BE3D™
EDEE

BENEFITS

- Full-featured print management solution manages 3D printer usage and enables cost recovery

- High quality, secure 3D printing for fast prototyping

- Seamless print management across 2D and 3D printers - an industry first

3D printing in higher education offers students a new way to learn, create and advance their education. Educational institutions have realized the advantages of offering 3D printing services to students as tactical learning aids. In fact, in regions where competition for students is high, integrating 3D printing into course curriculum may allow schools to distinguish themselves positively from other educational institutions. Similar to 2D printers, educational institutions need to manage 3D printing use and costs. Specifically designed for education, YSoft be3D eDee is the first 3D printer with print management and an accounting system. Institutions offering 3D printing services with eDee have a centralized view of their 3D printer fleet and payment system for printing services.

3D PRINT CHALLENGES

- As 3D printers are added to campus-wide networks, the fleet needs to be centrally controlled and managed

- Unlike 2D, print jobs cannot be queued or redirected if the printer is busy

- Securing the 3D object and the job printing process from other students

- 3D print jobs cannot be easily reprinted or marked as 'favorite'

- Print queues cannot be shared (from teacher to student groups for example)

YSOFT BE3D EDEE – PRINT MANAGEMENT FOR 3D PRINTERS

YSoft be3D eDee integrates many of the modules found in the YSoft SafeQ Print Management Suite with modules specific for 3D printing.

