THURSDAY UPDATE | DREMEL DIGILAB

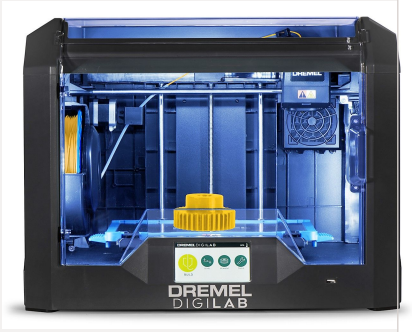
What can you create with a Dremel DigiLab 3D45?

From classroom models and early prototypes to custom work aids and creative projects, 3D printing gives schools, businesses and makers a practical way to turn an idea into something they can hold, test and improve.

FROM DIGITAL IDEA TO PHYSICAL OBJECT

A 3D printer builds an object one layer at a time from a digital model. That makes the Dremel DigiLab 3D45 useful wherever people need to explain an idea, test a design, solve a practical problem or create something that does not already exist on a shelf.

Dremel DigiLab 3D45 | MPN 3D45-01



LEARN	DESIGN	SOLVE	CREATE
Create anatomical models, geometric forms, historical objects, robotics parts and other hands-on teaching aids.	Turn a concept into a model for fit checks, demonstrations, feedback and early-stage product development.	Produce holders, organizers, templates, jigs, fixtures and other non-critical aids for a specific workflow.	Build custom enclosures, displays, signs, gifts and personal projects that begin as a digital design.

Who may benefit from a 3D45?

The opportunity reaches beyond the traditional hobbyist. A single platform can support learning, experimentation, visualization and light-duty problem-solving across many environments:

- Schools, colleges and universities building STEM, robotics and design programs
- Libraries, makerspaces and community programs offering shared creative tools
- Engineers and product teams creating concept models and working prototypes
- Small manufacturers, repair businesses and workshops developing custom work aids
- Architects, designers and creative professionals presenting physical models
- Serious makers and families ready to move from pre-made models into original designs

Why the 3D45 is a practical platform

The fully enclosed 3D45 combines a heated glass build platform, automatic calibration, run-out detection and an HD camera with support for PLA, PETG, ECO-ABS and Nylon. Its 10 x 6 x 6.7-inch build area and minimum 50-micron layer height give users room to produce detailed models while its guided workflow helps first-time operators get started.

RANDMAR ANGLE

Randmar currently has the Dremel DigiLab 3D45 available in Canada and can help resellers build a complete solution with compatible filament, build surfaces and accessories. The conversation should begin with what the customer wants to make; the printer, materials and support can then be matched to that application.

Sources: Randmar MCP active product catalogue and Canadian inventory reviewed October 29, 2026; 3PI Tech Solutions Dremel DigiLab 3D45 product and comparison pages; Dremel DigiLab 3D45 documentation. Availability may change. Printed parts must be evaluated for their intended use; do not treat consumer 3D prints as certified safety-critical components.