Pyrogreen

ROTARY KILN BIOCHAR PRODUCTION SYSTEMS

[BRKC SERIES]

Turning Biomass into Biochar and Durable Carbon Removal.

FULL-SPECTRUM SOLUTIONS FOR BIOCHAR

From biomass feedstock to biochar production, Pyrogreen delivers integrated carbonization solutions for projects of different scales and applications.

ISOMETRIC

BRKC SERIES PRE-APPROVED PYROLYZER MODELS BY ISOMETRIC CERTIFY

Rainbow Partner

PYROGREEN JOINS RAINBOW STANDARD AS AN INDUSTRIAL PYROLYSIS EQUIPMENT MANUFACTURER PARTNER

Puro.earth

One Step Closer to Certification

Assessment Completed · Official Certification **COMING SOON**









PYROGREEN ENERGY

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PYROGREEN'S SOLUTION

From biomass residues to biochar and carbon removal, Pyrogreen integrates feedstock assessment, carbonization technology, biochar production and carbon asset development into a complete project solution.

FROM BIOMASS TO CARBON REMOVAL



01 FEEDSTOCK
Responsible biomass sourcing



02 CARBONIZATION
Controlled pyrolysis and carbonization



03 BIOCHAR
Stable carbon-rich products



04 CARBON REMOVAL
Pathway to durable carbon removal



SUPPORTED FEEDSTOCKS

- Woody biomass and waste wood
- Peels, seeds, and crop residues
- Sewage sludge and fermentation residues
- Screening Residues, etc.

≤ 15% Moisture

≤ 50 mm Size


Wood waste


Bamboo waste


Coconut shell


Sawdust (Pelleting)


Açaí seed


Olive pomace (Pelleting)


Rice husk


Grain stalk (Pelleting)


Bagasse (Pelleting)


EFB (Pelleting)

