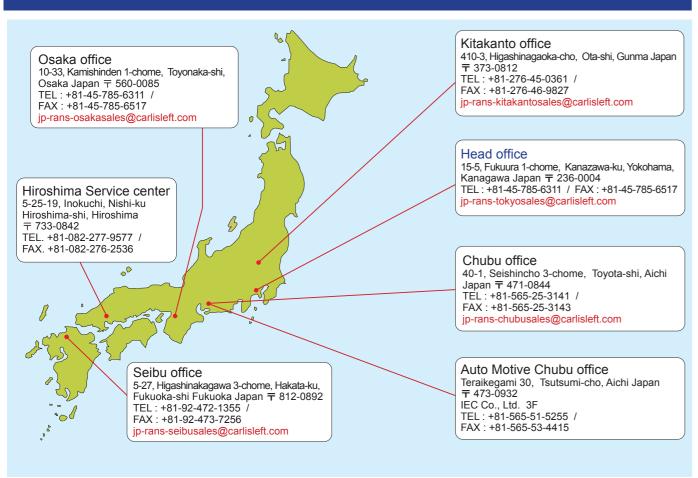
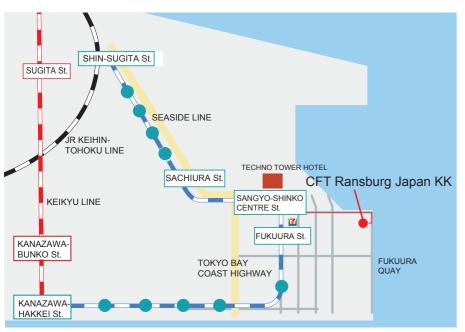
### **Domestic Network**



## **Head Office Map**



**Head Office** 

JR Shinsugita Station or Keikyu Kanazawa Hakkei Station

Kanazawa Seaside Line Sangyoushinkou Center Station. 10 minutes walk from the Station.

We are happy to pick you up if you call us.





# **EFT** Ransburg Japan KK 15-5, Fukuura 1-chome, Kanazawa-ku, Yokohama,

Kanagawa Japan 〒236-0004 TEL: +81-45-785-6311 / FAX: +81-45-785-6517 Website http://www.carlisleft.co.jp/

®DEVILBISS, Ransburg, MS, BGK and BINKS are a registered trademark of Carlisle Fluid Technologies.

©2019 Carlisle Fluid Technologies

19.03-05-1k(16.05)

# Total Solution for Fluid Handling

## Company Profile

Ransburg<sub>®</sub>







Carlisle Fluid Technologies Ransburg Japan KK

## Carlisle Fluid Technologies

"CFT: Carlisle Fluid Technologies" is the business division that handles the coating-related equipment of "Carlisle Companies Incorporated" of the US, which was founded in 1917.



Carlisle is a growing company with superior technology and knowledge in specialized fields, delivering high valueadded products to all over the world. In addition to CFT, which is dedicated to coating equipment, other 3 fields include CCM for construction materials (mostly rubber materials), CIT for connectors (highly durable connectors and cables for aircraft applications), and CBF for brakes (specialized highly durable brakes used for large-scale construction equipment).

https://www.carlisle.com/

### 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 prcesses, 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





Drive above-market organic growth

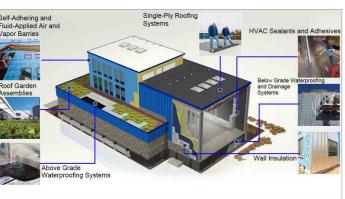




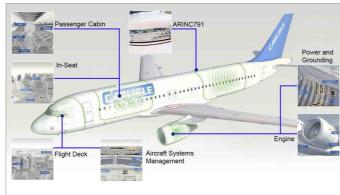




#### CCM (Carlisle Construction Materials)



CIT (Carlisle Interconnect Technologies)

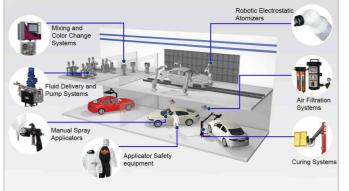


CBF (Carlisle Brake & Friction)



CFT (Carlisle Fluid Technologies)

