

Curriculum Vitae of Clinton P. Cowen

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Areas of Plastics Expertise

PLASTICS PROCESSES

- Injection Molding
- Liquid Injection Molding (LIM)
- Metal Injection Molding (MIM)
- Reaction Injection Molding (RIM)
- Micro Injection Molding
- Thermoforming
- Structural Foam
- Gas Assist
- Two Color / Multi-component
- Insert & Over-molding
- In-mold Decoration
- Extrusion

MATERIALS

- Thermoplastics
- Thermosets
- Elastomers (Rubber)
- Silicone
- Metal Alloys & Powder Blends

PART & TOOLING DESIGN

- CAD Design & Analysis
- Rapid Prototyping
- Mold Flow Analysis
- Stress & Safety Analysis
- Design Qualification & Analysis
- Mold Qualification & Analysis

TESTING & ANALYSIS

- Material Analysis
- Part & Tool Design
- Process Analysis
- Service Use
- Stress & Fatigue
- Safety Factor Analysis
- Manufacturing Defects
- Failure Analysis

PLASTICS MACHINERY

- Electronics, Hydraulics, Pneumatics
- Design & Manufacture
- Process & Control
- Machine Control Programming
- Operation & Safety
- Robotics & Automation
- Troubleshooting & Repair
- Standards & Regulations

DECORATION & ASSEMBLY

- Welding & Joining
- Hot Stamping & Printing
- Laminates & Painting
- Mechanical & Chemical Assembly



Professional Plastics Experience

CPC Plastics, Inc. | West Warwick, RI and Chicago, IL | 1998 - Current

Responsibilities:

I am currently employed by CPC Plastics, Inc., located at 770 Main Street, West Warwick, RI 02893. I have held the position of President since the organizations conception in 1998. My responsibilities include, but are not limited to, managing daily operations of CPC Plastics, Inc.'s headquarters and injection molding manufacturing facility in West Warwick, RI its regional office located in Chicago, IL and affiliate consultants located abroad.

My daily responsibilities as President of CPC Plastics, Inc. include work with plastic manufactures, product designers, analytical laboratories, compounders, and similar companies to provide technical plastic engineering, failure analysis, product design, material selection, mold qualification, and similar services related to the manufacture of plastic components and/or assemblies.

A significant portion of these services involves the reverse engineering, testing and analysis, product design, manufacture, and troubleshooting of plastic components and assemblies. I have over eighteen (18) years of hands-on experience with plastics manufacturing, component assembly and design, reverse engineering, failure analysis, troubleshooting, and material selection.

Battenfeld Gloucester Engineering Co. | Chicago, IL | 1994-1998

Responsibilities:

Provided installation and technical troubleshooting of Battenfeld® injection molding machinery, robotics, automation, and auxiliary equipment for the automotive, medical, industrial, and consumer plastic injection molders throughout the United States, Canada and Mexico. My responsibilities included plastics processing, tool (mold) analysis, part analysis, and troubleshooting the same.

This position included the responsibility of training company and customer personnel on the safety, operations, processing, troubleshooting and repair of injection molding machinery.

Kawaguchi Engineering Co., LTD. | Chicago, IL | 1993-1994

Responsibilities:

Provided installation and technical troubleshooting of Kawaguchi® injection molding machinery, robotics, automation, and auxiliary equipment for the automotive, medical, industrial, and consumer plastic injection molders throughout the United States, Canada and Mexico. My responsibilities included plastics processing, tool (mold) analysis, part analysis, and troubleshooting the same.

This position included the responsibility of training of customer personnel on the safety, operations, processing, troubleshooting and repair of injection molding machinery.

Encore Technology Corporation | Poteau, OK | 1993

Responsibilities:

Provided technical process, troubleshooting and repair of twenty-five (25) to three thousand (3000) ton injection molding machines for an Oklahoma custom injection molder. This position required the troubleshooting of processing or troubleshooting of plastic injection molding machinery, material handling systems and peripheral equipment. In addition, I was responsible for ensuring part quality, reliability, and safety, through process, quality, and testing programs.

Tex-Tek Plastics, Inc. | San Antonio, TX | 1992-1993

East Coast

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Mid-West Regional Office

203 N. LaSalle Street, Suite 2100
Chicago, IL 60601
Tel: 312.917.1607
Fax: 312.346.9603



Responsibilities:

Provided technical processing, quality control, troubleshooting and repair of over seventy-five (75), fifteen (15) to two-thousand (2000) ton injection molding machines for a proprietary and custom injection molder. This position required the troubleshooting of processing or troubleshooting of plastic injection molding machinery, plastics tooling, material handling systems and peripheral equipment. In addition, I was responsible for ensuring part quality, reliability, and safety, through process, quality, and testing programs.

