



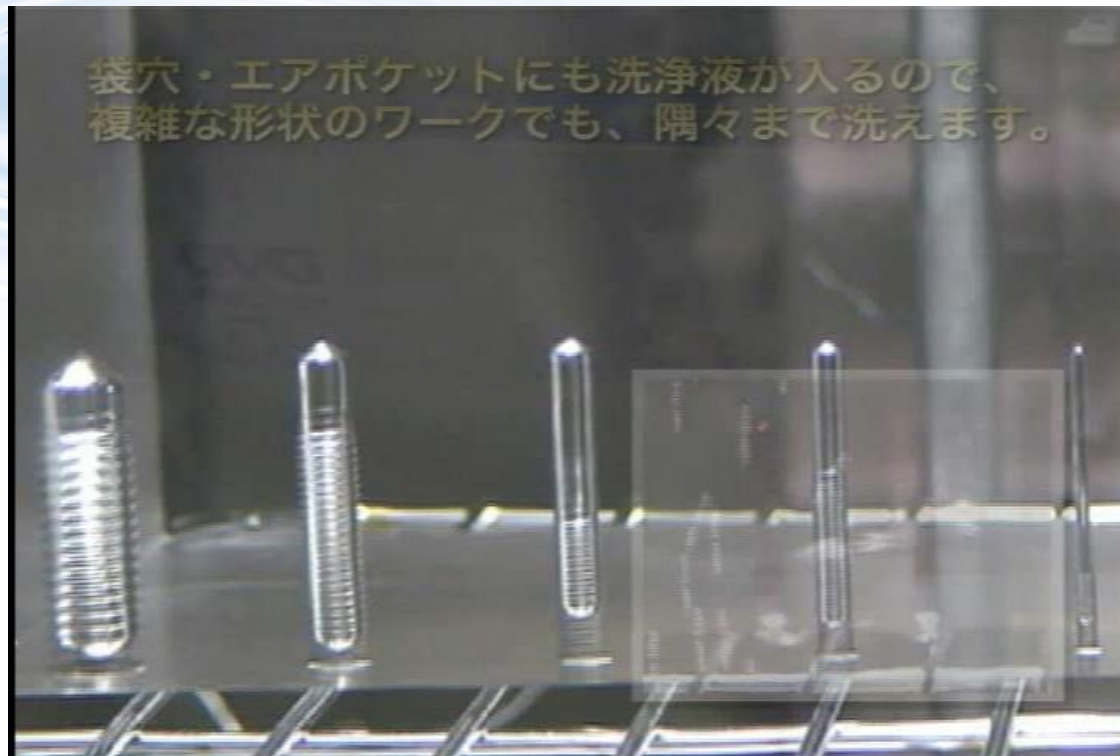
ACT FIVE CO., LTD.®
SCIENTIFIC CLEANING

ACTIVE Features

(Hydrocarbon cleaning skill & technology)

■ VACUUM CLEANING

By alternating Vacuum pressure/air tight conditions inside the cleaning chamber, contaminants can be lifted out of cleaning solution and can penetrate even the minutest areas, especially tap holes where air pockets tend to form.

