

CNC MULTI-PAINT COATER

ACW4000 SERIES

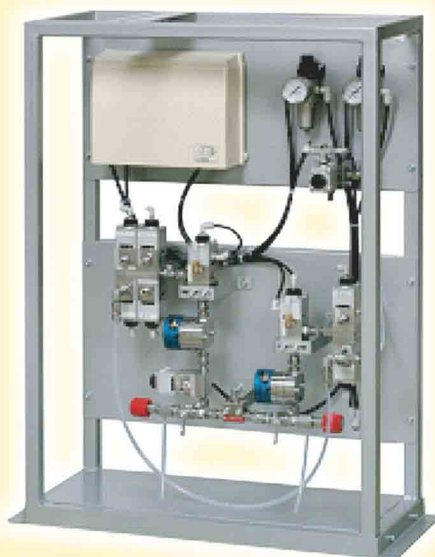
MODEL ACW4200 • ACW4300



ASAHI
SUNAC

CNC MULTI COMPONENT PAINT MIXING UNIT "ACW4000 SERIES"

ACW4200



Mixing unit



Control unit



Aiming for eco-friendly and human-friendly coating

"Ec'Coater" is formed from the words "Ecology" and "Coater (coating machine)".
"Ec'Coater" represents our concept born through our corporate principle.

The mixing accuracy has been maximized with our original technology (patented).

CNC MULTI-PAINT COATER ACW SERIES MODEL ACW4200 • ACW4300

A higher reliability has been realized with our original mixing control technology.

A computer-controlled intelligent, multi-paint coater using our original flow-rate control technology (patented)

A higher mixing accuracy and excellent cleaning performance have been realized!

FEATURES

●A higher mixing accuracy

A higher mixing accuracy has been realized with our original patented technology to keep errors within +/-5% even at variable flow rates during the use of multiple guns. The two-component mixing section using our original "mixing hose" and "power mixer" ensures more uniform distribution and mixing.

●Excellent cleaning performance

A very simple "mixing hose" (patent pending) and a "power mixer" with excellent cleaning performance (international patent pending) are used to radically reduce rough finishes resulting from the intrusion of particles.

●Paints of different colors and types

A color change valve is provided as standard equipment to flexibly support color changes among paints of different colors and types (up to 21 colors). Combined with various types of cleaning fluids, the "power mixer" with a higher mixing capacity is capable of mixing two-component water-base paints.

●Substantial production control functions

In addition to the pot life (usable life) control and fault sensing functions, the coater is equipped to record the paint consumption and actual production control data. A communicative function (optional) contributes to the process control improvement.

●A wider variety

Wall-hanging types and compact, lightweight, robot-mounting types as well as standard floor-installation types for use in and outside the booth are available to flexibly support various installation methods and locations.

A higher reliability and excellent quality are ensured with our three original technologies.

Control technology

Multiple guns are used in the coating site and locally adjusted to continuously change the flow rates. The ACW4000 series uses our original flow rate control technology (patented) to continuously optimize the valve positions and maintain a higher mixing accuracy without being affected by the coating conditions.

Development technology

Our system development efforts have been concentrated to produce advanced IT coaters. Advanced controls are available with easy operations.

Mixing technology

A very simple "mixing hose" (patent pending) improves the cleaning performance and reduces rough finishes resulting from the intrusion of particles.
The "power mixer" (patent pending) with a fast-revolving impeller for mixing two components easily mixes two-component and water-base urethane paints, which would be difficult to mix with static mixers.



Benefits of the use of ACW4000

- Metering, mixing and agitating operations can be eliminated to reduce burdens on operators.
- Only necessary quantities of paint can be mixed to radically reduce waste paint.
- Only the mixing route can be cleaned to reduce the paint thinner consumption and color change time, thereby contributing to the cost reduction.
- The main component and hardener are monitored by a computer to prevent coating defects resulting from poor mixing, etc.
- Production records can be maintained per ISO9000.

