

**PyrolysisUnit environmentally friendly pyrolysis
equipment solution**

CONTENTS

01

ABOUT PYROLYSIS UNIT

02

WASTE TIRE PYROLYSIS PLANT

03

EQUIPMENT LIST AND QUOTATION

ABOUT PYROLYSISUNIT

1

Company introduction

The company is specialized in the production of waste rubber, waste oil and waste oil.

With the concept of "eliminating black-and-white garbage and benefiting future generations", the company actively promotes the management spirit of "people-oriented, focusing on personal cultivation; independent research and development, high efficiency and pragmatism" to meet customer requirements as the highest goal and pursue the combination of efficiency and development. I hope to cooperate with you in the near future.



Workshops



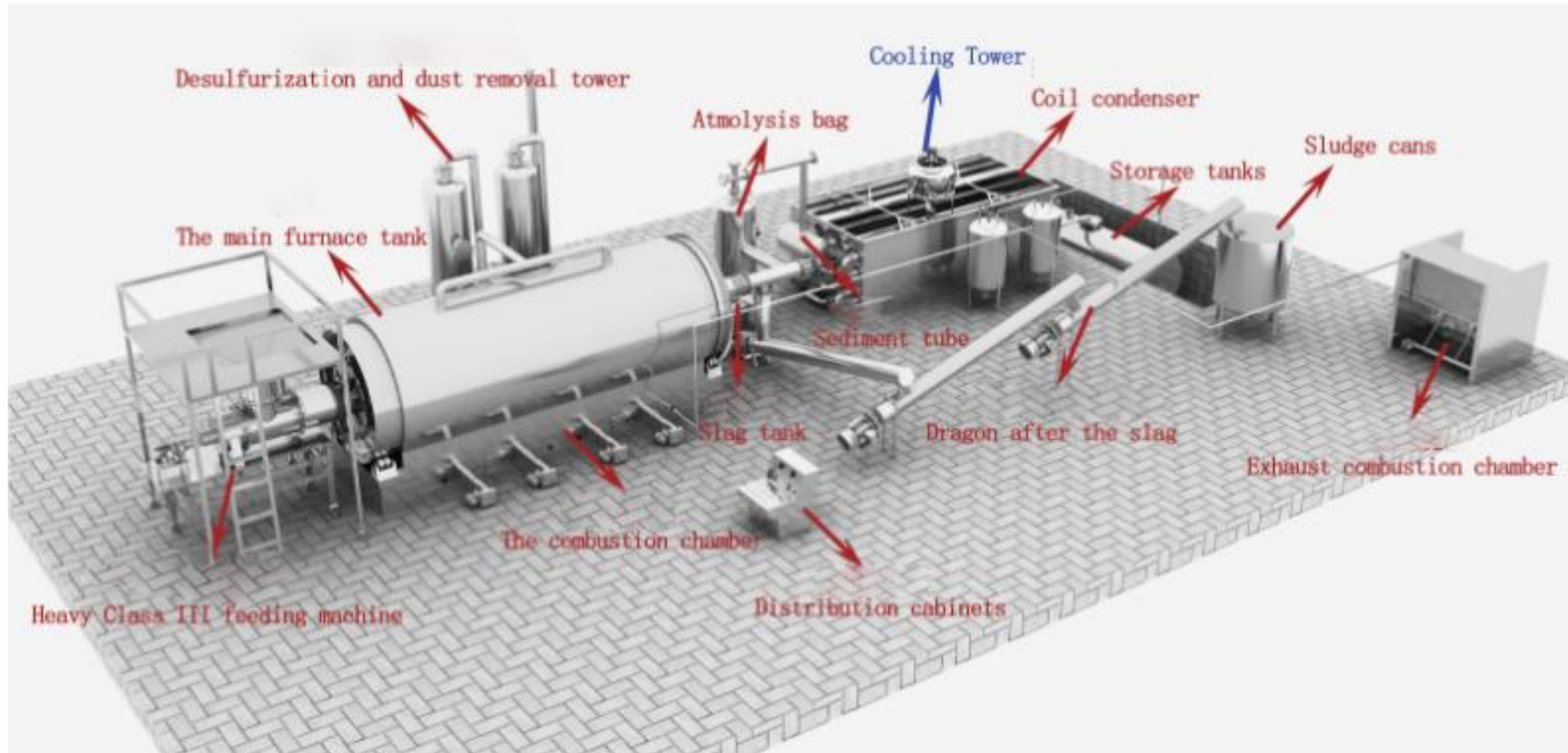
Scope of supply

- Waste tire, plastic, oil sludge pyrolysis plant
- Oil distillation and refining plant
- Medical waste recycling plant
- Project Design, Machine Manufacture, Engineering Service, Technology Support