2



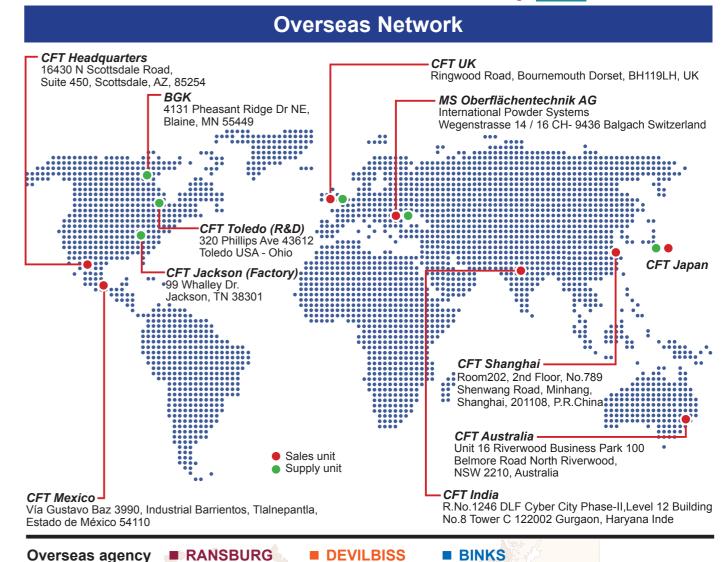
### **CFT Ransburg**

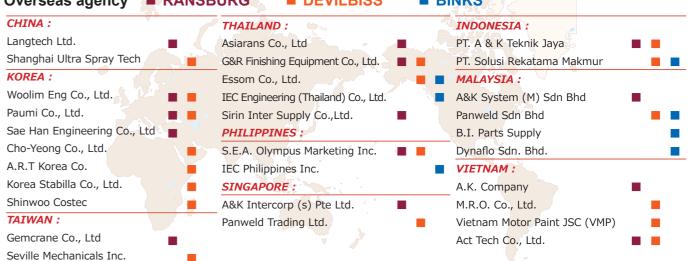
Dr. Alan Devilbiss invention of sprayers in 1888 and then Robert Ransburg's acquisition of a patent for electrostatic spray coating using static electricity in 1936 form the foundation on which we have developed "CFT: Carlisle Fluid Technology".

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.

**DEVILBISS.** Ransburg. **MS. BGK. BITIKS.** 





3

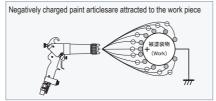
## Ransburg Declostatic coaling

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.

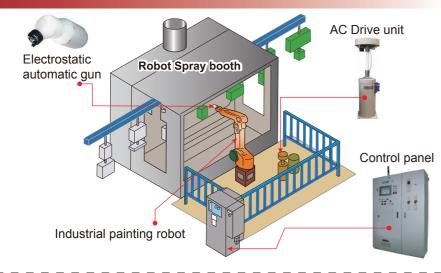
## Ransburg. Main products

#### Air Spray Electrostatic Automatic Heads

Gun System (Stationary mounting / For Robot-mounting)



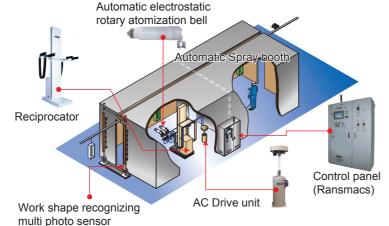
- · Complicated shape object
- Random production
- Metallic coating



## Bell System (Stationary mounting / For Robot-mounting)



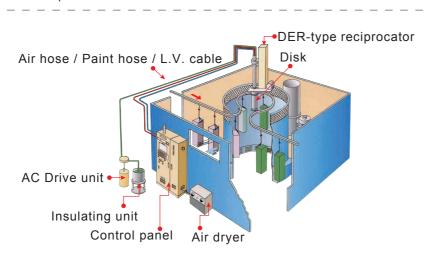
- · Fine finish coating
- High transfer efficiency
- Light weight objects
- High viscosity paint (coating without using thinner)
- Difficult atomization paint





Disc System

- Little kind and plentiful production
- Fine finish coating
- · High material flow rate
- High transfer efficiency
- Light weight objects

