

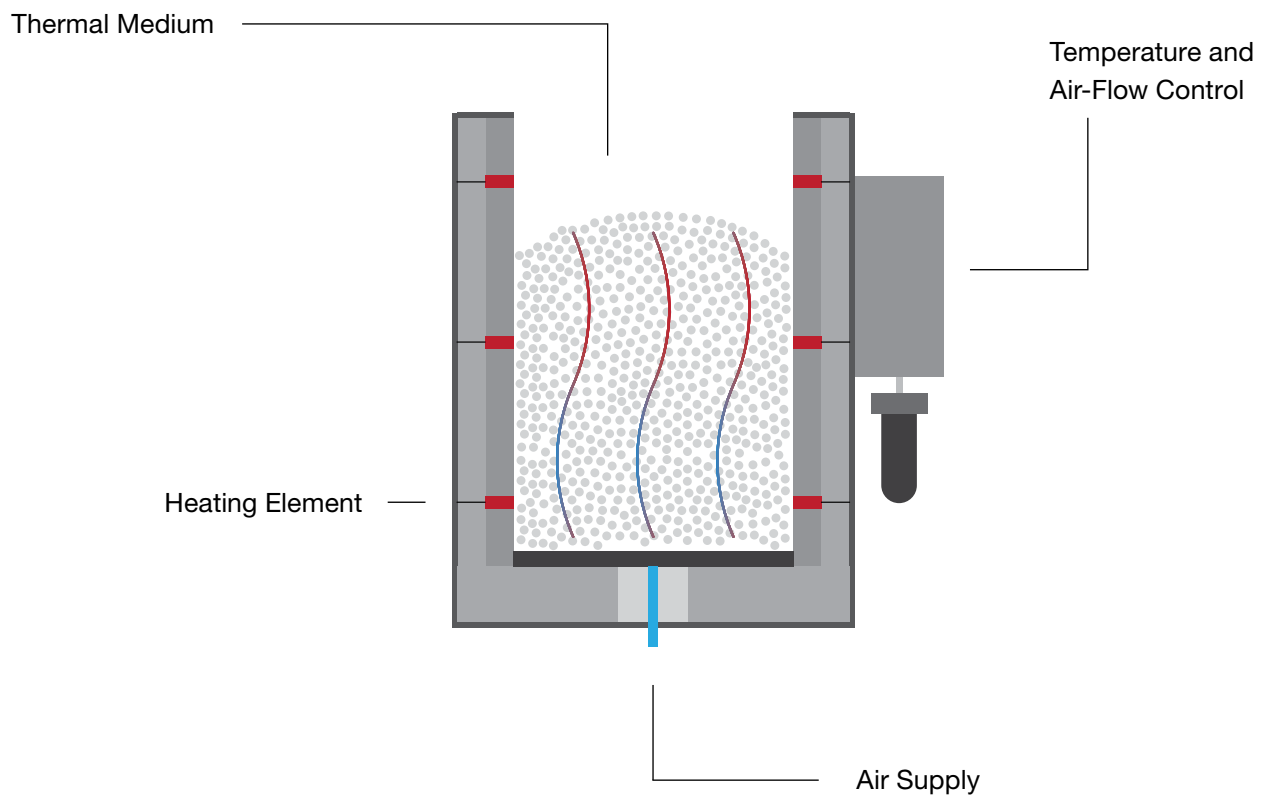


FLUIDIZED BED CLEANING SYSTEM

FLUIDX ASIA CO., LTD. supports YJSTECH Co., Ltd. by acting as its authorized distributor and service center for Asia.



What is a fluidized bed cleaning system?

