

# Fully Continuous Waste Tyre Pyrolysis Plant

## Performance Feature

- Internal screw rotatory pyrolysis. No coking.
- Hot melt processing in advance, process generated HCL specially, more environmental protection.
- Adopt multilevel cooling design, to get more fuel oil.
- Hot air heat, cooperated with low temperature pyrolysis catalyst, extend working life of plant.
- Enclosed production all the way, no leakage and no dust loss, environmental protection.
- Exhaust gas multistage processed, gas discharge reach European Standard level.

## Technological Process

- Waste plastic and medical waste sent into fuel preheater by conveyor to melt. Process generated HCL specially.
- Melted fuel continuously sent into reactor, and finish pyrolysis under low pressured catalyst.
- After generated gas during pyrolysis separates in gas-liquid separator, liquify in condenser and get fuel oil. After fixed bed second catalyst and dewaxing , can get the fuel oil with high quality.
- Carbon residue after pyrolysis output continuously by cooling conveyor, and made to be carbon rod as fuel.
- Flammable gas goes into exhaust gas treatment tank to desulfur, then extracted by vacuum pump and enter into water sealed tank, sent to hot air stove to burn.

## Main Performance Parameter

Item	15 T fully continuous waste tyre pyrolysis plant
Type	XFLJ--15
Capacity	15T/D
Operating temperature	≤650°
Material	Q345R
Fuel consumption in start	300 kg
Fuel consumption in operation	0 (the syn gas from the system be burnt by the system itself)
Heating way	Hot air circulation heating
Tire requirement	Tyre piece ≤20mm
Working pressure	Normal pressure
Methods of flame retardant	Nitrogen Blow
Total power	90 kw
Running power	80 kw/h
Boundary dimension	14000mm(L) × 2400mm(W) × 4000mm(H)
Floor space	36000 mm × 3500 mm
The highest install elevation	7000 mm
Labor	1-2 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

Fuel oil: 60-85%

Carbon residue: 10-30%

Flammable gas: 5-10%