WASTE RUBBER PYROLYSIS EQUIPMENT

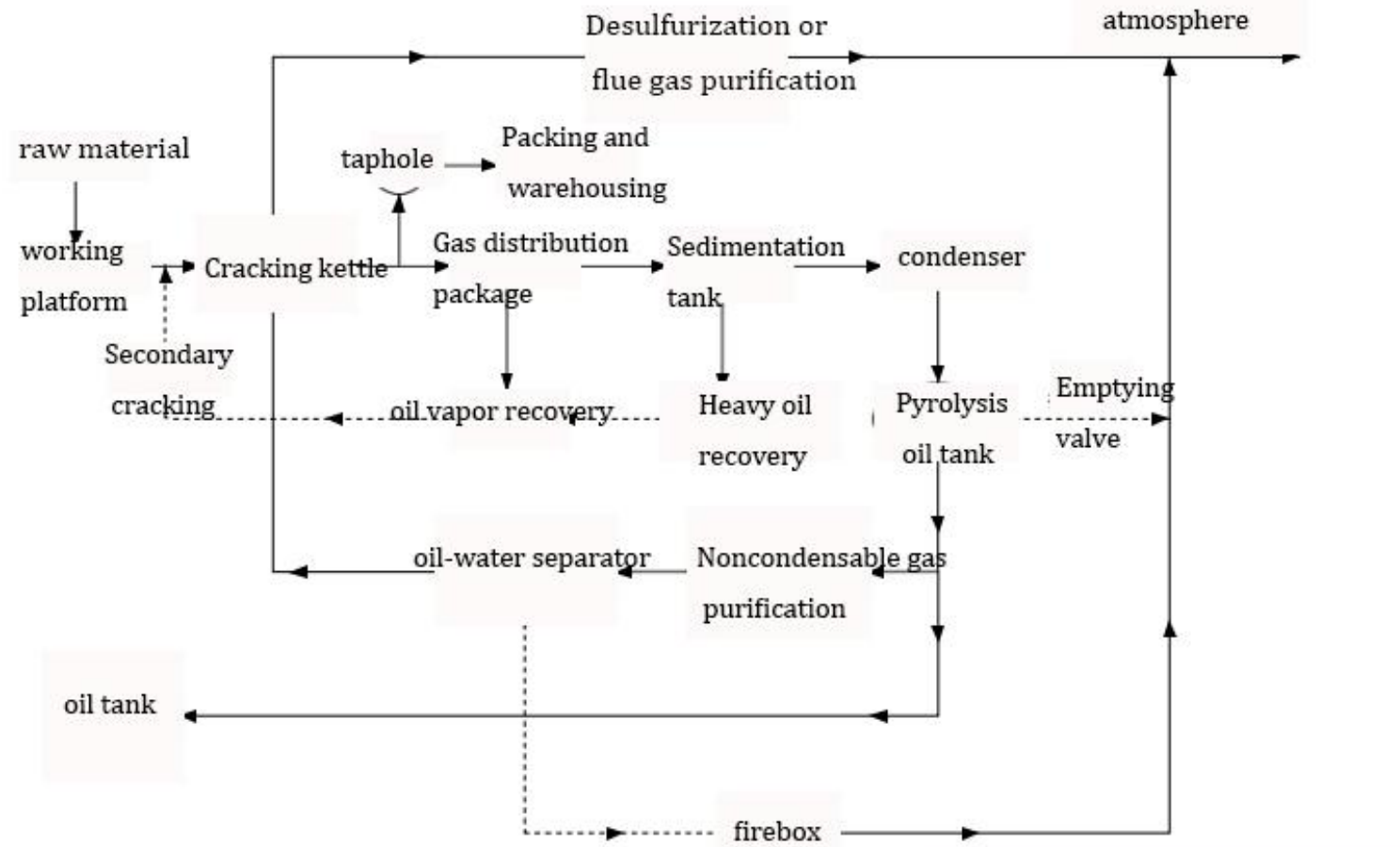
2

Flow chart and layout drawing



Flow chart and layout drawing

Process description:



Shangqiu Chongshang Environmental Protection Machinery Equipment Co., Ltd.

SRAW MATERIAL

- Waste tires
Untreated waste tires.
- Waste plastics
- Dried plastics PE, PP, etc.



Final products

Fuel oil 40%

The main product-fuel oil produced by our waste tire pyrolysis machine is widely used for industrial and commercial purposes.

