

# Presenting the ZPrinter® 450

World's Most Automated and  
Affordable Color 3D Printer



**Z CORPORATION®**

# ZPrinter® 450 at a Glance



## World's most automated and affordable color 3D printer

- Output precise, 450 dpi color 3D models/prototypes, 5x-10x faster than competing printers at half the cost
- Ideal for MCAD, education, architecture, medical, geospatial, and electronic arts applications
- Automation simplifies printing and saves time (40% less touch time)
- Compact, all-in-one printing and powder recycling
- Sets new standard for office compatibility with office-safe build materials, active dust-control, and zero liquid waste

# ZPrinter 450 at a Glance



## Bold, Contemporary Product Design

- First *color* 3D printer to break the \$40,000\* price point
- A giant step in making color 3D printing accessible and suitable for everyday use
- A superior alternative to monochrome 3D printing, or the outsourcing of color prototypes and 3D models
- Produce models for less than half the cost of other 3D printing technologies



\*Manufacturer's Suggested USA List Price for printer only. Options, shipping, local taxes and duties not included.

# Speed and Accuracy



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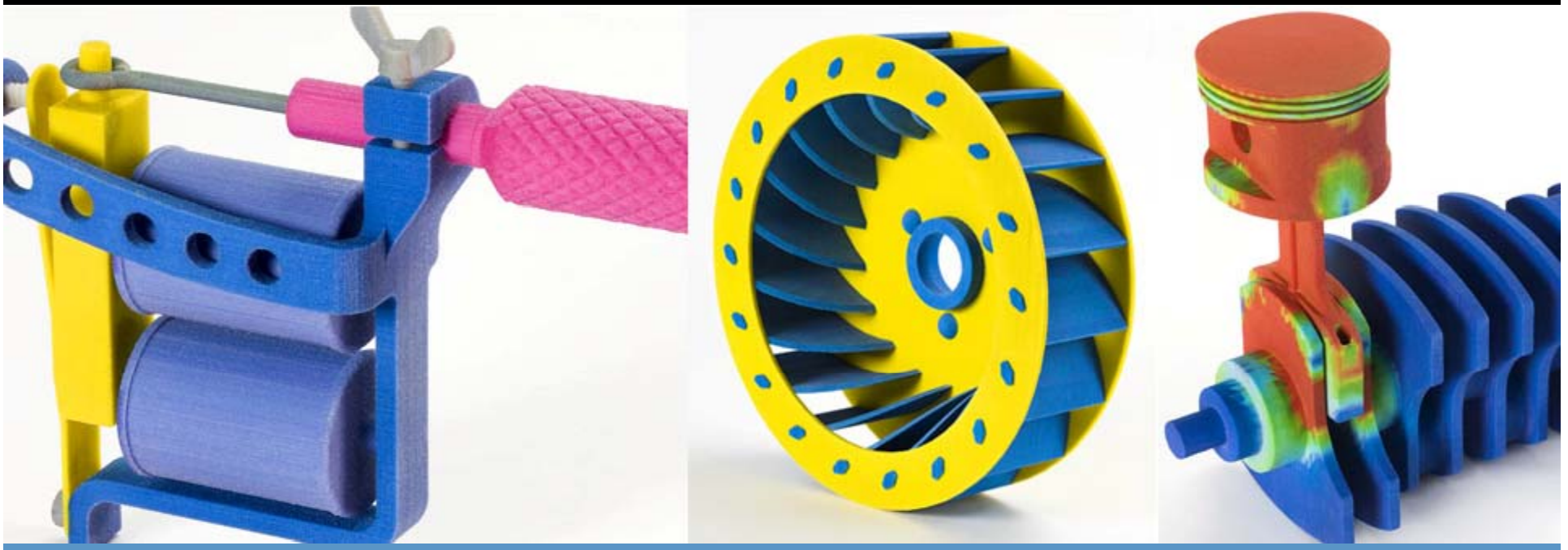


- Industry's fastest build speed (5x-10x faster)
- Build 3D models in hours, not days

# Brilliant Color



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- One-of-a-kind color capability
  - Dramatically communicates the look, feel and style of engineering product designs, architecture, landscapes, and medical models

