

Reliable Low-Emission Biochar Production Systems designed and built for the Global South.

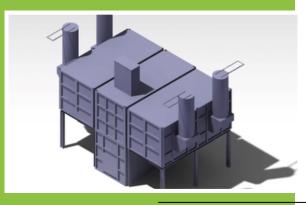
The PyroCCS SCB-S is a large-scale, closed loop, low-emission, semi-continous batch pyrolyser with syngas recovery and recycling. Operations with 4 burning chambers allow continuous 24/7 operations.

Optional integrated syngas reforming module allow for extraction of highest quality biooil valued at 600 USD+/m3 (also in the Global South).

The SCB-S is for sites with massive scaling potential and its modular approach can easily serve biomass processing requirements of 50,000 tons/p.a. and more.

The system has been designed for projects in the Global South considering the requirement to produce highest quality biochar

The pyrolysis system is supplied in a bundle with PyroCCS Sarva Carbon dMRV system and Carbon Credit Certifications adhering to the specifications and requirements of the largest carbon standards.



PyroCCS **

Large-Scale Semi-Continuous Batch Pyrolyser

Datasheet: SCB-S

1,750 to 2,500 Tons Biochar p.a.

up to 6,000 Carbon Credits p.a.

DEFINITION	SPECIFICATION (HIGH DEPENDENCY ON BIOMASS TYPE)
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SUITABLE BIOMASSES	Economically feasible pyrolysis is possible with high- density coarse biomasses like logs, branches, bamboo, briquettes, invasive and encroaching species. Spectrum of other biomasses workable (talk to us!).
BIOMASS CAPACITY PER REACTOR	Reactor Capacity @ 6.5m³, at exemplary Biomass Bulk Density of 330kg/m³ = approx. 2,145 kg/reactor
TOTAL PLANT UPTIME	350 days/year, 24/7 (4 shifts)
TOTAL BATCHES	2 to 3 batches per day per reactor (8 to 12 hours per batch per reactor depending on biomass)
TOTAL BIOMASS PROCESSING CAPACITY	350 days, 24 hours/day operational, 2.5 batches/day, 4 chambers, 2,145 kg biomass/reactor example = ~7,500 tons feedstock input/year.
BIOCHAR YIELD	~ 32 - 38%, above example produces 2,500 tons biochar/year, higher biomass bulk density produces more biochar
PYROLYSIS TEMP.	600°C (fueled by recovered syngas & cofiring)
MOISTURE REQ.	10 to 15%, more biomass moisture requires more cofiring
STARTUP/COFIRING REQUIREMENTS	Same as feedstock, 15-30% of biomass input (additional to feedstock) depending on biomass
ELECTRICITY	8kW continuous, 10kW peak - decentralised "offgrid" operations with solar possible
BIOCHAR SPECS	~82% C(org), H/C(org): ~0.2 (WBC Premium) - exemplary
BIOOIL	Optional module for highest quality integrated syngas reforming and biooil extraction available from PyroCCS
LIFESPAN	10 years +
MANPOWER	1 shift leader & 3 workers per shift (+ 1 plant manager)
CARBON STANDARD COMPATIBILITY	Carbon Standards International Global Biochar C-Sink, Puro Earth, Isometric (with Sarva Carbon dMRV)

Supply Terms

Lead Time: 12 to 14 weeks after receipt of payment

INCOTERMS: EXW Pune, India or Johannesburg, South Africa

Warranty: 12 months





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