

Single Stage Coal Gasifiers



DESIGN FEATURES



Gasifier Structure: wholly water-jacketed structure, self-produced steam with a pressure of 49 KPa can be used as gasifying agent and steam seal for probing fire.

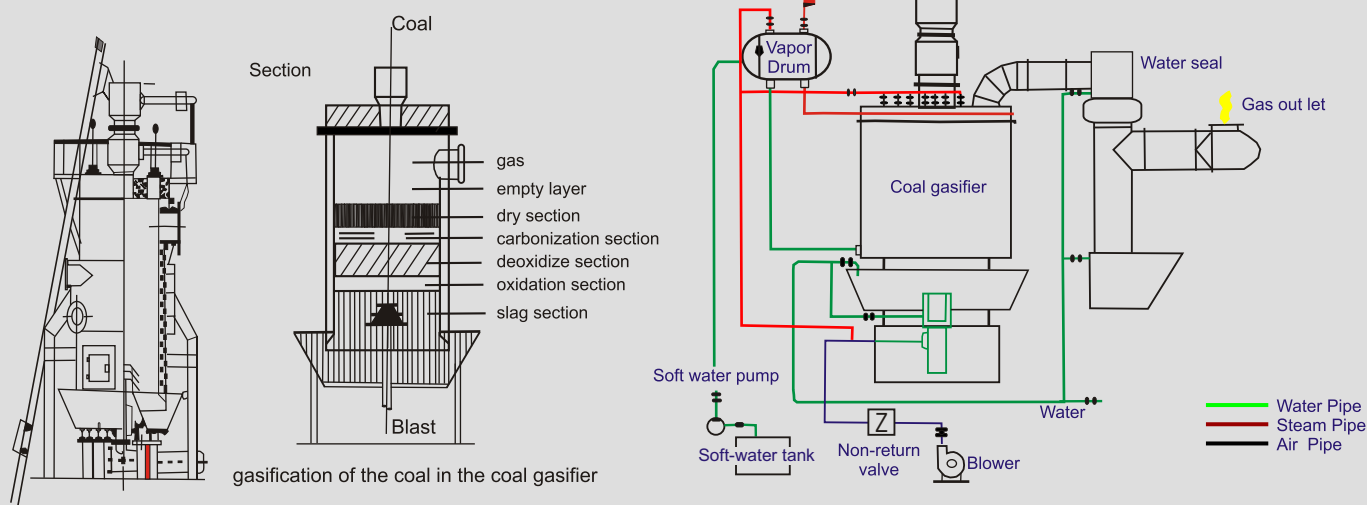
Feeding Mechanism: bucket hoisting and manual double bell jar feeding mechanism is adopted, which is easy to operate and can prevent gas leakage efficiently.

Slag Discharge Mechanism: wet slag discharge is made from both sides with ratchet wheel and detent of hydraulic drive.

This gasifier has advantages of easy operation, steady production, convenient adjustment and reliable running.



General Arrangement Drawing



TECHNICAL SPECIFICATIONS

Specification Name	Ø1600 mm	Ø1800 mm	Ø2000 mm	Ø2200 mm	Ø2400 mm
Suitable Fuel	Weak bituminous coal, anthracite, coke, meagre coal and lean coal				
Fuel grain size	30-50 mm	30-50 mm	40-60 mm	40-60 mm	40-60 mm
Coal consumption (kg/hr)	300-400	400-500	500-650	600-750	650-800
Gas output	1200-1400 m ³ /hr	1500-1750 m ³ /hr	1900-2150 m ³ /hr	2321-2612 m ³ /hr	2736-3100 m ³ /hr
Outlet gas temperature	450-550°C	450-550°C	450-550°C	450-550°C	450-550°C
Gas calorific value	1200-1350 kcal/m ³	1200-1350 kcal/m ³	1200-1350 kcal/m ³	1200-1350 kcal/m ³	1200-1350 kcal/m ³
Outlet gas pressure	980-1960pa	980-1960pa	980-1960pa	980-1960pa	980-1960pa
Blast pressure	2014pa	2014pa	2014pa	2014pa	2014pa
Saturated temperature	55-65°C	55-65°C	55-65°C	55-65°C	55-65°C
Slag removal system	Automatic / Manual				
Gasifying agent	Air-steam				

Specification Name	Ø2500mm	Ø2600mm	Ø2800mm	Ø3000mm	Ø3200mm
Suitable Fuel	Weak bituminous coal, anthracite, coke, meagre coal and lean coal				
Fuel grain size	40-60mm	40-60mm	40-60mm	40-60mm	40-60mm
Coal consumption (kg/hr)	700-850	900-1000	1000-1100	1100-1200	1100-1500
Gas output	3050-3400 m ³ /hr	3400-3800 m ³ /hr	3750-4150 m ³ /hr	4150-4500 m ³ /hr	4650-4950 m ³ /hr
Outlet gas temperature	450-550°C	450-550°C	450-550°C	450-550°C	450-550°C
Gas calorific value	1200-1350 kcal/m ³	1200-1350 kcal/m ³	1200-1350 kcal/m ³	1200-1350 kcal/m ³	1200-1350 kcal/m ³
Outlet gas pressure	980-1960pa	980-1960pa	980-1960pa	980-1960pa	980-1960pa
Blast pressure	2014pa	2014pa	2014pa	2014pa	2014pa
Saturated temperature	55-65°C	55-65°C	55-65°C	55-65°C	55-65°C
Slag removal system	Automatic / Manual				
Gasifying agent	Air-steam				



ENCON Thermal Engineers (P) Ltd.

Faridabad Office :
 297, Sector - 21 B,
 Faridabad - 121 001, Haryana (India)
 Ph. : +91 129 4041185, 4047847
 Fax : +91 129 4044355
 E-mail : sales@encon.co.in

Vadodara Office :
 308, Race Course Towers,
 Race Course Circle, Vadodara - 390 007, Gujarat (India)
 Ph. : +91 265 6620940, 3053042
 Telefax : +91 265 2335161
 E-mail : vadodara@encon.co.in

www.encon.co.in