

We thrive to satisfy our customers

SURAJ
FAB TECH

The Company Serves People With

☑ Utility ☑ Ease ☑ Effectiveness

www.surajfabtech.in
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OUR WORKSHOP

















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INTRODUCTION

Suraj Fab tech proudly boasts a legacy of over 15 years, marked by an unwavering commitment to craftsmanship and quality in the industrial sector. Under the astute leadership of Director Mr. Babalu Shah, we have continually evolved as a beacon of innovation and precision, setting benchmarks within the industry. Our journey is characterized by a relentless pursuit of excellence, consistently delivering industrial solutions that redefine standards. With 2 units strategically located in Ahmedabad, we stand poised to meet the diverse needs of our clients with expertise and reliability.

Our Aim: To drive continuous improvement and technological advancement in industrial manufacturing.

ABOUT US

Suraj Fab tech is a leading manufacturer of industrial machinery, committed to delivering innovative solutions that empower industries to thrive. Located strategically in Ahmedabad, Gujarat, India, we boast two state-of-the-art manufacturing plants that serve as the bedrock of our operations.

With expertise spanning diverse industrial sectors, our product portfolio includes robust pulverizer, efficient industrial dryers, precision-engineered screening machines, waste tyre recycling plants, spice grinding machines, ball mills, chemical vessels, silos, and advanced activated carbon plants. Each product reflects our unwavering dedication to quality and innovation.

ABOUT TYRE PYROLYSIS PLANT

A tyre pyrolysis plant is an innovative industrial facility designed to address the environmental challenges posed by waste tyres while also generating valuable resources. Operating on the principle of pyrolysis, these plants utilize high temperatures in the absence of oxygen to break down waste tyres into useful products.

The process begins with feeding waste tyres into the pyrolysis reactor of the plant, where they are heated to temperatures ranging from 300 to 900 degrees Celsius. This heat causes the tyres to undergo pyrolysis, a chemical process in which the organic materials within the tyres break down into smaller molecules. As a result, the tyres are transformed into three main products: carbon black, pyrolysis oil, and combustible gases.



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ADVANTAGE OF PYROLYSIS PLANT

Premium Pyrolysis Oil
Produces high-quality pyrolysis oil, ensuring superior performance.

Green Technology
Utilizes eco-friendly technology, minimizing environmental impact.

Automatic Safety Features
Equipped with safety valves for enhanced operational safety.

Energy Self-Sufficient
Operates without external energy sources, optimizing efficiency.

Resource Recovery
Recovers energy and value from waste tyres, maximizing utilization.

No External Fuel Needed
Eliminates external fuel requirement, reducing costs.

Land Pollution Reduction
Contributes to reducing land pollution by recycling tyres efficiently.

Eco-Friendly Recycling
Promotes eco-friendly tyre recycling practices.

Commercial Viability
Offers a financially viable tyre recycling solution.

Alternative to LDO/Furnace Oil
Provides a cleaner and cost-effective fuel option.

REUSE

REDUCE

RECYCLE



CONCISE OVERVIEW OF ALL MODELS

Description	Reactor Type	Process Type	Model No.	Automation Type	Hybrid	Remarks
10 Ton	Capsule	Batch Type	RC10	Manual	Yes	When necessary, this machine can be utilized in a semi-continuous manner by incorporating additional machinery in the future
12 Ton	Capsule	Batch Type	RC12	Manual	Yes	
16 Ton	Capsule	Batch Type	RC16	Manual	Yes	
10 Ton	Full Door	Batch Type	RF10	Manual	Yes	
12 Ton	Full Door	Batch Type	RF12	Manual	Yes	
16 Ton	Full Door	Batch Type	RF16	Manual	Yes	
12 Ton	Capsule	Semi-Continues	SRC12	Semi-Automatic	Yes	This machine can also be used in batch mode when required
16 Ton	Capsule	Semi-Continues	SRC16	Semi-Automatic	Yes	
12 Ton	Full Door	Semi-Continues	SRF12	Semi-Automatic	Yes	
16 Ton	Full Door	Semi-Continues	SRF16	Semi-Automatic	Yes	

