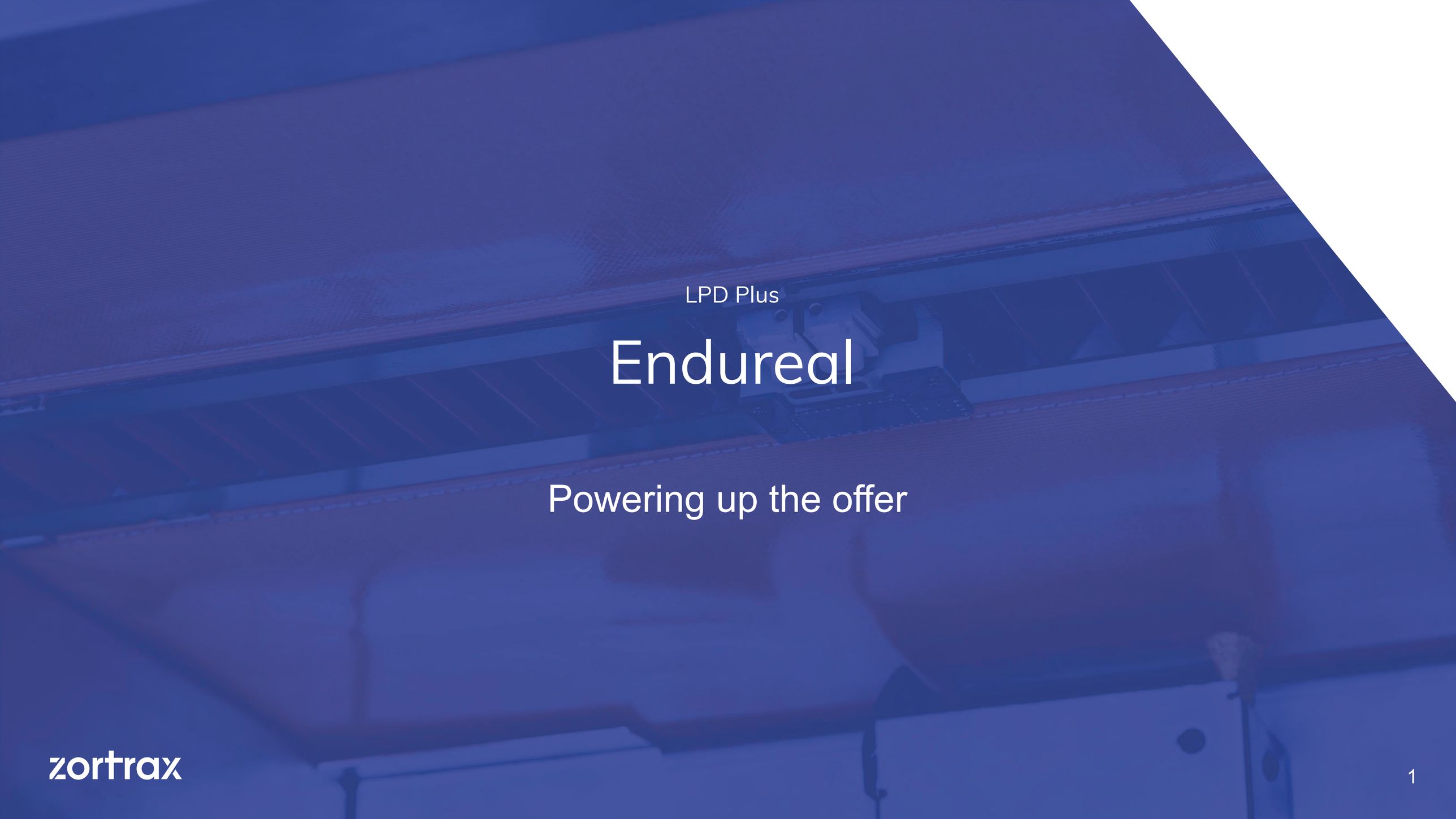

LPD Plus

Endureal

Powering up the offer

zortrax

Endureal

For industrial purposes and support of large scale prototyping and production

Printing chamber heated up to 130°C

Build platform heated up to 140°C

for most challenging materials like PEEK or polymers reinforced with carbon fiber.