# Exceptional Detail



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- High-quality part detail and surface finish
- Precise, 300 x 450 dpi resolution

# Features



# Setup & Maintenance



## Quick-Load Binder Cartridge

- New, no-touch binder cartridges
- Load 1 liter of binder in seconds



# Setup & Maintenance



## Quick-Load Print Head

- Change print heads 66% faster
- Revolutionary, single tri-color print head design



# Setup & Maintenance



## Quick-Load Powder Canister

- Fast, automatic powder loading
- Clean, no-touch powder canister

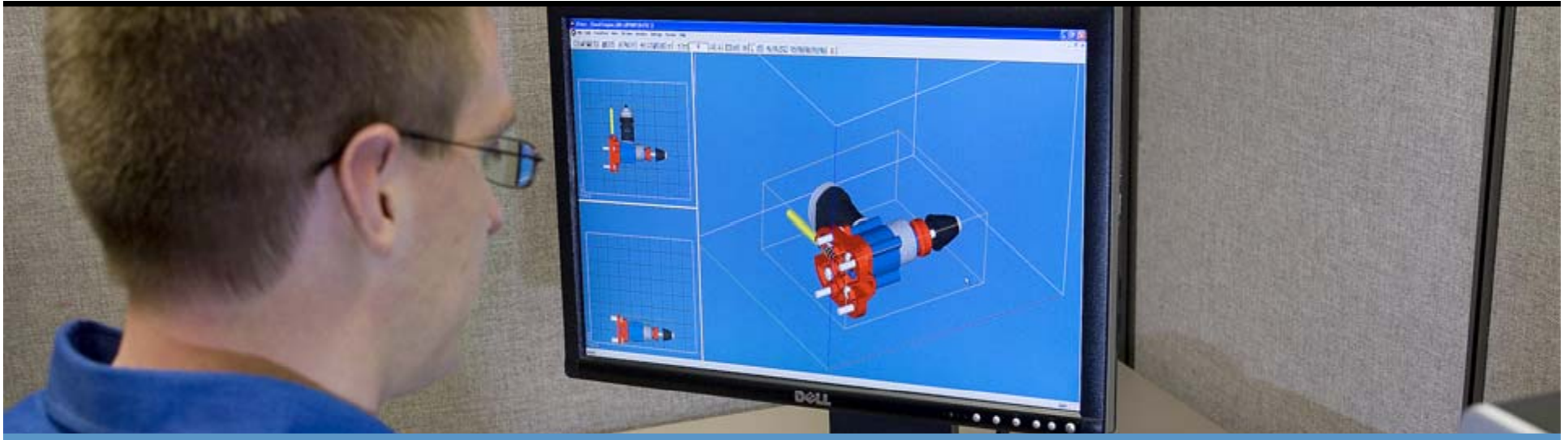




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# Greater Control

From the Desktop & the Printer



- Next-generation ZPrint® desktop software
  - Easier than ever to send jobs to the printer, and exchange essential information with the machine
  - Remotely read the machine LCD display
  - See real-time readings of powder, binder, and ink levels, automatically monitored by the system

# Greater Control



From the Desktop & the Printer



- Expanded printer display & interface
  - Enjoy the option to perform numerous functions from the printer, previously possible only in software
  - Expanded machine display communicates far more data

