

Low Cost 3D Capable Miller/Router/Engraver

What is a SRM-20E?

The SRM-20E is a fully featured 3-Axis CNC milling machine which provides an excellent resource for one-off 2D and 2.5D projects in plastics and common modelling materials. Output for this purpose is direct from 2D Design V2 using the simple, familiar output routine. The SRM-20E also comes into its own for 3D work. The 203 x 152 x 60mm machining envelope is very generous for a machine in this class and will allow for most individual student projects. Models can be machined to fine tolerances with an excellent surface finish. To maximise work flow in a busy workshop, schools could usefully create a 3D Rapid Prototyping centre using two or more SRM-20Es rather than a single, higher capacity but more expensive machine. Machines are supplied with a TechSoft Training Pack and Roland utility software to convert .stl format files for machining. SRM-20 is compatible with Visual Toolpath (see page 21). Although at additional cost, we recommend Visual Toolpath as the most student-friendly way to convert .stl files and configure 3D output.

Why Choose a SRM-20E?

Although an entry-level machine, the SRM-20E is designed and built to professional standards specifically to provide in-house SRM (Subtractive Rapid Manufacturing) capability in a professional design studio. In education, an SRM-20E is sufficiently robust to stand the rigours of the classroom but remains a compact, self-contained resource that could safely be moved if required. Output speed and work capacity is ideal for individual student projects and batch production of smaller items.

CAD/CAM Milling – for Primary Schools Too!

SRM-20E is a friendly, safe and simple machine to use which makes it ideal to introduce genuine CAD/CAM milling to primary pupils. We have developed our 2D Primary software to output directly to SRM-20E. Individual pupils or small groups can now machine their own badges, puzzles or moulds with unprecedented accuracy. They will be learning about modern production methods and gaining experience with a real computer control system.



Roland Miller/Routers are the only milling/routing machines to be DIRECTLY CONTROLLED from TechSoft Design V3



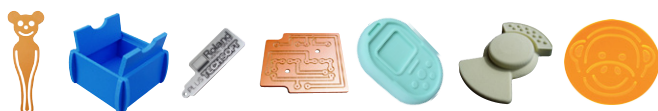
Specification

Axis Travel:	203 x 152 x 60mm
Max. Machinable:	203 x 152 x 60mm
Maximum Feedrate:	30mm/sec
Spindle Speed:	Up to 7000rpm
Resolution:	0.01mm
Interface:	USB
Weight:	19.6kg
Dimensions:	451(W)x427(D)x427(H)mm

What's Included

Free Education Training Pack €12002

The Training Pack gives you everything you need to get the machine unpacked 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 full 3D modelling. 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 - such as the ones shown below - and the confidence to develop your own ideas.



Includes Tools and Accessories €12005

Slot Drill (TA-SD4MP-2); Engraving Tool (TA-ECT4MP-40); Tool adaptors (2 x TA=ADAPT1-M4); Hex Tools (TA-HEXTOOL20, TX-HEXDRIVER7); Table Spacers (TA-SRM20-SPAC4); Sacrificial Bed (TC-SRM20-BED); Tape (TA-TAPE)

Warranty

UK Mainland & Ireland: 1 Year Return to Base
Elsewhere: 1 Year Return and Collect

Prices £*

*See Pricing Information on page 2

Machine

MP-RL-SRM20E	Roland SRM-20E (includes TechSoft Training Pack)
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Recommended Extras

TF-WS3-C2	TechSoft Workstation 1400x800x850mm, c/w underbench cupboards containing in-built sockets, drawers, shelves and storage space for computer. See page 205.
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Recommended Tooling

For details of these packs and our full range of tools see page 80

TP-MIX-SRM20E	Mixed Tool Pack (General set of tools) Save £5
TP-3D-40E	3D Tool Pack (Specialist 3D tools) Save £5
TP-PCB-SRM20E	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

TPM2-MDX20	Mixed Pre-Cut Materials Pack for SRM-20E Save £15
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Recommended Software

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