

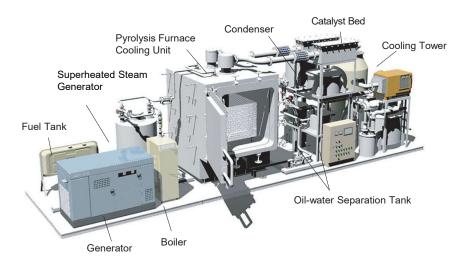


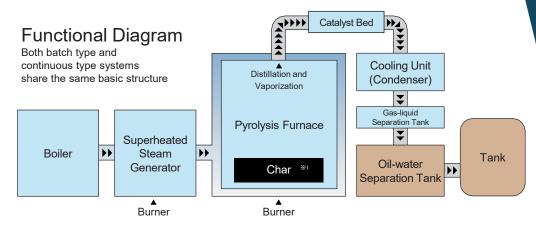


Secondary Use of Extracts **Reduction of No Combustion** (No Incineration) **Operating Costs** Safety - Generator A modular structure Regeneration of Considerations - Boiler allows for flexible - Burner Renewable design and planning to Oxygen-Free, reduce operating Resources costs according to **Pressure-Free** throughput. JOB CUBE is a revolutionary system that uses superheated steam instead of incineration to accelerate the thermal decomposition of waste, thereby restoring the original energy or raw material potential of the processed materials. We have established a technology to convert waste into "oil" and "charcoal." This system operates oxygen-free and air-pressure-free, minimizing waste and reducing operating costs while ensuring safety. System **Features**



This system is operated under oxygen-free conditions (oxygen concentration in the furnace: 1% or less) and under non-pressurized conditions (at or below 1 atm).





X1 Carbonaceous materials, inorganic substances, metals, etc. remain

Conventional Incinerators

The structure supplies the air necessary for combustion. When trash burns, oxygen in the air combines with some of the materials (carbon) to produce carbon dioxide.



The furnace is designed to thermally decompose waste by steam, without combustion. No greenhouse gases (CO2, dioxin, etc.) are generated since the waste is not burned and the furnace is oxygen-free.

Features of the Superheated Steam Pyrolysis Furnace

It treats waste not by combustion but by steam pyrolysis.

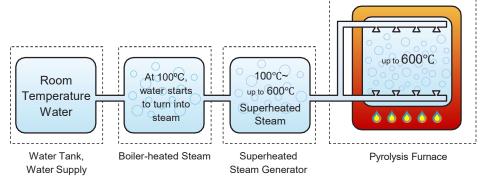
Superheated Steam

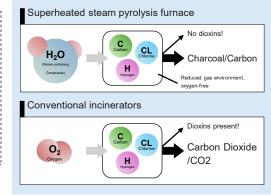
When water is boiled in a kettle, a clear area is seen between the spout of the kettle and the white steam. This is a gas called steam.

Further heating of the steam results in superheated steam above 100°C.

By using this superheated steam to heat the surface or interior of the loaded material, it is possible to vaporize components of the material, such as certain solid or resinous materials.

This is pyrolysis by superheated steam.



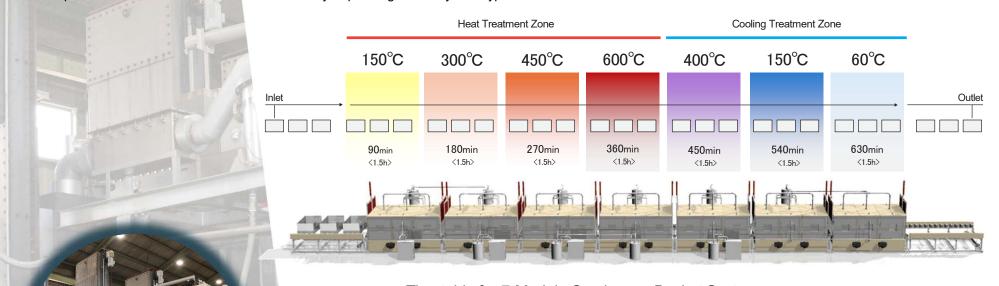




Modular Plant

Connection System

In the continuous type, the temperature can be set for each module (furnace), and the nature of the oil to be extracted (light oil, heavy oil, etc.) can be separated. Automatic operation conveys the loaded material from the inlet to the outlet. The use of buckets (*) makes it possible to efficiently perform loading operations and residue disposal. * The size and number of buckets vary depending on the system type.



Timetable for 7-Module Continuous Bucket System

Processing Time per Module: 7-Module System

ENT	1	2	3	4	5	6	7	OUT	Unloading Time
010									
020	010								
030	020	010							
030	030	020	010					Startup Loss	
010	030	030	020	010				(No	
060	010	030	030	020	010			Unloading)	
000	060	010	030	030	020	010			
080	000	060	010	0\$0	030	020	010		
090	080	000	060	010	030	030	020	010	0h
000	090	080	000	060	010	0\$0	030	020	
000	000	090	080	000	060	010	030	030	
000	000	000	090	080	000	060	010	030	
030	000	000	000	090	080	000	060	010	
040	030	000	000	000	090	080	000	060	6h
0190	040	030	000	000	000	090	080	000	
0:00	0190	040	030	000	000	0:00	090	080	
000	0:60	0150	0140	030	000	000	0:00	090	
0180	000	0:00	0190	040	030	000	000	000	12h
000	0180	000	0:60	0150	040	030	000	000	
0@0	000	0180	000	0:00	0150	040	030	000	
000	0@0	090	0180	000	0:00	0190	0140	030	
000	000	0@0	000	0180	000	0:00	0190	040	18h
030	020	000	0@0	000	0180	000	0160	060	
000	030	020	000	0@0	090	0180	000	060	
030	000	030	020	000	0@0	090	0180	000	
O26O	030	030	030	020	020	0@0	090	080	24h