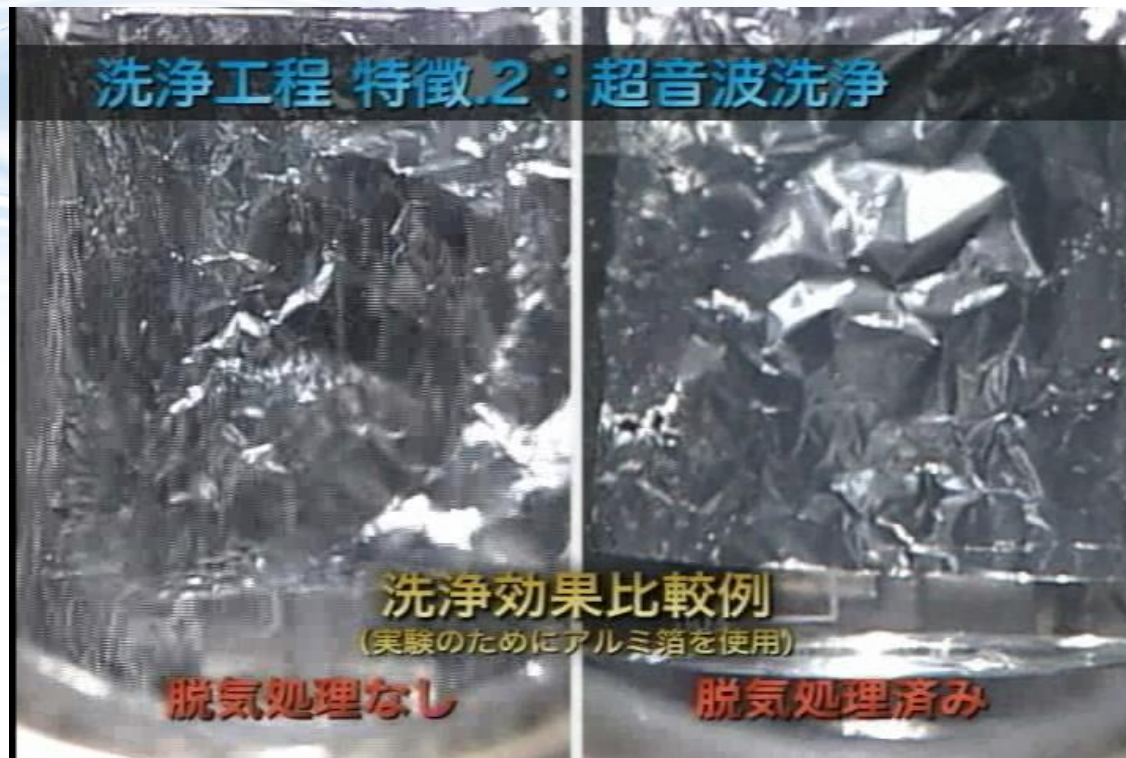


ACTIVE Features

(Hydrocarbon cleaning skill & technology)

■ VACUUM ULTRA SONIC CLEANING

At the same time, any oxygen mixed within the solution is removed which results in higher quality ultra sound cavitation. All this provides for outstanding cleaning results on almost any kind of workload.



ACTIVE Features

(Hydrocarbon cleaning skill & technology)

■ VAPER CLEANING & VACUUM DRY

Drying results as fast as using chemical solvents. Because the fluid surface evaporates as it dries, instantaneous drying is achieved. Fluid remaining in holes or between workload pieces will continue to dry up as long as heat remains. Drying stains and blotches are virtually eliminated.



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ACTFIVE Future

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ACTFIVE Profile

■ Company overview

Company Name ACT FIVE CO., LTD.

Location [Head Office: Cleaning Center/Home Factory]
40 Ippongi yoko-oji Fushimi-ku Kyoto 612-8252 Japan

Established June, 1988

Capital ¥10,000,000

Group Company 3 companies
(China, Thailand, India)

**Employees
(group total)** 171 as of March, 2014



■ Company Philosophy

The Science of Cleaning and the Protection of Environment

ACTIVE Profile

■ Business operation

1

Manufacture and Sales of cleaning systems

Industrial precision parts cleaning / dryer/distillation
/ precision machines



2

Sales of Cleaning Solvent

Non-Freon aqueous solvents / Hydrocarbon-based solvents
/ others



3

System Maintenance and Overhaul

AAS (Act Answer Service) / Machine cleaning
/ Machine overhaul



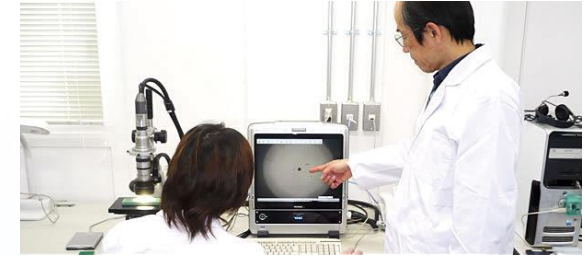
ACTFIVE Profile

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Cleaning Process Proposal

STR (Act Techno Research)

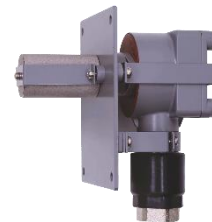
Cleaning specs inspection / Cleaning results analysis / Creating cleaning software



5

Cleaning Related Operation

Substitute cleaning / Manufacturing and sales of cleaning related items / others



ACTIVE Profile

■ Global network

We offer trust and peace of mind for users all over the world through overseas offices in China, Thailand and India including Japan.



