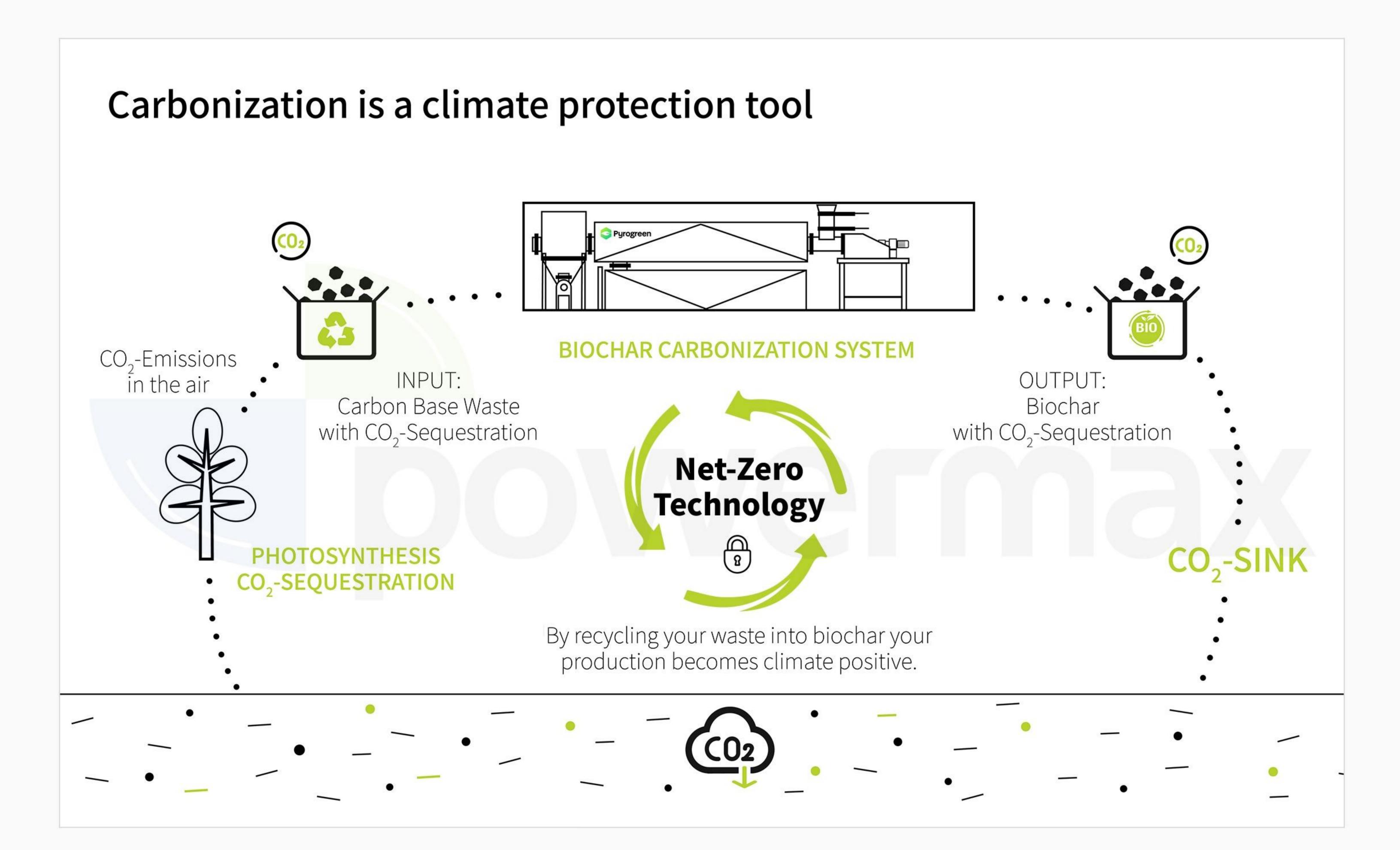
CO2 ETZERO TECHNOLOGY BREATHING FOR THE PLANET

Biochar negative carbon technology: Pyrogreen carbonization/torrefation system achieves CO, storage and energy regeneration

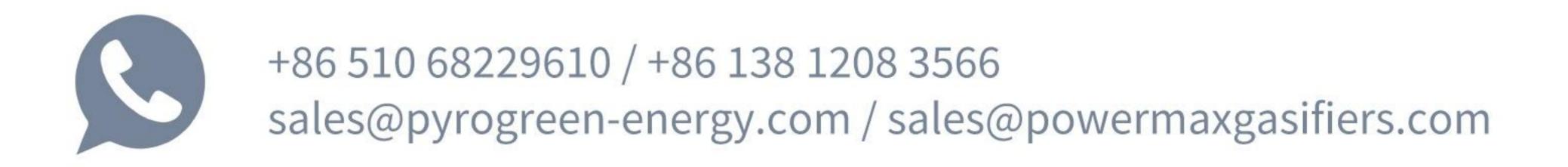
Pyrogreen Energy is a leading company in the manufacturing of eco-friendly carbonization & torrefaction systems and providing biochar & biocoal solutions for the recycling of biomass residuals. Our mission is to create and deploy biorenewable technologies that enhance soil fertility and combat climate change through CO₂ sequestration.