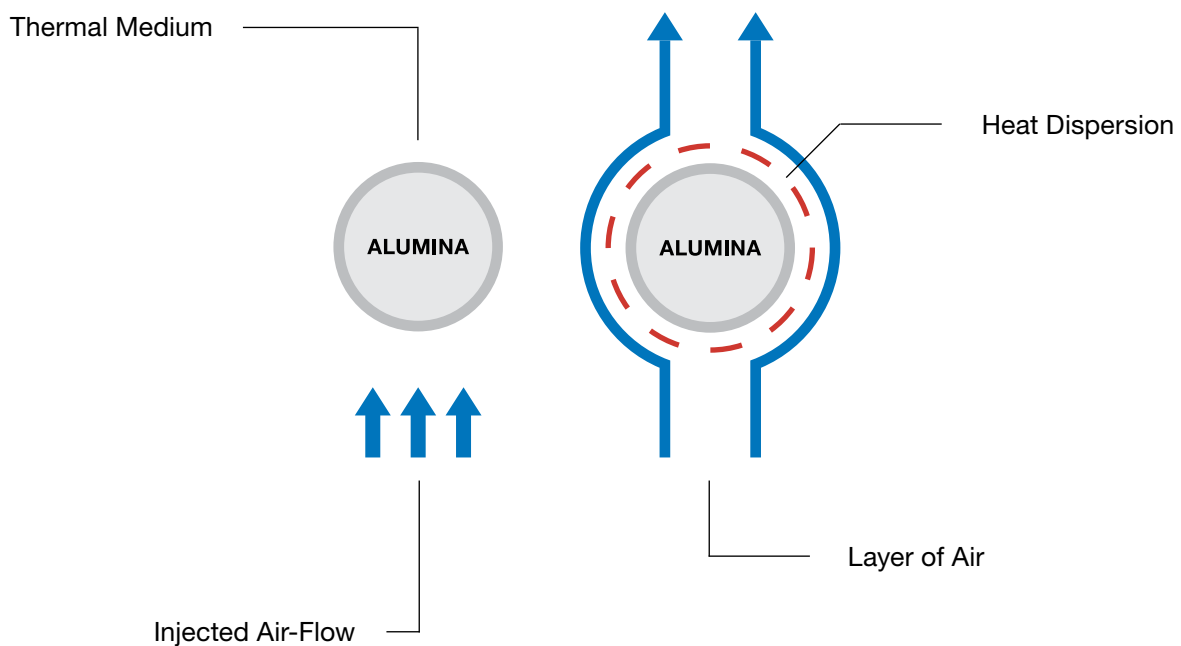


A fluidized bed cleaning system consists of a reactor filled with a thermal medium which is heated and at the bottom air is injected.

This generates a specific flow and the thermal medium starts to fluidize and takes on many of the same properties as liquid.

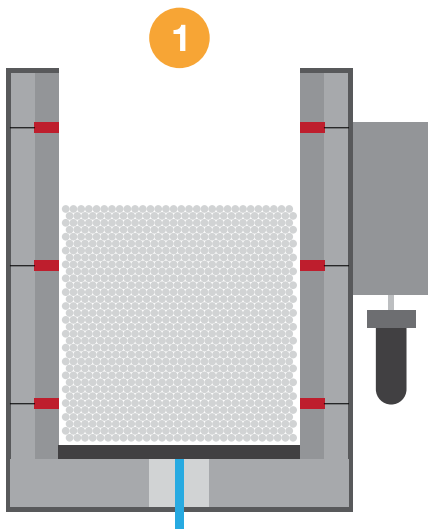


How does a fluidized bed cleaning system work?

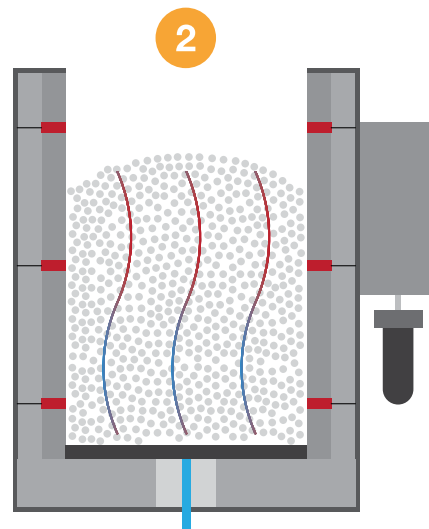


When air gets injected at the bottom of the reactor the solid particles of the thermal medium separate and take on a state of fluidization.