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ACTIVE Features

(Hydrocarbon cleaning skill & technology)

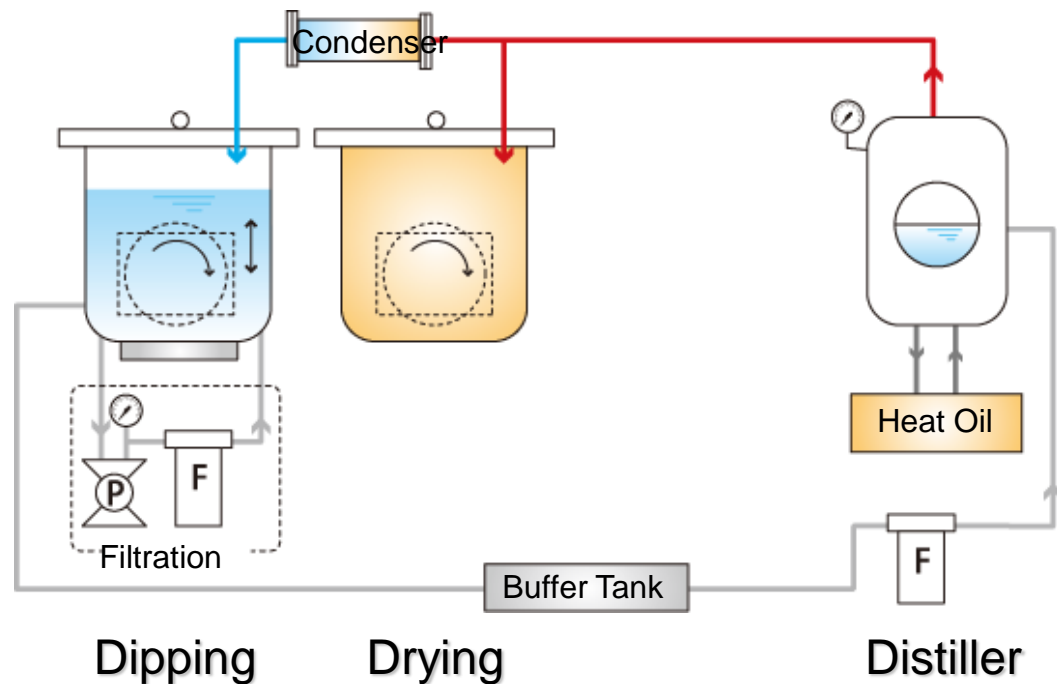
■ Compatible with Square & Round shaped basket

To meet the needs of various workloads, our machines are equipped to handle almost any kind of basket in both rotation and vibration modes.



ACTIVE Features

(Hydrocarbon cleaning skill & technology)

