

# ICAFe Companies

ICAFe Inc.

SenecaFTI

Dove Equipment



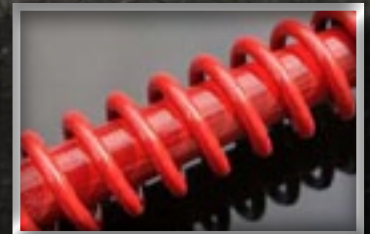
Blast



Wash



Coat

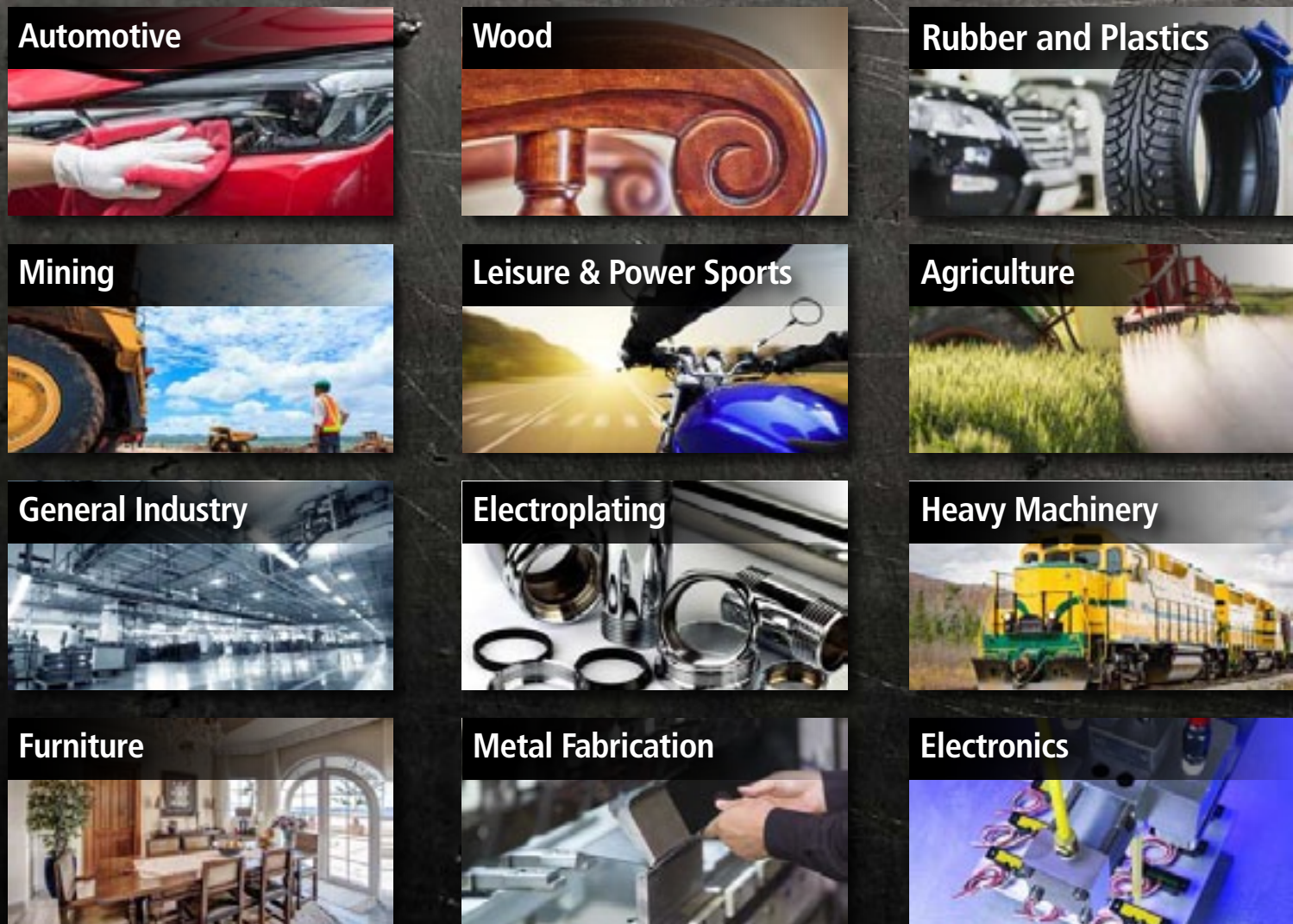


Cure

# Capabilities



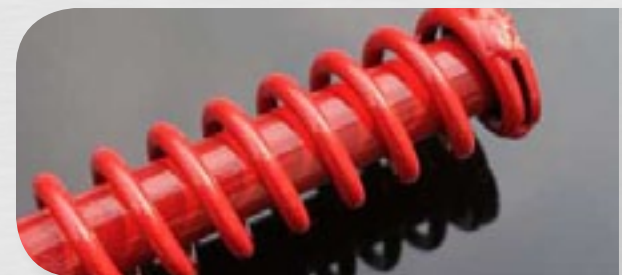
# Industries Served



# Coatings & Consumables



## Liquid and Powder Coatings



The selection of coating has a major influence on the design of a paint system. ICAFe Companies work with manufacturers to provide coatings appropriate for each individual project. We have relationships with both national and regional liquid and powder coatings providers that allow us to select an appropriate coating for your application.