BIOCHAR & BIOCARBON APPLICATIONS



BIOCHAR

Positioning

Long-term carbon storage and carbon-negative material

Applications

- Soil amendment
- Carbon sequestration
- Carbon removal



BIOCARBON

Positioning

Renewable carbon material for industrial decarbonization

Applications

- Steelmaking
- Non-ferrous metals
- Mineral processing

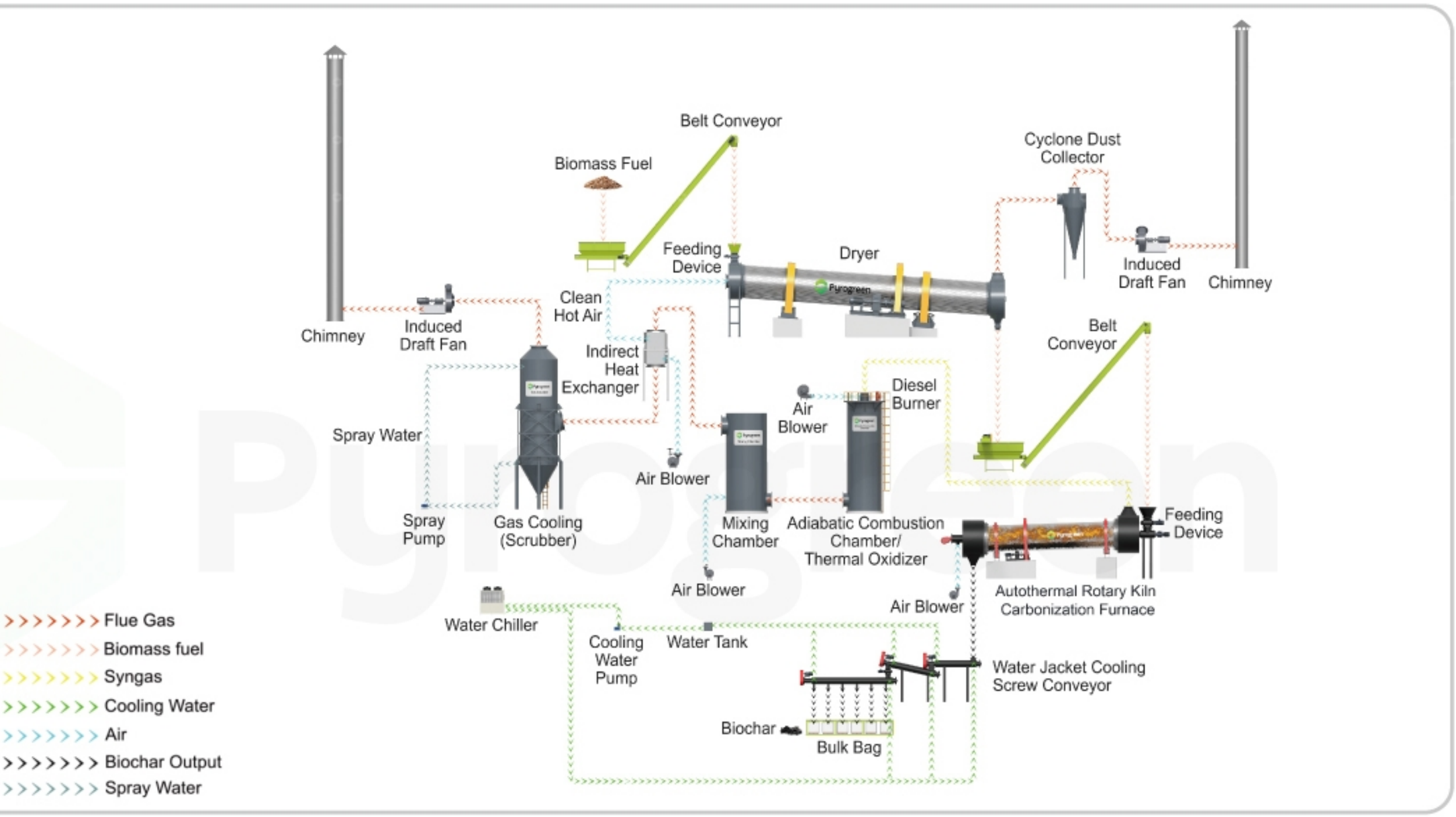
AUTOTHERMAL CONTINUOUS CARBONIZATION

≤ 50 mm
LARGER FEEDSTOCKS

Designed for continuous biomass carbonization, the autothermal system utilizes process-generated energy to support efficient operation and biochar production.