We support our clients in making use of biomass waste, boosting efficiency, and generating extra revenue while simultaneously reducing carbon emissions.





Pyrogreen - Biomass Carbonization/Torrefaction Solution





Different Raw Materials Can Get Different Biochar



PYROGREEN ENERGY

Wuxi Powermax Renewable Energy Technology Co.,Ltd. Wuxi Teneng Power Machinery Co., Ltd.







www.pyrogreen-energy.com



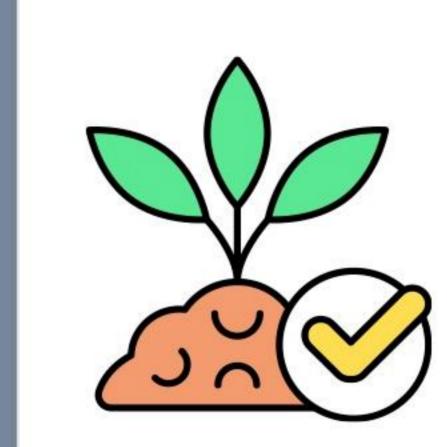
Company Address: 6th floor, Chuangrong Building Block C, Danshan Road, Anzhen Street, Xishan District, Wuxi, Jiangsu, China. Factory Address: No.139, Jiaoyang East Road, Yangjian Town, Xishan District, Wuxi, Jiangsu, China.

BIOCHAR & BIOCOAL SOLUTION



Pyrogreen - Biomass Carbonization/Torrefaction Solution

"Biochar, Green Energy, a Carbon-reduced Future."



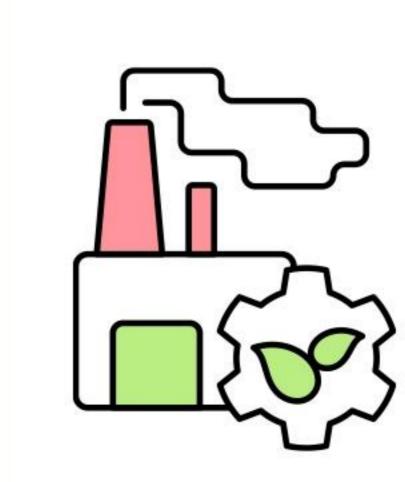
SOIL ADDITIVE

As a soil additive, biochar can improve soil structure, increase soil fertility, improve soil water and fertilizer retention capacity, and promote plant growth.



FEED ADDITIVE

As a feed additive, biochar can improve the digestion and absorption capacity of animals, improve intestinal health, reduce ammonia emissions, and promote animal



FILLING MATERIAL IN PRODUCTION

In the field of metallurgy and casting, the biochar can be used to cover on the surface of the liquid steel and iron to reduce the radiation, convection and thermal loss.



BUILDING MATERIAL ADDITIVE

As a building material additive, biochar can be used to prepare environmentally friendly concrete, bricks and other building materi-

PYROGREEN'S SOLUTION

As a leader in advanced thermochemistry processing systems, Pyrogreen provides customized rotary kiln type and screw type carbonization/torrefaction system for the production of biochar from different kinds of biomass. Sometimes referred to as torrefaction, the pyrolysis of biomass into a high quality biochar product is a technical endeavor, requiring advanced knowledge of thermochemistry processing principles. Pyrogreen process experts would work with you to design this system based on your unique source of material.

Advantage:

- 1) Modular Concept, easy transportation and installation.
- 2 No tar and liquid waste production.
- 3 Fully Automation.
- 4 Extremly Low NOx, CO, Particle Emission.
- (5) High thermal efficiency and high quality and quantity biochar production.



MODULAR CONCEPT

Containerized Pyrogreen allows easy and fast transportation and installation, saving land resources and is more economical.



EXPERT SUPPORT

Our specialized engineers provide comprehensive and timely support, ensuring engineering and design of the unique project and smooth installation, commissioning and operation of Pyrogreen.





ENVIRONMENTAL FRIENDLY

Fully automated, high thermal efficiency without tar or liquid waste produced and extremely low NOx, CO, Particle Emission.