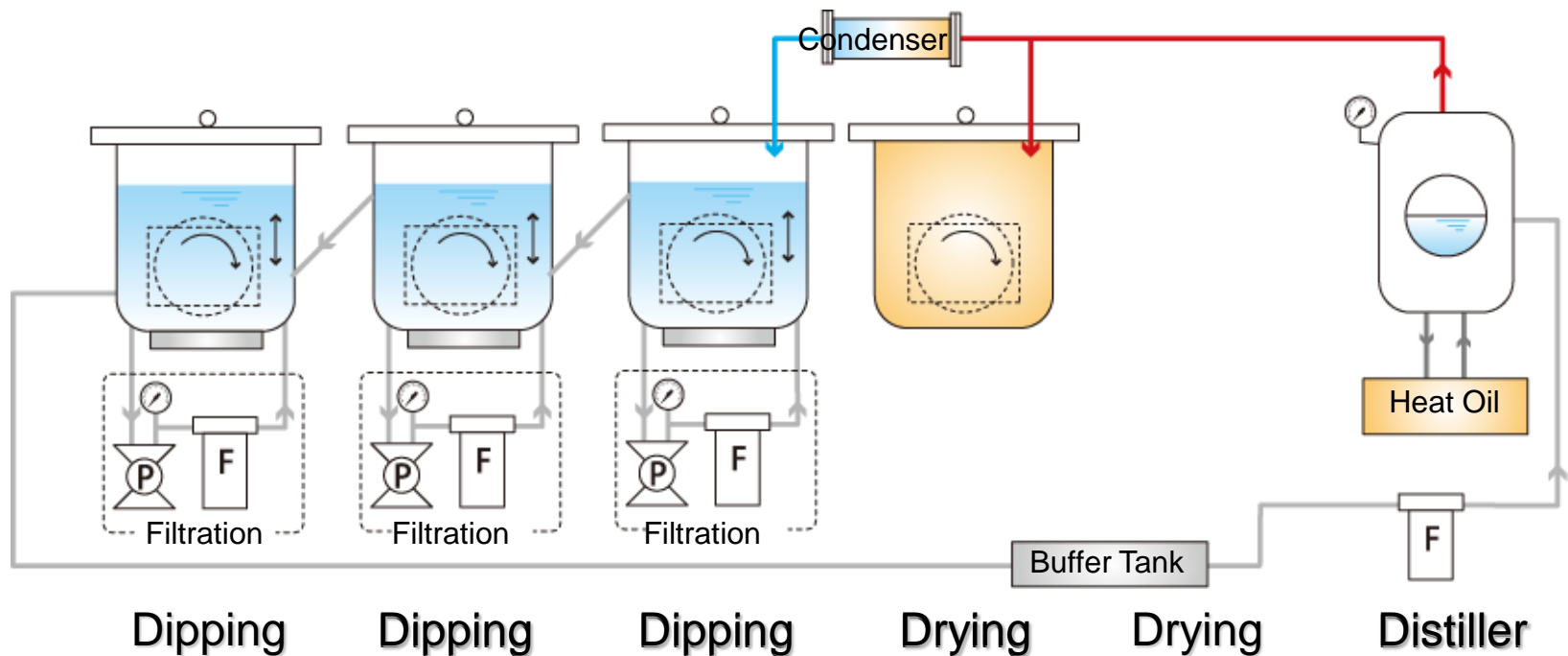


Cleaning system basic configuration

Composed of cleaning tank, drying tank, distiller.
(CycleTime 5~6min)

ACTIVE Features

(Hydrocarbon cleaning skill & technology)

