



Green & Clean

Save Cost!
Perfect Cleaning!

70%



Fluklean

Strong Point of Fluidized Bed

A unique characteristic of fluidized particles is the relatively high rate of heat transfer to solid surfaces. As a result combination of excellent heat transfer characteristic and high heat capacity are ideal for attaining rapid stabilization at an isothermal condition



Fluidized bed Tecnology



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Environments
Friendly
FLUKLEAN

YJS Tech's Fluidized bed Cleaning Technology

FLUKLEAN is the cleaner to remove the organic contaminants on surface and inside of molds and dies or the high-molecular inorganic compounds perfectly in **dry way without generating any wastewater.**



Fluidized bed?

The bed that keeps the Thermal Medium suspending in the space by pushing compressed air from the bottom of the cleaning equipment.

It results in floating of medium and the characteristics of normal fluids, such as the ability to free-flow under gravity.

Once fluidized bed is generated with level surface. Parts to clean can be immersed.



FLUKLEAN Characteristics

- 1 Eco-Friendly Cleaning
- 2 No Abrasion and Corrode on the cleaned parts
- 3 Perfect Cleaning the contaminants
- 4 Economical and high Efficiency
- 5 Low cost to maintain the system
- 6 Simple and Easy operation
- 7 Lifetime is Semi-permanent



FLUKLEAN Advantage



- Eco friendly environment cleaning
- No toxic
- No corrosion
- No abrasion
- No distortion
- Safety cleaning
- Save time
- Low maintenance cost
- Easy control of temperature & air flow pressure
- Large quantities of parts can be cleaned simultaneously
- Cleaning results are consistent
- Removes multiple contaminants: oil, grease, paint, gaskets, rubber, etc.
- Surface treatment: deburring, polishing, finishing
- Reduction in amount of waste to be disposed of
- Not labor-intensive in cleaning process

Contaminants to clean

- Rubber deboning
- Polycarbonate
- Polyurethane
- Polypropylene
- Ethylene methacrylic
- Nylon 6/66
- Polystyrene
- Styrene
- Fluoropolymers
- Polyethylene
- Pvc & Organic Matter/Oil/Grease
- Paint
- Teflon
- Engineering Plastic
- Silicone Rubber
- Urethane
- Epoxy
- Meek & Peek
- Corrosion
- Multiple Contamination etc.



Demo
Equipment



Cleaning Results



Before



After



Cleaning Results

Before

After



Cleaning Results



Before



After



Cleaning Results

Before



After



Cleaning Results

Before



After

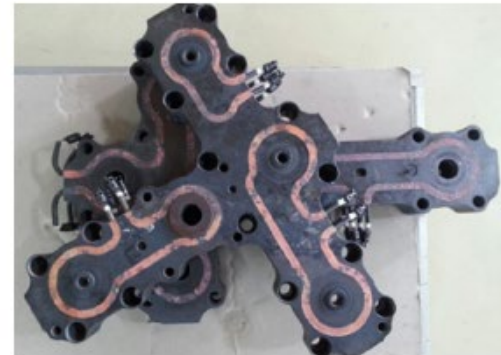
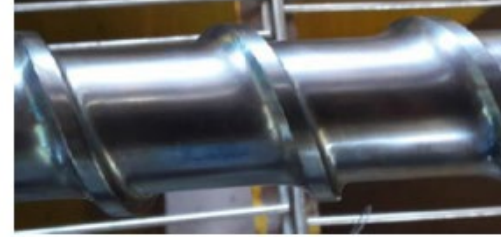