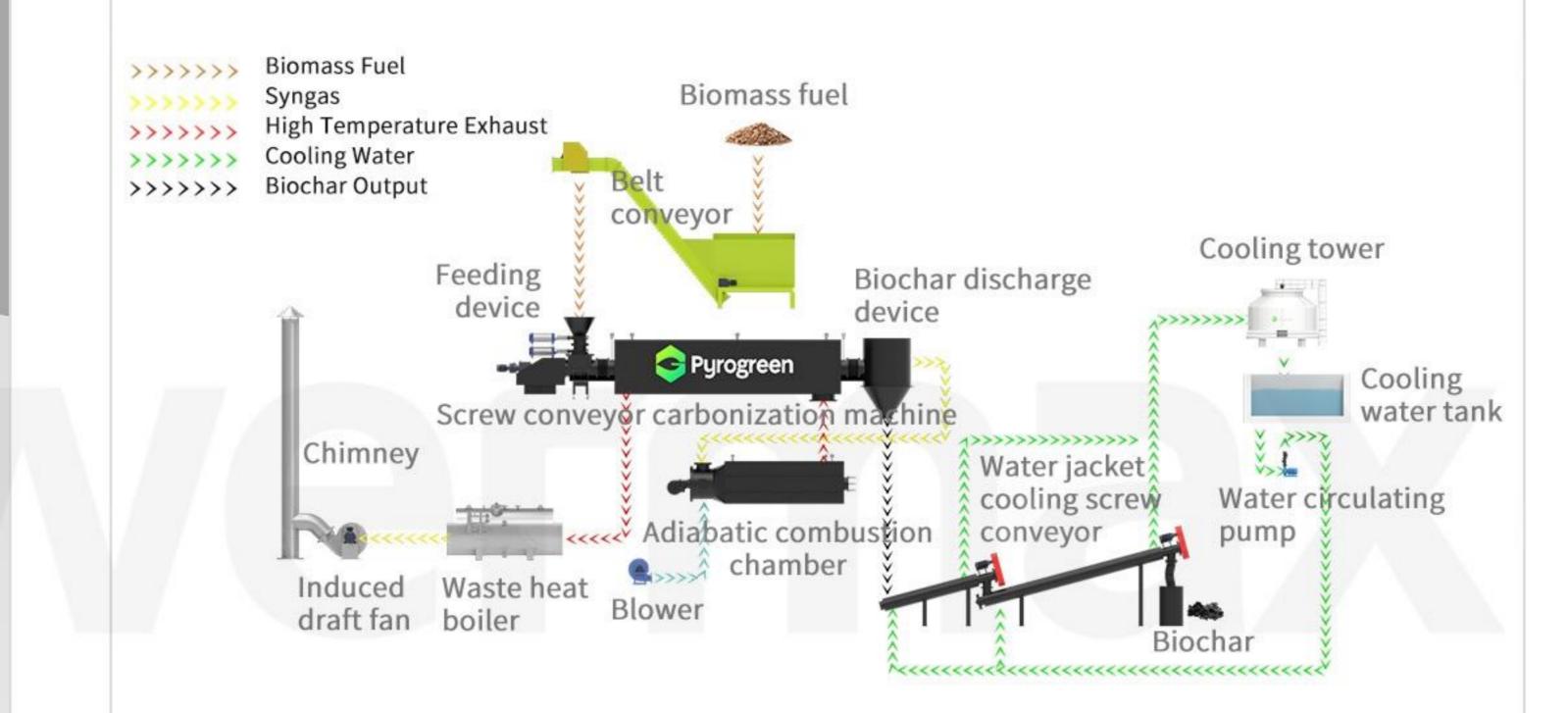
CARBON CREDIT GENERATION

Biochar is recognised globally as a premium carbon credit for its role in carbon reduction and sequestration. Pyrogreen produces all kinds of biochar with low H/C ratio and high quality which is suitable for agricultural, environmental and industrial use, thus generating carbon credit while achieving extra revenue.

