

CASE[®] COAL GASIFIERS
PYROLYSIS HOT CLEAN GAS STATION

CASE® has had a global presence in the industrial world for more than 25 years. CASE® established itself in the early 1990's and since then has been relentlessly working in the variable fields of Industrial Engineering Activities. CASE® has accomplished a high level of excellence in the manufacturing of the equipments and services provided by it. CASE® has its corporate office cum headquarters situated at National Capital Region, India.



CASE® offers a wide range of state-of-art-the technologies for Coal Gasifiers, Cooling Tower Solutions, Air Pollution Solutions, SCALE-BAN™- Non chemical online water scale preventor , Direct Reduced Iron and critical machinery for Steel Rolling Mills like HSS (High Speed Steel) Rolls, Block Mills, High Speed Finishing Mills etc. The organization aims to deliver globally, the best of quality products at the most economic rates within minimum lead times. "CASE" believes on 'Working for a Safer and a Cleaner Tomorrow".

CASE® designs and manufactures products, which are specifically required for the purpose. The materials used are carefully selected to ensure the highest standards of performance and to guarantee the consistent quality. All products are subjected to rigorous quality control procedures prior to delivery. The relevant standard authorities and professional associations regularly assess our operative skill and competency.

Our aim is to provide the plant designer, constructor and operator with an efficient, reliable and economical facility. Our products are wholly approved and accepted by all the INDIAN GOVERNMENT ORGANIZATIONS.

CASE® has manufacturing unit situated at Bahadurgarh to cater to the client's needs all over India and abroad. Our works is equipped with the latest technological advancements required for processing and fabrication. These products are scrutinized through our stringent quality control cell, which ensures an excellent product quality.



CASE® is an ISO-9001:2015 certified company. CASE® is also member of the prestigious COOLING TECHNOLOGY institute, USA. which makes sure that we offer international technology at Indian rates.

CASE® has entered into many strategic partnerships with overseas companies for a number of different technologies. These partnerships are a result of our in-depth experience and the technical know-how which we possess. Understanding the importance of technological advancements has been the driving force for these partnerships. By synergizing technology and cost competitiveness, we have been successfully able to introduce many anew systems which have been extremely beneficial for the Indian Industry.

Welcome to CASE® Group and feel free to explore the world of Engineering experienced through the eyes of CASE®.