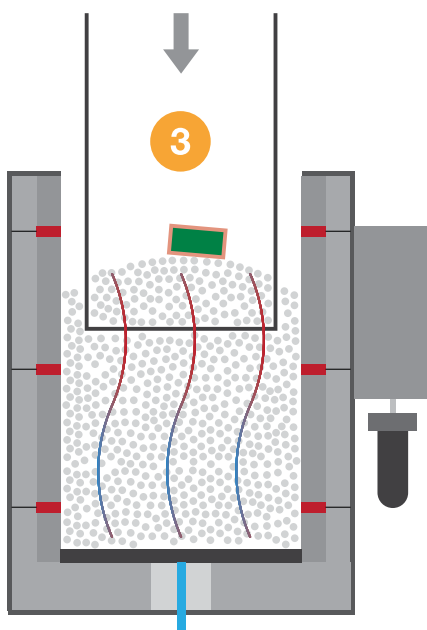
Heat will disperse between the solid particles and contamination on the part will be removed without the use of any chemicals or other liquids.



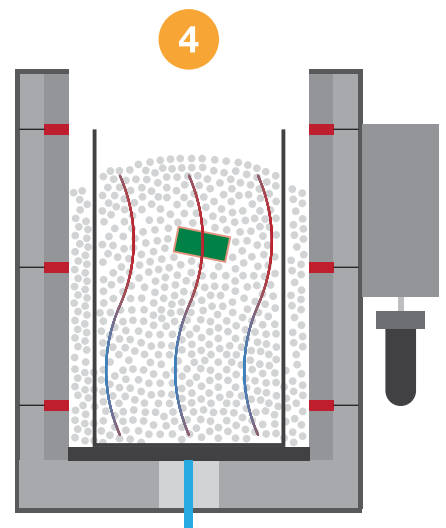
Particles of the thermal medium are in a solid state.



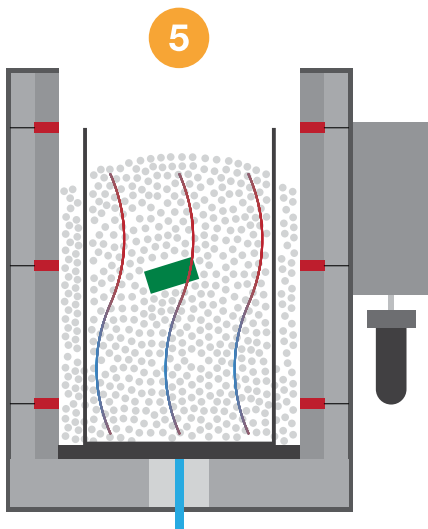
Switch on system, start air-flow, heating and fluidization starts.



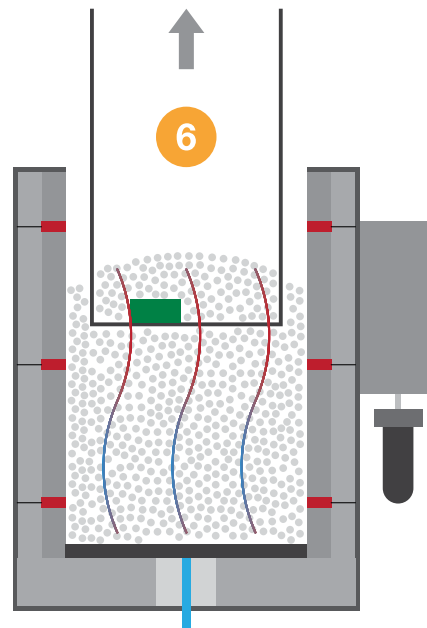
Contaminated part can be placed in the fluidized bed.