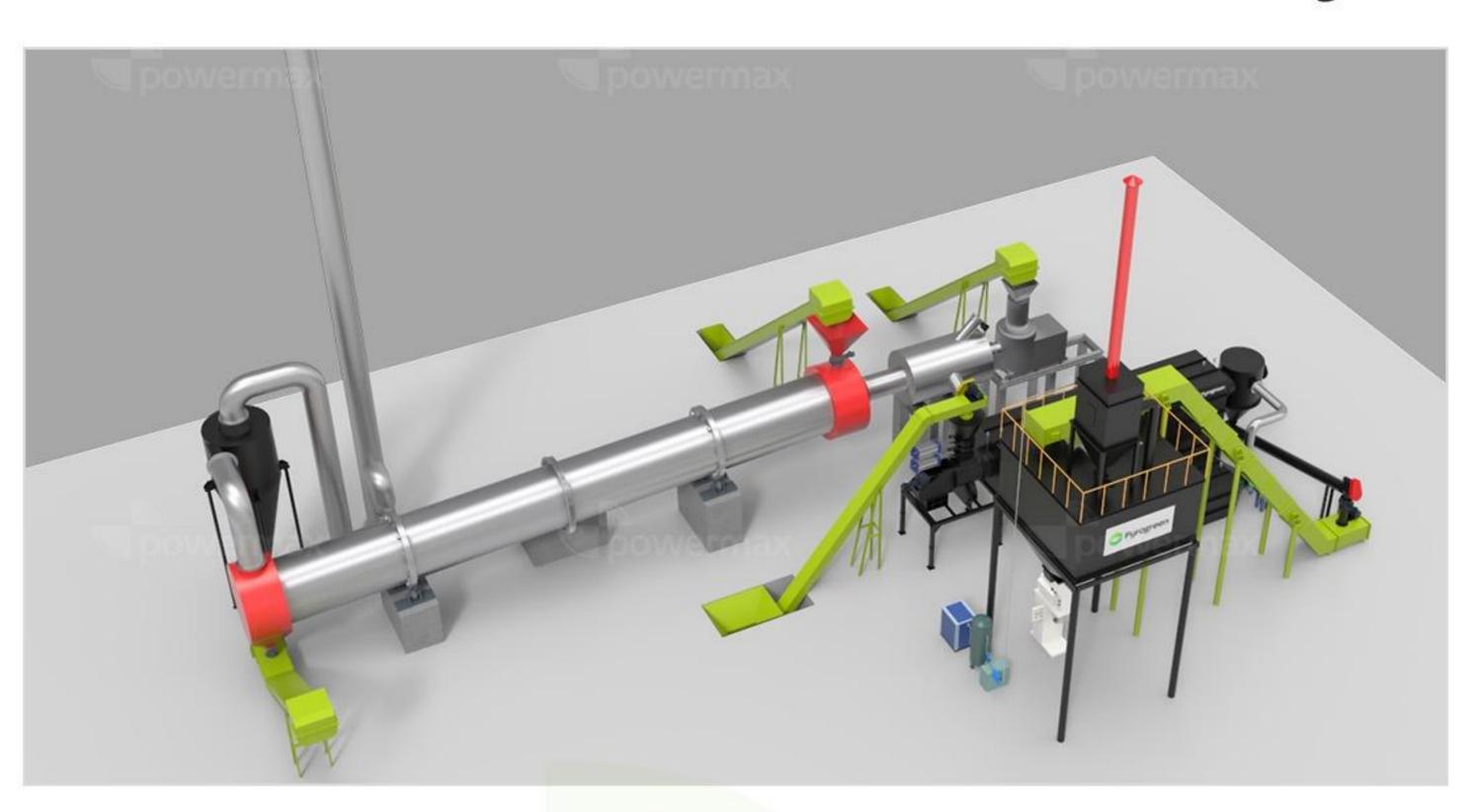


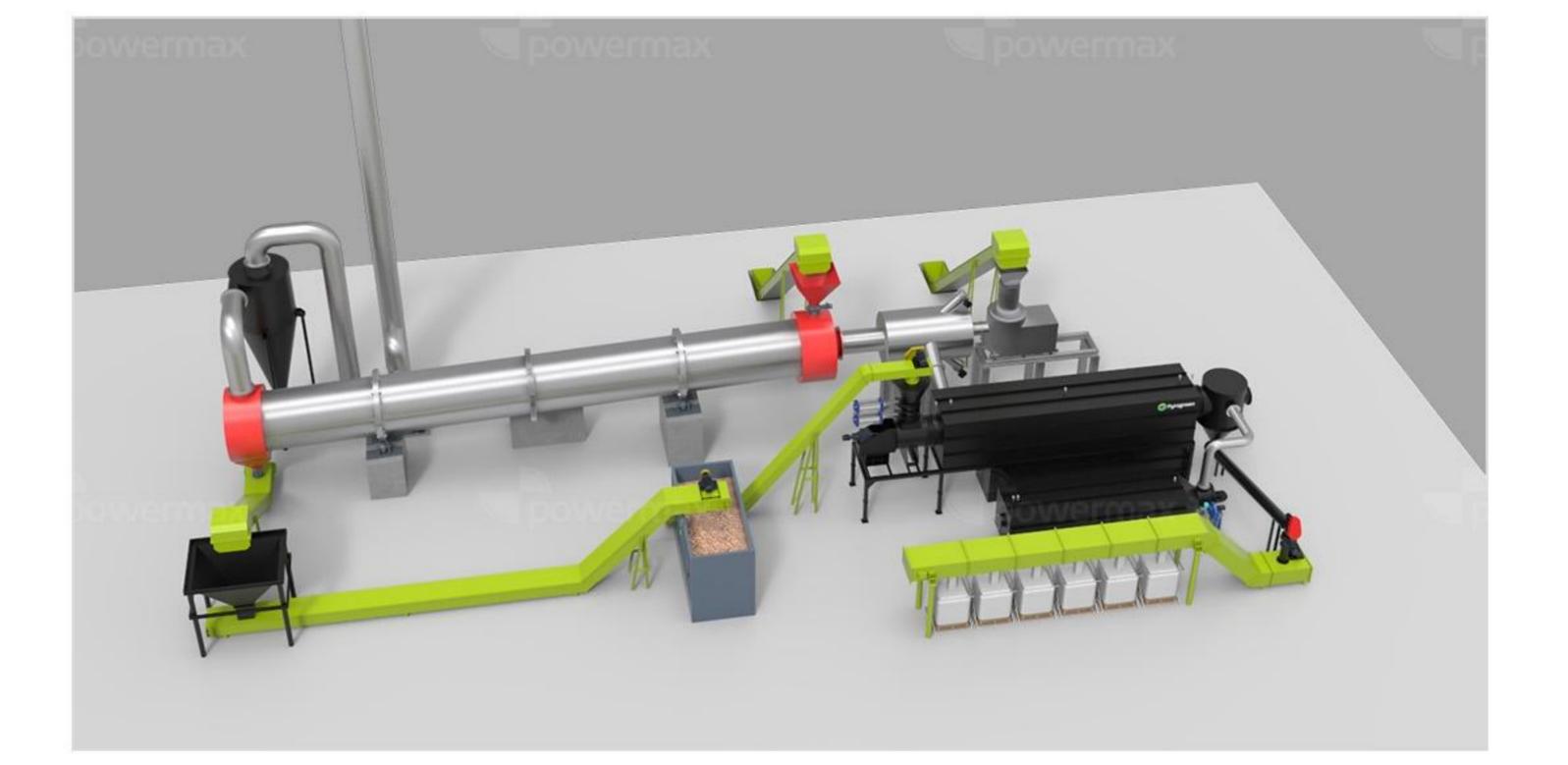