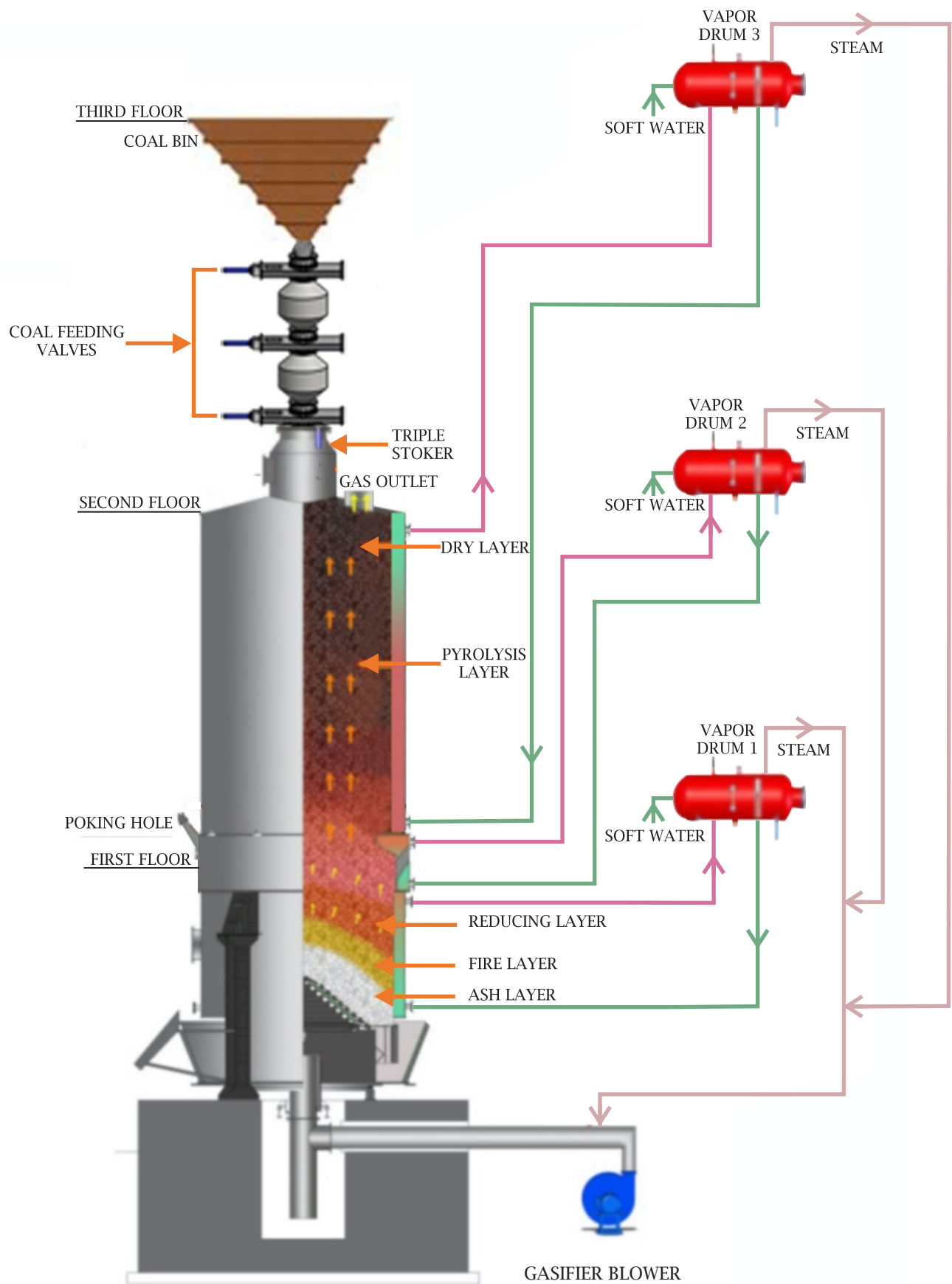
CASE[®] PYROLYSIS HOT CLEAN COAL GAS STATION