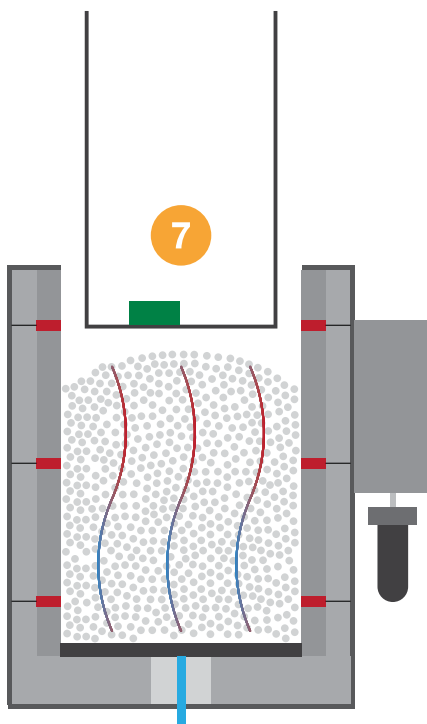
Contaminated part will sink into the fluidized bed.



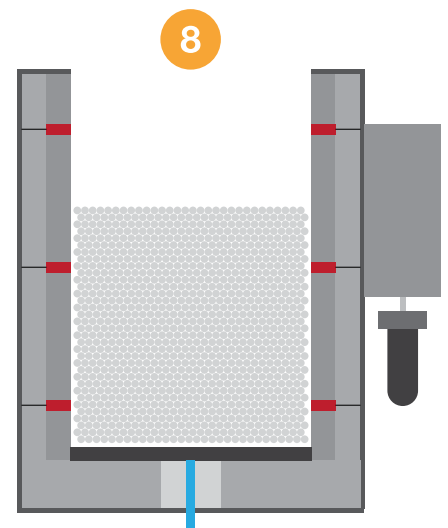
Contamination will be removed without abrasion, corrosion, etc.



Cleaned part can be removed from the fluidized bed.



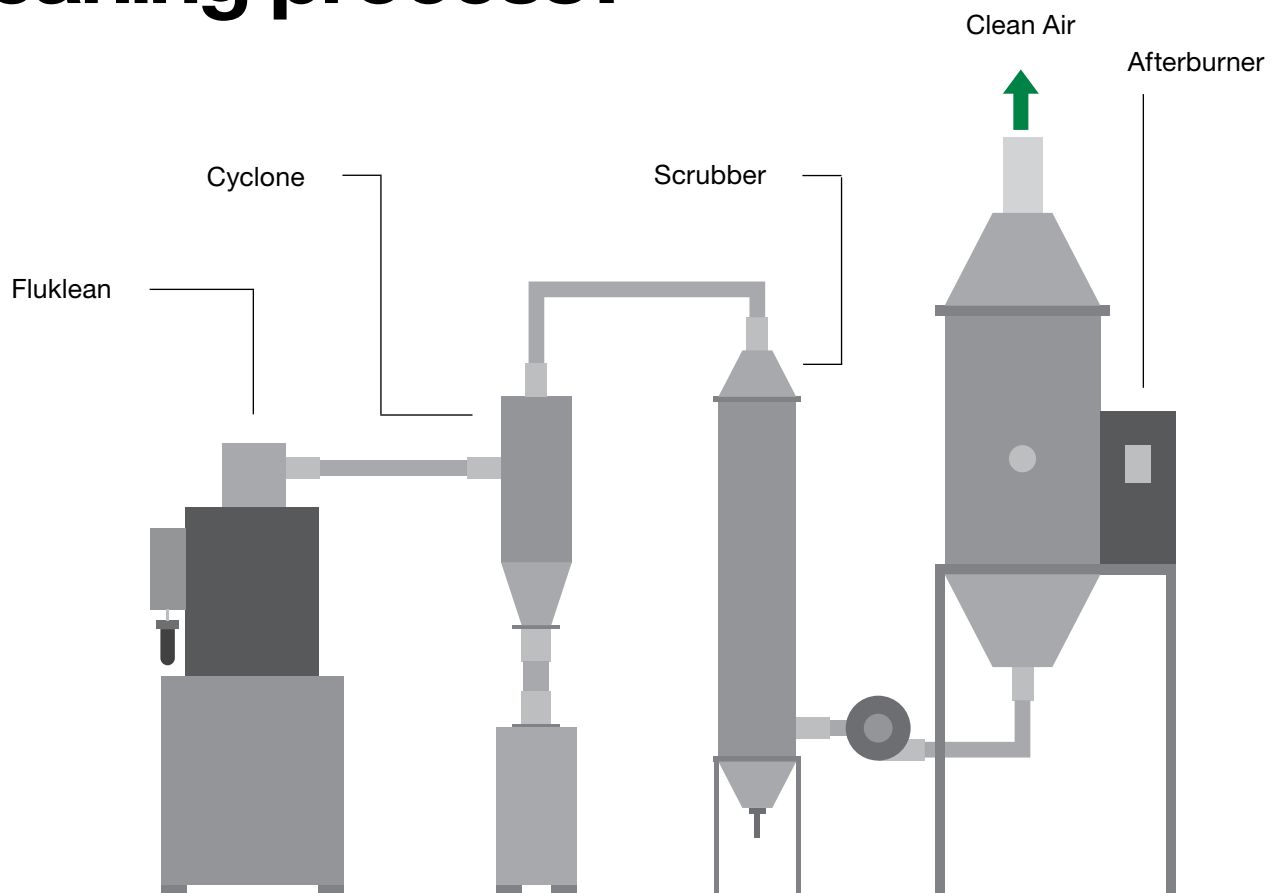
Remove any thermal medium particles with compressed air.



