Carlisle 2025 Vision

In Vision 2025, we seek to drive above-market organic growth, build scale in our core businesses by pursuing synergistic acquisitions, further leverage our COS culture to drive efficiencies through all business processes, continue to return cash to shareholders, and invest in attracting, developing, and retaining exceptional talent in order to achieve $8 billion of revenue, 20% operating income, and 15% ROIC.

“COS=Carlisle Operating System”

CFT Ransburg

Dr. Alan Devilbiss invention of sprayers in 1888 and then Robert Ransburg’s acquisition of a patent for electrostatic spray coating using static electricity in 1936 form the foundation on which we have developed “CFT: Carlisle Fluid Technology.”

Ransburg Japan K.K. was established in 1963, a joint venture between Ransburg U.S.A. & Tokico Co.,Ltd. The company name has been changed to “CFT Ransburg Japan” since May, 2017.

“CFT” boasts a variety of superior technologies used in the field of industrial coatings, including brands such as “Devilbiss spray guns”, “Ransburg electrostatic coatings”, “Binks high-efficiency bellows pumps”, “BGK drying equipment” and “MS” powder coating equipment, offering advanced coating equipment and systems to customers in all regions of the world.

Overseas Network

Overseas agency

RANSBURG

DEVILBISS

BINKS

CHINA:

Langtech Ltd.

Shanghai Ultra Spray Tech

KOREA:

Woolim Eng Co., Ltd.

Paumi Co., Ltd.

Sae Han Engineering Co., Ltd

Cho-yeong Co., Ltd.

A.R.T Korea Co.

Korea Stabilla Co., Ltd.

Shinwoo Costec

TAIWAN:

Gemcrae Co., Ltd.

Seville Mechanics Inc.

THAILAND:

Adanans Co., Ltd

GMR Finishing Equipment Co., Ltd.

INDONESIA:

PT. A & K Teknik Jaya

PT. Solusi Rekatama Makmur

MALAYSIA:

Alkh System (M) Sdn Bhd

Panwell Sdn Bhd

B.I. Parts Supply

PHILIPPINES:

S.E.A. Olympus Marketing Inc.

IEC Philippines Inc.

SINGAPORE:

A.B.K Intercorp (S) Pte Ltd.

Panwell Trading Ltd.

VIETNAM:

A.K. Company

M.R.O. Co., Ltd.

Vietnam Motor Paint JSC (VMP)

Act Tech Co., Ltd.
**Ransburg. Electrostatic coating**

Ransburg has been dedicated to providing electrostatic coating with high quality, labor saving, resource saving and low-pollution. Coating materials use reduction, shortened coating time, human health and global environmental protection have been achieved.

**What is electrostatic coating?**

A coating technique using “electrostatic force” wherein an electric field is created between a grounded object to be coated (positive electrode) and a coating device to which negative high voltage has been applied (negative electrode), and then atomized paint particles (negative) are sprayed toward and adhere to the object to be coated. It is a breakthrough coating method that dramatically reduces overspray, which flies off and scatters wastefully, reduces the amount of paint used (cost improvement), reduces coating time (business efficiency improvement), and greatly contributes to improving work environments and protecting the natural environment.

**Ransburg. Main products**

**Air Spray Electrostatic Automatic Heads**

- Complicated shape object
- Random production
- Metallic coating

- Fine finish coating
- High transfer efficiency
- Light weight objects
- High viscosity paint (coating without using thinner)
- Difficult atomization paint

**Bell System**

(Stationary mounting / For Robot-mounting)

- Reciprocator
- Work shape recognizing multi photo sensor
- AC Drive unit
- Control panel

**Disc System**

- DER-type reciprocator
- Disk

**Gear Pump**

Paint Pump Unit provides a highly stable paint supply indispensable for achieving uniform paint finish, even when coating conditions such as coating materials and/or viscosity are changed.

