed with the accuracy to cut popup displays and versatility to handle materials ranging from fabric to 13mm PVC foamboard. The cutting head is manually operated and runs along an aluminium track that can be raised or lowered from either end using full length integral lifts. The standard setup includes everything necessary to get full use out of the Evolution-E2 features from the minute it is setup.

The Evolution-E2 is the most advanced bench mounted manual cutter available for sign and graphics materials. The machines are 100% manufactured in England and the components are sourced from suppliers throughout Western Europe ensuring there are no compromises in quality.

Selling Points

Versatile

Cuts all roll materials used on printers and laminators plus semi rigid boards and textiles

Can be mounted on an existing bench or purpose built Keencut Proteus alloy bench

Available in cutting lengths of 1.6 metres up to 3.6 metres; handles up to 95% of wide format jobs

Switchable to alternative cutting tracks for specific materials

Key Evolution-E2 features

Complete integrated wide format cutting system ready to install in any location

Full length single handed lift & hold operation for ease of loading and material positioning

Cutter bar adjusted along its length to an accuracy of 0.2mm in 3 metres = 1: 15000

Base plate adjustable for flatness and straightness ensuring even clamping and accurate cutting

Integral cutter bar levelling ensures 90 ° cutting of all thicknesses of material up to 13mm

Weights & Dimensions

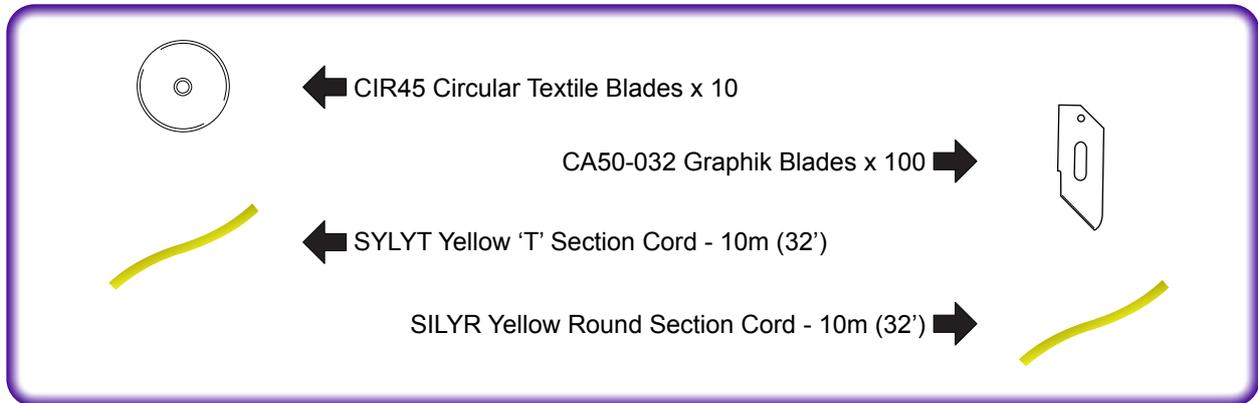
Evolution-E2	EV2160	EV2210	EV2260	EV2310	EV2360
Weight	32kg	40kg	47kg	54kg	62kg
Packaged Dimensions	210x37x15cm	260x37x15cm	310x37x15cm	360x37x15cm	410x37x15cm
Cutter Footprint	203x26cm	253x26cm	303x26cm	353x26cm	403x26cm
Maximum Cut Length	160cm	210cm	260cm	310cm	360cm



Standard Tools & Accessories Included with the Evolution-E2



Optional Tools & Accessories



Blade Selection Chart

The Evolution-E2 uses two cutting systems; a vertical blade holder for semi-rigid substrates and a rotary textile cutter for films, fabrics and other lightweight flexible materials. The following chart matches blades/tools to the materials they cut

Materials	Maximum Cut	Tools/Blades
Acrylic / Plexiglas	4mm	VABHG / CA50-032*
Banner	n/a	VABHG / CA50-032
Cardboard	13mm	VABHG / CA50-032
Conservation Board	3.5mm	VABHG / CA50-032
Corrugated Plastic & Card	13mm	VABHG / CA50-032
Fabric / Textiles	n/a	VABHT / CIR45
Film	n/a	VABHT / CIR45
Foam-Centred Board	13mm	VABHG / CA50-032
Mountboard	3.5mm	VABHG / CA50-032
Paper (speciality / woven)	n/a	VABHT / CIR45
Polystyrene	13mm	VABHG / CA50-032
Pop-Up Banners	n/a	VABHG / CA50-032
PVC Foamboard	13mm	VABHG / CA50-032
Self Adhesive Flexible Material	n/a	VABHT / CIR45
Tissue	n/a	VABHT / CIR45