Switch off system and the particles will go back to its solid state.

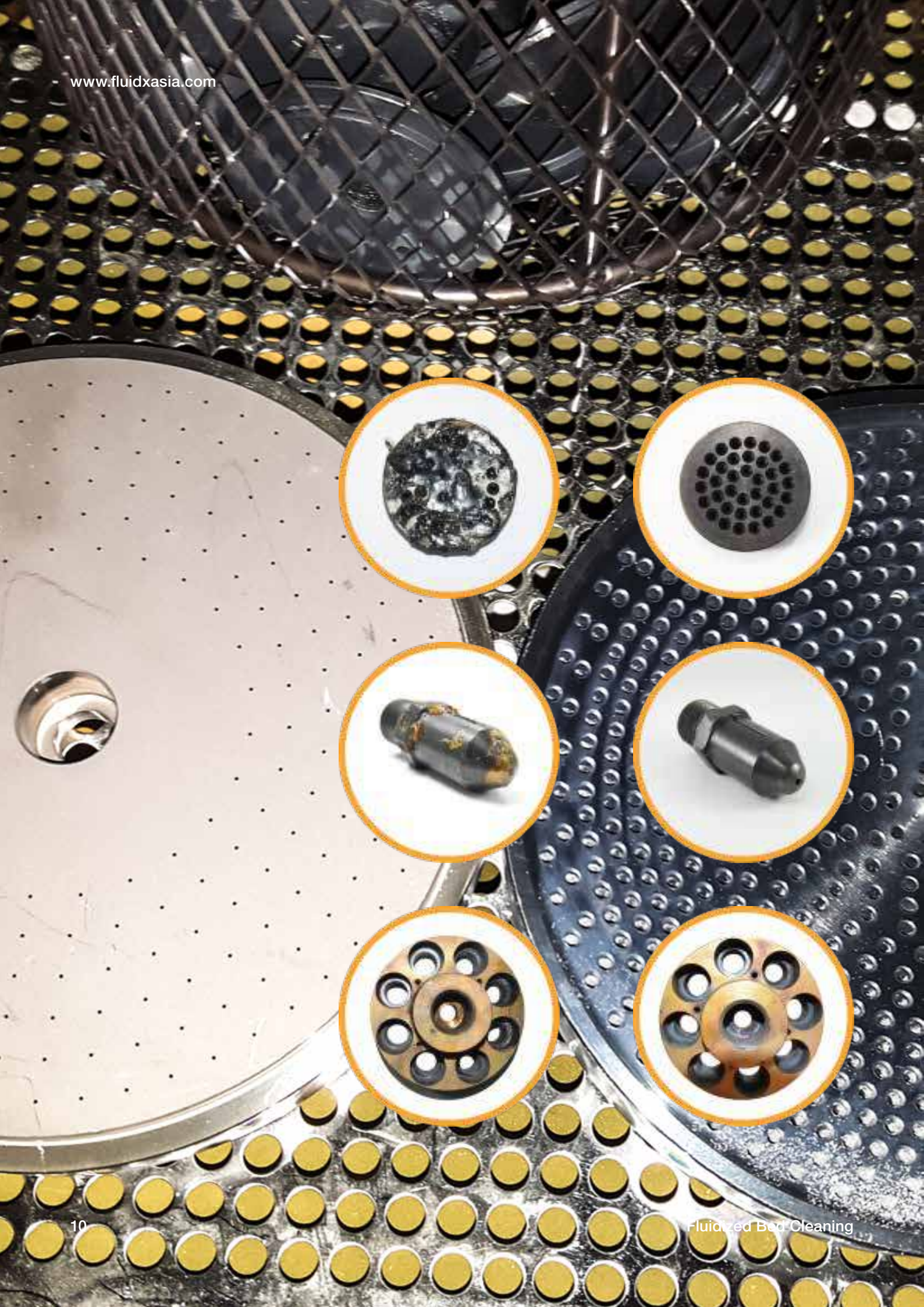


How about fumes during the cleaning process?



The system uses no chemicals or other toxic materials for the cleaning process, making it an environmental friendly cleaning system.

However, if required due to environmental regulations, a fume extraction and recycling system is available.



What type of parts and tools can Fluklean clean?

FIBER PRODUCTION	POLYMER EXTRUSION	FILM PRODUCTION	INJ. MOULDING
Distributor Plates	Housings	Die Plates	Dies
Filter Elements	Extrusion Heads	Distributors	Hot Runners
Mixers	Die Plates	Filters	Needle Valves
Spinning Pumps	Melt Pumps	Mixers	Nozzles
Spin Packs	Breaker Plates	Screws	...
Spinnerets	...	Screw Elements	
...		...	

Fluklean can be used for a variety of machine parts and tools contaminated with polymers and other residues.

The table shows the most common machine parts and tools cleaned by our clients. Contact us for more specific cleaning applications.



Why choose Fluklean as a cleaning system?

- ✓ No Abrasion No physical impact on the cleaned parts and tools.
- ✓ No Corrosion No use of toxic chemicals resulting in corrosion.
- ✓ No Material Loss Possible to remove residue without any material loss.
- ✓ Small Footprint Compact cleaning system leaving a small footprint.
- ✓ Low Cost Long life span of thermal medium.