## Maintenance Coatings



ICAFe Companies supply maintenance coatings that can drastically reduce preparation and cleanup time. Temporary strippable coatings mask surfaces from damage and prevent buildup of overspray on walls, ceilings, and floors. Our suppliers manufacture a variety of coatings including formulations that can perform well in high temperatures.

## Parts and Consumables



**Parts & Kits**

Pump repair kits, gun repair kits, nozzles & tips, regulators, gun accessories



**Air Filtration & Management**

Airline filters, gauges, regulators, lubricators



**Hoses & Fittings**

Ball valves, gauges, hoses, hose reels, quick disconnects, fittings



**Wipes & Surface Prep.**

Tack cloths, sorbents, microfiber towels, anti-static wipes, paint prep wipes, inspection lighting



**Personal Protection Equipment**

Coveralls, respirators, painter hats, gloves, CO detectors



**Miscellaneous**

Paint strainers & filters, environmentally safe solvents, foam abrasives



## Blasting and Deburring

Blasting and abrasive deburring are often necessary to provide an appropriate surface profile for a finishing process. In addition, they can also be used as effective cleaning techniques. ICAFe Companies offer offline batch blasting and deburring equipment as well as the ability to integrate it into your process.



### Components of an Effective Blast System

- Recovery System
- Media Cleaning
- Blast Enclosure
- Work-Piece Handling
- Dust Collection
- Blasting System
- Operator Safety
- Compressed Air Supply



## Chemical Treatment

The cleaning, degreasing, and preparation of parts involves an abundance of chemicals that can greatly impact the economics of a process if it is not run efficiently. ICAFe Companies offer solutions to filter, treat, and recycle wash water and various chemistries in order minimize material consumption, environmental impact, and disposal costs.



Wash water recovery systems offer chemical reclamation, solids separation, and oil coalescing all in a closed-loop process. The closed-loop system is ideal for phosphate cleaning and degreasing applications.



## Parts Washing

ICAFe Companies work with some of the best names in the industry in industrial parts washing. From cabinet washers and ultrasonic immersion diptanks to completely automated conveyorized multi-stage wash units, we are able to offer a cleaning solution that will work with your process.

Cabinet Washers



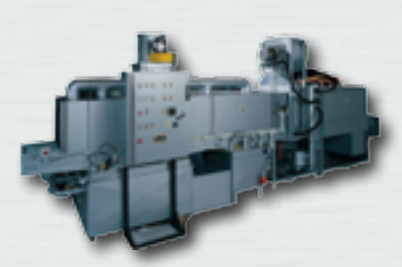
Immersion Washers



Automation Systems



Pass-thru Washers



### Environmentally Friendly Solvents

ICAFe Companies supply aqueous and non-aqueous environmentally friendly solvents. Many of these products perform as well or better than their traditional, hazardous counterparts. Switching to safer solvents keeps your employees safer, the environment cleaner, and your waste removal fees lower.



### Cleaning with CO<sub>2</sub>

Dry ice blasting and other CO<sub>2</sub> technologies are waterless cleaning solutions that can replace aqueous and solvent-based cleaning operations. CO<sub>2</sub> can also be used for deburring, surface profiling, and dust removal. CO<sub>2</sub> technologies are starting to be used in a wide variety of industries including wood, plastics and rubber, automotive, and general industry.

### Manual Batch Pressure Wash



### Automatic Batch Wash



### In-line Continuous Pretreatment Wash





## Sealants and Adhesives

Virtually every product assembled requires bonding or sealing at some stage of the process. Graco offers manual and automatic technologies for single-component and two-component bonding and sealing for a broad array of products, markets, and end-uses.



The Graco PR70 fixed and variable ratio systems accurately meter, mix and dispense medium-to-low viscosity materials for potting, gasketing, sealing, encapsulation and syringe filling. All the features you need, in a compact, modular design.



Designed for flexibility, the Graco HFR Metering System handles two-component materials including epoxies, silicones, resins, and more. With its accuracy and repeatability, the Graco HFR lets you hit a specific ratio and volume – the first time and every time. You reduce scrap and rework with accurate, on-ratio dispensing.