PROCESS FLOW

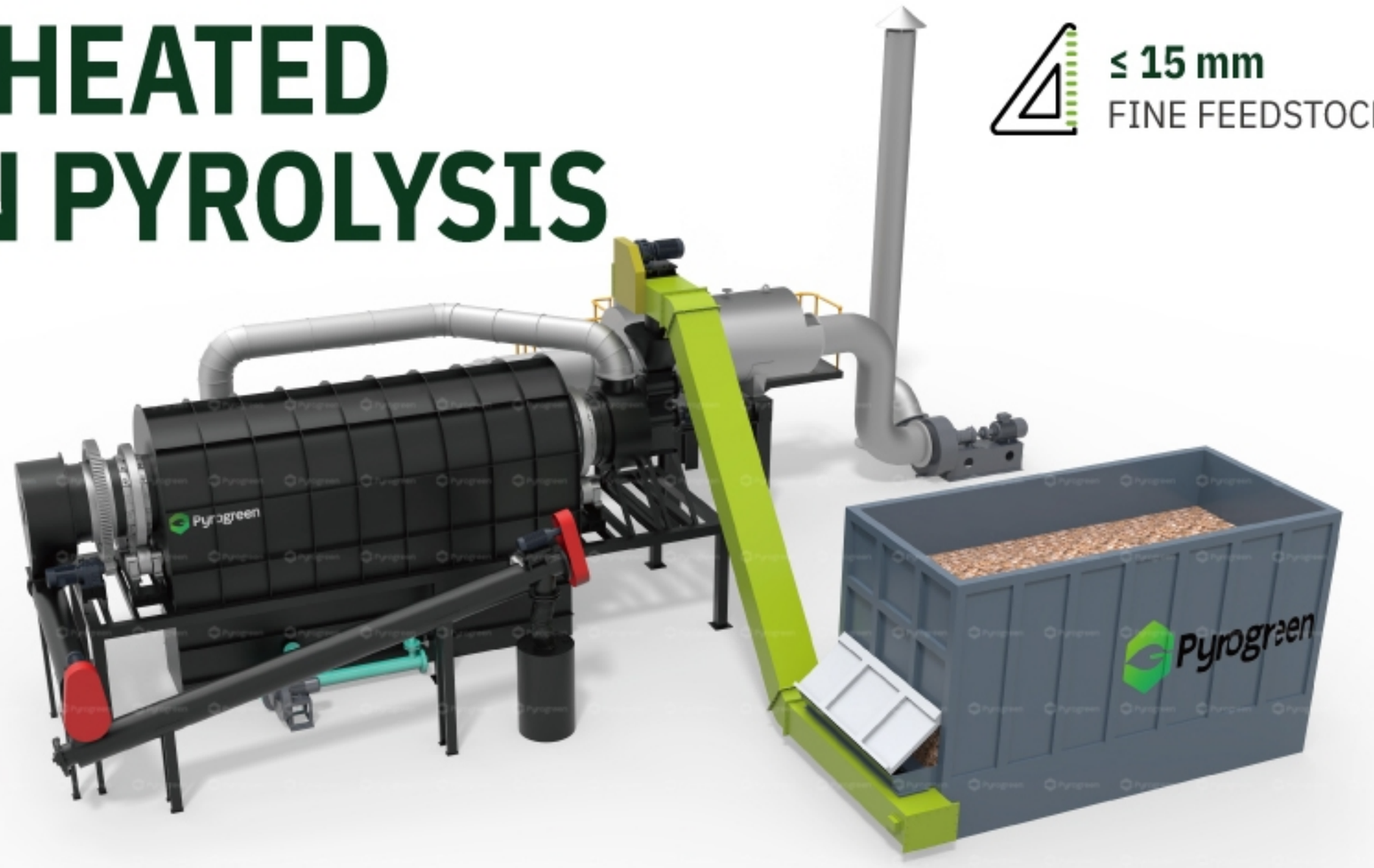


Item	BRKC1000(DH)	BRKC2000(DH)	BRKC3000(DH)	BRKC4000(DH)	BRKC5000(DH)	BRKC8000(DH)
Feed Rate	1,000 kg/h	2,000 kg/h	3,000 kg/h	4,000 kg/h	5,000 kg/h	8,000 kg/h
Footprint (L × W)	46.8 × 41.7 m	52.2 × 41.7 m	57.6 × 41.7 m	63.2 × 41.7 m	68.9 × 41.7 m	74 × 43.2 m
Pressure	Slight Negative Pressure					
Heating Fuel	Diesel, natural gas, heavy oil, etc. (for start-up only)					
Heating Mode	Direct Heating					
Pyrolysis Temperature (°C)	500 - 700°C (Actual operating temperature depends on feedstock properties and target biochar specifications.)					
Biochar Yield	18-25% (Depending on the properties of the raw materials)					

