

Whole Tyre Pyrolysis Plant

Performance Feature

- Whole tyre feed, no need to break, which reduces cost.
Adopt multilevel cooling circulation to get more fuel oil.
- Discharge process through pulse dust removal processing, no dust emissions.
- Easy operation, high efficiency and 2-3 people to operate.
- Plant adopts fully automatic submerged arc welding process, through x-ray detection, to improve the security of plant.

Technological Process

- Tyre transported to reactor by conveyor to pyrolyze.
- 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.
- Coarse carbon black and steel wire from pyrolysis are output by automatic slag remover, transported to carbon black processing system by cooling h oist. Separate steel wire and carbon black through the magnetic separator,to get industrial carbon black and steel wire.
- Steel wire pulled out by winch, compressed into pieces, and do steel scrap process.
- Flammable gas enter into waste gas tank and processed. Then extracted by vacuum pump, enter into water sealed tank and send to hot air furnace to burn.

Main Performance Parameter

Item	10 T batch type waste tyre pyrolysis plant
Type	XFLJ--10
Capacity	10T/D
Operating temperature	$\leq 650^\circ$
Material	Q345R
Fuel consumption in operation	200 kg
Heating way	Hot air circulation heating
Tire requirement	Whole tire $\leq 1200\text{mm}$
Working pressure	Normal pressure
Methods of flame retardant	Steam Blow
Total power	65 kw
Running power	30 kw/h

Boundary dimension	7300mm(L) × 2400mm(W) × 3100mm(H)
Floor space	25000 mm × 5500 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%