

★ LEADING MANUFACTURERS OF CONTINUOUS TYRE PYROLYSIS PLANT ★



PEAK PYRO

— ENERGY PVT LTD —
CONTINUOUS TYRE PYROLYSIS

PARTNER WITH YOGHAAN VENTURES

We are
a manufacturer of
Continuous Tyre Pyrolysis
Plants, specializing in advanced 24
TPD continuous pyrolysis technology for
the tyre recycling industry. Based in Beawar,
Rajasthan, in partnership with Yoghaan Ventures,
Tamil Nadu, we deliver complete turnkey plant
solutions. Backed by strong manufacturing
capabilities, technical expertise, and a dedicated
team, we provide reliable technology, seamless
execution, and dependable after-sales support for
long-term success.





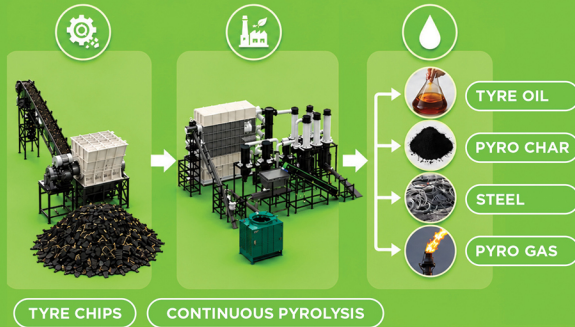
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PROGRESS IS THE ASSURANCE OF TOMORROW

ABOUT US

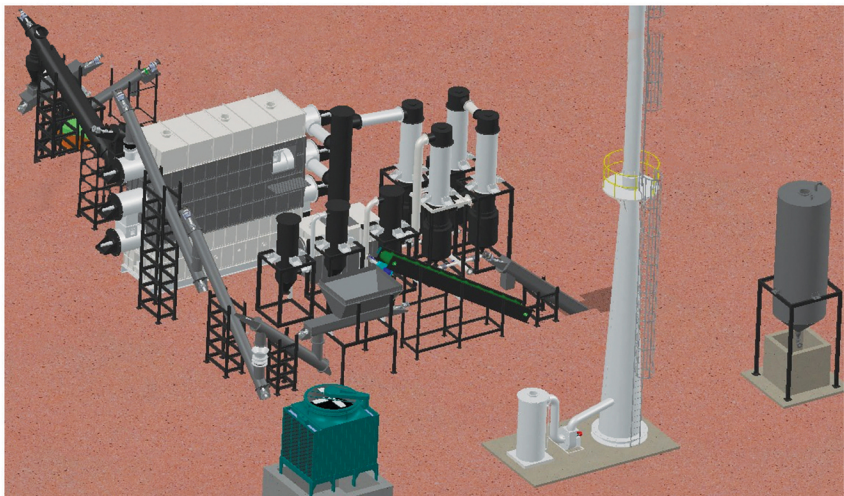
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CONTINUOUS TYRE PYROLYSIS TECHNOLOGY



OUR WORKING CONTINUOUS TYRE PYROLYSIS PLANT

Since 2020



Its in an eco-environmental friendly manner. The plant sets a clean working environment providing an easy system for the staff running the machine all day. This is an indigenously tested and proven technology constructed with robust mechanism to make the 24x7 operation reliable.

GS-24

This model is an advanced automated continuous tyre pyrolysis machine

Designed to process 1000 kgs per hour of steel free tyre rubber chips



APPLICATIONS

The same machine will process the following other raw material sources with different capacities:





INPUT FORM	KG/ HOUR (TON/DAY)	MATERIAL
	1000 KGS/HR (24 TONS PER DAY)	RUBBER TYRES CHIPS (15-25 MM)
	600 KGS/HR (14 TONS PER DAY)	MUNICIPAL SOLID WASTE
	500 KGS/HR (12 TONS PER DAY)	GENERAL NONRECYCLABLE PLASTIC WASTE
	750 KGS/HR (18 TONS PER DAY)	BIOMASS CROP WASTE
	800 KGS/HR (20 TONS PER DAY)	COCONUT SHELL

NOTE :The raw material should be less than 30mm size in shredded format, free from steel & foreign materials and also free from moisture. The maximum moisture content allowed is 5% only.