PHOTOGRAPHS OF ACW4000 SERIES CNC MULTI-PAINT COATER

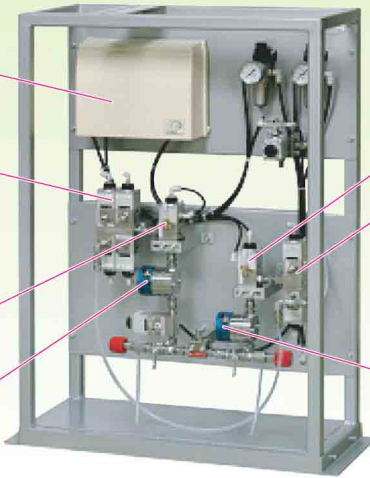
Mixing unit

Intrinsically safe, explosion-proof solenoid valve box

Main component CCV

Main component mixing valve

Geared flow meter for main component



Standard two-component mixing unit (rack-installation type)

Hardener mixing valve

Hardener CCV

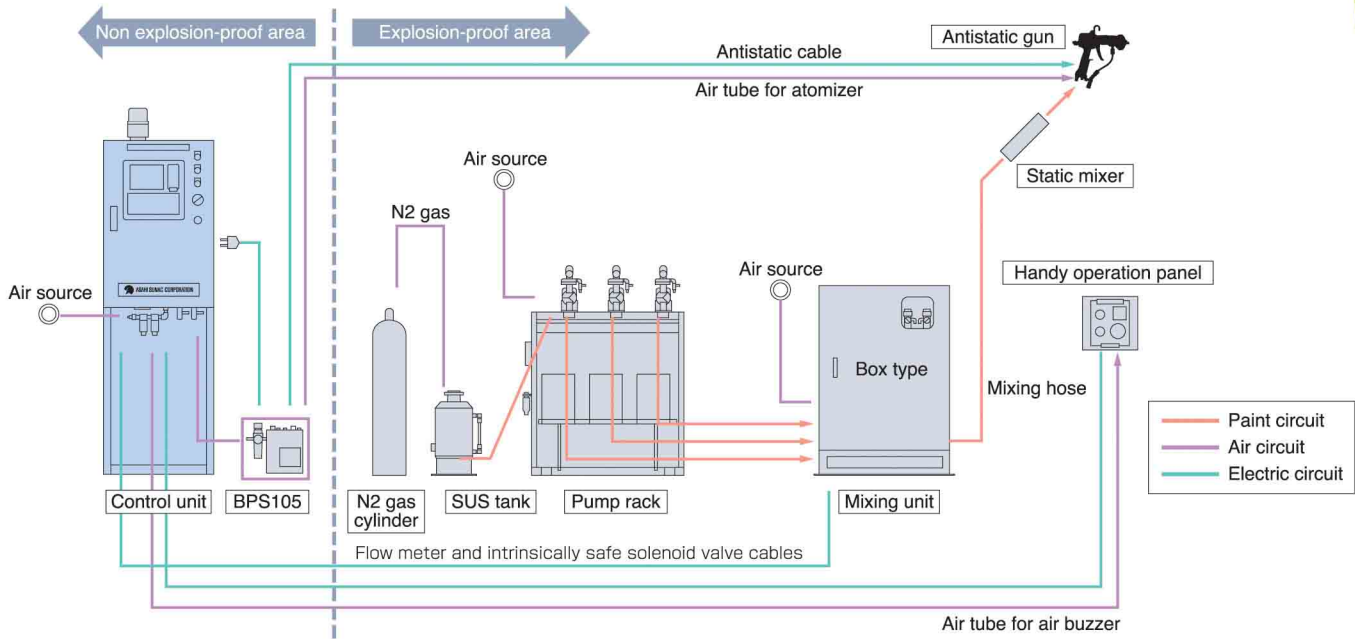
Geared flow meter for hardener

Control unit

Graphic display

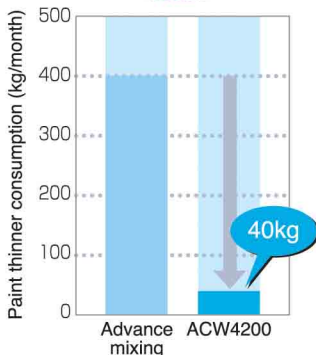


EXAMPLE OF SYSTEM CONSTRUCTION

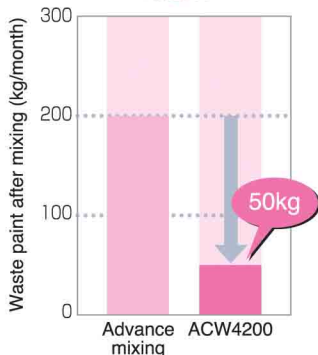


COST REDUCTION CASES WITH THE INTRODUCTION OF ACW4200

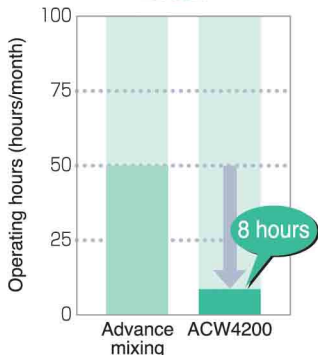
Paint thinner consumption
Reduced by **90%**



Waste paint after mixing
Reduced by **75%**



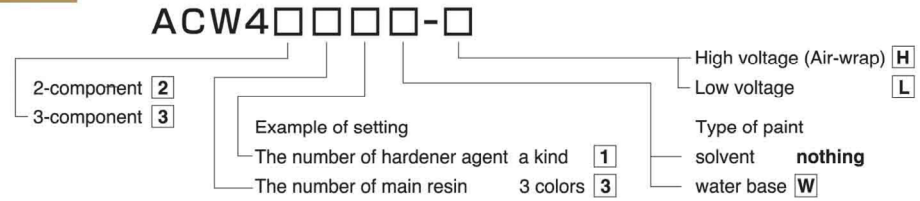
Operating hours
Reduced by **84%**



- Steelframes
- Wood furnitures
- Steel furnitures
- Corrosionproof anticorrosion
- Ship building
- Bridge construction
- Construction machinery

CNC MULTI-PAINT COATER ACW4000 SERIES

SPECIFICATION



Applicable colors	3, 5, 7 colors (Maximum 21colors, 21kinds hardener and solvent)
Mixing ratio	1:5~30:1 (3-component 1:5:30~29:1:1)
Mix accuracy	Within ±5%
Paint viscosity	20mPa·s~300mPa·s (Low pressure) 20mPa·s~3000mPa·s (High pressure)
Flow rate	50~1,000mL/min (Low pressure) 200~2,000mL/min (High pressure)
