



OWENA

MULTITECH PVT. LTD.

THE POWER OF NATURE



About Us

We, Owena Multitech Pvt Ltd got established in the year 2021 as a manufacturer and supplier of Process Equipment. Our offered range includes Gasifiers, Pollution Control Equipment and Storage Silo that are highly acclaimed by our clients due to the sturdy make and imperishable features. We have gained expertise in the manufacturing and providing service for Gasifiers. Further, we have always worked very hard to source the quality raw material from very reliable vendors in the international market. Our skilled and experienced workforce work consistently to make us the most trusted and reliable brand of Gasifiers. Further, our quality assurance department is very watchful and keeps track of the production and post-production stages and ensures that all the quality parameters are met and the equipment manufactured is in compliance to the internationally accepted quality standards.

Owena Multitech Pvt Ltd is a passionate company having interest in engineering and beyond. The company undertakes fabrication, erection and installation of a wide range of engineering products. Our fabrication expertise in Pressure vessels, Heat exchanger, Bitumen tanks, heavy and light Fabrication work. We are also one of the most reputed service provider of fabrication work in some industries like road construction, Fertilizers Company, power projects. Our mission is committed to exceeding our customer's expectations through continuous improvement and employee involvement to manufacture to delivery first-rate products on time at a competitive price.

Vision

Our mission is to provide energy which is Sustainable and Green at costs that enable all to use it.

Mission

To become industry leader in design, manufacturing and services of equipment for converting various Bio-Mass and Waste into sustainable energy through innovation.

Applications

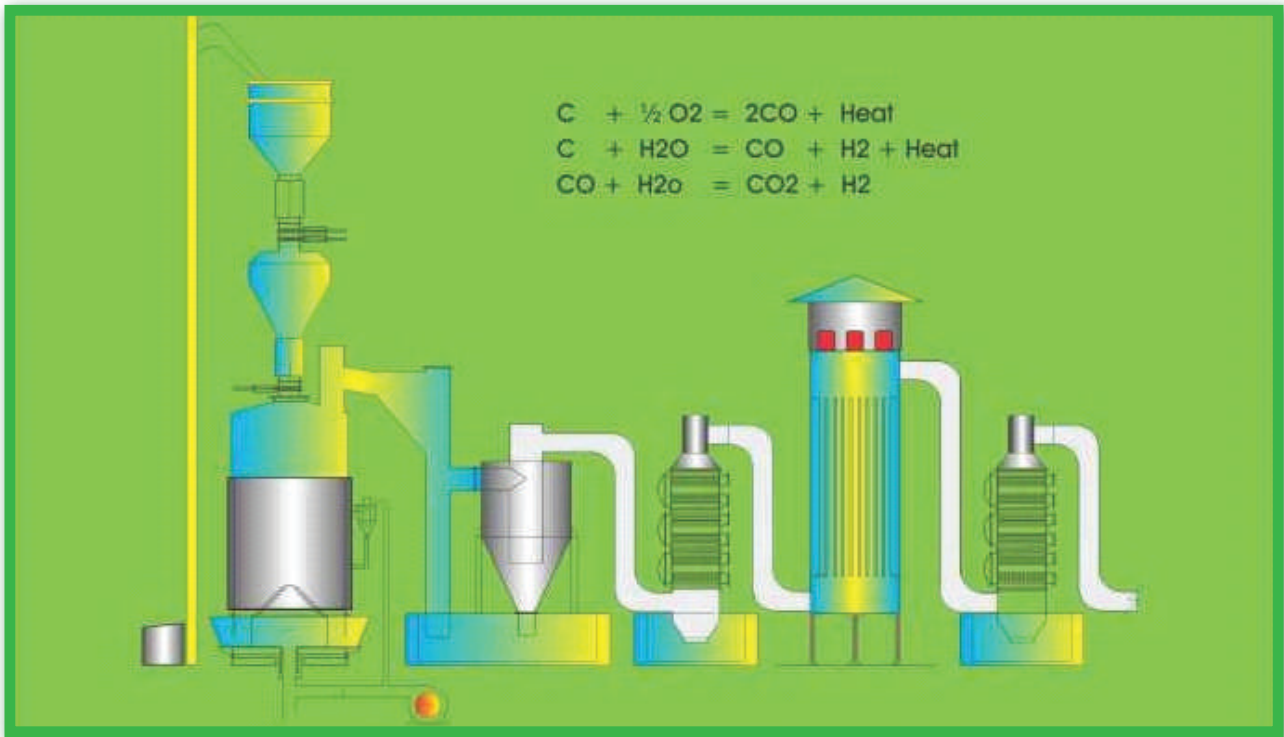
Ceramics Kilns | Hot Air Generato | Biscuit Kilns | Spray Dryer Glaze
Kilns | Lime Kilns | Roller Kiln | Rotary Kilns | Forgings Industries
Maximum temperatures 13000C can be obtain by optima' air pre-heating
& premixing 0t gir With producer gas