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Ultimate control

- **Temperature sensors**
  to control the temperature of the extruder, platforms, chamber and detection of electronics overheating
- **The platform calibration sensor**
  precise calibration of the distance from the platform
- **Axial optical endstops**
  repetitive positioning of the extruder on each axis
- **Fan stop sensors**
  fan failure detection
- **Extruder sensor**
  the printer detects disconnection or extruder problems
- **Camera**
  for monitoring the printing process remotely

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Endureal

Ultimate control

- **Force sensors for filament weight**
  current information on how much filament remains on the reel
- **Filament presence sensors**
  information about the lack of filament
- **Filament jam sensors**
  detection and indication of filament jam
- **Air humidity sensor**
  maintaining constant, low humidity in the filament chamber
- **Blackout response system**
  for detection of a power outage and resuming the printing from the same spot when the power is back on
- **Supply voltage sensor detecting 110V / 230V**
  the printer adjusts the method of power distribution to heaters depending on supply voltage

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PEEK filament

A steel pipes' holder. High abrasion resistance and tolerance to a wide range of temperatures make PEEK the right choice for steel pipes' holder.

Unique combination of mechanical properties: resistance to chemicals, wear and tear and abrasion.

- Exceptionally resistant to high temperatures of up to 250°C
- Can be used in manufacturing durable parts able to survive longer in harsh environments
- Tensile strength approx. 100 MPa, i.e. 1/3 of the strength of aluminum
- Once sterilized, 3D printed PEEK models can work in medical prototyping

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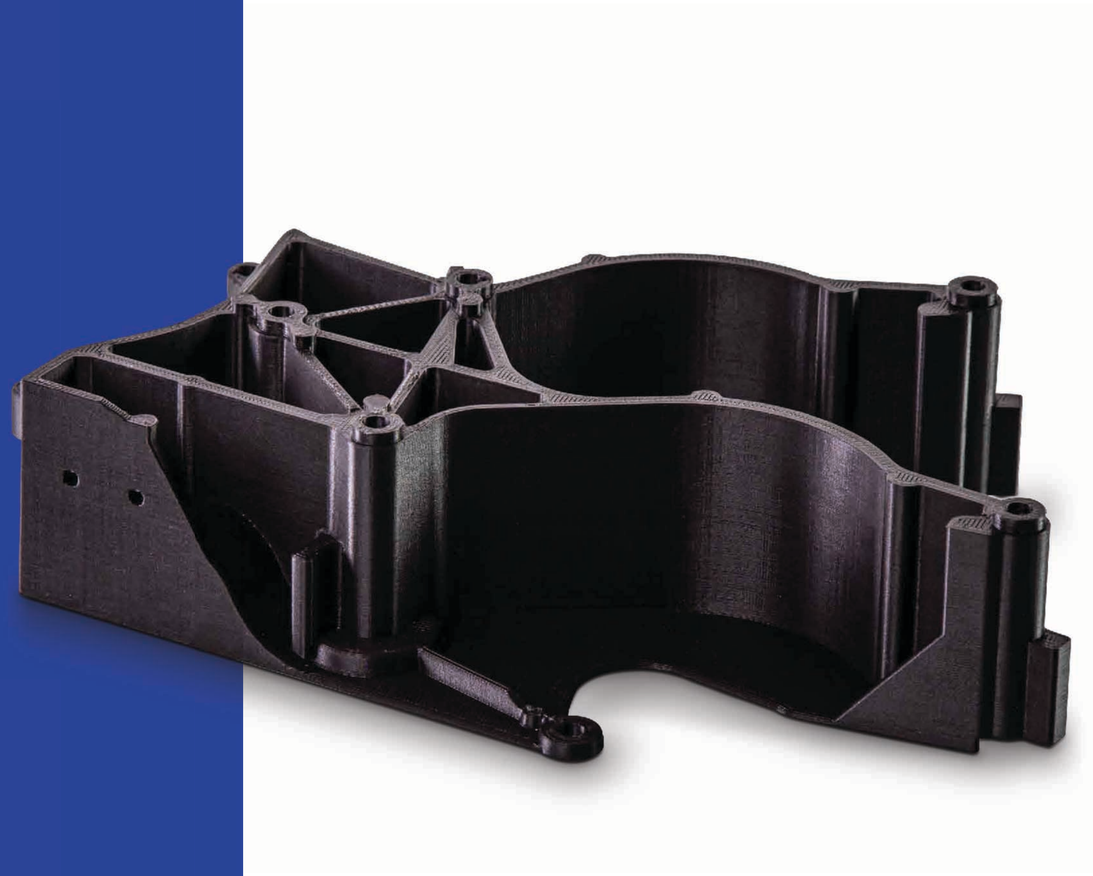
Endureal

Polymers Reinforced with Carbon-Fiber



An LS accessory bracket. Carbon fiber reinforces the polymer's structure which makes it strong enough for accessory brackets in LS engines.

Polymers reinforced with carbon-fiber have excellent mechanical properties and can work in heavy-duty, functional parts.

- Their stiffness and tensile strength can be over 1.5 times higher than Z-NYLON, with better resistance to high temperatures reaching 120°C and higher
- Such materials achieve matt, porous surface in prints and possess anti-static properties
- They can be used in all sorts of industries, wherever high rigidity is required in relation to the component weight

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