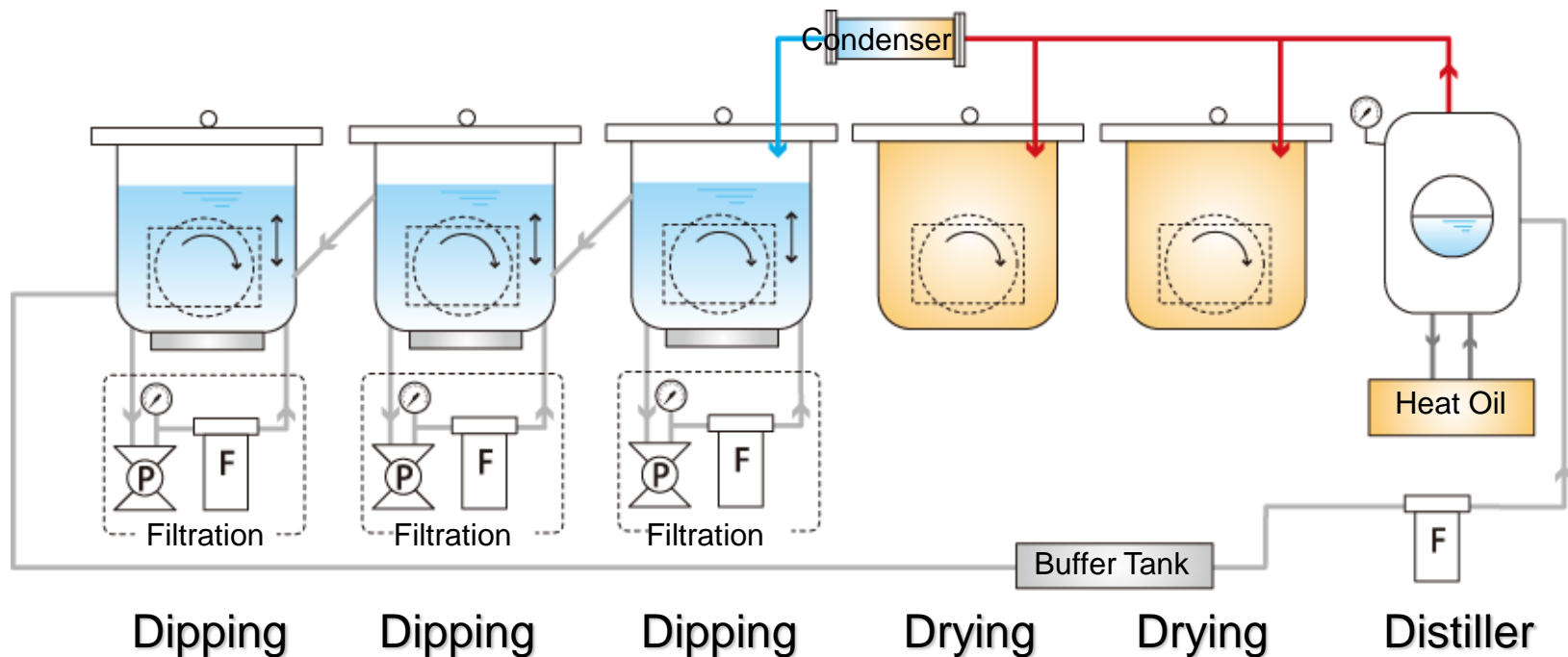


Cleaning tank is increased by the degree of contamination of the object to be cleaned

1. Cleaning time
2. Oil Amount

ACTIVE Features

(Hydrocarbon cleaning skill & technology)



If you want to speed up the cycle time,
the drying chamber is increased

Shorten the cycle time (CycleTime 2~3min)

ACTIVE Features

(Hydrocarbon cleaning skill & technology)

■ Hydrocarbon systems with proven safety measures

		Basic safeguards
1.	Never Raise temperatures higher than Auto-Ignition point	• Indirect heating system in the steam or oil
2.	Control HC temperatures.	• Various sensors of temperature runaway prevention.
3.	Never emit any gases in the flammable range.	• Equipped with a control system to assure gas levels never reach the flammable level during vacuum-tight cycles.
4.	Removes all flammable materials from machine.	• Attachment of the increased safety equipment. • Air purge of electrical components (to maintain pressurized state)

ACTIVE Features

(Hydrocarbon cleaning skill & technology)

■ Hydrocarbon systems with proven safety measures

1. Never raise temperatures higher than Auto-Ignition point

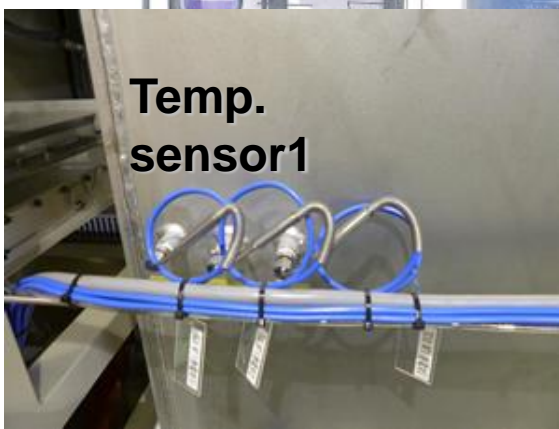
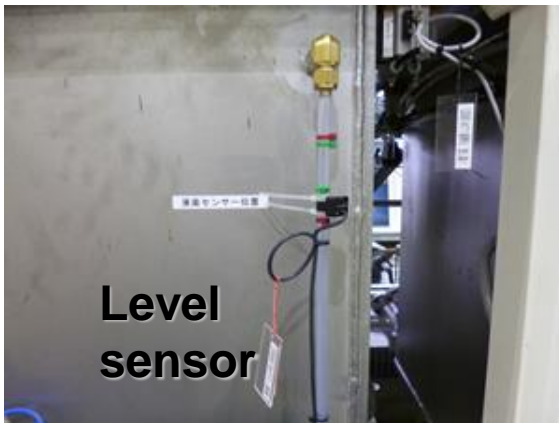