SCREW CONVEYOR CARBONIZATION/ TORREFACTION SYSTEM

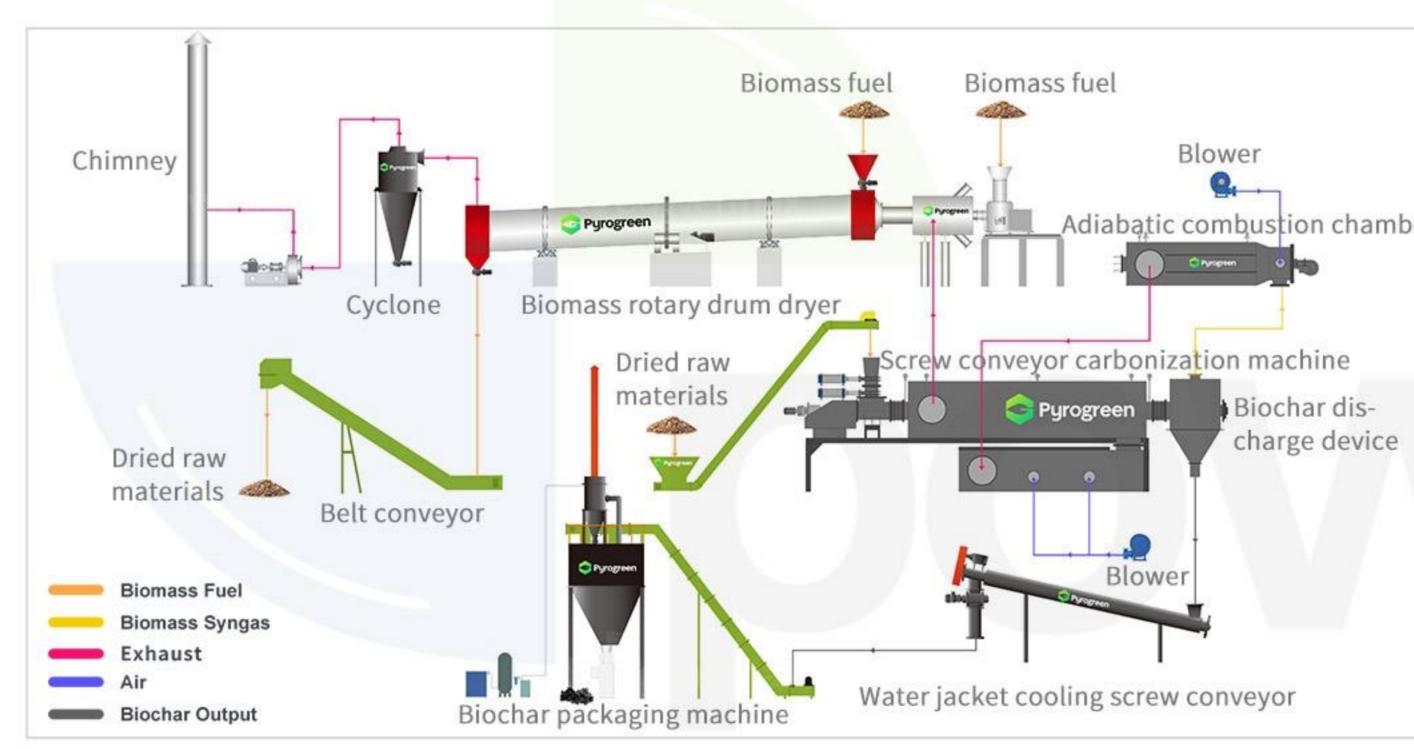