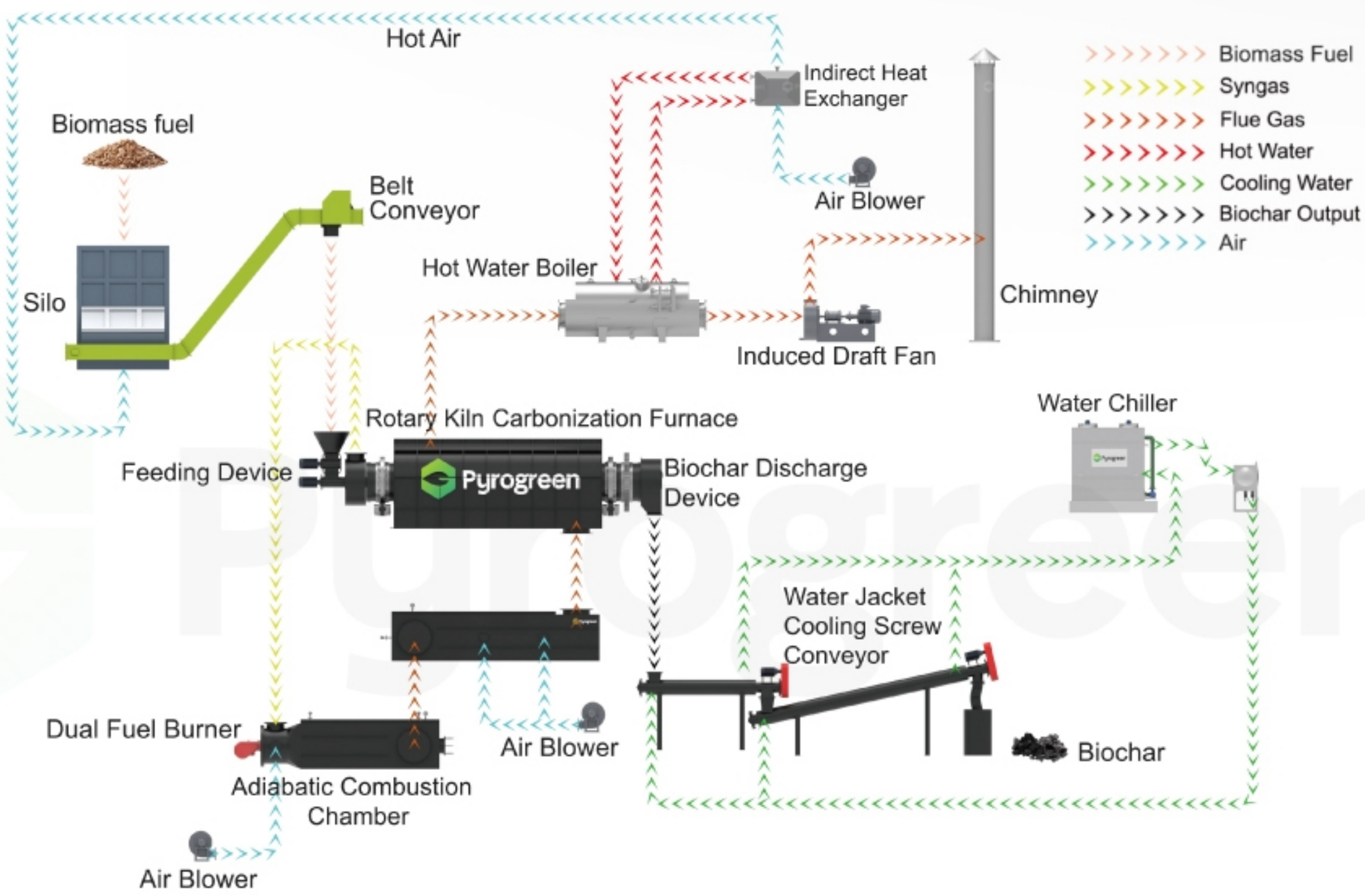
Note: In case of any discrepancies, the actual product specifications and market conditions shall prevail.

INDIRECTLY HEATED ROTARY KILN PYROLYSIS

Stable, efficient and continuous biochar production with high fixed-carbon content and low emissions.



PROCESS FLOW



Item	BRKC600	BRKC1000	BRKC3500	Item	Specification
Feed Rate	0.6 m³/h (200 kg/h)	1 m³/h (300 kg/h)	3.5 m³/h (1,000 kg/h)	Pressure	Slight Negative Pressure
Footprint (L × W)	12 × 10.5 m	15 × 10.5 m	18 × 12 m	Heating Fuel	Diesel, natural gas, heavy oil, etc. (for start-up only)
Working Mode	Continuous			Heating Mode	Indirect Heating
Feed Requirements	Size ≤ 15 mm, MC ≤ 15%			Noise (dB)	≤ 80
Construction	Indirectly Heated Rotary Kiln Type			Cooling Mode	Circulating Water Cooling
Control Mode	PLC Control System			Rotation Mode	External Gear Drive
Material	SS310S + SS304 + Carbon Steel			Biochar Yield	Max 30%

Pyrolysis Temperature (°C): 500-700°C (Actual operating temperature depends on feedstock properties and target biochar specifications.)

SELECTED PROJECTS

Pyrogreen biochar production systems have been selected for multiple international projects, providing tailored solutions for diverse feedstocks and production requirements.