TECHNICAL SPECIFICATIONS

REACTOR SIZE	900 MM DIA , 8 METER LENGTH – 3 NOS
CAPACITY	1000 KG/HOUR – 24 TONS PER DAY
REACTOR THICKNESS	16MM / 12.5 MM FOR SS REACTOR
REACTOR MOC	SA106 GRADE B – 2 NOS AND SS 316 –1 NO.
REACTOR TYPE	STATIONARY, INTERNAL ROTATING
COOLING AREA	60 SQ. METERS
COOLING TOWER	150 TR
DAY OIL TANK CAPACITY	6000 LITERS
CHIMNEY	100 FT WITH WATER SCRUBBER
PLC AND CONTROLS	DELTA MAKE
ELECTRICAL CONTROLS	SIEMENS/ L&T
MOTORS	SIEMENS/ CROMPTON GREAVES
GEAR BOXES	DURO DRIVE MAKE- PLANETORY TYPE
BEARINGS	SKF
SPACE OCCUPIED (LX W X H)	15 X 20 X 7 (IN METERS)
POWER CONSUMPTION	100 KW (100 H.P)
STANDBY GENERATOR REQUIRED	125 KVA
TOTAL WEIGHT OF MACHINE	90 TONS (Approx)
INITIAL FUEL CONSUMPTION	120 - 150 KGS OF LPG / 200 LITRES OF DIESEL
NITROGEN GENERATOR	7NM3/HOUR CAPACITY- SONITECH MAKE.
RAW MATERIAL FEEDING HOPPER	3 TONS HOLDING CAPACITY, AUTO FEEDER
PNEUMATICS	JANATICS / SPAC
BENDS AND FITTINGS	CLASS B.16.9 STANDARD
FLANGES USED	STANDARD CLASS 150 SPEC
HEATING EQUIPMENTS	OXILON MAKE

OUTPUT PRODUCT SPECIFICATIONS

IMAGE	MATERIAL	YIELD	SPECIFICATION
	TYRE PYROLYSIS OIL / FUEL OIL	41 - 43 % IN KGS	DENSITY - 0.90 - 0.92 KG/CM3 ENERGY - 9800 - 10500 KCAL/KG
	TYRE PYROLYSIS CARBON / CHAR	40 - 41% IN KGS	DENSITY - 700-800 KG/M3 ENERGY- 6000-6800 KCAL/KG
	LEFT OVER STEEL IN RAW MATERIAL TYRE CHIPS	2 - 3 % IN KG	DENSITY - 8.2 KG/M3
	NON-CONDENSED PYRO GAS	15 - 16% IN M3	DENSITY - 1.2 KG/M3 ENERGY- 6800-7000 KCAL/M3

FEATURES

- Internal rotating reactor system with specialized fins arrangements to move and mix the raw materials well to have a perfect heat transfer around the material surface.
- The life of boiler grade reactor will be for 5 years and the stainless steel reactor will be for 7 years, subject to conditions applied **
- Double sealing arrangements provided in the raw material feeding and carbon discharge ends to ensure the air locked atmosphere in the reactor.
- Automatic temperature monitoring system with high temperature cut off and auto ON/OFF control system for the burners.
- Highly efficient insulation system for the reactor furnace box to maintain the temperature uniformly in all the areas.
- Continuous feeding of raw material from hopper and continuous discharge of hot carbon in cooling conveyors happen simultaneously.
- The temperature of the produced carbon is less than 40 degree Celsius and the same will be directly packed in the jumbo bags after screening.
- Total process is controlled by PLC automation and process starts in click of a button after reaching the required initial temperature.
- Machine works in less than the atmospheric pressure, in a rough vacuum condition. This leads to a good yield and quality oil. The residual oil content in carbon is also very minimal which leads to easy processing of carbon to the RECOVERED CARBONBLACK (RCB) value addition.
- Machine is equipped with required safety sensor both electrically and thermally.
- Machine can run continuously 24x7 with minimal maintenance needed.
- Less power consumption. The GS-24 model connected power is 100 KW and consumes maximum of 40-45KVA in running.
- Mechanical spares are easily available across INDIA, and company owned spares will be readily dispatched within 3-4 working days of order.
- THE GS-24 MACHINE COMPLIES THE LATEST SOP OF CENTRAL POLLUTION CONTROL BOARD PUBLISHED ON JANUARY - 2024