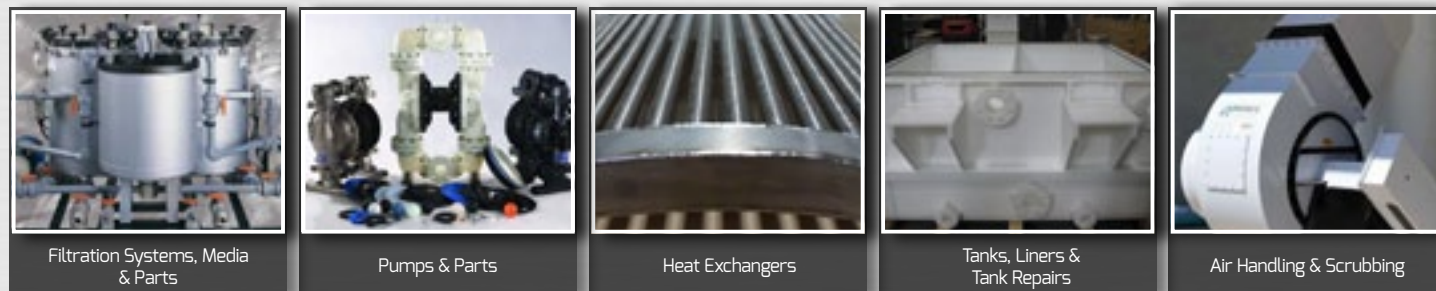
## Hot Melt

SenecaFTI works closely with ITW Dynatec to provide adhesive application solutions to a variety of industries. ITW Dynatec is a global supplier of hot melt machines that expands the boundaries of conventional application methods.



## Plating

ICAFe, Inc. is a leading provider of aqueous systems and integration services to plating customers across the Midwest. Our capabilities allow for the design, engineering, and integration of robust industrial electroplating systems.



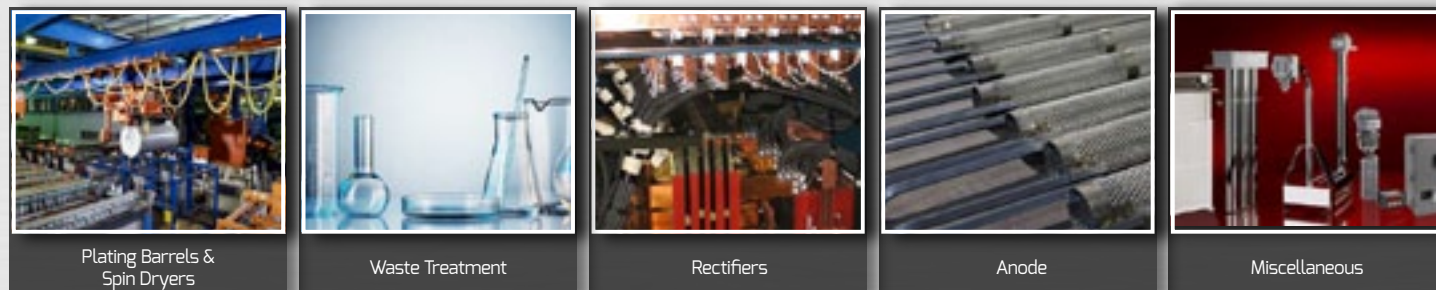
Filtration Systems, Media & Parts

Pumps & Parts

Heat Exchangers

Tanks, Liners & Tank Repairs

Air Handling & Scrubbing



Plating Barrels & Spin Dryers

Waste Treatment

Rectifiers

Anode

Miscellaneous



## Fluid Handling

ICAFe Companies supply, integrate, and service fluid handling equipment for a wide array of applications. We represent the best brands in pumps designed for industrial and automotive coatings applications. Advances in pump technology continue to occur at a quick pace, and small gains in efficiency can mean major savings in material and energy costs.

### Supply Pumps



Supply pumps for industrial and automotive coating as well as hot and warm melt adhesives. Low, medium, and high pressure pumps for conventional, air-assisted airless, and airless coating operations.

### Circulating Pumps



Circulating pumps are designed to be low maintenance and minimize material shear over time.

### Electric



Both Graco and Binks have developed electric pumps that can drastically reduce energy consumption. A single circulation pump can save over \$1000 per year in energy costs alone.

### Plural Component



Electronic 2K and 3K proportioners offer predictable, accurate mixing along with significant material savings and analytics to improve processes. Material savings alone can often justify the purchase of a 2K unit versus hotpotting. We are a distributor and integrator of Graco, Binks, Ransburg, and Kremlin plural component equipment.



## Liquid Coating

As customers demand better performance, consistency, and quality, they also demand better efficiency, flexibility, and economy out of their liquid application equipment.



## Booths, Ovens & Heat Processing

ICAFé Companies partner with Global Finishing Solutions and other suppliers to design customized blast booths, wash booths, paint booths, and ovens.