01 FORESTRY RESIDUE BIOCHAR PROJECT (UNDER PRODUCTION)

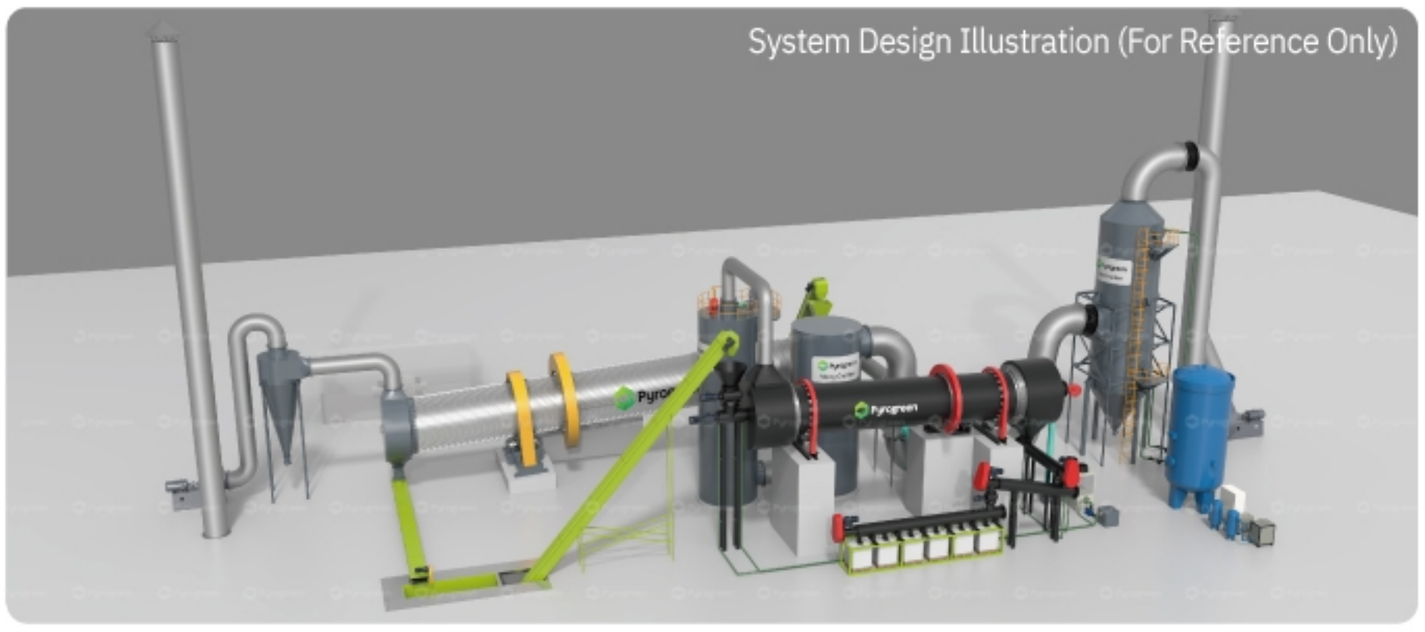
Bolivia

Feedstock
Wood waste

System
Pyrogreen BRKC(DH) Series

Feed Rate
2 × 4 t/h

Application
Biochar production & carbon removal



PROJECT HIGHLIGHTS

- Large-scale biochar production from wood waste
- Integrated crushing, drying and carbonization system: 4 t/h per unit
- High-quality biochar designed to meet Puro.earth carbon-credit requirements