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TECHNICAL SPECIFICATIONS

Type	Batch Type RC/RF			Semi-Auto	
Capacity (in ton)	10	12	16	12	15
Feeding Capacity (in ton)	9 to 10	10 to 12	16	10 to 12	13.5 to 15
Cooling area of condenser	51 Sq.Meter	77 Sq. Meter	100 Sq. Meter	77 Sq. Meter	100 Sq. Meter
Total power	25KW/35HP	33KW/45HP	37KW/50HP	50KW/68HP	60KW/80HP
Lend Requirement	10 to 12K Sq. Feet.	10 to 12K Sq. Feet	10 to 12K Sq. Feet	12K to 15K Sq. Feet	12K to 15K Sq. Feet
Structure Form	Horizontal Rotation				
Raw material	Nylon / Radial Tyre				
Production Cycle	24 Hrs				
Rotate speed	0.3 to 0.5/minute				
Reactor Material	16mm SS BQ Plate SA516, GR.70				
Mode of Water cooling	Circular cooling				
Noise dB(A)	≤75 to 85				
Delivery time	30 to 45 Working Days				
Installation Time	15 To 20 Days				
Training Time	3 Days / 3 Batch				

PRODUCTS YIELDED & THEIR APPLICATIONS

Carbon Black



- Cement Industries
- Ink Industries
- Rubber Industries
- Carbon briquetting Plant
- New tyre manufacturing
- Rubber runway
- shoe sole

30% to 35%

Fuel oil



- Furnace Industries
- Rolling Industries
- Casting Industries
- Road construction industries
- Crude oil distillation plant

38% to 52%

Steel wire



- Sell to steel scrap industries
- Rolling Mills

10% to 15%

Gases



- Used as a fuel in the same plant for heating purpose
- Store in Rubber Gas Balloon & use in next process for heating.

10% to 12%



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ACTIVATED CARBON PLANT



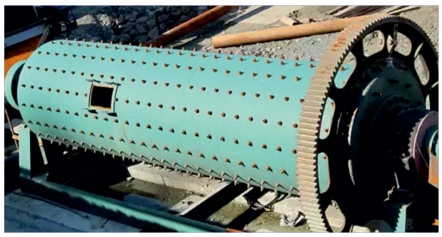


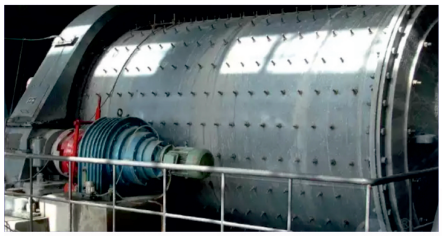
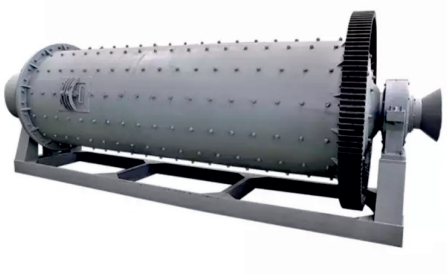
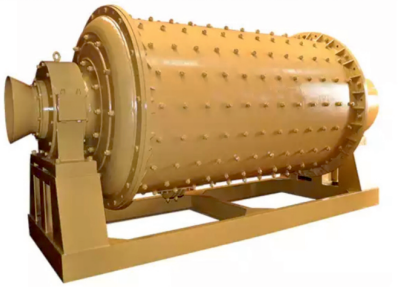






CONTINUOUS BALL MILL



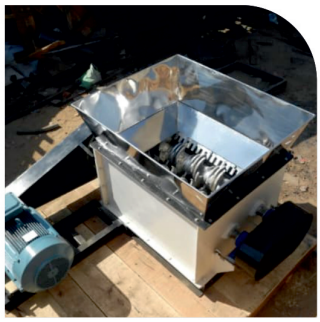
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RIBBON BLANDER






SHREDDER MACHINE



IMPACT PULVERIZER





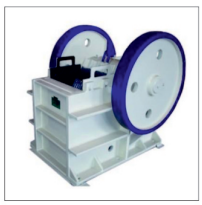
HAMMER MILL






SCREW CONVEYOR


SCREEN PULVERIZER


JAW CRUSHER


BELT CONVEYER

SURAJ FAB TECH

An ISO 9001:2015 Certified Co.



The **Quality** You Expect, The **Service** You Deserve!

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