Continental White Cap | Champaign, IL | 1991-1992

Responsibilities:

Provided technical processing, quality control, troubleshooting and repair of twelve hundred (1200) ton Husky® injection molding machines for a proprietary injection molder of closures. This position required the troubleshooting of processing or troubleshooting of plastic injection molding machinery, plastics tooling, material handling systems and peripheral equipment. In addition, I was responsible for ensuring part quality, reliability, and safety, through process, quality, and testing programs.

Phillips Container Corporation | Valdosta, GA | 1990-1991

Responsibilities:

Provided technical processing, quality control, troubleshooting and repair of four (400) to twelve-hundred (1200) ton injection-molding machines for a proprietary injection molder of containers. This position required the troubleshooting of processing or troubleshooting of plastic injection molding machinery, plastics tooling, material handling systems and peripheral equipment. In addition, I was responsible for ensuring part quality, reliability, and safety, through process, quality, and testing programs.

Plastic Expert Witness Experience

- Provided consulting and expert opinion in a federal product liability case involving Chrysler automotive manufacture and alleged that latent manufacturing defects that led to a mandatory recall of over \$35,000,000.00 USD in automobiles. We represented the injection molder (Defendant) who supplied the automotive manufacturer, and vendors, (Plaintiff(s)) with the suspect parts. **Thomas F Cullen Jr., Jones Day, Reavis & Pogue, 51 Louisiana Avenue, N.W., Washington, D.C. 20001-2113.**
- Provided Technical Consulting and Expert Testimony services to the United States Department of Justice with plastics consulting and expert testimony for a case for the involving the illegal importation of polyethylene pipe from Mexico along with illegal narcotics. **Kevin Rosenberg. United States Department of Justice, U.S. Attorneys Office, 300 North Los Angeles Street, Los Angeles CA 90012.**
- Provided consulting and expert opinion to a Global injection molding machinery manufacture involved in a dispute with a client regarding equipment readiness, patent review and tooling and process analysis. **Jonathan T. Blank, Attorney at Law, One James Center, 901 East Carey Street, Richmond, VA 23219-4030. Ref: Arburg Injection Molding Co. Inc**
- Provided consulting and expert testimony services for a personal injury lawsuit, which it was claimed that the injured party (Plaintiff) had been seriously injured while working on a vertical rotary injection-molding machine, manufactured by the Toyo (Defendant) alleged to have defective and/or inadequate guarding and safety warning labels. **Mr. Brian Amick, MMMPA Law Offices, 4717 Grand Ave. Suite 820, Kansas City, MO 64112-2258.**
- Provided consulting and expert opinion to an ISO Butane gas supplier (Defendant) involved in a contractual dispute with a Styrofoam dinnerware manufacturer (Plaintiff) who recalled ten million (10,000,000) lbs. of Styrofoam cups, plates, and bowls allegedly due to high levels of contamination in the butane gas used in the manufacturing process. **Wes Wellmaker. Bell, Ryniker and Letourneau, Five Post Oak Park, Suite 1300, Houston, TX 77027**

