<Standard Components>

■ Turbo Disk Unit ■ Paint Pump Unit
■ DER Type Reciprocator ■ Air Dryer (Option)
■ Controller ■ High Voltage Power Supply Equipment

■ Paint Pump Unit

- Drive method: Explosion-proof motorAC200V, 3-phase, 0.4kW
- Paint Pump: Gear pump system
  Delivery100~1200ml/min/pump

■ Disk Unit Specifications

		New Turbo Disk	Mini Disk
Disk	Diameter	203(8”), 254(10”), 305(12”) mm	60 mm
	Atomizing capacity	800mℓ/min	600mℓ/min
Coanda Air		1～3 kgf/cm^2	1～3 kgf/cm^2
Motor	Type	Turbo Motor	Air Bearing Turbo Motor
	Rotation speed(rpm) (No load at 5kgf/cm^2)	15,000/203mm, 12,000/254mm, 7,000/305mm	60,000
	Air consumption	0.8 Nm^2/min	0.9 Nm^2/min
Valve		Cleaning valve	Cleaning valve
		Paint ON/OFF valve	Paint ON/OFF valve
		Dump valve (option)	Dump valve (option)
Fairing cover		Supplied	Supplied

■ High Voltage Power Supply Equipment Specifications (When the C type generator is used)

- Input power: AC105 V, 50/60 Hz, AC 0.52 A
- High voltage output: 0～－90 kV
- Safety circuit: Used together with the over current detection device (spark guard) and the high voltage ground switch.

■ DER-type Reciprocator Specifications

- Input power: AC 200V, 3Φ, 50/60 Hz, 1 kW
- Drive method: AC servo motor
- Stroke: 900~3,000mm
- Speed: 5~36m/min variable
- Memory for running pattern: 100 patterns (9 Zone control system in each pattern : RCS Type-I control unit)
- Intermediate stop time: 0.5 ~ 4.5sec (settable steps of 0.5sec)

■ Control Panel Specifications

- Input power: AC200 V, 3Φ, 50/60 Hz, 4 kW
- Input air source: 6kgf/cm^2 or more, 1Nm^3/min
- Control:
  1.Turbo disk rpm control
  2.High-voltage control
  3.Control of paint flow rate for Paint pump unit
  4.Speed control and stroke control for DER-type Reciprocator
- Alarm display:
  - Exhaust gas fun stopped; Conveyor stopped
  - Paint pump overloaded; Low Air pressure
  - Disk rotating speed reduction; High voltage error; Firefighting system running

※ For improvement purposes, Design & Specifications may change without prior notice.

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Ransburg®

DISK SYSTEMS

NEW TURBO DISK

MINI DISK

CARLISLE FLUID TECHNOLOGIES

Turbo Disk dramatically improve paint automization performance.

- ***High quality*** • • • ***Fine finish with uniform paint film.***
- ***Eliminate touch up*** • • • ***Improved paint penetration to cavity.***
- ***Better productivity*** • • • ***Memory of spray pattern for each workpiece,quick color change, easy maintenance.***

These features are realized by the Turbo Disk System.

High Speed Air Turbo System

- The spindle of turbo motor can rotate at high speed of max. 15,000rpm.
- High speed and Coanda air effect work together and produce uniform and fine particles.
- The system enables thick-coating, raising the limit for bubbling and curtaining.

Disk Auxiliary Air (Coanda Air) System

- Coanda air assists to covey paint particles. This greatly improves wraparound and penetration to cavities on a workpiece.
- Coanda air suppresses fanning of spray pattern at the upper part of turning of the disk reciprocation, reducing contamination of the booth ceiling and the conveyor.

Fairing Cover Structure

- The paint hose, air hose, high voltage power supply, turbo motor, paint ON/OFF valve, color change valve are all housed by a fairing cover, eliminating maintenance for contamination by paint mist.

Spray Pattern Memory System

- Adopting an electric reciprocator driven by a AC servo motor for reciprocating the disk, motion, stroke and speed of the disk can be flexible varried and stopped.
- Motion of the disk can be set and stored according to the shape of workpiece, and uniform film thickness is secured.

Disk Speed Sensor/Display System (Option)

- The control panel indicates the rotation speed of the disk which makes setting of the rotation speed easier.

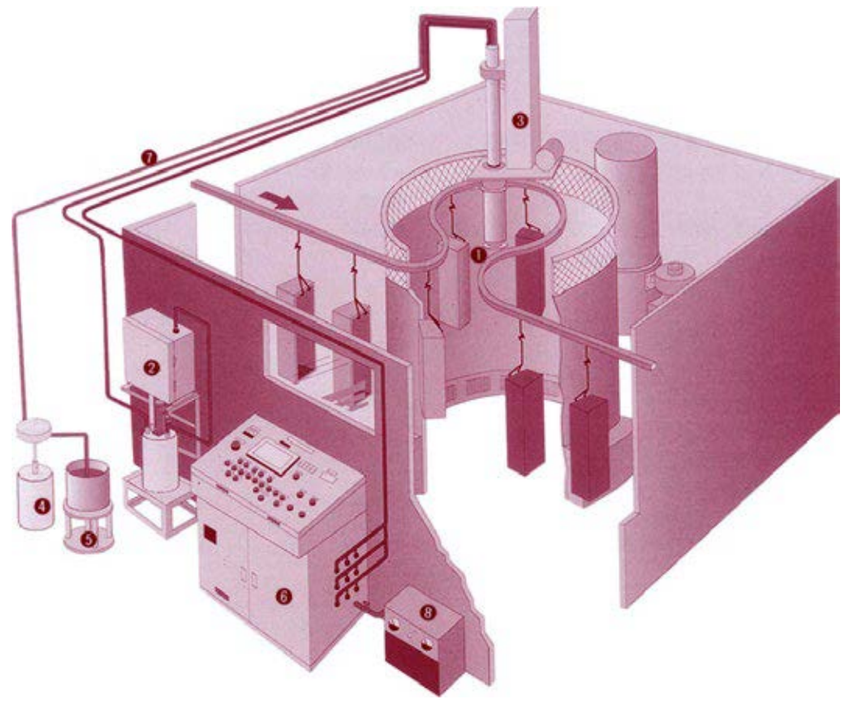
2-color Color Change System (option)

- The color changer installed nearby the disk shortens color change time and reduces drainage to the booth.
- When using two paint pump unit together, the color valve for the pump not used during coating can be cleaned and the color paint to be used next can be prepared quickly.(excluding waterborne)
- Accordingly, the system allows you to handle color change of multiple paint color.

Disk

- Various types of disk are available according to workpiece, conveyor speed paint delivery, work shape and coating material etc.

Disk Installation (Example)



① Disk ② High Voltage Power Supply Equipment ③ DER-type reciprocator ④ Paint pump
⑤ Insulating unit ⑥ Control panel ⑦ Air hose, Paint hose, HV Cable ⑧ Air dryer