* Acrylic is scored and snapped, to do this use the back edge of the blade
 For questions about materials that do not appear on this list please contact sales@keencut.co.uk

The Features Explained

The Evolution-E2 sales literature highlights a number of features, the purpose of this section is to explain some of the main features and how they benefit your customer

Primary Features

Unique 4-section extrusion maintains close straightness even under flex

Traditional 'L' shaped cutter bars have one fundamental flaw; any vertical flex creates a horizontal bow in the extrusion. The result is a significant loss of accuracy on anything but perfectly flat surfaces. The Evolution-E2 avoids this problem in two ways:

- 1) The different extrusions clip together to avoid a single 'L' shaped piece being necessary.
- 2) The base plate fixing brackets can be adjusted against the table surface to properly align the machine on any bench.

Single handed positioning, cutting and clamping

The Evolution-E2 lifting handles are connected with a torsion bar meaning that the entire mechanism can be raised from one end. The advantages this provides are:

- 1) A single operator can feed and finely adjust the alignment of media.
- 2) The operator needs to move less and therefore spends less time on each job.
- 3) The bar is lowered evenly to allow for consistent clamping and no unwanted movement.

Switchable cutting tracks for general purpose and textile cutting

The main Evolution-E2 hinge can be set in three different positions each one moving to a separate cutting track. The main 'groove' track is for use with the CA50-032 Graphik blades but the second and third tracks run along a built-in replaceable cutting strip designed for use with the CIR45 textile blades. The tracks can be switched in a few seconds simply by loosening and sliding the main hinges to the desired position.

Integral extruded alloy cutting base adjustable for flatness and straightness

The built-in base plate affixes via a series of brackets that are screwed into a bench surface. Each bracket has up to 3mm of independent adjustment, which means that even if the bench is not flat the Evolution-E2 will be. The clamping and accuracy are optimised by having a flat cutter.

Flip-over stops provide solid clamping for heavier materials

The clamping of heavier materials is assisted by flip-over stops located on either end of the cutter. By positioning heavier materials such as PVC foamboard against the stops it is possible to cut straight through the media with no fear of it slipping. The flip-stop feature is designed to save time but more importantly it saves money by preventing panels being wasted as a result of poor cuts.

Reversible blades make the Evolution-E2 ideal for left-handed and right-handed operators

The new Graphik blades are reversible which means that when both VABHG attachments are in place it is possible to save time by cutting in either direction or by cutting at two depths in a single pass. An additional advantage of the reversible blades is that the Evolution-E2 operates identically for left-handed and right-handed users.