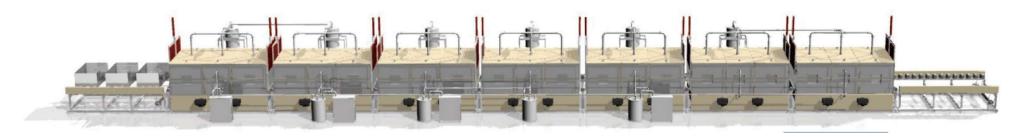


Series Connection Systems: Type S, Type L



JOB CUBE Type S, Connection Type

*Connection of 4 to 9 modules is supported

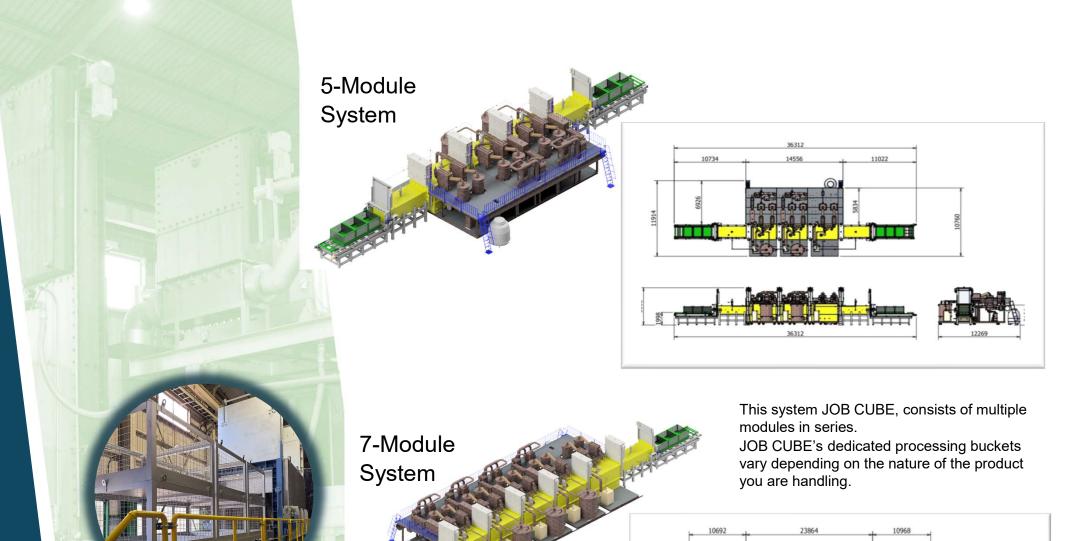


JOB CUBE Type L, Connection Type

* Connection of 4 to 9 modules is supported

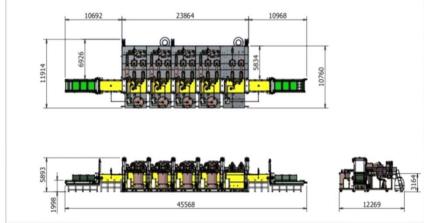
* The number of modules to connect can be changed according to the customer's site conditions or needs.

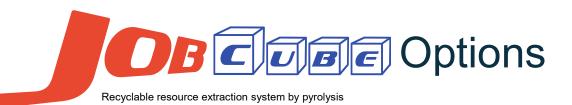
If you wish to use a system of a single furnace (batch), it can also be manufactured as a single furnace (batch system).



Connection Series / Scale

(L-Shape Standard Type)





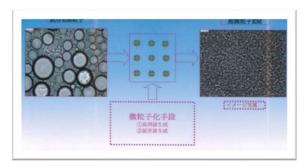


Hoists

A plate is press-bent into a U-shape and combined with another plate to form a box girder.

It is widely used as a girder for monorail- and double-rail-type hoists. *Designs can be customized to suit your work site.





60 ℓ ~600 ℓ/hour

FETmix

(Water Injection Device)

The extracted oil is mixed with water or wastewater suitable for emulsion fuel and used as fuel for burners, boilers, and generators.



TEQ E

100kw ~ 600kw / hour

Recyclable resource extraction system by pyrolysis



25kw ~ 60kw / hour

Generators

(Diesel Engines)

*Will be prepared upon request.



*Electricity generated in-house is efficiently "stored" to preserve precious energy. In emergencies, power can be supplied to hospitals and evacuation centers. It also supports both local industries and the general public. Reliable electricity can help save lives.

Energy Storage Devices

(Contribute to off-grid electrification)

From small to large energy storage devices, we provide tailored solutions based on your usage.

JOB CUBE options include hoists, generators (diesel engines), FETmix, and energy storage devices.



[Information from SHINKA Corporation]

If you would like to see our equipment and systems, please fill out the designated "Tour Request Form."

Currently, applications can be made via the URL below.

If you wish to request an experiment, please contact our representatives.

https://shinka.world/















https://shinka.world/

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