# Post Processing



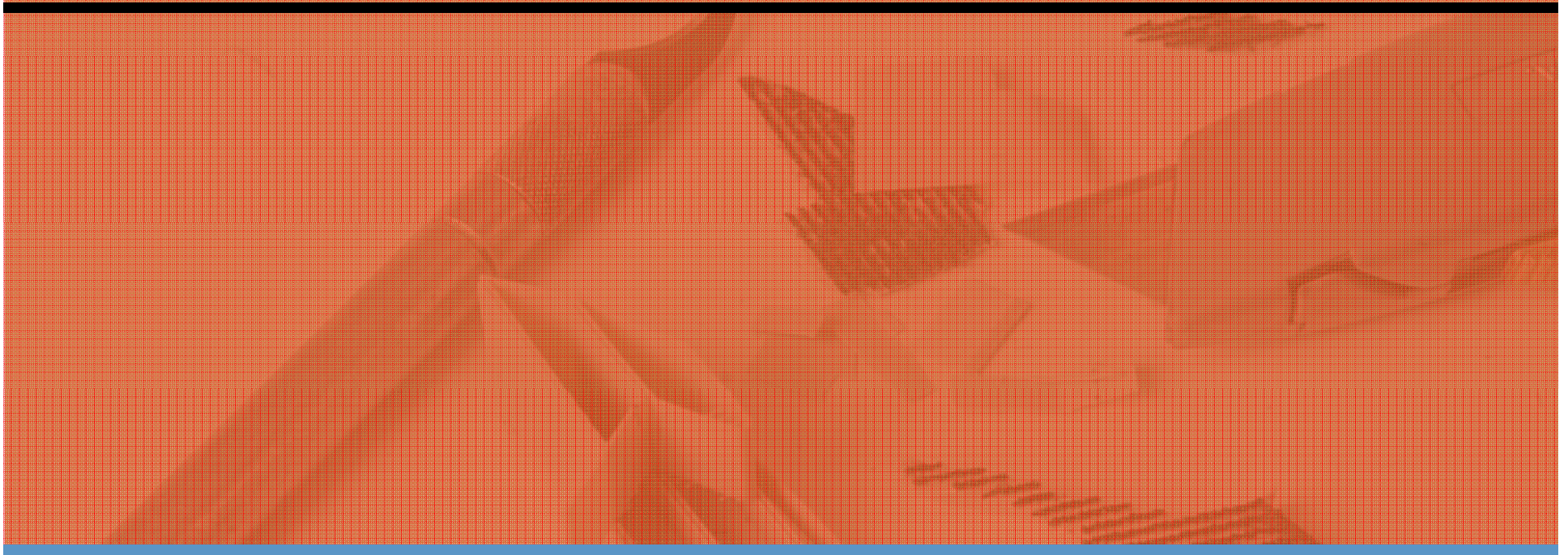
- After printing, the ZPrinter® 450 removes up to 80% of powder automatically

# Post Processing



- Remaining powder is removed with air in enclosed chamber
- Automatically recycled for future use

# Post Processing



- No physical supports to remove with tools or chemicals, like other 3D printers

# Post Processing



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- Easily add strength with infiltrants via dip, drip, or brush

# Sets New Standard for Office Compatibility



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- Active & passive dust containment
  - Continuously operating, quiet vacuum maintains negative pressure to capture airborne dust
  - Closed-loop powder loading, removal and recycling contains powders within the envelope of the machine
- Office-safe, eco-friendly build materials
- No hazardous liquid waste



# ZPrinter® 450 Specifications



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Build size	203 x 254 x 203 mm (8" x 10" x 8")
Color	Yes, single tri-color head
Print resolution	300 x 450 dpi
Layer thickness	.089 - .102 mm (.0035" - .004")
Build speed	2-4 layers/minute
Compatible materials	zp130



# Z Corporation Product Line



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## ZPrinter 310 Plus

## ZPrinter 450

## ZPrinter 650

Application	Value	Quality Color	High-definition Color
Output	Monochrome	Standard CMY Color	Custom CMYK Color
Print Resolution	300 x 450 dpi	300 x 450 dpi	600 x 540 dpi
Build Chamber Size	8" x 10" x 8" 203 x 254 x 203 mm	8" x 10" x 8" 203 x 254 x 203 mm	10" x 15" x 8" 254 x 381 x 203 mm
Material Options	Multiple	High Performance Composite	High Performance Composite
Layer Thickness	.0035" - .008" .089 - .203 mm	.0035" - .004" .089 - .102 mm	.0035" - .004" .089 - .102 mm

# Bringing it All Together



- Now bring 3D concepts to full-color life easier and more affordably than ever, with in-house 3D models
- It's fast. Automated. And office-friendly
- It's the ZPrinter 450 from Z Corporation, the leader in 3D printers and scanners, and maker of the industry's only color 3D printers

# For More Information



Contact your nearest Z Corporation Authorized Dealer



**Z CORPORATION™**  
**AUTHORIZED RESELLER**

# Introducing the ZPrinter® 450

World's Most Automated and  
Affordable Color 3D Printer



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