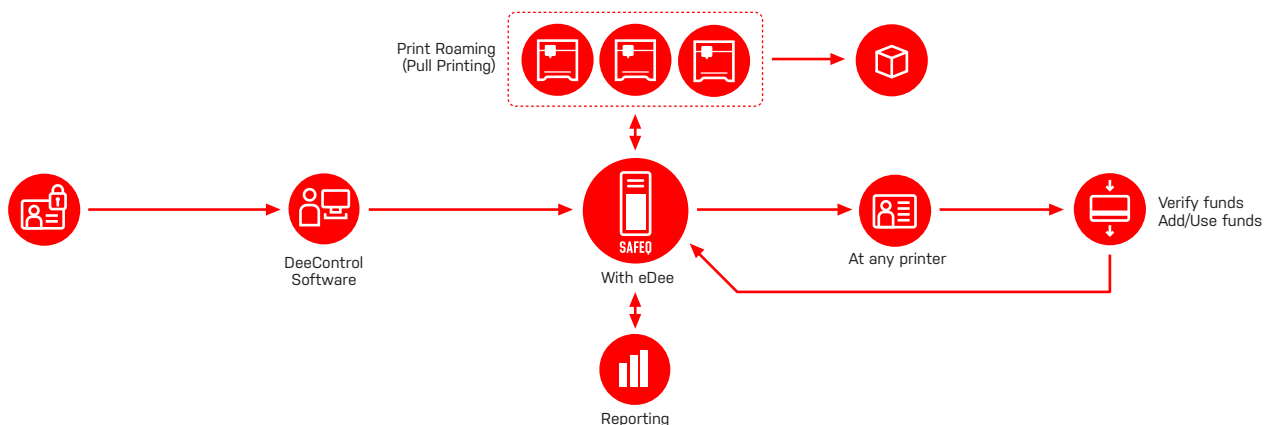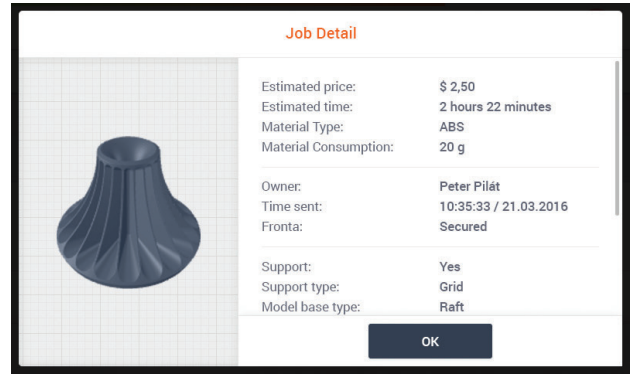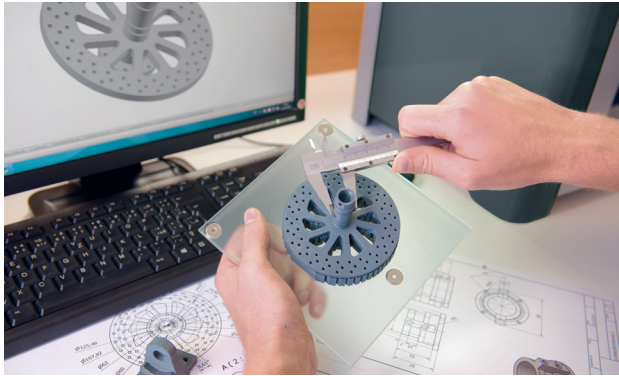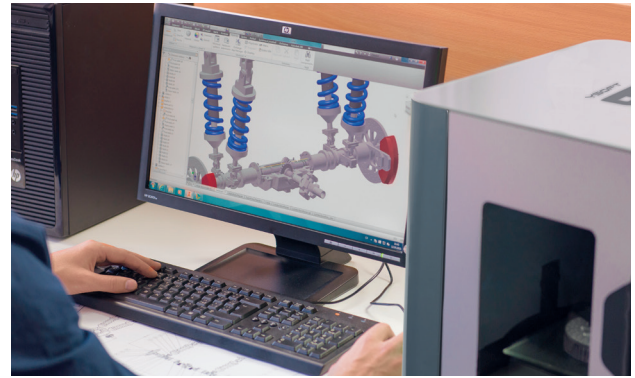| MODULES	BENEFITS AT A GLANCE
DEECONTROL	When the student is ready to print, DeeControl will evaluate the 3D print job and estimate the time and cost of materials. When the student accepts the estimate, the 3D print job is stored in YSoft SafeQ under the student's credentials.
PRINT ROAMING®	Print Roaming enables students to print from any 3D printer they are authorized to use. In this way, students can choose to print on any available 3D printer.
AUTHENTICATION	Defines access to the 3D printer and specific functions allowed by the student. Students authenticate by ID card, username/password, PIN or a combination of methods as defined by the security needs of the educational institution. Jobs can be marked as favorites for easy reprinting.
CREDIT AND BILLING	Verifies the student's account for sufficient funds for the 3D print job; students can add funds if needed. If funds are sufficient, the print job begins. Once the job begins, the 3D printer is locked, preventing unauthorized removal of the object.
REPORTING	Fact-based data on print jobs performed on the entire fleet of 3D printers. Data can be analyzed against actual costs to determine if appropriate cost recovery is being met.

3D Printers

Figure 1. YSoft be3D eDee Workflow.

A design school adds 3D projects to the student's curriculum and finds that student interest levels increase.

Figure 2. YSoft be3D eDee software screen examples.