Cleaning Results

Before



After

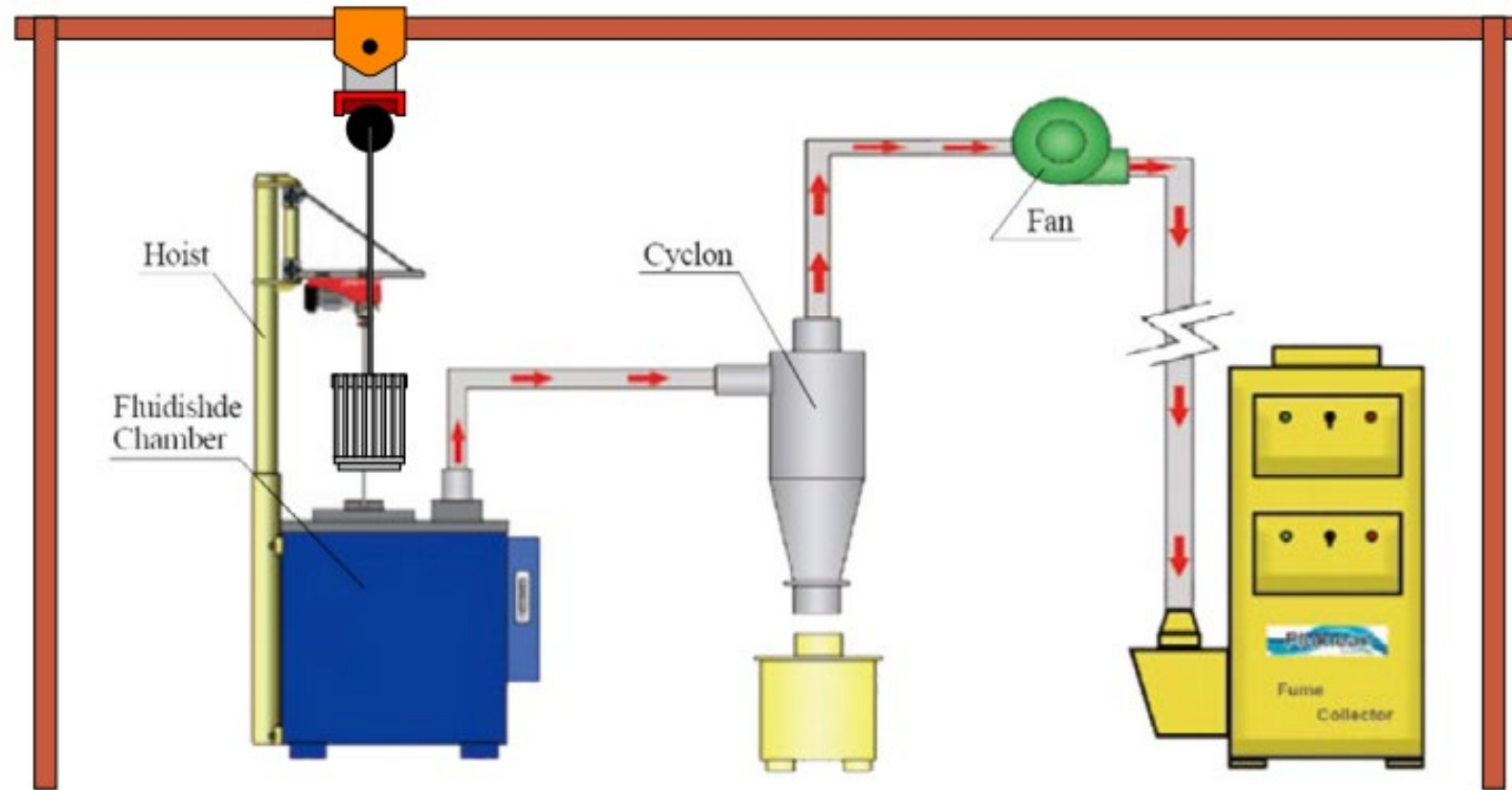


Cleaning Method Comparison

Item	Fluidized Cleaning	Ultrasound Cleaning	Dry Ice	Water Cleaning	Electric Furnace Cleaning
Principle	Fluidized Bed Technology	Ultrasound	Dry Ice	Heat, Chemicals, Hand Tools	High Heat
Application	Plastic, rubber, combined contamination	Not applicable to solids, mucus or oily contamination	Suitable for large parts that are hard to separate	All parts reachable to human hands.	All areas dissolved by heat
Cleaning Medium	Powder(T/M)	B.T.X	Dry Ice & Crusher	Torch, Brush, Hand tools	X
Effect	Both surface and inside	Surface only, not inside	60~70% of Surface, not inside of molds	Surface wearing.	Cannot clean inside
Cleaning Process	No treatment before/after	Requires treatment before and after	Requires treatment before and after	Requires treatment before and after	Requires treatment after
Amount Cleaned	100%	50~60%	70%	90%	80%
Operator	1 person	1 person	2-3 people	3-4 people	2 people or more
Labor Cost	1 person with more than 1 job	1 person with more than 1 job	1 or more people with no other job	1 or more people with no other job	1 or more people with no other job
Maintenance Cost	Small T/M recharged	Requires consumable chemicals	Dry Ice recharged.	Requires consumable supplies, including chemicals, gas and tools	Secondary cost due to risks
Input Factors	Electricity/ low-pressure air	Electricity/chemicals/water	Electricity/ high-pressure air	Electricity/ice/ high-pressure air	Electricity
Wastes	Small amount of fume	Wastewater	Secondary waste	Secondary waste	Secondary waste
Environment	Eco-Friendly	Chemicals	Dry ice	Contaminants disposed	Toxic gas
Risk	Safe	Safe	Dangerous	Dangerous	Dangerous



System Configuration



Cleanable Contaminants

- Distributer Plates,
- Filters elements,
- Spinning Gear Pumps,
- Spin packs,
- Spinnerets,
- Extrusion
- heads,
- Housings,
- Die plates,
- Melt pumps,
- Breaker plates,
- Mixers,
- Screws,
- Screw elements,
- Barrel
- Parts of Extruder and Catapult Machinery
- Parts of Precision Industrial Machinery
- Parts of Semi Conductor Production etc.



Major Customers



Samsung, Suwon
 Samsung, Hungary, etc.
 Jeil Woolen Fabric
 Jeil Chemical Fiber R&D
 Kolon ,Gumi
 Kolon-, Daegu
 Koron Industry
 Hyosung T&C, Jincheon
 Hyosung T&C, China
 Hyosung T&C, Yonghyeon
 Hyosung T&C, Ulsan
 Hyosung T&C, Daejeon
 Hyosung T&C, Anyang
 Hyosung T&C, R&D
 SK
 LG Chemical
 LS Cable, Gumi
 LS Cable, R&D

Hanwha Chemical
 Daehan Cable, Siheung
 Daehan Cable, Anyang
 Taekwang
 KAIST
 Segngyukwan University
 Korea University
 Iljin Industrial Electronics
 Hwseung Industry
 Dongseo Food, Incheon
 Dongseo Food, Changwon
 Dongseon Chemical Fiber,
 Yongin
 Dongseon Chemical Fiber,
 Singal
 Dongseon Mono
 Hankook YKK
 Sungjin

Joyang,
 Samhong
 Youngbo Chemical, Daejeon
 Youngbo Chemical, Ansan
 Daeyoung
 Tongil Engineering
 Hankook Engineering Plastic,
 Ulsan
 Hankook Engineering Plastic,
 Anyang
 M&G Co.
 Mode Tech
 Poli Tech
 Sewon Corp.
 Gaon Cable,
 Nano Hitech
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THANK YOU !



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