### Blast Booths



A proper blast booth can be designed and engineered for your application—whatever your budget—from a fully-equipped blast room with recovery and dust collection—to a simple sweep-in recovery system.

### Wash Booths



Wash booths can be designed for manual or automatic operation. They can also be designed to accommodate a variety of conveyor types. These booths are often partnered with wastewater recycle systems to achieve zero liquid discharge.



## Powder Coating

Powder coating is a clean process that provides an attractive, durable, and high-quality finish. The coating is applied as a free-flowing dry powder and is cured by heat in order to create a hard finish.



ICAFé Companies carry a full line of manual Wagner powder application equipment. Manual applicators can be integrated into both batch and continuous processes.



An automated powder coating system can substantially reduce material costs versus a similar liquid coating line. Automatic systems can deliver a quality finish while using very low quantities of powder in addition to being able to perform very quick color changes.

### Paint & Powder Booths



Paint and powder booths provide a clean space for coating applications. It is necessary for a booth to provide adequate air flow, dust collection, and lighting to achieve a high quality paint job.

### Ovens



Continuous and batch process ovens with uniform air flow and temperature gradients ensure the coating cures evenly. Infrared emitters can be used to decrease cure times.



## Robotics

Robotic automation allows finishing processes to be operated by fewer individuals with a higher degree of consistency and repeatability. Robots can be integrated into specific stages of a finishing process or used to completely automate the entire operation. Dove Equipment's engineering group has integrated robots into a diverse collection of applications including automotive, general industry, and food processing.



At our East Peoria, IL location, Dove Equipment has a spray booth with robot mount platforms that can be setup for testing applications.



## Motion & Control Technologies

Motion and control technologies can be found on and around everything that moves. Seneca Fluid Technologies works with Parker Hannifin to provide precision-engineered solutions for a wide variety of industrial markets.



Parker Hannifin manufactures pneumatic, hydraulic, and electric linear actuators and cylinders that deliver efficient performance and low maintenance throughout the life of the cylinder. They are the largest manufacturer of hydraulic cylinders to the industrial marketplace and offer the most complete selection of NFPA hydraulic and pneumatic cylinders in the world.



Rotary actuators are ubiquitous in industrial plants and perform a huge range of applications. In fluid control, they are responsible for opening and closing valves—controlling flow and vessel levels. They perform many automation tasks such as opening and closing doors, clamping, providing tension, material handling, and conveyor switching.



Parker Hannifin has an extensive line of devices capable of delivering precise and reliable control over a processes' unit operations. Regulators, flow meters, sensors, monitors, suppressors, siphons, and isolators provide explicit management and diagnostics on every part of a system.

## Engineered Systems

ICAFe Companies design systems to take parts from surface preparation to cure. We have in-house systems groups at five locations and engineers with a variety of disciplinary backgrounds that specialize in various parts of the finishing process.

We specialize in fluid handling and are well-versed in the requirements and application of industrial and automotive coatings. Our engineering team designs detailed AutoCAD drawing layouts as well as the complex 3-dimensional piping diagrams seen in large auto manufacturing facilities.

From manual batch conveyorized lines to fully automated and robotic liquid and powder coating systems, we work with our clients to develop processes to meet and exceed their expectations.



## Fluid Piping & Design

Dove's engineering group has been designing robust fluid handling systems for automotive and general industry for many years. Piping layout and design is an important component to any finishing process, and ICAFe Companies provide our customers with effective solutions in paint circulation and material transfer.

## Engineering Process

- Concept review
- On-site survey
- Design & approval drawings
- Fabrication and equipment integration
- Assembly
- Installation
- In-plant startup
- Programming and process troubleshooting
- Manufacturers' warranty fulfillment
- Employee training

## Controls

ICAFe Companies have the ability to program custom controls and integrate them into many different types of systems.

## Engineering Locations

- East Peoria, IL
- Waukesha, WI
- Monterrey, MX
- Puebla, MX
- Querétero, MX



# ICAFe Companies



ICAFe specializes in system integration and providing custom turnkey solutions to clients' unique finishing processes. ICAFe's particular expertise lies in process equipment related to the washing and pretreatment of parts. We understand the importance of proper surface treatment and the challenges involved in achieving maximum adhesion and durability from a coating process.

SenecaFTI specializes in providing quality finishing systems and components, and it is one of the largest Kremlin distributors in the Midwest. In the Southeastern United States, the operation in Mississippi is known for its competence and ingenuity in regards to Parker Hannifin motion and control technologies and ITW Dynatec hot melt machines.

Dove Equipment specializes in the design and engineering of fluid handling systems for automotive and general industry. An increasing amount of our focus is dedicated to automation and integration of robots into finishing processes. We have the ability to build our own electrical panels and interface our controls with a variety of other systems manufacturer's equipment.

## ICAFe, Inc. Headquarters

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