Applications Industries Ceramics

- Rubber
- Pharmaceuticals
- Textile
- Cement
- Rolling Mill
- Other Industries where Heat is require
- Chemicals
- Food processing
- Paper & Pulp
- Various Dryers
- Forgings



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What Is Gasification ?

- Gasification is process to gasified Coal. Bioma55 OR any Organic material.
- Gasification is chemical process in Which coal burns partially with insufficient availability O_2
- In gasification process steam to be charge With air in main reactor to slow down burning process & also increase H_2 & CHA in Producer gas.
- During the gasification following chemical process done on shell temp $400\text{ }^\circ\text{C}$



Feasibility (Compare with Kcl/Hr

- **LNG** : (52 Rs./kg.)
Consump. Per Day: 91 kg/Hr.
2181 kg/Day = **1,13,455 Rs/Day.**
- **FO** (52 Rs./kg.)
Consump. Per Day: 105 kg/Hr. = 2526 = **55579 Rs./Day**
- **P.G.** (Steam Coal) : (6Rs./Kg.)
Consump. Per Day: 7590 kg. = **48000 Rs./Day**

FUELS

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Up Draft Coal Gasification System



Fuels



Technical Specification

Sr no.	Model no.	CAPACITY (NM ³ /hour)	NET CV (1150 Kcal/NM ³)	COAL CONS (kg/hour)	SHELL DIA (mm)	AUTO COAL FEEDING SYSTEM	APPLICATION	PICK TEMP (°C)
1	PG 500	500	5,75,000	160 - 170	1000	NO	THERMAL	1250
2	PG 800	800	9,20,000	260 - 270	1200	NO	THERMAL	1250
3	PG 1200	1200	13,80,000	400 - 420	1800	NO	THERMAL	1300
4	PG 1500	1500	17,25,000	500 - 525	2000	Customize	THERMAL	1300
5	PG 2000	2000	23,00,000	650 - 670	2200	Customize	THERMAL	1350
6	PG 2200	2200	25,30,000	700-735	2400	YES	THERMAL	1350
7	PG 3000	3000	34,50,000	980 - 1020	2800	YES	THERMAL	1350
8	PG 4000	4000	46,00,000	1320 - 1350	3200	YES	THERMAL	1350
9	PG 5000	5000	57,50,000	1650 - 1670	3400	YES	THERMAL	1350
10	PG 6000	6000	69,00,000	1980 - 2000	3600	YES	THERMAL	1350
11	PG 8000	8000	92,00,000	2650 - 2700	3800	YES	THERMAL	1350
12	PG 9000	9000	1,03,50,000	3000 - 3200	4000	YES	THERMAL	1350
13	PG 10000	10000	11,50,00,000	3350 - 3500	4000	YES	THERMAL	1350

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Down Draft Biomass Gasification for Power plant



Fuels



Technical Specification

Sr no.	Model no.	CAPACITY (NM ³ /hour)	NET CV (1150 Kcal/NM ³)	COAL CONS. (kg/hour)	SHELL-DIA (mm)	AUTO COAL FEEDING SYSTEM	Power Generation	PICK TEMP. (°C)
1	WBG-60	150	1,55,000	50-60	450	NO	40kw	1250
2	WBG-100	250	2,60,000	80-100	500	NO	60kw	1250
3	WBG-120	300	3,10,000	90-120	600	NO	80kw	1250
4	WBG-150	375	3,90,000	120-150	800	NO	100kw	1250
5	WBG-200	500	5,20,000	160-200	1000	NO	150kw	1250
6	WBG-250	625	6,45,000	200-250	1100	YES	175kw	1250
7	WBG-350	875	9,03,000	300-350	1200	YES	200kw	1250
8	WBG-400	1000	10,30,000	360-400	1400	YES	300kw	1250
9	WBG-500	1250	13,00,000	460-500	1600	YES	400kw	1250
10	WBG-600	1500	15,50,000	580-600	1800	YES	450kw	1250
11	WBG-800	2000	22,00,000	760-800	2000	YES	600kw	1250
12	WBG-1000	2400	28,00,000	900-1000	2200	YES	800kw	1250
13	WBG-1500	3500	36,75,000	1200-1500	3000	YES	1000kw	1250