Secondary Features

Multiple integral full length grip cords hold work safe and sure while cutting

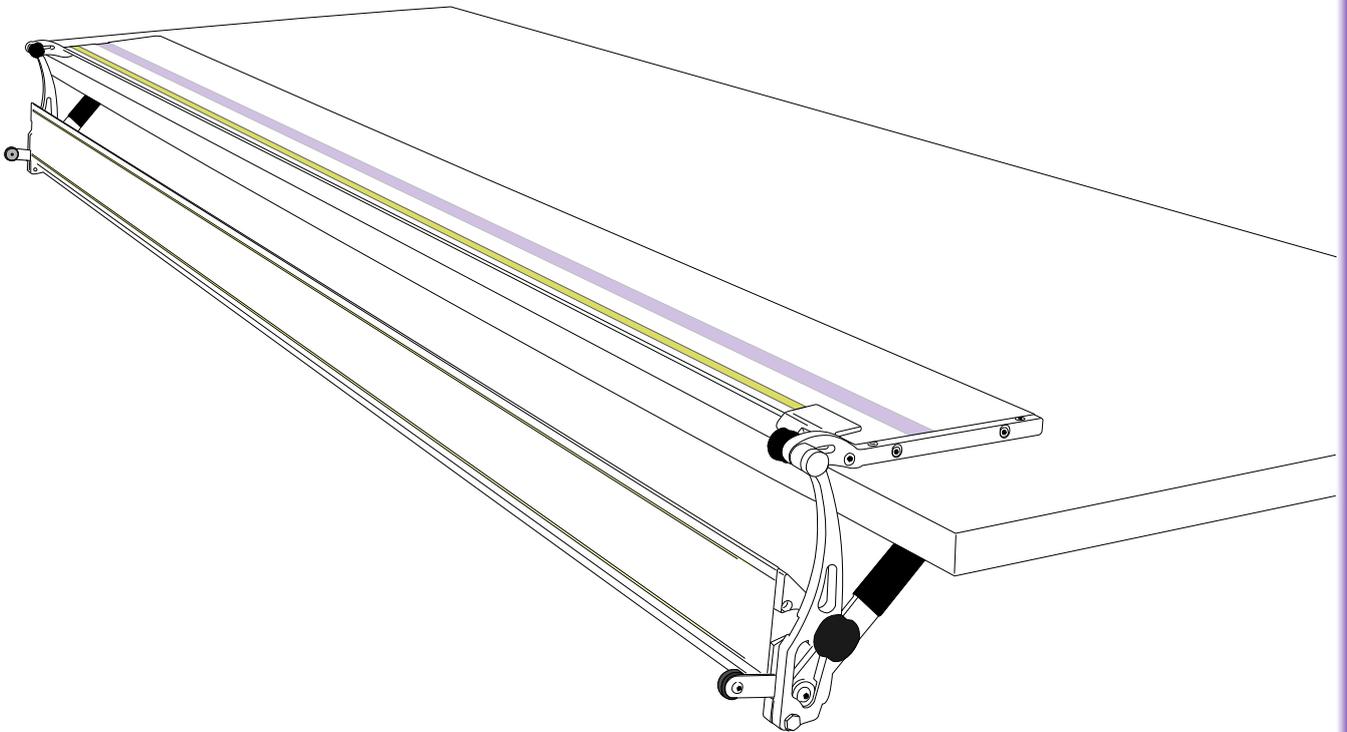
Three silicone grip cords, two on the cutter bar and one on the base, help with clamping. The gentle non-adhesive strips protect printed surfaces and prevent media from slipping.

Sliding Blade depth adjustment

Adjusting the blade to the correct depth is an important function; if too shallow then the cut will be incomplete; too deep and the blade will flex and thicker materials require more effort.

Flip over sub bench parking provides full unobstructed bench surface

The cutter assembly flips forward 270° to hang at a right angle in front of the bench; this allows the table surface to be flush when the Evolution-E2 is not in use



Tips for a Good Demonstration

Materials cut on the Evolution-E2 require minimal or no additional finishing. The tips below will help ensure good demonstrations and provide a basic understanding of the techniques required for certain materials



Acrylic/Plexiglas

Acrylic is cut by scoring the surface and then snapping down the scored line. Snapping Plexiglas and acrylic can be difficult under demonstration conditions so we recommend using relatively small pieces. To snap the acrylic apply thumb pressure to the underside of the score-line; start at one end and let the break run down the line. It may be necessary to reapply thumb pressure if the acrylic does not snap in a single break. Larger pieces require a flat surface and a raised profile (a broom handle for example) to be positioned on the underside of the score-line in order to distribute pressure evenly.

Some granular debris will be left along the edge of the cut; this can be instantly removed.

Foam-Centred Board

A dull blade could result in tearing of the soft foam core so we highly recommend using a sharp blade for this material.

PVC Foamboard

The most important factor with PVC Foamboard is to avoid cutting too fast. The fixed blade does not remove material so it must compress the foam instead; if the speed is too great then instead of compressing it splits the foam creating a very poor edge that will be unacceptable for any job.

No additional finishing is required for Foamboard and printed work can be cut on either side of the clamp.

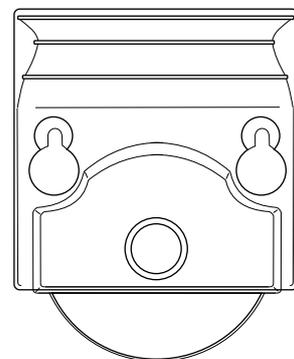
Textiles, Woven Fabrics & Films

There are a large variety of textiles, woven fabrics and films so slight differences in the cutting approach may be necessary but generally the process is very straightforward.

To achieve the best possible edge it is important to prevent creases forming along the cutline. Keep the cutter bar raised and ensure the material is lying flat. Make any fine adjustments before lowering the bar completely. The rotary blade cuts by rolling over the material, which means the fabric will not distort while the blade is in motion.

When cutting woven fabrics some material will become embedded in the plastic cutting strip. It is advisable to brush the debris away between cuts; this will help extend the life of the rotary blade and plastic strip, it will also keep the cut as smooth as possible.

**Remember to rotate the red safety cover out of the way before cutting*



No other materials have any specific cutting or finishing requirements but if you have any questions please contact sales@keencut.co.uk