

matrix

PRODUCT INFORMATION SHEET

IDEAS INTO RAPID REALITY – THE LOW COST, ECO-WAY

Mcor Matrix™ Features

- The **first ever accessible 3D printer technology** to transform CAD design concepts and ideas into rapid reality for educational, architectural, commercial, medical and personal uses;
 - at a **fraction of the total cost of ownership** of current technology;
 - with **operating costs of up to 50 times less**;
 - using **ordinary A4 paper** (recycled/used paper works as well)
 - and a **proprietary water-based adhesive and blade**
 - producing detailed, robust and **eco-friendly** physical objects

Matrix Starter Pack

- Mcor Matrix 3D Printer + Ethernet Cable
- SlicelT Software
- 1 Bottle of PVA adhesive (32oz)
- 2 tungsten carbide blades
- Training on machine operation

Mcor Matrix Specifications

Operating Principle	Laminated Object Manufacturing (LOM)	Additional features	Office friendly
Build Material	Standard Office 80gsm A4 Paper	Max Build Dimensions	297mm x 210mm x 150mm (height)
Machine Dimensions	1160mm x 755mm x 750mm (height)	Warranty	One year
Power Supply	Standard single phase	Typical part cost per CC	€0.01
Cost per CC	€0.008		

Hand: Volume-370cc, Cost - €2.98

Head: Volume-720cc, Cost - €5.81

Teeth: Volume-63cc, Cost - €0.51

Impeller: Volume-80cc, Cost - €0.65



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[This] 3D printer has **potential to revolutionize** rapid prototyping
(Extract from **The Engineering Journal**, October 2008)

A new technology from an Irish company, the Mcor Matrix, which will be officially launched in the UK this month at the annual Time Compression Magazine exhibition in Coventry, has the potential to introduce a revolutionary flexibility and cost-effectiveness to the work of design engineers in all disciplines and, beyond that, to democratise the design process, turning the consumer into a producer. Certainly that's the view of Mcor Technologies, the company that's developed the product that will, it claims, for the first time exploit the **full potential of three dimensional printing**. ■ Mcor Technologies see a future where **everyone can easily make any 3D object by using inexpensive desktop equipment**, much like we use inkjet printers today for two-dimensional paper objects. The Mcor Matrix yields physical 3D models from digital data using A4 paper and is sold with in-house software, 'Slice-It'. Mcor claims to be the only original equipment manufacturer of 3D printers in Europe and that its Matrix is the only 3D printer in the world that uses A4 paper; a significant breakthrough as it greatly reduces the cost of using the technology. The **Mcor Matrix is up to 50 times less expensive** than competitors, according to the Irish manufacturer, and it is the **only eco-friendly machine available**. Models straight out of the Mcor Matrix have the appearance of a wood-carving and are "tough, durable and eco-friendly". The final models can be treated with a cyanoacrylate which gives them a smooth, shiny finish and increases the life of the part, making it even more durable, according to Mcor Technologies. ■ In terms of surface finish, the Mcor Matrix has a 2.54 times finer resolution than the market leader. Results from research conducted in Trinity College Dublin earlier this year which compares three rapid prototyping machines would reinforce this; "If these models were being used for fit form the Matrix would come out on top due to higher dimensional accuracy".

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