- ✓ Fast Cleaning Only 30 to 60 minutes per cleaning process.
- ✓ Easy to Operate Simple and easy temperature and air-flow control.
- ✓ Safe Method No explosion risk since it's a dry cleaning method.

Removing polymers, powder coatings, oil contamination and other materials has always been difficult with other cleaning methods.

Requiring large and continues investment in labor, large material losses and cause pollution. Fluklean solves these problems.



In what standard variations is Fluklean available?

SPEC. / TYPE	IFC-3137	IFC-3645	IFC-36110	IFC-4675	IFC-5175	IFC-5675
Temp. Range	Up to 600°C (Temperature control stability (at 400°C): +/- 4°C)					
Load Capacity	11L	16L	38L	45L	58L	85L
Heater	8kW	10kW	15kW	14kW	18kW	22kW
Air Consumption	60 - 130 L/Min.	60 - 150 L/Min.	160 - 300 L/Min.	150 - 300 L/Min.	150 - 450 L/Min.	220 - 500 L/Min.
Air Pressure	2 - 10 Kg/cm ²					
Dimensions (mm)	625 x 650 x 900	690 x 890 x 900	690 x 890 x 1650	790 x 1050 x 1350	860 x 1250 x 1400	-
Electrical	220V / 380V / 440V, 3ph, 50 - 60Hz					
Weight	98 Kg	180 Kg	240 Kg	450 Kg	880 Kg	-
Accessories	Fume extraction and recycling, Lid, Basket, Loading table, Hoist, Housing, etc.					

Besides the standard variations and accessories we can also provide tailor made fluidized bed cleaning systems which can be automated.

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