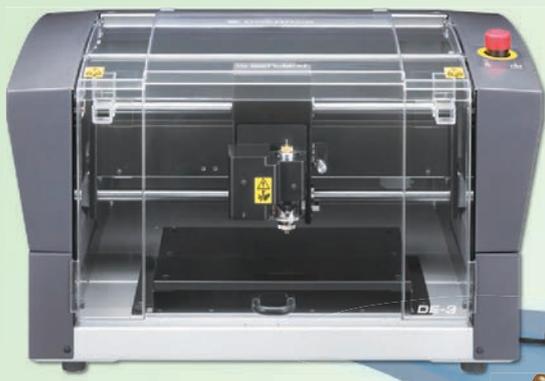
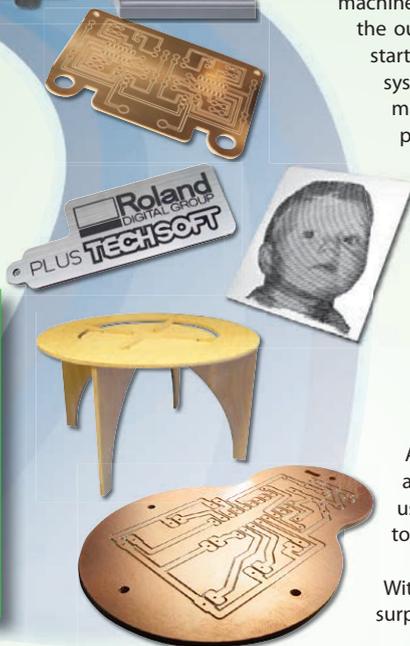


## Roland DE-3E



**DIRECT CONTROL**  
DESIGN

**Roland Engravers/ Millers are the only engraving/milling machines to be DIRECTLY CONTROLLED from TechSoft Design V3**



### Milling/Engraving Machine, Ideal for PCB Production

#### What is a DE-3E?

The DE-3E (the successor to the EGX-350E) has been developed by Roland primarily for use as an engraving machine but, with 40mm of usable Z-axis to play with, it is still an excellent 3D capable machine. The generous bed size, fast axis travel and 50W spindle motor all make it a serious contender as a main CNC milling resource. Build quality is superb (as you would expect from Roland) and the machine is quiet enough to run in a workshop or studio environment. The entire machining envelope is enclosed by a robust, interlocked case so safety is assured and dust and debris will be largely contained. Operation for 2D work is simple and output is direct from 2D Design V2 with a familiar, simple dialogue to set up tool depths, feeds and speeds.

Machine control is via a remote Handy Panel but, apart from switching the machine on to start with, most of the control will be via software through the output dialog box so the Handy Panel will see little use until you start to do 3D work. Top loading tools and the unique TechSoft collet system make tool setting very easy, accurate and reliable. If your main priority is for 2D and 2.5D modelling in light material and PCB production (in particular) then this may well be all the machine you will ever need – more power and bigger capacity is simply not needed for this sort of work.

Unique to this machine is an Active Surface Tracking system (effectively a floating-head arrangement) to maintain consistent cutting depth even on bowed or curved surfaces. If the machine's sacrificial bed is kept skimmed and flat, then this feature is unlikely to be a big advantage, but if you do need to engrave an uneven surface then Active Tracking could well get you out of a tight spot.

Also unique to the DE-3E is a laser pointer which can be used for accurately locating the XY work origin for 'awkward' shapes or if using a vice. It can also be used to preview the engraving area or tool path.

With the DE-3E, you will have a versatile and competent machine. at surprisingly low cost.

#### Specification

Axis Travel:	305 x 230 x 40mm
Max. Machinable:	305 x 230 x 37mm
Max Feed Rate (X, Y):	60mm/sec
Max Feed Rate (Z):	30mm/sec
Spindle Speed Range:	5000 to 20000rpm
Resolution:	0.01mm
Interface:	USB or Ethernet
Weight:	35kg
Dimensions:	616(W) x 587(D) x 390(H)mm

#### What's Included

##### Free Education Training Pack

The Training Pack gives you everything you need to get the machine out of the box and earning its keep in the shortest time possible. We have distilled key information into a series of tutorials that will guide you through setting-up, and then a series of projects that illustrate the full potential of the machine for simple 2D profiling, PCB isolation engraving and 3D profiling. Each pack contains a project CD, a booklet to guide you and a selection of tools, collets and materials. This includes TechSoft's own tooling and collet system to make tool set-up and tool changing a breeze. Completing the Training Pack is not onerous; it will provide a sample set of project ideas - some of which are shown below - and the confidence to develop your own ideas.



##### Includes Tools and Accessories

Slot Drill (TA-SD4-2); Ball Nosed Cutter (TA-BN4-2); Engraving Tool (TA-ECT4-40); VCarving Tool (TA-VCHS4E-90); Lower Collet (TA-LC-TS30); Extraction Attachment (TA-EGX-EXTRING, MMP-EXT-ADAPPT); Upper Collets (2 x TC-UC-1164); Hex Tool (TA-HEXTOOL20); Sacrificial Bed (TC-CAMM2-BED); Lower Bed (TC-EGXACR-BED, TC-EGXMF-BED); USB Cable (CB031); Tape (TA-TAPE)

##### Warranty

UK Mainland & Ireland: 1 Year On-site  
Elsewhere: 1 Year Return and Collect

#### Prices £\*

\*See Pricing Information on page 2

<b>MP-RL-DE3E</b>	Roland DE-3E (inc. TechSoft Training Pack)	
<b>MP7-RL-DE3E</b>	DE-3E Workstation Package. Includes Machine, TechSoft Training Pack, TechSoft Workstation inc. auto-switched extractor, underbench storage, in-built sockets & Gratnell Trays. See page 205.	

#### Recommended Extras

<b>TF-WS3-C1</b>	TechSoft Workstation for Milling, 1400x800x850mm, inc. extractor. See page 205.	
<b>MM-EXTRACTION36</b>	Numatic Standard Extractor, Single Motor (included in TechSoft Workstation TF-WS3-C1). See page 190.	
<b>RL-ROTO-SWITCH</b>	Mains Switching Unit (included in TechSoft Workstation TF-WS3-C1). See page 91.	

#### Recommended Tooling For details of these packs and other tooling see page 86

<b>TP-MIX-350E</b>	Mixed Tool Pack (General set of tools) Save £5	
<b>TP-PCB-350E</b>	PCB Tool Pack (Specialist PCB tools) Save £5	

#### Recommended Materials

See details of this pack on page 91, and our full range of materials on pages 87-91

<b>TPM2-EGX350</b>	Mixed Pre-Cut Materials Pack Save £10	
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#### Recommended Software

TechSoft Design V3 (page 12), TechSoft PCB V3 (page 14) and SOLIDWORKS (page 18)

\* N.B. Extraction only required if cutting fine dust materials e.g., foam, MDF, etc.