02 FORESTRY RESIDUE BIOCHAR PROJECT (DESIGN PHASE)

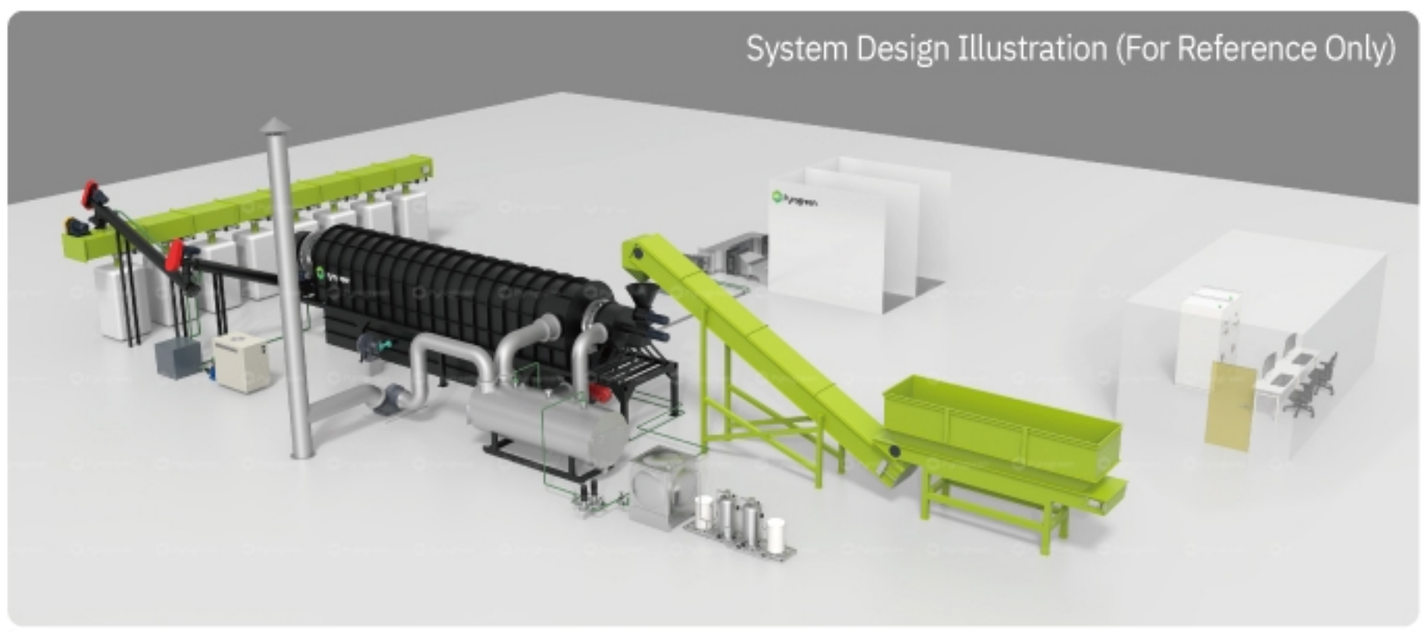
The Netherlands

Feedstock
Wood waste

System
Pyrogreen BRKC Series

Feed Rate
1 × 300 kg/h
After drying (at the reactor inlet)

Application
Biochar production & carbon removal



PROJECT HIGHLIGHTS

- Wood waste with an initial moisture content of up to 30%, dried to the required level before being fed into the reactor.
- Integrated waste-heat recovery for feedstock drying and hot-water production
- High-quality biochar designed to meet Puro.earth carbon-credit requirements

LET'S BUILD YOUR BIOCHAR PROJECT

From feedstock assessment and system design to biochar production and carbon project development, Pyrogreen supports your project from concept to long-term operation.

SCAN TO EXPLORE PYROGREEN

THE STRENGTH BEHIND PYROGREEN

Pyrogreen, a proprietary brand of **Wuxi Powermax Renewable Energy Technology Co., Ltd.**, specializing in biochar technology and carbon asset development.

Backed by established manufacturing, engineering and project capabilities, Pyrogreen develops integrated solutions for biochar production and carbon removal projects.

2018
Trademark Registered

Isometric
Equipment Pre-Approval

Rainbow
Partner

WBC/EBC
Biochar Certification Ready

40+ Years
Manufacturing Experience

2,000 m^2
Office Area

27,000 m^2
Workshop Area

120+
Employees

Note: The figures above are company statistics for Wuxi Powermax Renewable Energy Technology Co., Ltd., as of September 2026.

OUR STRENGTHS

GLOBAL PERSPECTIVE
Connected to the global biochar and carbon removal community.

CUSTOMER FOCUS
Solutions tailored to feedstocks and project requirements.

CERTIFICATION SUPPORT
Equipment compliance documentation, biochar testing, and project certification support.

SUSTAINABLE IMPACT
Supporting biochar production and durable carbon removal.

CONNECTED TO THE GLOBAL BIOCHAR COMMUNITY

IBI · ANZ BIG · IBTC

Actively participating in international biochar, biomass carbonization and carbon removal collaboration.

CONTRIBUTING TO THE UN SDGS



BEYOND EQUIPMENT

Biochar Production
From feedstock to finished biochar

dMRV Support
Digital monitoring and data support for carbon removal projects

Carbon Project Development
Supporting carbon removal project development

Carbon Asset Management
Providing long-term carbon asset value management solutions

Note: Equipment pre-approval does not constitute project-level carbon removal certification. Accounting and verification must still be carried out in accordance with the applicable methodology.