Model Selection-SC Series

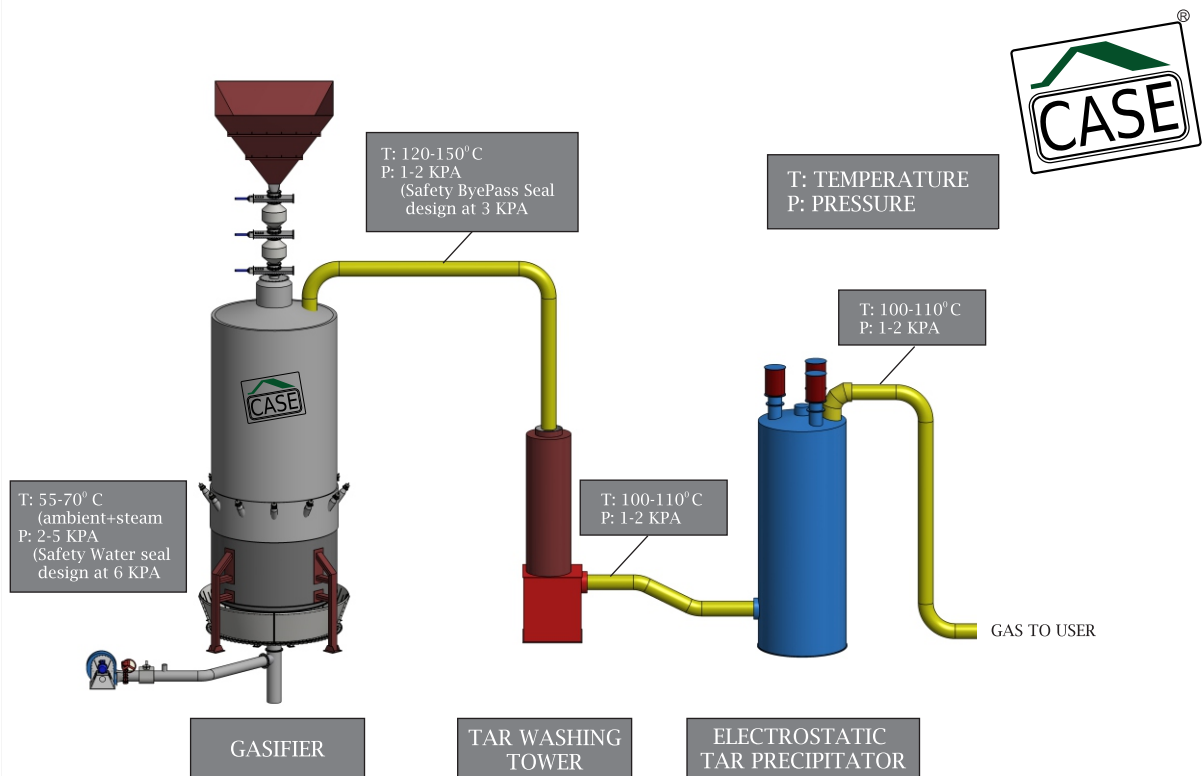
S.NO.	Model	Internal Diameter (mm)	Hearth Area (m ²)	Gas Output (Nm ³ /hr.)	Maximum Coal Feeding Capacity (kg/hr.)	Gas Parameters
1	CASE-1.5SC	1500	1.77	800-1600	500	Gas Calorific Value ≥ 1400 Kcal/Nm ³ Gas Outlet Temperature 100-110 °C Gas Composition CO : 25-30% H ₂ : 15-18% CH ₄ : 3-6% CO ₂ : < 6% N ₂ : 45-50%
2	CASE-1.7SC	1700	2.27	1100-2100	650	
3	CASE-2.0SC	2000	3.14	1500-2900	900	
4	CASE-2.2SC	2200	3.80	1800-3600	1100	
5	CASE-2.4SC	2400	4.52	2200-4400	1350	
6	CASE-2.6SC	2600	5.31	2500-5000	1550	
7	CASE-3.0SC	3000	7.07	3400-6800	2100	
8	CASE-3.2SC	3200	8.04	3800-7600	2350	
9	CASE-3.4SC	3400	9.08	4300-8600	2650	
10	CASE-3.6SC	3600	10.18	4900-9800	3000	
11	CASE-3.8SC	3800	11.34	5400-11000	3350	
12	CASE-4.0SC	4000	12.57	6000-12000	3700	
13	CASE-4.2SC	4200	13.84	6500-14000	4000	

Note : Coal Consumption & Gas flow depends on the quality of Coal.
 Outlet Pressure can be 100-200mmwc.

ZERO LIQUID DISCHARGE TECHNOLOGY



PROCESS FLOW



ADVANTAGES OF PYROLYSIS HOT CLEAN GAS STATION

- Single Gas Outlet. Gas Composition Does Not Fluctuate- Consistent Gas.
- All Purifying Equipments Are In Series-Low On CAPEX.
- Less Purifying Equipments With Simple Schematics Low On OPEX.
- Higher Purity Of Gas As All Purifying Equipments Are In Series.
- Higher Gas Thermal Value.
- Usage Of Gas Sensible Heat to Preheat the incoming Coal.
- Higher Level Of Pyrolysis – Higher Conversion Of Volatile Matter Of Coal To CnHm.
- Suitable For Very Critical Heating Curves $\pm 2^{\circ}$ Centigrade Variations.
- No Refractory used in Gasifier. Thus, frequent Cleaning not required.
- Zero Liquid Discharge Technology.
- Tar & Water does not mix at any point.
- Tar fluidity is very good. This enables tar to be pumped for any utility or outside sale.
- Gasifier is in line with Environment protection agencies CPCB, SPCB & MOEF & CC.







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