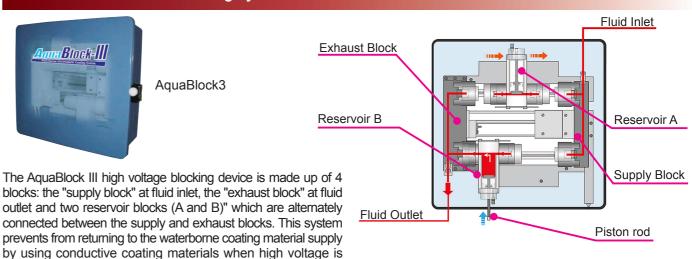


#### **Electrostatic Hand Spray Gun**

Air Driven Type High Performance Finishing



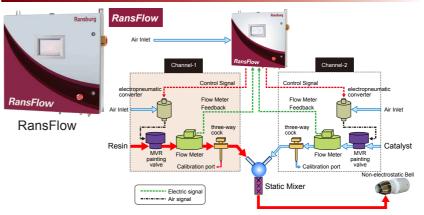
#### Waterborne Electrostatic Coating System



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.

#### **2K Mixing Unit**

applied for electrostatic coatings.



RansFlow accurately measures multi-component coating materials and mix 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.

#### **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.



Standard Type for normal paint, metallic paint and abrasive paint



4

## DEVILBISS Spray Gun

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 developement 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**

G:Gravity / S:Suction / P:Pressure



Super thin-film flat, High arched wide Suitable for difficult paint work



The world's first magnesium center cup spray gun



The next generation spray gun Basecoat spray painting



GTi-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



DEMI2 (G) Multi Mini Spray Gun

### General purpose spray guns

G:Gravity / S:Suction / P:Pressure



APOLLO-L (S/P) Light weight, Large-size Covering a wide variety of application and having much experiences



JUPITER-K (P) Light weight, Medium-size High transfer efficiency spray gun



LUNA2-K (P) Ultra Light, Compact-Size, User friendliness, 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

#### **Auto Spray Guns**

#### Stationary mounting / For Robot-mounting



T2AGPV (Body:SUS /Aluminum)

Spray Gun, More durable, Easier

to clean, Easier to maintain



DA-300

efficiency that provides

superior cost performance.



T-AGPZ



Atomization (HVLP/ LVMP/Conventional)

Compact automatic spray gun for low volume delivery

Numerous variations allow to adapt wide range of application

#### **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



HD-510 (10L)



LVMP Detachable type Automatic LVMP gun with high transfer

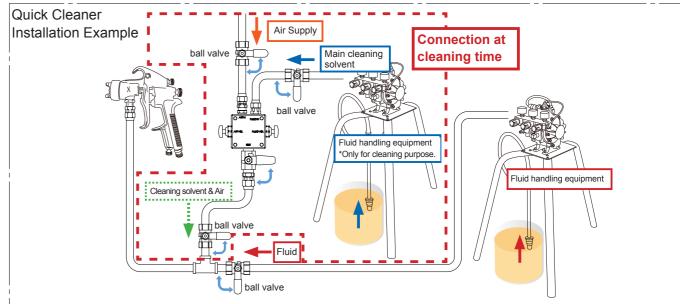
HD-505-W



HD-QCH Quick Cleaner head (without tank. Required fluid handling equipment.)



HD-QCH-DX Quick Cleaner Head pump unit



## Related equipments



Fluid cups





DeVilbiss original plastic lid that is easily open and close. Non-leakage.



It is the air regulator integrated with air cleaner.



Air Valve (with gauge)

6

## BINKS Paint Pumps

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 dissplacement piston design and thanks to a cam and cam followers combined with a sliding carriage unit without required surge chamber.



EV2-30
Fluid output 7.5L~30L
Small footprint
vertical pump



E2-15 Fluid output 3.75L~15L



E2-30 Fluid output 7.5L~30L

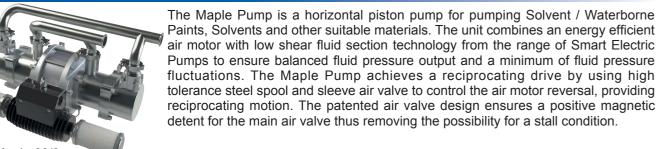


E2-40 Fluid output 10L~40L



E2-60 Fluid output 15L~60L

#### **Maple Pumps**



Maple 60/3 Equivalent Flow 90L Ratio 3 : 1



Maple 30/3
Equivalent Flow 45L
Ratio 3:1



Maple 7/7 & 7/15 (Airless) Equivalent Flow 10.5L Ratio 7:1/15:1



Maple 8/25 (Airless) Equivalent Flow 12L Ratio 25 : 1

### **Infinity Pumps**

\*Equivalent Flow at

60 cycles/min



Ideal for standard air spray gun, or HVLP/LVMP gun applications.