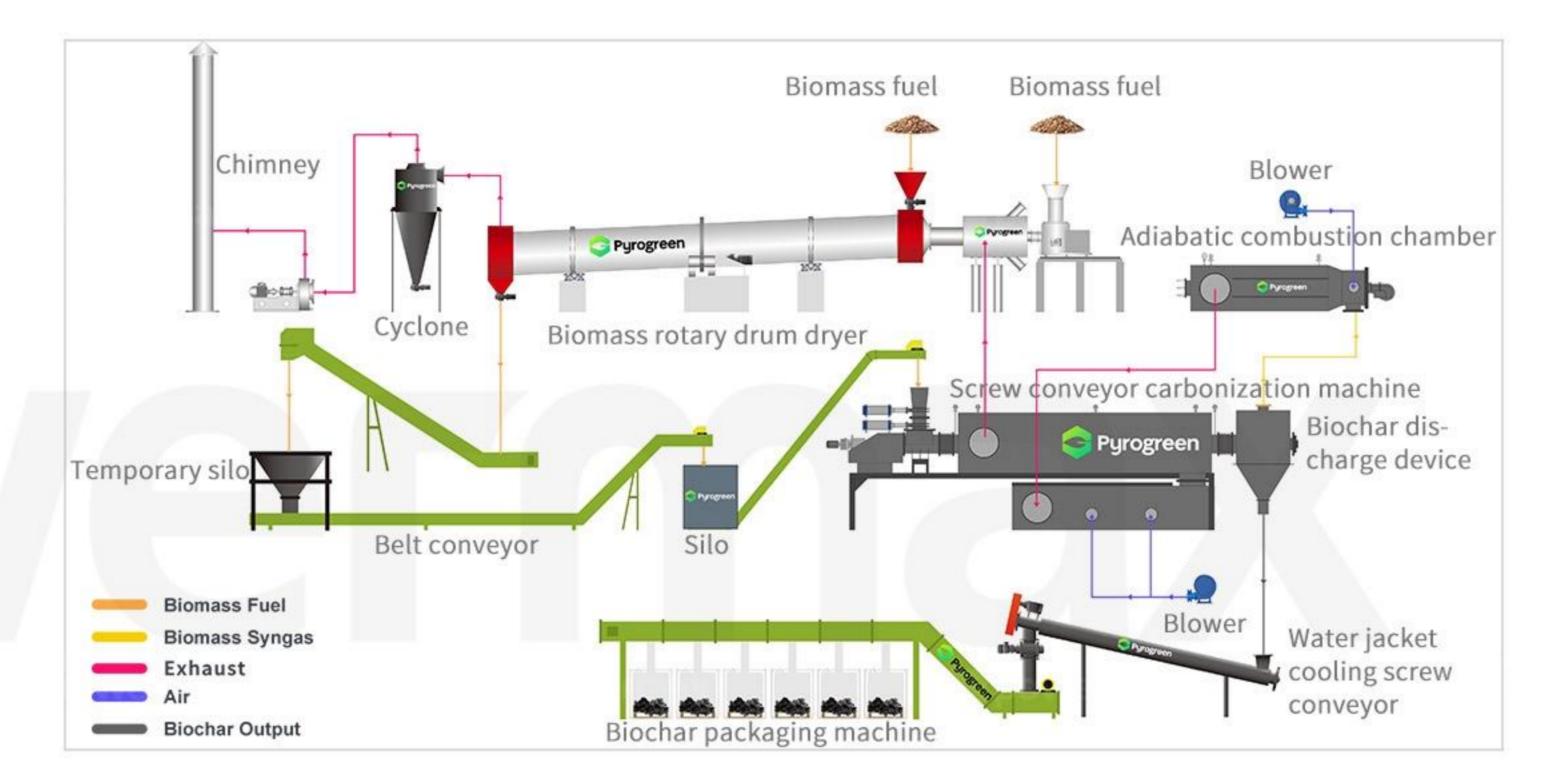


1.5T Biomass Screw Conveyor