

16 T semi type waste tyre pyrolysis plant

Performance Feature

- Integral design, no need to precast foundation, quick and easy installation.
- Airtight high temperature material feed, saving heating time and reduce the temperature loss.
- Adopt multilevel cooling design to get more fuel oil.
- Hot air heating, unique heat cycle design, heated more evenly, reducing the operating cost.
- Airtight high temperature slag, no dust, clean and environmentally friendly.

Technological Process

- Broken tyre transported to feeder firstly by conveyor, then to reactor.
- 2. Oil and gas from pyrolysis go into gas-liquid separating tower and separate, and enter into condenser to liquify , to get fuel oil, then enter into oil storage tank.
- 3. Coarse carbon black and steel wire from pyrolysis are output by automatic slag remover, transported to carbon black processing system by cooling hoist. Separate steel wire and carbon black through the magnetic separator, to get industrial carbon black and steel wire.
- 4. Shatter carbon black, to get industrial carbon black after deeply processing. Steel wire compressed into a piece of scrap processing.
- 5. Flammable gas enter into waste gas process tank to desulfur. Then extracted by vacuum pump, enter into water sealed tank and send to hot air furnace to burn.

Main Performance Parameter

Item	16 T semi-continuous waste tyre pyrolysis plant
Type	XFLJ--16
Capacity	16T/D
Operating temperature	≤650°
Material	Q345R
Fuel consumption in operation	200kg
Heating way	Hot air circulation heating
Tire requirement	Tyre piece ≤50mm
Working pressure	Normal pressure
Methods of flame retardant	Steam Blow
Total power	160 kw
Running power	75 kw/h
Boundary dimension	7300mm(L) × 2400mm(W) × 3100mm(H) × 2

Floor space	25000 mm ×11500 mm
The highest install elevation	5000 mm
Labor	3-4 people
Working life	5-7 year

Remark: This parameter is just for reference. Size change caused by design improvement will not inform customers specially. Please refer to documents enclosed with products.

Product Recovery Rate

1. Oil: 45-50%
2. Carbon black: 32-36%
3. Steel wire: 2-14%
4. Syn gas 3-5%