**RansFlow**

RansFlow accurately measures multi-component coating materials and mixes them together. 3-liquid mixing is also made possible. This 2K mixing equipment has achieved stable coating quality and made both high performance and usability possible with the high accuracy and repeatability of the electronic measuring system.

- Easy to flush and change color by setting the parameters through the LCD panel.
- Up to 10 colors for resin and 3 for catalyst are supported.
- Applicable for both handheld and automatic guns.
- Easy to install and the interface connection is available.
- The data is readable and the updates / USB connection for backup is available.

**2K Mixing Unit**

Gear Pump

**Waterborne Electrostatic Coating System**

- Electrostatic Waterborne (Indirect Charge)
- Electrostatic Waterborne (Direct Charge)

The AquaBlock III high voltage blocking device is made up of 4 blocks: the “supply block” at fluid inlet, the “exhaust block” at fluid outlet and two reservoir blocks (A and B) which are alternately connected between the supply and exhaust blocks. This system prevents from returning to the waterborne coating material supply by using conductive coating materials when high voltage is applied for electrostatic coatings. The coating material supply does not need to be insulated, so direct charging waterborne electrostatic coatings are achieved and thus continual coating material supply has been made possible.

**Air Driven Type High Performance Finishing**

**RANS FLEX Series**

- Electrostatic Hand Spray Gun
- Air hose / Paint hose / L.V. cable
- Insulating unit
- Control panel
- Air dryer
- AC Drive unit
The world’s first spraying technology was invented by Dr. Allen DeVilbiss in 1888. Since then, DeVilbiss has been a worldwide industry leader for atomizing technology, and spray gun quality for over 131 years.

What we, DeVilbiss care about.
Devilbiss commits to the development of innovative products with eco-friendliness.
1. Stainless Steel and Anodized Aluminum fluid passage that suits waterborne paints.
2. High transfer efficiency that reduces VOC with improved coating technology.
3. Further improvements of atomization and finishing quality to avoid coating defects.
4. The gun body uses magnesium which is the most recyclable and lightest metal.

DeVIlBiss. Main products

Automotive refinishing spray guns

- **LUNA2i (G/S)** Super thin-film flat, High arched wide
  Suitable for difficult paint work
- **NEPTUNE (G)** The world’s first magnesium center cup spray gun
- **DV1 (G)** The next generation spray gun Basecoat spray painting
- **GT-PRO LITE (G)** Suitable for base and clear whether solvent or waterborne material
- **JUPITER-PRO (G)** Premium side cup gun adapted high viscosity material
- **LUNA2 PLUS (G/S)** Primer surfacers, Metallics/ Pearls, Solids/Clears
- **DEMII (G)** Multi Mini Spray Gun

General purpose spray guns

- **APOLLO-L (S/P)** Light weight, Large-size
  Covering a wide variety of application and having much experiences
- **JUPITER-K (P)** Medium-size
  High transfer efficiency spray gun
- **LUNA2-K (P)** Ultra Light, Compact-size
  Wide range of purposes
- **JGX-502 (G/S/P)** Medium-size
  High transfer efficiency spray gun
- **JJ-K (G/S/P)** Compact-size
  High transfer efficiency spray gun

Quick Cleaner

It is designed to mix solvents and compressed air to pressure flush paint line and passages quickly and thoroughly! Saving up to 20% cleaning time and cleaning solvents

Fast Cleaning! Quick Cleaner head

- **HD-510** (10L)
- **HD-505-W** (5L)
- **HD-QCH** Quick Cleaner head
  (without tank. Required fluid handling equipment.)
- **HD-QCH-DX** Quick Cleaner Head pump unit

Related equipments

- **Fluid cups**
- **Multi Lid**
  DeVilbiss original plastic lid that is easily open and close. Non-leakage.
- **QC3**
  Built-in filter
  It is the air regulator integrated with air cleaner.
- **HGB-510** Fluid Regulators
- **Air Valve (with gauge)**
BINKS is a pioneer of products for handling all types of liquids, primarily paints, and has used its many years of experience to introduce a wide range of state of the art multi featured technologies to the market.