Carbonizer and Drying System



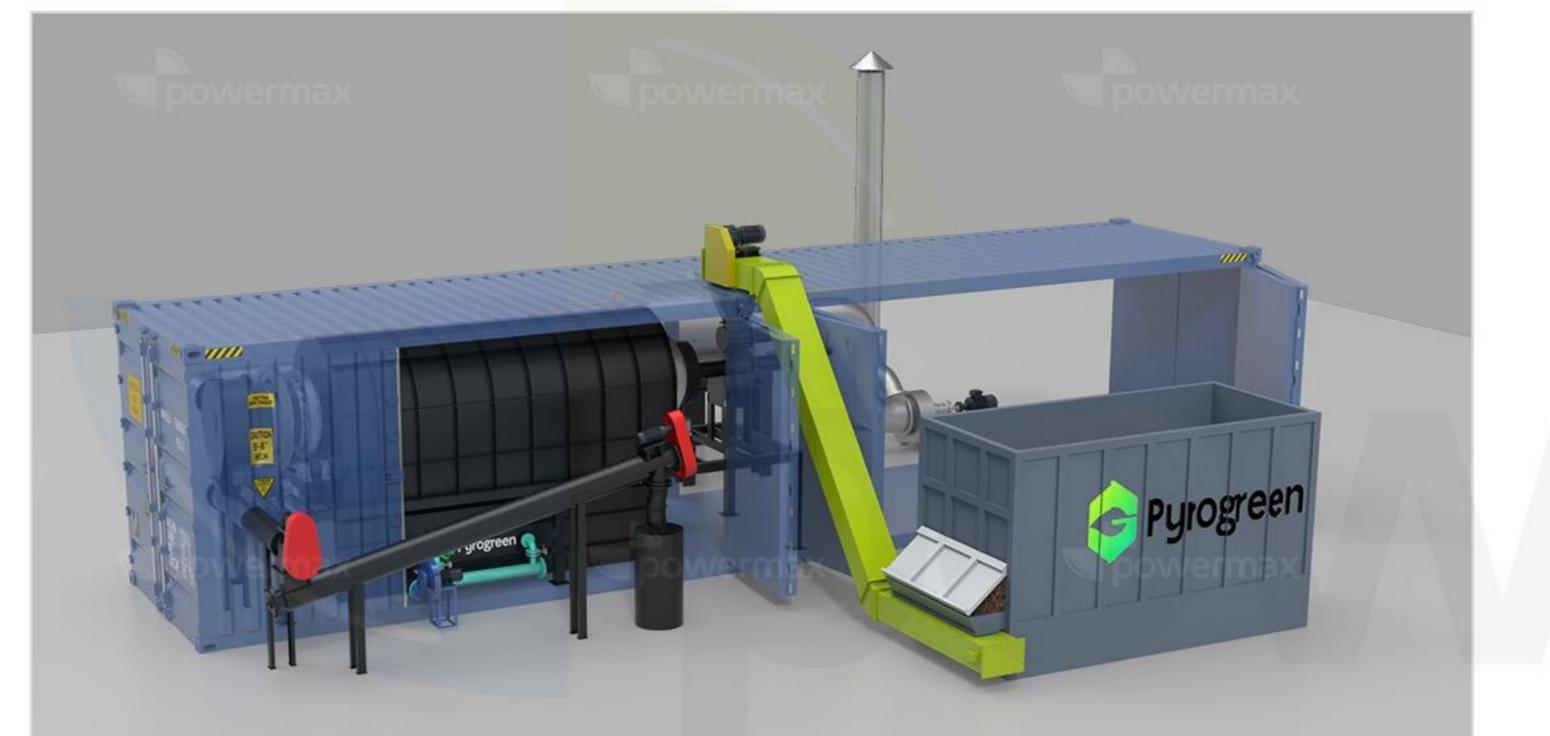


