

REVOLUTIONIZING WASTE TYRE RECYCLING

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WASTE TYRES CONTINUOUS PYROLYSIS PLANT (SCREW TYPE 3 REACTOR)

The Whole Project Is Composed Of the Whole Project Is Composed Of 30 TPD Continuous Waste Tire Pyrolysis Plant:



RAW MATERIALS :

Waste Tire Chips (20 Mash To 25 MM (Steel Free Wire)

FINAL PRODUCT :

Tire Pyrolysis Oil, Carbon Black Powder, Pyro Gas

PHYSICAL PARAMETERS :

Raw Material : Waste Tire Chips 5 T O 25 MM (Steel Free Tire)

Capacity : In Put Material 30 Tons Per Day

Status Of Slag : Carbon And Flash

Area : 20000 Square Meter

PRODUCTION :

Tire Pyrolysis Oil : 40 % to 42 %,

Carbon Black Powder : 30 % to 33 %,

Pyro Gas (Use In Process)

CONSUMING DATA :

Fuel : Tire Pyrolysis Oil , Uncondensed Gas

Daily Input Capacity : 30 Ton per day

Cooling Water (Evaporating Loss) : 2000 Ltr per day

De-dusting Water (Consumption Loss) : 2000 Ltr per day

Pyro = Heat. Lysis = Break Down. Pyrolysis Is Chemical Reaction. This Reaction Involves Molecular Breakdown Of Larger Molecules Into Smaller Molecules In Presence Of Heat. Pyrolysis Is Also Known As Thermal Cracking,, Thermalizes, DE polymerization, Etc. At Any Given Temperature The Molecule Is In Vibrating Stage. This Is Called Molecular Vibration. During Pyrolysis The Object's Molecules Are Subjected To Very High Temperatures Leading To Very High Molecular Vibrations. At These High Molecular Vibrations, Every Molecule In The Object Is Stretched And Shaken To Such An Extent That Molecules Starts Breaking Down Into Smaller Molecules. This Is Pyrolysis. Simplest Example Of Pyrolysis Is Food Cooking. When You Cook Food The Temperature Of Food Increases Leading To Higher Molecular Vibrations And Breakdown Of Larger Complex Molecules Into Smaller And Simple Molecules. After Cooking Larger Food Molecules Are Pyrolysis Into Smaller In Simpler Molecules Which Are Easy To Digest. This Technology Is A Well-proven, Well-demonstrated Commercially Viable Technology, Which Is Currently Utilized In Industrial Plants Worldwide.

We, FABHIND Manufacture The Continuous Waste Tire Recycling Project, Semi Continuous Plant And Batch Type Tire Pyrolysis Plant Equipment That Can Process The Waste Tires And Get The Crude Oil. At The Same Time It Also Can Get The Carbon Black, Flammable Gas And So On. It Can Not Only Solve The Problem Of The Environmental Pollution, But Also The Question Of The Shortage Of The Energy. Then It Can Help Us Create The Big Economic Profit.



**MODEL - FAB-30
(SCREW 3 REACTOR)**

TECHNICAL DATA :

NO.	ITEM	SPECIFICATION	
1	Model	Waste Tyres / Chips Continuous Plant	FAB - 30
2	Capacity	Tons Per Day	30 TPD
3	Power	Total Power	100 HP
4	Working Type	Continuous	
5	Reactor Design	Continuous Reactor Vertical Type	3 Reactor
6	Rotating	Internal Screw Type Rotating	3 Reactor
7	Cooling System	Recycled Waste Cooling	
8	Reactor Material	BQ 516 - 70 Grade & SS 304	
9	Heating Method	Direct Hot Air Heating	
10	Heating Fuel	Fuel Oil & Gas	
11	Feedstock	Waste Tyres / Chips 5 to 25 MM	
12	Output	Fuel Oil, Carbon Black	

ADVANTAGES OF FAB CONTINUOUS PYROLYSIS PLANT :