With the heating value 10500Kcal/Kg (tire oil) or 9500Kcal/Kg (plastic oil), this fuel oil will be good heating fuel which can be applied for boiler factory, cement factory, glass factory and steel mill, etc.



Steel wire 15%

For batch processing type, all of the steel present in the tyre can be detached after the pyrolysis recycling process is completed.

Valuable steel wires are pressed and sold to steel and scrap dealers.



Carbon black 35%

Carbon black is used as raw material or main ingredient in many industries and the chemical structure of carbon black strengthens, lengthens the endurance, and improves the coloring features of the materials.

It is more price-efficient to be used as an ingredient in the industries listed:

1. Cement factory
2. Conveyor band
3. Carrier Bands
4. Hose and doormat



Successful installation case



Technical parameter

14

NO.	Items	Contents 内容
1	Equipment type	PU-7
2	Raw material	Waste rubber, waste tires, waste plastic
3	Structural form	Horizontal rotation
4	24-hour Capacity	10-12 ton
5	Oil yield	40%
6	Operating pressure	Normal
7	Material of Reactor	Q345R
8	Thickness of Reactor	16 mm
9	Rotate speed of Reactor	0.25 turn/minute
10	Total power	20KW
11	Mode of cooling	Water cooling
12	Cooling area of condensor	80 m ²
13	Kind of transmission	External gear drive
14	Noise dB(A)	≤85
15	Size of Reactor(D×L)	2600×7700(43m ³)
16	Working form	Continuous operation
17	Delivery time	15 days
18	Weight	35T

Consumption

No.	Items	Consumption
1	Power	20kw for average
2	Water	less than 100m ³ /hour in total (the water can be recirculated and the more the water flow, the better the cooling down)
3	Fuel for heating	20KG oil/30CBM natural gas/ around 30kg coal for processing one ton tyre for average.
3	Labor	2-3 per shift, three shiftes per day
4	Space	22m*7m*8m (width*length*height) 22m*7m*8m





FEATURES OF THE PROP




- We adopt the latest heating method which take advantages of direct heating and indirect heating, which can save 20% fuel and operate in more safer condition and have longer lifetime of reactor.









- The equipment has optional automatic feeding and slag discharging device, which makes feeding and slag discharging more convenient and efficient, and improves work efficiency. The pyrolysis process does not need to remove the sediment, moisture, iron wire and other impurities in the raw materials, and can directly load the organic wastes such as waste tires, rubber, waste plastics into the pyrolysis processor. Carbon black and steel wire with good quality can be obtained by multistage separator and cooling system after the whole production process. A part of the waste gas and smoke from the cracking processor is used to act on the multi-functional distillation column by using the waste heat through a special pipeline, and then enters the countercurrent wet flue gas treatment device, which is discharged after reaching the standard. A part of the low-carbon chain non condensable gas enters the combustible gas recovery system through the safety water seal, and is burned as the fuel of the cracking furnace.




Equipment list

order	name	quantity	unit	specifications and models	weight	photo
1	Main cracking furnace	1	set	L7700*B3000*H3200	19000kg	
2	Chamber of a stove or furnace	1	set	L7700*B2300*H700	5000kg	
3	condenser	1	set	L6600*B2800*H2000	5000kg	
4	Water seal	1	set	Φ1500*H1800	200kg	

5	Damping tank	1	set	Φ500*H750	100kg	
6	device attachment flange	1	set	Φ159/219/325/425/530	400kg	
7	Electric cabinet	1	set	L1000*B800*H1200	50kg	

8	Fan		platform	0.5m ³	100kg	
9	Oil tank	1	set	Φ1500*L3750	400kg	
10	air pocket	1	set	Φ1500*L1800		

11	Pipe fitting	several	root	Φ50/159/219/325	1500kg	
12	Water pump	2	platform	2.2kw/3.0kw	270kg	
13	Oil pump	2	platform	5.5kw		

14	Elbows, connections	several	set		50kg	
15	Flange, valve	several	set		1000kg	
16	feeder-conveyer	1	set	全自动液压式 Automatic hydraulic type	4500kg	

Quoted Price

MODEL	SIZE OF EACTOR	CAPACITY	LAND REQUIRED	QUANTITY (SET)	UNIT PRICE
PU-12J Waste tyre PyrolysisPlant	D2600*L7700	10-12T/D	30m*7m	1	
feeder-conveyer	80T thrust	-	4m*6m	1	

REMARKS

1. The price is for FOB Lianyungang.
2. Delivery time- It will be 60 days after we receive the deposit.
3. Loading: FR frame and HQ container.
4. Warranty- The warranty period for reactor and other main parts except spare parts is 1 year..

CONTACT US

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