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- o Provided consulting, expert opinion, and mediation services for a dispute between a plastic injection molder and their client, a large hydraulic pump manufacturer. We commissioned an independent program and provided both clients with supporting analytical data and expert opinion as to the failure and responsible party. **Dave Klafehn. Empire Precision Plastics, 460 Oak Street, Rochester NY 14608. Nathan Davis. Hargraves Technology Corporation, 127 Speedway Drive, Mooresville, NC 28117-6879.**
- o Provided Technical Consulting and Expert Testimony in a product failure case, which the Plaintiff alleged that the failure of a plastic vial used as part of a cosmetic product assembly failed due to plastic product design and/or plastic resin used by the Defendant, which injection molded and supplied the alleged defective plastic vials to the Plaintiff. **Lori V. Vieira, Esq., Jackson & Wallace, LLP, 14724 Ventura Blvd., Suite 1210, Sherman Oaks, CA 91403.**
- o Provided consulting and expert opinion in an product liability case where the alleged injury of a seven year old girl (plaintiff), and plastics manufacture (defendant) of household products. **Steve Gorny. Bartimus, Frinckleton, Robertson, & Obetz, P.C. (Client), 1201 Walnut Street, Suite 2250, Kansas City, Missouri 64106.**
- o Provided consulting and expert opinion in a product liability case where the plaintiff had allegedly been injured while cutting wood, and a plastic manufacturer, distributor, and reseller (defendant(s)). **Thomas Lyons. Strauss, Factor, Laing & Lyons (Client), 403 South Main Street, Providence, Rhode Island 02903**
- o Provided consulting and expert opinion in a product liability case involving PVC pipe and PVC fitting failure(s) manufactured by (defendant(s)). **Schaffer, Lax, McNaughton, & Chen (Client) 515 South Figueroa Street, Los Angeles, California 90071.**
- o Provided consulting and expert opinion in an ongoing product liability case involving the failure of an injection molded HDPE refuse container, which allegedly failed and resulted in bodily injury. **Christopher Lanza. Lanza & Bugay, Citicenter, Suite P-600, 290 Northwest 165th Street, Miami, FL 33196.**
- o Provided consulting and expert opinion in a product liability case where the Plaintiff, or homeowner, alleges that manufacturing defects in the Defendant's plastic injection molded CPVC and PVC in-home water filtration assembly caused a catastrophic failure resulting in monetary damages to the Plaintiff's residential property. **Mike Droogan. Droogan, McClean and Associates, P.C. (Client) 1515 Market Street, Suite 1750, Philadelphia, PA 19102.**
- o Provided consulting and expert opinion in an intellectual property case, involving a dispute between two manufacturers of inline decorative plastic cups containing lenticular lens inserts, and the injection molded process used in the manufacture of the same. **Rebecca A. Bortolotti. Merchant & Gould, P.C., 3200 IDS Center, Minneapolis, MN 55402.**
- o Provided consulting and expert opinion in a product liability case, which involved an ultrasonic welding process developed by the manufacture (Defendant) of the ultrasonic welder, and that was used in the assembly of an injection molded tire pressure gauge product (Plaintiff), which required a hermetic seal for proper operation. **Bart Chromwell. Quinlivan Wexler LLP, 6 Hutton Centre, Suite 1150, South Coast Metro, CA 92707.**
- o Provided consulting and expert opinion in a product liability case, which involved a plastic thermoforming machine manufacturer (Defendant) that allegedly supplied a defective thermoforming machine to a plastic container manufacturer (Plaintiff), which claimed that the plastic thermoforming machine was incapable of manufacturing the plastic products for which the machine was intended. **J. Marshall Gardner. Vickers, Riis, Murray and Curran, L.L.C., 106 Saint Francis Street, P.O. Box 2568, Mobile, Alabama 36652.**
- o Provided consulting and expert opinion in a class action product liability matter involving forty (40) individual and unrelated plastic injection molded filter(s) and filter assemblies manufactured for various in-home applications. The homeowner's insurance company (Plaintiff) alleged that the filters manufactured by the filter manufacturer (Defendant), were defective, and resulted in property damage(s). **Mike Droogan. Droogan, McClean, and Associates, P.C. (Client) 1515 Market Street, Suite 1750, Philadelphia, PA 19102.**