Paint pressure	Max. 1.5MPa (Low pressure) Max. 25MPa (High pressure)
Flow meter	Explosion proof (intrinsically increased safe construction)
Power supply	AC100V
Elec. consumption	50W
Wetted material	SUS, Teflon, Polyacetal resin, Tungsten carbide
Applicable Material	2 pack urethane paint, 2 pack epoxy paint, 2 pack urethane paint (water base)

STANDARD COMPONENT

- ①Mixing unit (stand type, box type)
mixing valve, ccv, flow meter,
solenoid valve
- ②Control unit (automatic, manual)

COMPONENT FOR SAFE CONTROLL

- ①Packing protect agent
(DDP) 18L can
- ②Nitrogen gas cylinder

NECESSARY UNIT

- Paint supply pump
- Enclosed SUS tank for hardener (10/20/40/60L)
- Paint hose/Air hose
- Hand gun
- Precise scale for checking mix ratio (1/100g)

OPTION

品名
Power mixer (use of solvent 2 pack paint)
Operation panel
Paint regulator
Lower level alarm for hardener tank Explosion proof/ Non explosion proof
CCLink communicative unit
Ethernet communicative unit
Building additional memory card slot unit



Enclosed SUS tank for hardener(20L)



Lower level alarm for hardener tank



Cautions for Safety

For correct and safe use of the equipment, please refer to Operation manual provided for it.

*Appearances and specifications of the equipment shown on this booklet are subject to be changed for the purpose of its improvement, without pre-announcement.



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