ACTIVE Features

(Hydrocarbon cleaning skill & technology)

■ Hydrocarbon systems with proven safety measures

2. Control HC temperatures



ACTIVE Features

(Hydrocarbon cleaning skill & technology)

■ Hydrocarbon systems with proven safety measures

3. Never emit any gases
in the flammable range.



ACTIVE Features

(Hydrocarbon cleaning skill & technology)

■ Hydrocarbon systems with proven safety measures

4. Remove all flammable materials from machine.



Air drive valve



Antistatic packing



Air purge



Ground



Attachment of the Increased safety equipment

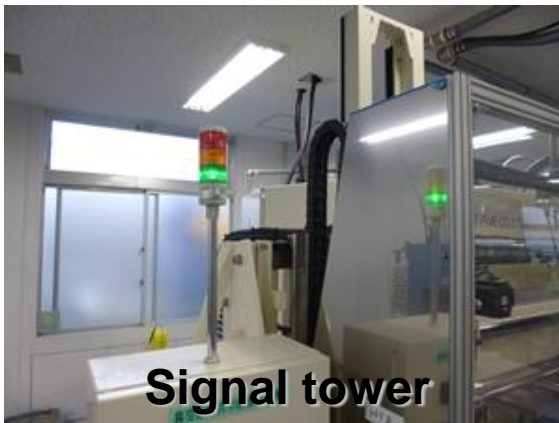


ACTIVE Features

(Hydrocarbon cleaning skill & technology)

- Hydrocarbon systems with proven safety measures

Alarm, Warning, Display



ACTIVE Features

(Hydrocarbon cleaning skill & technology)

- Hydrocarbon systems with proven safety measures

Additional safeguards



ACTIVE Features

(Hydrocarbon cleaning skill & technology)

■ III CS series Semi-Automatic Cleaning Machine

- Tremendously flexible manual operation
- Vacuum cleaning processes are entirely selectable to best meet your cleaning needs
- Easy to operate. Only loading and unloading of the basket must be done manually and can be done with the hoist. Equipped with timer to start cleaning and drying automatically.



ACTIVE Features

(Hydrocarbon cleaning skill & technology)

■ III AS series 1Cycle Automatic Cleaning Machine

- Movement of the basket is not required for single tank type.
- automatic operation from cleaning to drying.
- More safety processing in a closed vessel, more secure.



ACTIVE Features

(Hydrocarbon cleaning skill & technology)

■ III DS series Multi-Chamber Automatic Cleaning Machine



- All systems come standard with fully enclosed chambers.
- Excellent for large capacity workloads.
- Square and cylindrical baskets can be used simultaneously.
- Can be programmed for unmanned operation when necessary.
- Precision cleaning can be done in speeds of 1-3 minute cycles.

ACTIVE Features

(Hydrocarbon cleaning skill & technology)

■ III HS series Metal Belt Cleaning Machine



- Uses a pressing process for nonstop cleaning of workloads in loops.
- Immersion (ultrasound or jet stream) cleaning + hot air blower combination for cleaning and drying capabilities.
- Single-line and multiple-line types are available.
- Adjustable for different widths of loops.
- Maximum line speed of 10 meters per minute.