SUPPLIES AND SCOPES

EQUIPMENT SUPPLIED	QUANTITY
REACTORS	3 NOS
GROUND LEVEL TO HOPPER FEEDING CONVEYOR	1 NOS
HOPPER FEEDER	1 NOS
FEEDING CONVEYOR TO REACTOR	2 NOS
CARBON COOLER CONVEYOR	3 NOS
RE HEATING SYSTEM	1 NOS
CONDENSOR	4 NOS
OIL COLLECTION TANK 1500 LITRE EACH	4 NOS
GAS HOLDING TANKS	3 NOS
COOLING TOWER 150 TR	1 NOS
100 FT CHIMNEY WITH SCRUBBER	1 NOS
100 FT EXCESS GAS FLARING SYSTEM	1 NOS
GAS BLOWERS	2 NOS
COOLING WATER CIRCULATION PUMP	2 NOS
OIL PUMP	2 NOS
PLC CONTROL PANEL AS REQUIRED	1 NOS
CONTROL CABLES FROM PANEL TO EQUIPMENTS	1 LOT
INSTRUMENTATIONS AND SENSORS AS REQUIRED	1 LOT
7 NM3 NITROGEN GENERATOR PLANT	1 NOS
AIRLOCKING VALVES	4 NOS
PNUEMATIC SYSTEM AS REQUIRED	1 LOT
HEATING EQUIPMENTS	7 NOS
THE STRUCTURALS REQUIRED FOR THE PLANT	1 LOT
HIGH EFFICIENT HEAT INSULATION SYSTEM	1 LOT
HIGH TEMPERATURE COATINGS FOR EQUIPMENTS	1 LOT

CLIENT SCOPES FOR THE PLANT AND MACHINERY

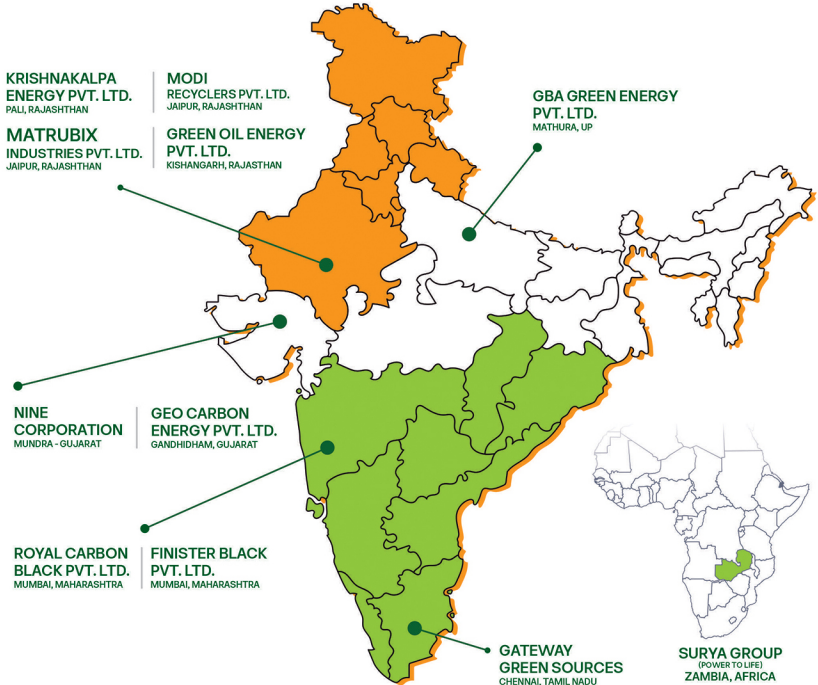
- LAND 2 ACRES / 10000 SQ METERS REQUIRED FOR THE PLANT
- ALL THE CIVIL WORKS RELATED TO THE PLANT AND MACHINERY
- ELECTRICAL INPUT CONNECTION FOR THE PLANT AND MACHINERY -125 HP
- TRANSPORTATION AND INSURANCE COST FOR THE MACHINERY DISPATCHED.
- ETP PLANT FOR THE OIL WATER GENERATED FROM THE PLANT
- ALL THE APPROVALS RELATED TO THE BUSINESS
- RAW MATERIAL ARRANGEMENTS FOR THE TRAINING PERIOD - 500 TONS TYRE CHIPS.
- SKILLED AND SEMI SKILLED STAFFS FOR THE TRAINING PERIOD - 25 DAYS
- FOOD, ACCOMMODATIONS AND TRAVEL EXPENSES FOR OUR COMPANY STAFFS ON ERECTION AND TRAINING PERIOD.
- TOOLS, CRANE ARRANGEMENTS AND LABOUR FORCE AT THE TIME OF ERECTION.
- MAIN OIL STORAGE TANK WILL BE IN CLIENT SCOPE. PYROLYSIS



OUR VALUABLE CLIENTS



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