The role BINKS plays
BINKS provides high-quality, optimally-priced products to meet a variety of customer needs.

- Continual Innovation to achieve reliable and efficient products and processes.
- Market feedback via direct end user technical support and hands-on approach.

BINKS Main products

**Smart Pumps**
The unit combines conventional electrical hardware to achieve optimum operating performance at a lower cost. Running costs are much lower than compressed air driven model. The SMART pump range uses a standard electric motor to drive the fluid section for pumping paints, solvent and other suitable materials, reducing paint shear due to the positive displacement piston design and thanks to a cam and cam followers combined with a sliding carriage unit without required surge chamber.

**Maple Pumps**
The Maple Pump is a horizontal piston pump for pumping Solvent / Waterborne Paints, Solvents and other suitable materials. The unit combines an energy efficient air motor with low shear fluid section technology from the range of Smart Electric Pumps to ensure balanced fluid pressure output and a minimum of fluid pressure fluctuations. The Maple Pump achieves a reciprocating drive by using high tolerance steel spool and sleeve air valve to control the air motor reversal, providing reciprocating motion. The patented air valve design ensures a positive magnetic detent for the main air valve thus removing the possibility for a stall condition.

**Infinity Pumps**
Ideal for standard air spray gun, or HVLP/LVMP gun applications.
- High volume transfer
- Used in place of pressure tanks when the application requires two or more tank refills per shift
- Best for abrasive material due to its superior durability
- Large bore passages designed for shear sensitive materials
- In case of dry running, damage can be minimized

**Mex Pumps (High viscosity materials / Adhesive)**
BINKS offers a complete range of high pressure pumps to meet the needs of various high viscosity applications. Ball check pumps are suitable for materials from medium to high viscosity, while chop check pumps are for super high viscosities. Pumps can be wall, cart, drum or floor mounted, or mounted on a variety of ram and inductor units. Pump ratios and outputs are available for a variety of volume and pressure requirements.
We have been developing over the past twenty-five years to become a leading manufacturer of powder coating systems. Our systems are sold, installed and maintained worldwide through our distribution network. The entire development, planning and production of our equipment are customized to meet the specific needs of our customers and take place at our headquarters in Balgach, Switzerland.

**Powder Coating Hand Gun Unit**

The spray program and powder output can be set directly on the gun, while the easy-to-clean gun design facilitates fast colour change. Consumables are easily replaced for fast maintenance. Ultralight spray gun reduces operator fatigue.

- Powder suction directly out of the original package enables a fast colour change in minutes
- Corona feedback system patent
- Diversified nozzle assortment for smooth spraying patterns and uniform
- Touch screen with easy handling and visualization
- 2 basic programs, up to 96 programs individually storable
- Stable equipment with vibrating table

**Automated Powder Coating System**

We will address your inquiry and respond to you individually in terms of whether to make a fully automatic system or a partially automated production line would be fine.

- The easy-to-clean gun design facilitates fast color change.
- Consumables are easily replaced for fast maintenance.

**MS Booth Installation Example**

- Increased productivity, color change in "six-minutes, or less in full recovery mode."
- "Note : It depends on the color to be changed, the size of the booth, and the level of skill of the workers.
- Improved application efficiency, due to MS double wall PVC sandwich cabin booth construction.
- Self-cleaning MS cyclone design
- Equipped with sophisticated PLC (Process Control Systems) sensors.

**MS Jet-Clean Absolute Filter**

- Capacity range : 4,000 m³/h ~28,000 m³/h
- Small diameter filters with large air to cloth capacity
- Long life, high quality filters

**Powder Booth System**

MS powder system is a high-speed color change booth system leveraging the latest technologies.

- MS FCO (Fast Color Change / Open)
- MS FCC (Fast Color Change)
- MS FCH (Fast Color Change Horizontal)