YSOFT BE3D EDEE – A MODERN, FULLY AUTOMATED 3D PRINTER

With intuitive touchscreen controls, print bed auto-calibration, and a fully enclosed print and spool chamber, eDee provides high quality print objects, accuracy and speed. Designed with "safety-first" in mind, eDee's design and features increase safe operation and the integrity of the print object by protecting it from foreign objects.
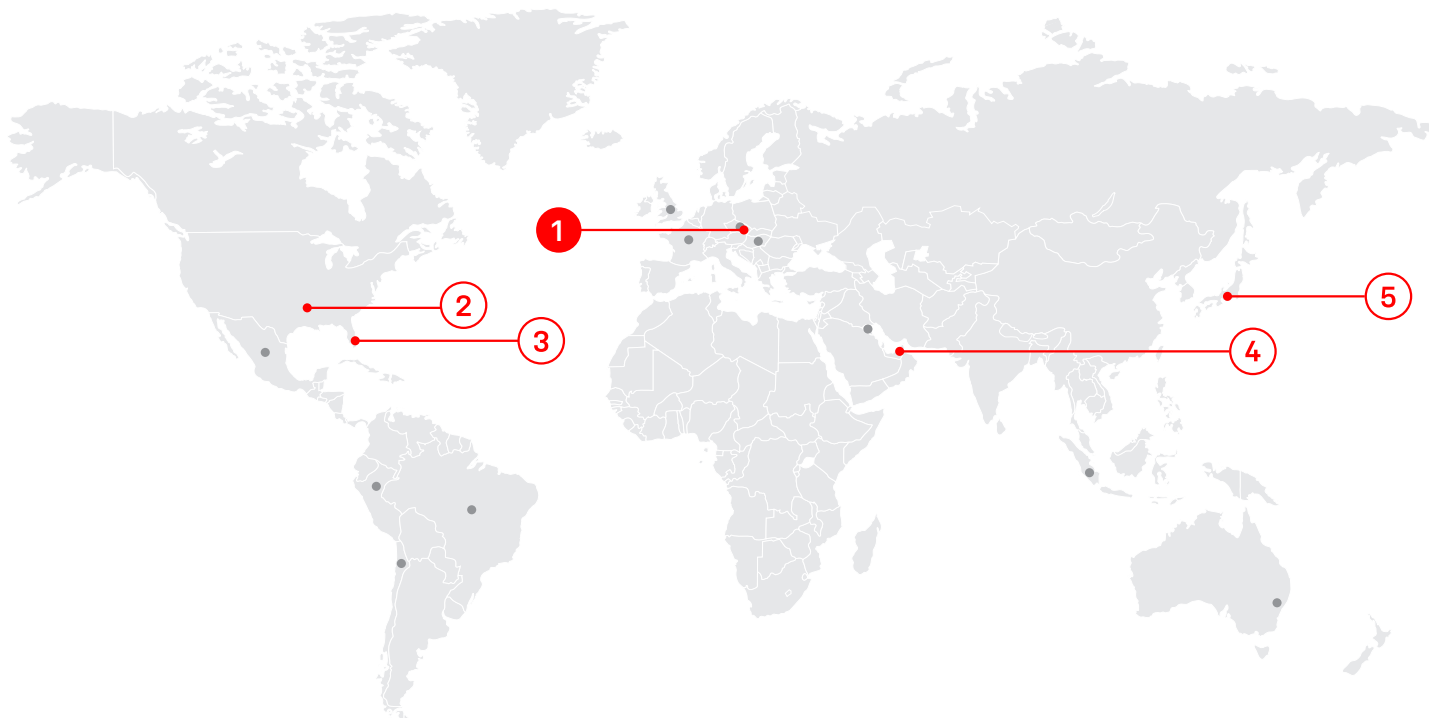
Ideally suited for fast prototyping and exploring the world of 3D printing, eDee has a 7-inch capacitive touchscreen display, see Figure 2, the ability to be networked and a webcam for remote monitoring.

TECHNICAL SPECIFICATIONS

Print technology	FFF
Build volume	150 × 150 × 150 mm
Print accuracy	0.1 mm
Layer thickness	0.05 / 0.1 / 0.15 / 0.2 mm
Nozzle diameter	0.4 mm
Print speed	90 mm/s

Printer control	7-inch capacitive touchscreen
Interior lighting	LED
Power source	230 V / 120 W
External dimensions	496 × 414 × 397 mm
Weight	27 kg
Inputs	Ethernet

LOCATIONS

Company Headquarters	Regional Headquarters	
1 Y Soft Corporation, a.s. Technology Park, Technická 2948/13 616 00 Brno Czech Republic	**2** North America Y Soft North America, Inc. 1452 Hughes Rd, Suite 110 Grapevine, TX 76051	**4** Middle East Y Soft Middle East Makateb 4 International Media Production Zone, Dubai
	3 Latin America Y Soft Latin America 2000 Ponce de Leon Blvd, Suite 652 Coral Gables, FL 33134	**5** Asia Pacific Y Soft Japan, Ltd. KFM Building, 10th Floor 658-0032 Koyocho Higashinada Kobe, Hyogo Japan

For a complete list of more than sixteen countries and locations, please visit our website.

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