



Unelte si ajutaje  
pentru liniile de  
productie



Piese mari  
end-use



Modele  
rezistente chimic



Prototipuri functionale  
pentru industria auto &  
aerospatiale



Unelte suport  
pentru echipamente



Unelte medicale  
gata de sterilizat

# zortrax

## Endureal Viitorul liniilor de productie



imprimanta 3D Zortrax Endureal



Duala



Singulara

### Rezolutie

200 micrometri (duza 0.4)



### Volum construit

400 x 300 x 300 mm

#### › Usor de implementat

Being a full-fledged industrial machine, Endureal is as fast to set up and easy to operate as Zortrax desktop-class 3D printers. Intuitive user interface and software with carefully tuned settings predefined for each dedicated filament make Endureal ready to work at full capacity from day one.

#### › Compatibilitate cu PEEK CF

Polyether ether ketone reinforced with carbon fiber (Z-PEEK CF) is one of the most future-oriented 3D printing materials. High resistance to heat, chemicals, and abrasion make Z-PEEK CF the right filament for fully functional parts in satellites, automobiles, or airplanes.

#### › Performanta controlata

Endureal's operation is monitored in real time by a wide array of sensors. Everything from air humidity in the filament's compartment, to temperatures in its critical modules is tightly controlled. The printer can detect multiple issues like overheating or filament shortages and notify the user. In emergencies, its operation can be immediately stopped by hitting a clearly visible safe button.

#### › Camera de printare industriala

Endureal has an enclosed printing chamber designed for the most challenging materials like Z-PEEK CF, or flame-retardant Z-PEI 9085. It can be heated up to over 200° C. Such high temperatures are necessary to minimize shrinkage in large-format prints.

#### › Platforma de constructie de inalta temperatura

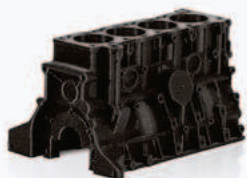
A build platform in the Endureal is made of aluminum covered with PEI film to ensure proper adhesion for all supported filaments. The platform is designed to withstand temperatures reaching 200° C which are necessary to efficiently print high-performance polymers.

#### › Capabilitate de extrudare duala

The printer can simultaneously work with two filaments, one for the model, and the other one for soluble or breakaway support structures. This makes it capable of fabricating models with complex internal geometries, movable mechanisms, and other shapes that would have been impossible to print in a single-extrusion mode.

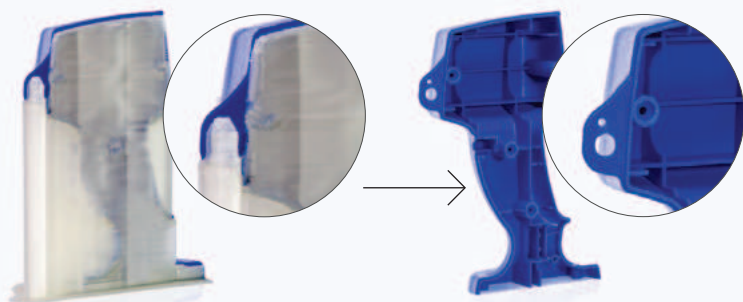


Un suport MTB absorbant de soc printat 3D cu Z-PEI 9085



Functional 4-cylinder engine block printat 3D cu Z-PEEK CF

Consola durabila si rezistenta printata cu Z-PEEK CF



Maner gata de utilizare pentru o unealta - inainte si dupa inlaturarea suportului solubil in apa

Conector hidraulic in forma de U rezistent la temperatura printat 3D cu Z-PEI 9085

### ECHIPAMENT

Volum de constructie*	400 x 300 x 300 mm
Diametru duza	0.4 mm
Extruder	Dual material
Sistem de racire extruder	Doua ventilatoare - extruder, ventilator radial print
Hotend	Hotend dual de inalta temperatura
Platforma	Incalzita, din aluminiu acoperita cu PEI
Senzori de material	2 x endstop mecanic, 2 x senzor greutate material
Conectivitate	Wi-Fi, Ethernet, USB
Sistem de operare	Android
Procesor	Quad Core
Ecran tactil	7" IPS 1024 x 600
Camera	Da

### SOFTWARE

Software bundle	Z-SUITE
Tip fisiere suportate	.stl, obj, .dxf, .3mf
Sistem de operare	Windows 7 si versiuni mai noi

### PRINTING

Tehnologie	LPD Plus (Layer Plastic Deposition Plus) – tehnologie avansata de depunere a plasticului topit cu structuri suport break-away si dizolvabile
Rezolutia stratului	200 micrometri (duza 0.4)
Grosimea minima a stratului	400 micrometri (duza 0.4)
Calibrarea platformei	Masurare automata a inaltimii punctelor de pe platforma

\*In modul de extrudare duala dimensiunile proiectului nu pot depasi 390 mm pe axa X si/sau 290 mm pe axa Y.

### TEMPERATURA

Temperatura maxima de printare (extruder)	450° C
Temperatura maxima a platformei	200° C
Temperatura maxima a camerei de printare	200° C
Temperatura ambientala de operare	17-30° C
Temperatura de depozitare	0-35° C

### ELECTRIC

AC Input	120 V ~ 13 A 50/60 Hz 200 - 240 V ~ 9,5 A 50/60 Hz
Consum maxim de curent electric	120 V - 1600 W 200 - 240 V - 2300 W

### FILAMENTE

Dedicate pentru extrudare singurara	Z-ULTRAT Plus, Z-ESD
Dedicate pentru extrudare duala	Z-ULTRAT Plus, Z-ESD, Z-PEEK CF, Z-PEI 9085, Z-SUPPORT Premium (solubil in apa), Z-SUPPORT High-Temp (break-away), Z-SUPPORT ATP (solubil cu activator Z-SUPPORT ATP)
Material suport	Inlaturat mecanic - printat cu acelasi material ca modelul  Break-away – printat cu un material diferit fata de model  Solubil – printat cu un material diferit fata de model
Filament	Rola
Diametru filament	1.75 mm

### IN CUTIE

Imprimanta 3D, Z-SUITE, Starter Kit, Maintenance Kit, rola de material -model, rola de material - suport, rola de material model - temperatura ridicata, rola de material suport - temperatura ridicata, stick de memorie USB



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