- Our Reactor Has 360 Degree Outside Rotating System Which Allows It To Heat Proper Way So It Has Long Life.
- Spiral Flats Are Designed In To The Reactor Which Helps Running The Material By Its Inner Wall. The Raw Material Direct Contacted With The Heat Transfer Surface And Received Immediate Heat And Evenly Distributed.
- The Reactor And Feeder System Adopts Frequency Drive (VFD) To Adjust The Retention Time Of Raw Material In The Reactor According To The Pyrolysis. It Can Decompose In Minimum Time To Increase High Oil Yield.
- Reactor Can Be Loaded By Steel Wire Free Tire Chips And It Can Also Separate The Carbon Black From Hair Steel Wires At The Time Of Carbon Discharge. It Has Hair Steel In Wires It Can Be Collected By Hair Steel Magnet Separator Machine. Hence It Will Be Collected Directly To The Carbon Bags If It Doesn't Have Hair Steel In It.
- Gas & Oil Burner Can Be Used For Extra Flue Uncondensed Gas For Secondary Heating Process Of The Pyrolysis Reactor, Which Will Reduce Production Cost And Customer Revenue. The Flue Gas After Combustion Is Treated By Dual Wash Scrubber System As Per Environment Standards. It Is Using Evaporated Flue Gas For Heating Process Of Reactor, Where We Recycle Extra Heat For The Process.



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KEY FEATURES :

1. Environmental-friendly
2. Security
3. High Profit
4. High Oil Out Put

Fully Automatic With Low Labor Cost

Our Continuous Waste Tire Pyrolysis Plant Is Controlled By Plc System With Automatic Feeding And Discharge System, Which Only Need 1-2 Worker For Operating The Plc Or Computer Is Ok.

Fully Pyrolysis For High Oil Output

Our Continuous Waste Tire Pyrolysis Plant Adopts Multiple Reactor Design Which Can Make Fully Pyrolysis Of Waste Tires, Thus To Get High Oil Output.

Big Capacity

Also Due To Continuous Feeding And Discharge System, And Unique Multiple Reactor Design, Our Fully Automatic Continuous Waste Tire Pyrolysis Plant Can Process At Least 10 Tons Waste Tires Per Day, Up To 100 TPD

Internal Rotating for Continuous Operation

For External Rotating System, You Have To Change The Sealing Material Every Three Days, Thus Cannot Achieve The Real Sense Of Continuous Process. But Our Continuous Waste Tire Pyrolysis Reactor Adopts Internal Rotating Method, Which No Need To Worry About The Sealing Of The External Rotating System.

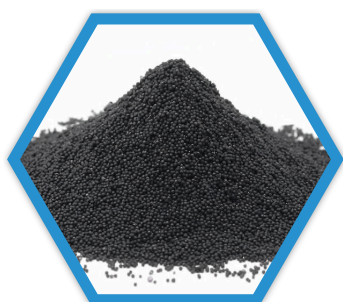
Continuous Working Save Time and Energy

Long Working Life During The Continuous Pyrolysis Process, Reactor Heating Is By Indirect Hot Air Heating, Which Will Not Damage Reactor So Much, Thus To Keep Long Usage Life Of The Reactors. And Since The Hard Steel Wire Already Removed From Waste Tires Before Pyrolysis Process, Thus No Damage For The Reactor. Technical Data of Fully Continuous Waste Tire Pyrolysis Plant

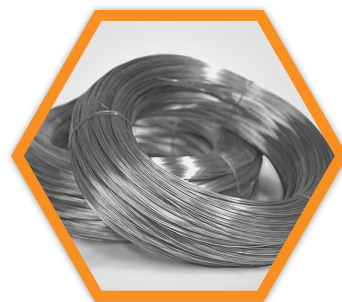
APPLICATION :