High volume transfer

Maple 15/3

Equivalent Flow 22.5L

Ratio 3:1

- 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

8

- Large bore passages designed for shear sensitive materials
- In case of dry running, damage can be minimized

#### MX 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.



High viscosity pump for ram (Ball check pumps)



Chop Check Pumps



The Ram Unit body is designed with highly regarded high quality Binks MX High Pressure Piston Pumps.

## BPR 1 ½"Air piloted & Manual Low Paint Shear





- Low shear Back Pressure Regulator
- · Reduced paint velocity through valve seat
- 0-15 Bar regulated pressure control
- Two Gauge ports to give best mounting orientation
- Stainless steel fluid body

#### Surge Eliminator



- Self compensating design eliminating manual charging with compressed air.
- Active feature dynamically changes air pressure automatically to equal fluid pressure
- Elimination of paint surge due to pressure fluctuation
- · Increased air volume for improved damping
- Flushable fluid chamber

#### **Pressure relief Valve**



for E2-15



- Protection for Pump overpressure
- Stainless steel construction
- Sanitary or Hose Connections Standard
- Ideal for quick installation to Pump Outlet
- Minimal 'dead' area in paint flow line
- Relief Port 360° orientation

#### Paint Agitator Electric Driven



- AC Inverter control
- Variable speed range
- Integral Shaft Seal
- Incorporation of Tank Lid Seal
- Integral flinger and drain pocket to prevent possibility of gearbox oil contamination



owder bution

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.

#### **Main products**

#### **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.



M4 Manual Powder Gun



Hand Gun Unit Topcoter Speedy 1gun



Hand Gun Unit Topcoter Speedy

- 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

#### **Automatic 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.

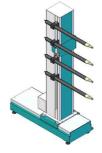


- The easy-to-clean gun design facilitates fast color change.
- Consumables are easily replaced for fast maintenance.



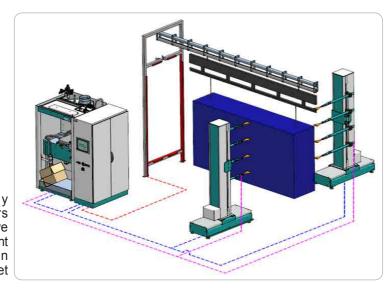
Powder kitchen

Automated powder supply from the original powder container. The integrated MS Ultrasonic screening system guarantees clump free flowing powder without contamination.



Reciprocator

These electronically controlled reciprocators with X-Y and Z axes have been developed for efficient production operation in automated powder or wet coating systems.



#### **Powder Booth System**

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

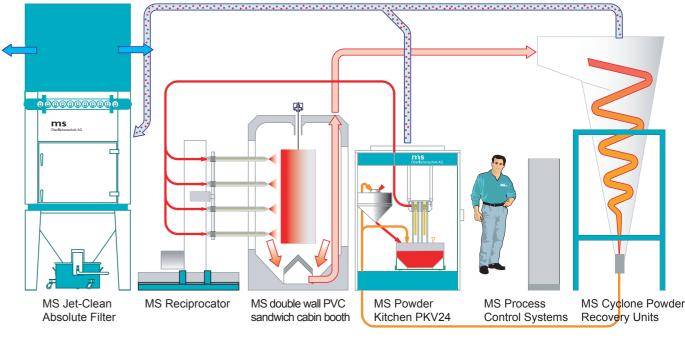


MS FCO (Fast Color Change / Open)

MS FCC (Fast Color Change)

MS FCH (Fast Color Change Horizontal )

#### 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 m<sup>3</sup>/h ~28,000 m<sup>3</sup>/h
- Small diameter filters with large air to cloth capacity
- Long life, high quality filters



Filter unit with big-bag waste powder removal



Filter unit with peristaltic pump

11



Filter unit with waste container bucket



Filter unit for low headroom applications

10