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Gas Cleaning System

Cyclone dust collector

Cyclone dust collector required to remove coal dust or ash particles from gas & make gas lighter. it is installed just outlet Of PG gas plant, cap : 500



Indirect Condensor

Indirect condenser required to condense gas & reduce temp Of gas. It installs after cyclone dust collector.

cap : 500m³-8000m³



Electrostatic Tar Precipitator (etp)

ETP removes 99.95% tar particle from PG gas & make gas clean equivalent CNG We have wide range Of ETP depending On capacity as bellow, cap : 500m³-8000m³

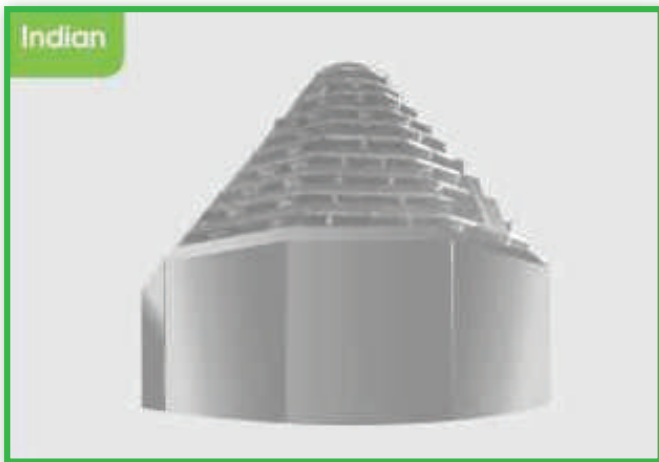
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Service

- Auto Coal Feeding system
- Coal storage hopper
- Hydraulic valve
- Auto coal feeder
- Lift mechanism Auto
- Coal teeder
- Charging hopper
- Hydraulic valve

Bottom temple grit both type



Temple Grit From PG 500 to PG 10,000



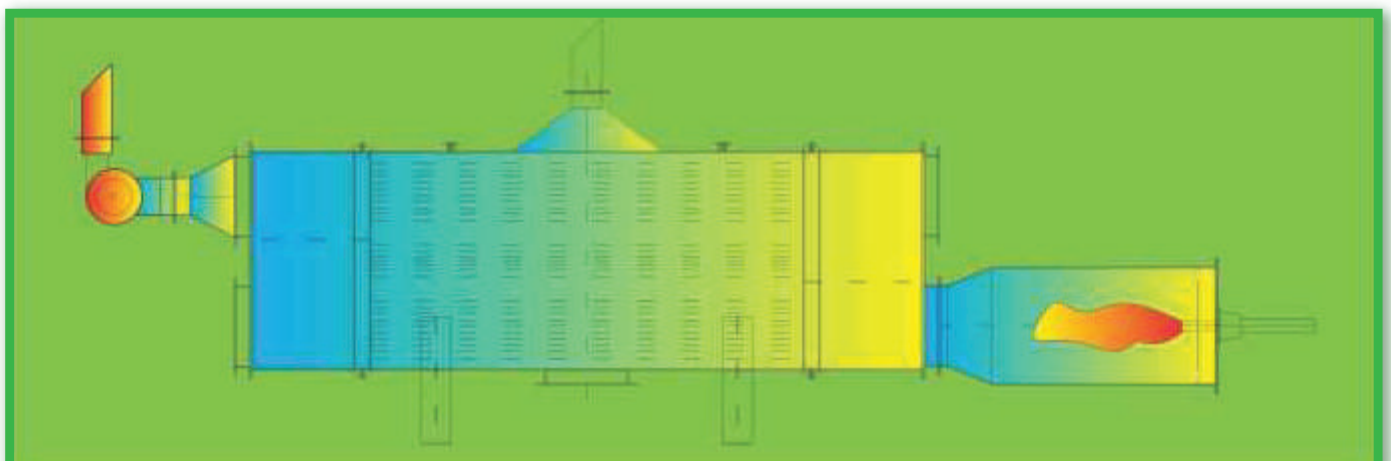
Basse bearing

Capacity : From PG 500 to PG 10,000
or
Customize as per Custoers
Requirment



Phenolic Water Evaporator

Capacity :
500 ltr./day to 2000 ltr./day





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