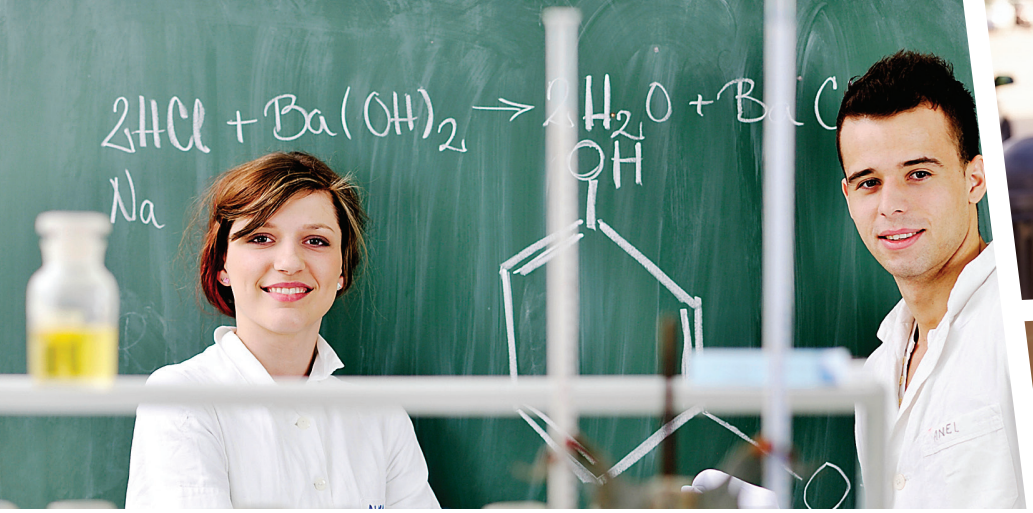
The Lowest Cost, Professional-Class 3D Printers for Schools

mcor technologies
unfettered innovation™



Seize New Opportunities

Whether you're an educator in a high school, vocational technical institution or major university, you can use 3D printing from Mcor Technologies as a central part of your curriculum to excite your students, enrich their learning and encourage their advancement.

Ideal For Every Department

Since they can print in accurate, realistic colour, Mcor 3D printers foster students' design skills across various departments, from product design and engineering to architecture, medical and fine arts.

EXCITE STUDENTS

- Students transform their ideas into physical 3D printed models they can actually hold in their hands
- Bring unprecedented engagement to the classroom

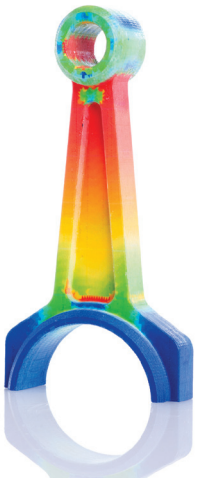
ENRICH LEARNING

- Provide students with valuable hands-on experience in the complete design process, from idea through completed product
- Foster greater interaction and feedback about designs

ENCOURAGE ADVANCEMENT

- Students present recruiters with a physical 3D portfolio of their work
- They gain a competitive edge when applying for jobs and advanced educational programs

Engineering and Mechanical Design



Tooling

Architecture

Geospatial

The Mcor Advantage

To be effective in schools, 3D printing must be accessible to all students, affordable and easy to operate and, above all, safe. Mcor 3D printers are the lowest cost, safest and most eco-friendly 3D printers in the world, so you and your students can quickly, easily, safely and inexpensively produce professional-quality physical 3D models.