Fuel Oil



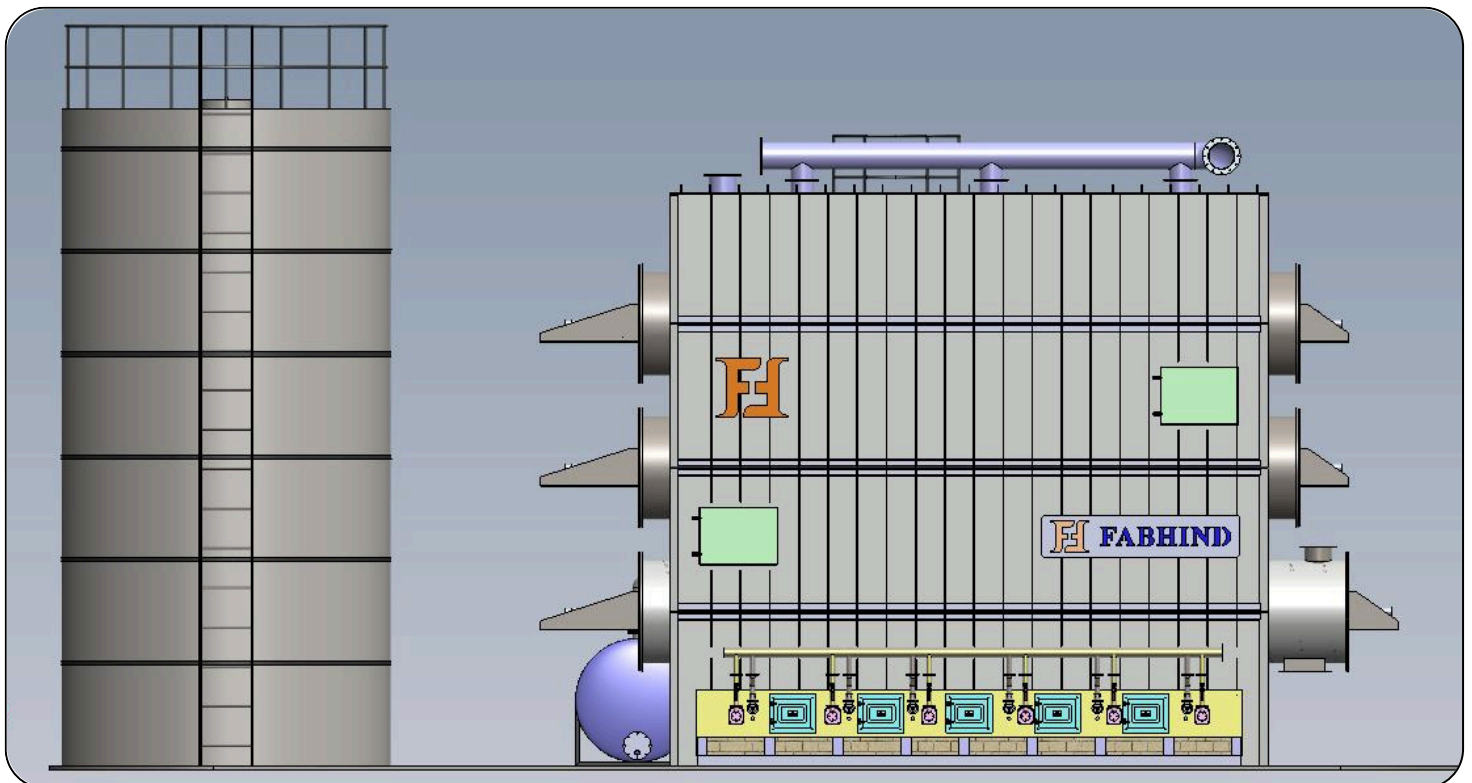
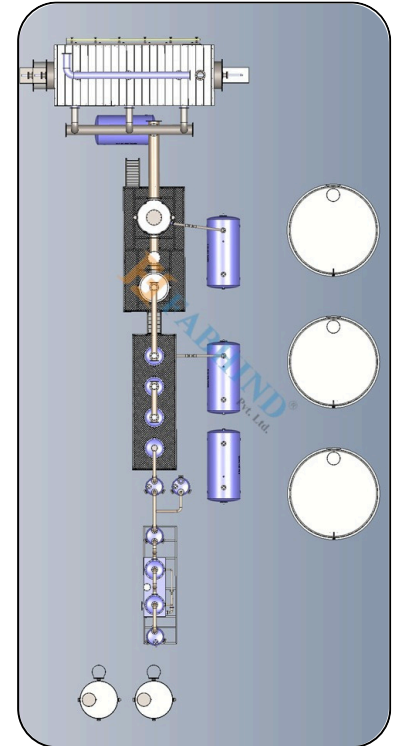
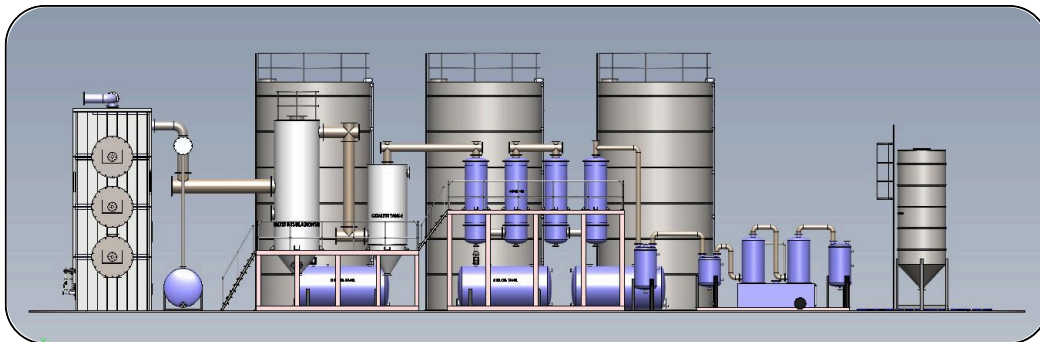
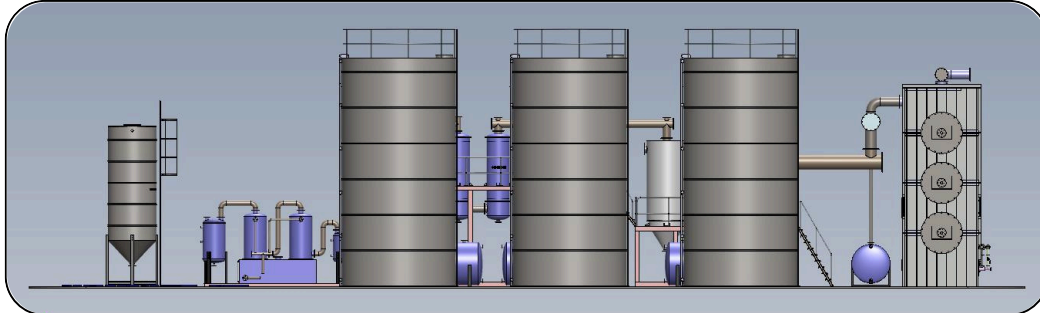
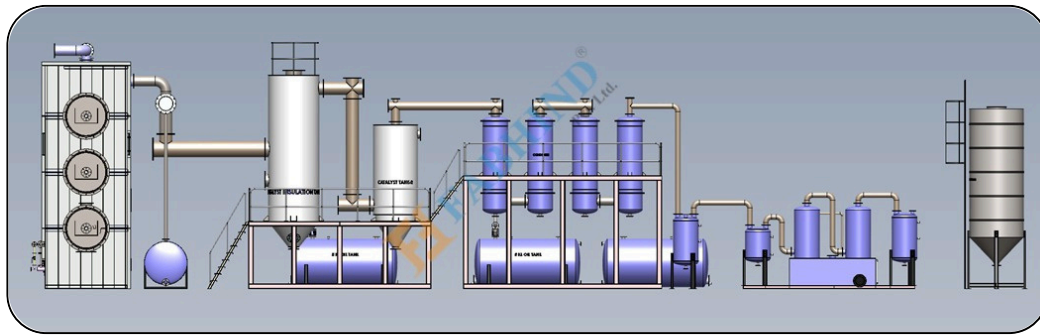
Carbon Black



Steel Wire



PLANT LAYOUT:





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