ACTIVE Features

(Hydrocarbon cleaning skill & technology)

■ III AS-DS series Large Capacity Automatic Cleaning Machine

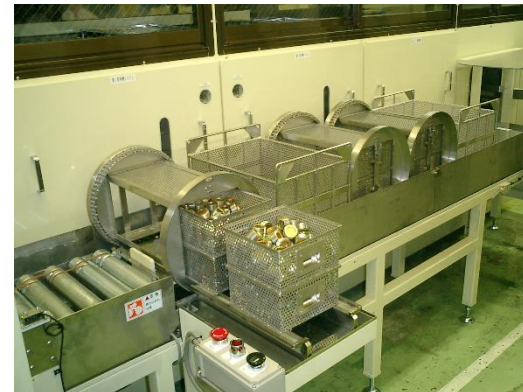


- Excellent for pre or post heat-treated items and items to be painted.
- Can handle pipes, long items, and large items up to 7 meters long and 1.5 tons.
- Automatic operation from cleaning to drying with the push of a button.

ACTIVE Features

(Hydrocarbon cleaning skill & technology)

■ III AS-DS series Cleaning work attitude fixed rotation cleaning Automatic Cleaning Machine



ACTIVE Features

(Hydrocarbon cleaning skill & technology)

- III AS-DS series Paretena Resin basket corresponding specification Automatic Cleaning Machine

Per Container Pallet



Inner Basket of Resin Container



Per Container Pallet



Resin Container



ACTIVE Features

(Hydrocarbon cleaning skill & technology)

■ III AS-DS series Servo motor transport wafers for washing machine Automatic Cleaning Machine



- transport speed to any
Can be changed.
- anywhere in the (range)
Speed can be changed.
- The burden on the basket
work Gently conveyed
without spending. Of the
work between Reduction
of the contact wound.
- jump in any tank between
Mode can be moved.
- In conjunction sequencer,
pre-Registration cleaning
methods can.
- accuracy of vertical and
lateral movement position
But improvement.

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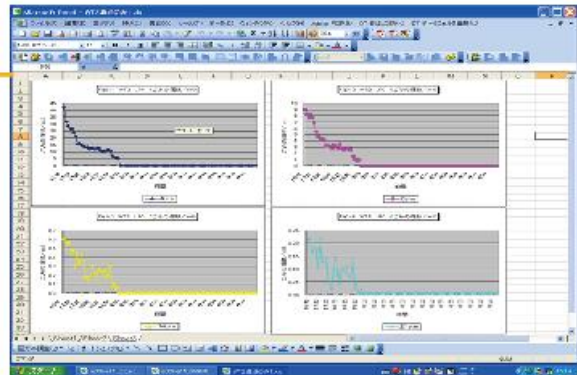
ACTIVE Future

(Hydrocarbon cleaning skill & technology)

■ intelligence cleaning

Load

Unload



1

2

3

4

Indispensable item for controlling cleaning solvent!!

Automatic particle monitor (Air Cleaning)

Start cleaning
Disperse particles
The cleaning time
Decreased to the Preset degree
Solvent transfer to a next process after Confirmation of the Number of particles

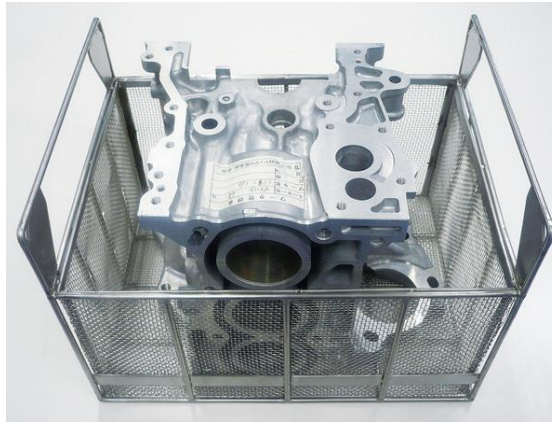
ACTFIVE Future

(Hydrocarbon cleaning skill & technology)