Low operating cost increases student access

- Use common and readily-available office paper
- Cost-per-model is 10%-20% of competing technologies
- Ongoing cost is one-fifth of any other 3D printing technology

Safe for daily use in the classroom

- Use paper, water-based adhesive and water-based ink
- No chemicals, fumes, toxic air born particles or sharp cutting tools
- No messy powders to vacuum or dust

Eco-friendly

- Paper, glue and ink can all be fully recycled; even the 3D printed models themselves can be recycled

Easy to use and maintain for greater focus on innovating

- Models require no post-processing after printing
- Takes only minutes to remove a model from the surrounding paper after printing with bare hands and a pair of tweezers

High resolution produces realistic models with fine detail, hollows and moving parts

- 3D printer resolution is 12u, 12u, 100u (0.0004 in, 0.0004 in, 0.004 in)

Unmatched *True Colour* deepens understanding

- Ink is designed for paper and Mcor's patented ink penetrates through the paper, resulting in high colour fidelity, accurate, realistic models and any colour anytime
- First 3D printer with ICC profile
- 1 million+ colours (CYMK – 4 cartridges including black)
- 5760 x 1440 x 508 dpi colour resolution
- Colour is consistent with the colour on screen, from model to model and on undercuts and sidewalls
- No need to coat colour models after printing because even uncoated, colour is rich and vibrant and the models durable

Fine Arts | **Medical** | **Chemistry**

"We haven't come across anything it can't do. Educators evaluating a machine on a material-cost-per-printed-part basis will see the Mcor 3D printer is very cost-effective, just as we did. Add in the green factor and it's a no-brainer."

- Tom Danielsen, Vincennes University

"Mcor 3D printing technologies are helping us engage these students early in a meaningful way so they can go on to create their own opportunities – and make the most of them."

- Adam Truncale, Lee High School

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FEATURES	MATRIX 300+	IRIS
Resolution	0.1 mm (0.004in)	x, y & z axis: 12µ, 12µ, 100µ (0.0004in, 0.0004in, 0.004in)
Colour	Monochrome and PLY colour	Includes ICC colour profile 1 million+ colours (CYMK – 4 cartridges including black) x, y & z axis: 5760 x 1440 x 508dpi
Build Size	A4 Paper: 256 x 169 x 150mm Letter Paper: 9.39 x 6.89 x 5.9 inches	A4 Paper: 256 x 169 x 150mm Letter Paper: 9.39 x 6.89 x 5.9 inches
Build Material	A4 Standard Office Paper (80gsm & 160gsm) Letter Size (20lbs & 43lbs); new and used	A4 Standard Office Paper 80gsm (160gsm ply colour only) US Letter Standard Paper 20lb (43lb ply colour only)
Layer Thickness	0.1mm (0.004in) and 0.19mm (0.007in)	0.1 mm (0.004 in) and 0.19mm (0.007in ply colour only)
Recyclable Parts/Material	Yes	Yes

SPECIFICATIONS	MATRIX 300+	IRIS
Equipment Dimensions	950 x 700 x 800mm (h) 37.4 x 27.55 x 31.5in (h)	950 x 700 x 800mm (h) 37.4 x 27.55 x 31.5in (h)
Equipment Weight	160kg (350lbs)	160kg (350lbs)
Stand Dimensions	1160 x 720 x 940mm (h) 45.6 x 28.3 x 37in (h)	1160 x 720 x 940mm (h) 45.6 x 28.3 x 37in (h)
Stand Weight	150kg (330lbs)	150kg (330lbs)
Power Requirements	350W, 240v 50Hz or 120v 60Hz	350W, 240v 50Hz or 120v 60Hz
Network Connectivity	TCP/IP 100/10 base T	TCP/IP 100/10 base T
File Formats for Printing	STL, OBJ, VRML, Collada	STL, OBJ, VRML, Collada
Hardware Requirements	8GB memory and 100GB hard drive, 2 network cards, one for the printer, 1GB Graphics Card	8GB memory and 100GB hard drive, 2 network cards, one for the printer, 1GB Graphics Card
Operating System	64bit Windows XP, Windows 7, and Windows 8	64bit Windows XP, Windows 7 and Windows 8
Regulatory Compliance	CE	CE
System Software	SliceIT	SliceIT, ColourIT
Special Facility Requirements	None	None
Office Compatibility	Yes	Yes