- Provided consulting and expert testimony services for an ongoing criminal matter involving the alleged illegal distribution of narcotics. The state of Massachusetts alleged that the fingerprints of the defendant in this matter were identified on the surface of a cross section taken from an extruded plastic "trash bag", which the prosecution claims contained a large amount of illegal narcotics. The defendant's attorney Mr. Francis O'Boy has requested our firm to determine if the cross section sample identified by the Prosecution in this matter, did in fact originate from the "Trash Bag", subject of this matter. **Law Offices of Francis M. O'Boy (Client), 41 Harrison Street, Taunton MA 02780.**
- Provided consulting and expert testimony services for a workers compensation lawsuit, which involved the alleged product failure of a plastic refuse container, which the defendant claims failed as they were loading the trash via a hydraulic lift outfitted into their work vehicle, resulting in injury. The defendant's attorney in this matter has requested our firm to determine the mode of failure of the subject refuse container. **Lanza & Bugay Attorneys at Law (Client), 290 NW 165th Street, Miami, FL 33169.**
- Provided consulting and expert testimony services pertaining to a complaint, which involved the alleged product failure of a Liquid Plastic Injection Molding Machine manufactured by the plaintiff, which the defendant claimed was incapable of maintaining a consistent manufacturing process. The Plaintiff's attorney in this matter requested our firm to determine the capability of the Liquid Injection Molding Machine's (LIM) capacity to maintain a consistent manufacturing process as the design intended. **Morris and Morris, P.C. (Client), Post Office Box 30, Richmond, Virginia 23218.**
- Provided technical consulting and expert testimony services related to a product liability lawsuit involving personal injury, whereby it is alleged by the Plaintiff that the failure of a plastic injection molded Razor assembly resulted in serious injury. We were requested by the Plaintiff to provide our expert opinion subsequent to a Failure Analysis Investigation, Material Testing Services, and Product Design review. **Alan D. Hoch, Esq., 106 Peabody Street, Groton, MA 01450.**
- Provided technical consulting and expert testimony experience for a medical device manufacture whom alleged that the manufacture of their diabetic testing device manufacture for the U.S. Veterans Administration, failed to deliver a product capable of fulfilling the contractual needs pertaining to the manufacturing automation, quantity, and quality in a time specified therein. **Law Office of Ashley M. Winn, 11 Seascape Village, Aptos, CA 95003.**
- Provided technical consulting and offered a expert report related to a product liability lawsuit involving a plastic injection molding company and a plastic flowerpot manufacture, whereby the Plaintiff alleged that the manufacture improperly followed industry standards relating to the product design, tooling design, injection molding, and custodial responsibility of the plastics manufacturer. **Mauro, Savo, Camerino & Grant, P.A., 77 North Bridge Street, Somerville, New Jersey 08876.**
- Provided technical and expert testimony related to an ongoing product liability lawsuit involving plastic blow molded shoes, whereby the plaintiff (client) alleges that the subject shoes were defective and the direct cause of their injury. The plaintiff further alleges that the defective product did not exhibit proper consumer warning labels consistent with industry standards and/or applicable state or federal guidelines that govern the same. **Miller, Montiel & Strano, P.C. 99 Powerhouse Road, Suite 104, Roslyn Heights, NY 11577.**
- Provided technical plastic consulting and expert testimony services for a plastic plumbing (pipe and fittings) manufacturing company's (defendant) related to an ongoing product liability lawsuit, whereby the plaintiff alleges that the failure of the aforementioned products used in a fire suppression system(s) in their high rise condominiums resulted in millions of dollars in damage(s) to several of the client's properties. **Anderson, Mayfield, Hagan & Thron, P.A., 560 Village Blvd., Suite 325, West Palm Beach, FL 33409.**

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Education & Training

- Aviation Electronics | US Navy, Memphis TN | 1988-1990
- Advanced IMM Programming | Cincinnati Milacron | 1991
- Advanced IMM Advanced Programming | Cincinnati Milacron | 1991
- Advanced Hydraulics | Husky | 1992
- Advanced IMM Maintenance | Husky | 1992
- Chemical Technology Program | CCRI | 1999
- BSBA, University of Phoenix, Current

Professional Affiliations

- Treasurer of the Board, H.O.P.E. Helping Others to Promote Equality, N.P.O.
- Society of Plastics Engineers (SPE) – Silver member, New England Chapter
- Member of the United States Congressional Business Commission
- NRCC Congressional Metal of Distinction - Outstanding Leadership and Vision
- National Register's "Who's Who" in Executives and Professionals, Subset Plastics

Published Articles

- Plastic Injection Molding Workplace Safety
- All About Plastics Processes
- Metal Injection Molding vs. Machining and Casting
- Plastics Identification Program v. 1.1

Seminars & Training Experience

Battenfeld of America, Inc.:

- Technical and operational training on new plastic injection molding technology and related peripherals for North American Battenfeld Sales force.

Ocular Sciences, Inc.:

- Disaster management and reliability study. Our team conducted an analysis of molding operations and injection molding machinery, personnel and preventative maintenance program.

Herff-Jones, Inc.:

- Employee training molding safety, operations, processing and preventative maintenance training

Exatec, LLC:

- Photoelastic Analysis Seminar - How to qualitatively and quantitatively measure molded stresses in clear polycarbonates using the photoelastic analysis technique.

Plastic Injection Molding Manufacturers:

- In addition to providing corporate training services to the above-mentioned companies, I have provided hands on technical, processing, operation and troubleshooting training to hundreds of proprietary and captive molders throughout the United States, Canada and Mexico.

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