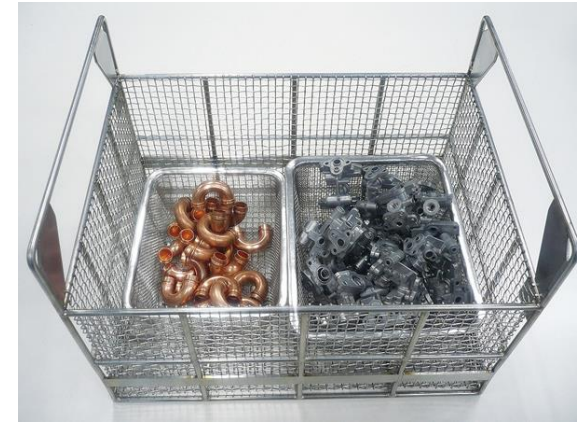
■ intelligence drying



5min



8min



3min

INTELLIGENT-VDS...

~~5min + 8min + 8min = 21min~~

The shortest-drying time is detected for each optimum drying time

ZERO Drying failure!!

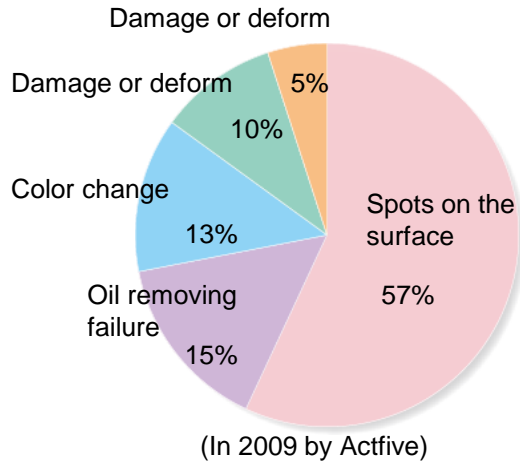
Automatic drying monitor (A.I Drying)

ACTIVE Future

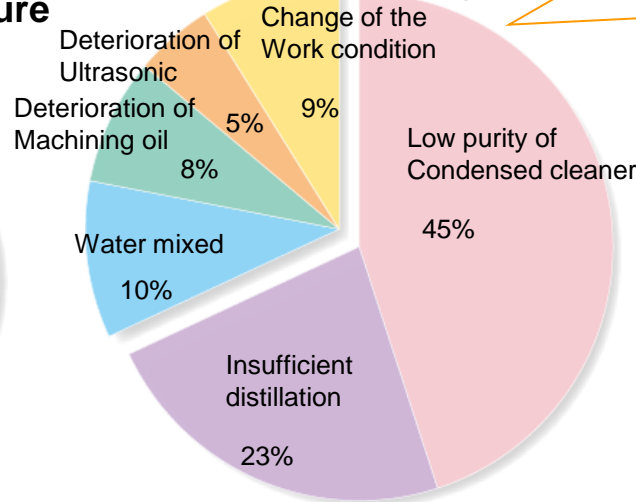
(Hydrocarbon cleaning skill & technology)

Intelligence Management

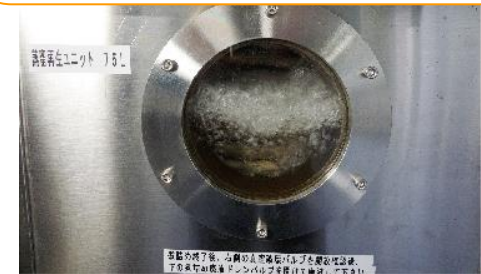
Details of Cleaning failure



Cause of Cleaning failure



70% of cleaning failure is led by the insufficient cleaner management in cleaning tanks and vapor producing tanks.



Conventional System...

Large amount of oil → Boiling frequency-twice a day

Small amount of oil → Boiling frequency-once in every few days

wastes is kept to a minimum.

Definitiveness of waste management

Small amount of oil → Lost of cleaner will be mixed in liquid wastes

Automatic boiling & condensation (A.I Solvents control)



ACT FIVE CO., LTD.
SCIENTIFIC CLEANING

Thank you very much for your attention!

Our customers are the inspiration for our many innovative products.
We hope to continue serving you in the future.



ACT FIVE CO., LTD.[®]
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