

Printing

D&K Engineering has extensive experience in the printer industry and for the past decade has worked with leading OEM's in the printing market developing a wide range of mechanical, electronic, firmware and manufacturing solutions for numerous printing and print related products and equipment. The types of printers (or print related machines) we have worked on include:

- ▶ Large Format Printers
- ▶ Home & Office Printers
- ▶ Label Printers
- ▶ Industrial Inkjet Printers
- ▶ Inkjet Cartridge Refilling Machines
- ▶ Commercial Digital Photofinishing Machines
- ▶ Retail Photo Kiosks
- ▶ Web Printers
- ▶ 3D Printers



Specific printer development projects undertaken:

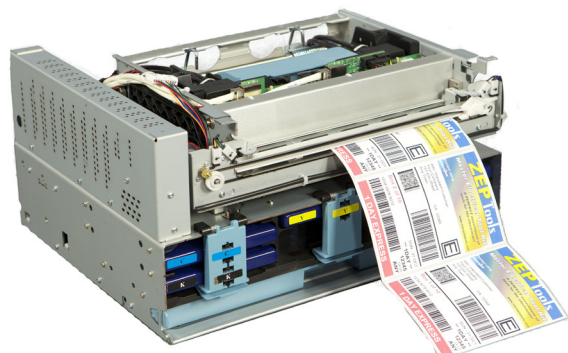
Paper Handling Systems

- ▶ Paper Path Design (roll to cut, roll to roll, cut sheet, envelopes, card stock, duplexing, inverting...etc.)
- ▶ Paper Pick System Design
- ▶ Stacker Systems
- ▶ Cutter Systems
- ▶ Lamination Systems
- ▶ Input and Output Trays



Printhead Development

- ▶ Inkjet Printhead Architecture & Design
- ▶ Inkjet Printhead Manufacturing Process Development
- ▶ Inkjet Printhead Manufacturing Tooling Development
- ▶ Inkjet Printhead Electrical Testing Systems
- ▶ Printhead and Printer Failure Analysis
- ▶ Printhead Service Station Development



Ink Systems

- ▶ Ink Delivery Systems
- ▶ Ink Filling Equipment
- ▶ Ink Degassing Equipment
- ▶ Ink Tank Consumables

System Design

- ▶ Printer Frame and Structure Design
- ▶ Printer Electrical Architecture
- ▶ Scanner Hardware Development



Software & Firmware

- ▶ Print Engine Image Pipeline Firmware
- ▶ Paper Motion and Paper Handling Firmware
- ▶ Host Software Developer Kits
- ▶ System Level Integration to Printer SOC
- ▶ Raster Image Processor (RIP) Development
- ▶ Writing Systems and Color Science (with high-resolution testing infrastructure)
- ▶ Print Driver Development
- ▶ Scanner Firmware



Testing & Certification

- ▶ Printer System Testing at Environmental Corners
- ▶ Printer EMI/EMC Certification
- ▶ Printer Regulatory and Compliance Testing

Printer Manufacturing

- ▶ Printer Manufacturing
- ▶ Printhead Manufacturing