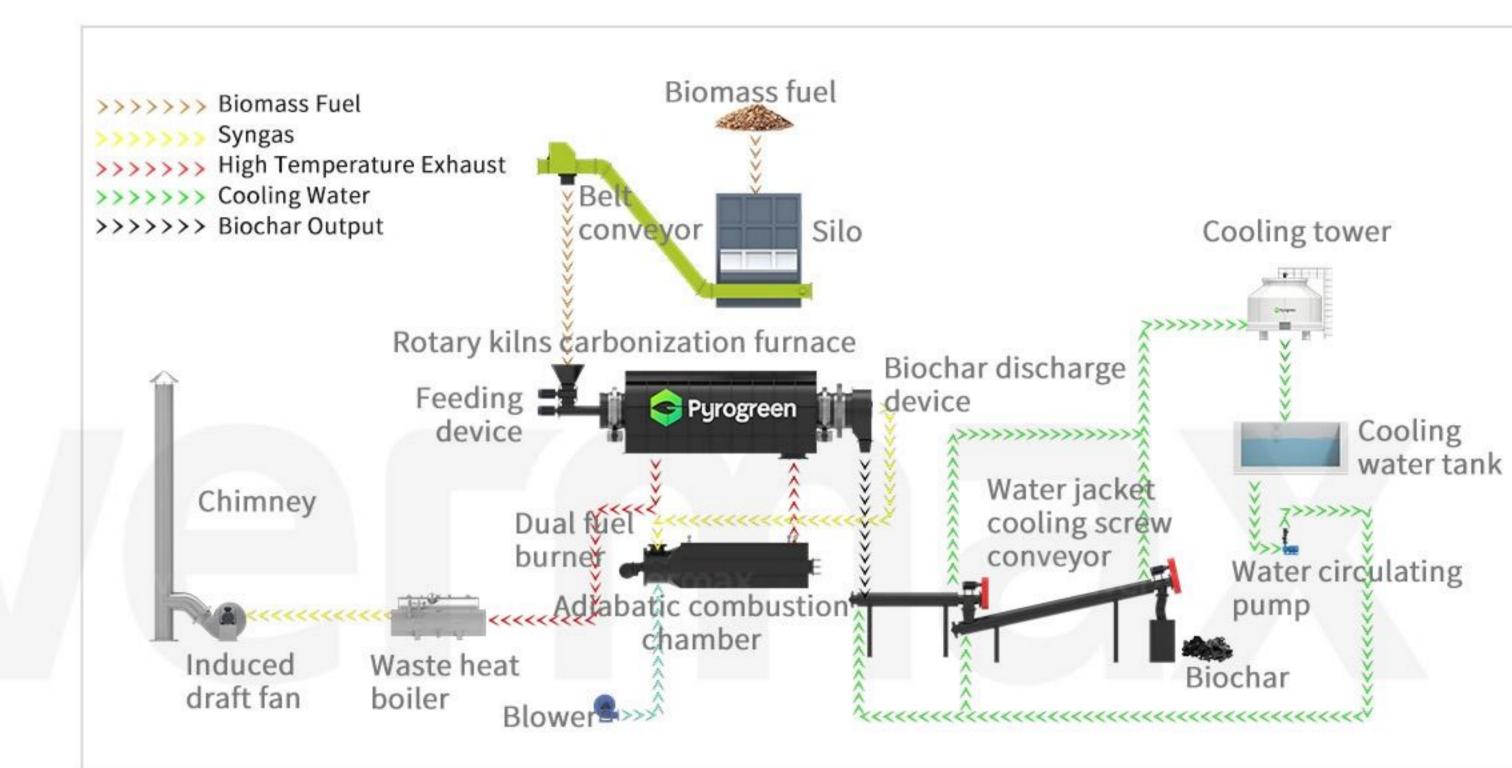




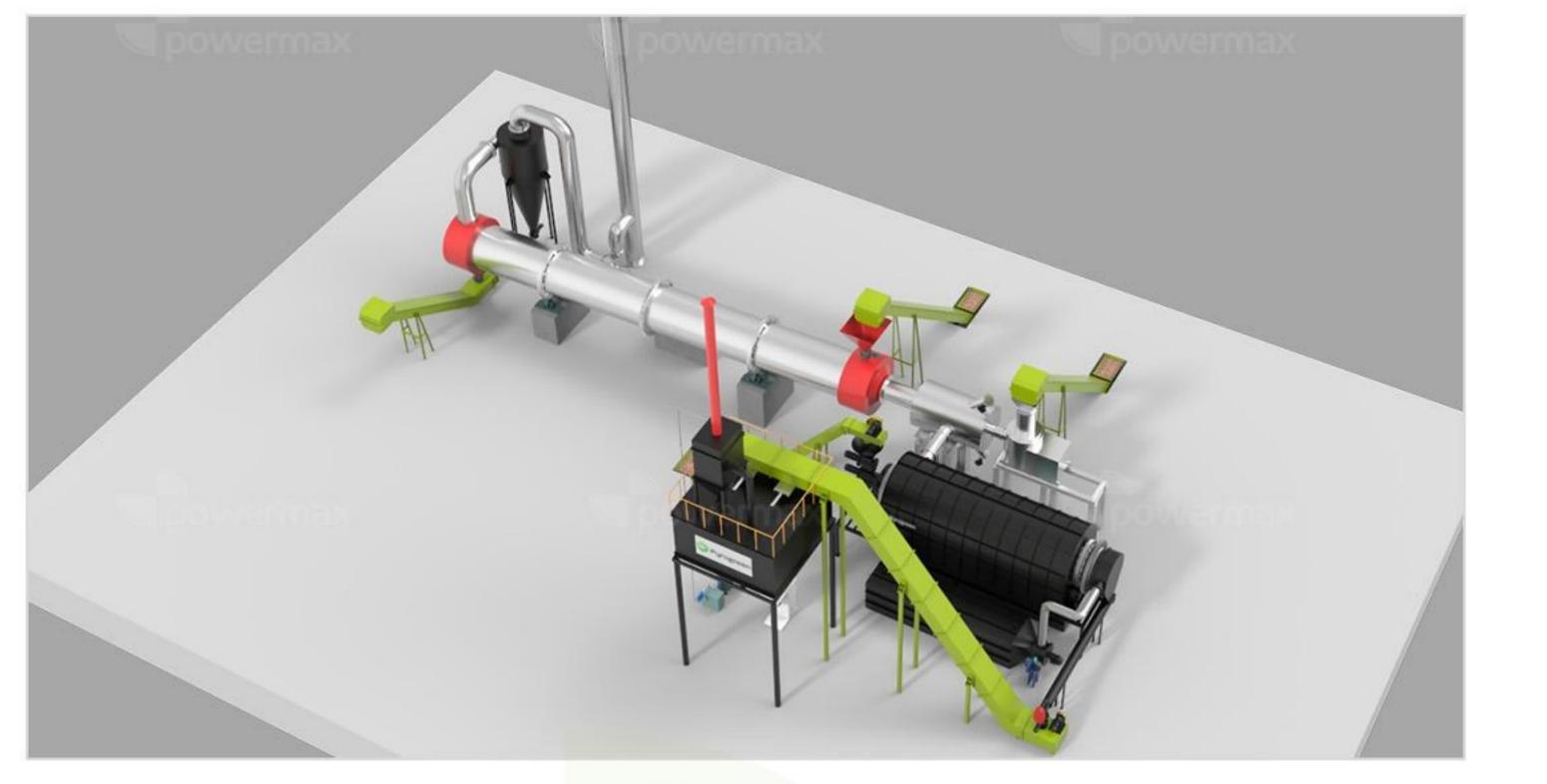
Model BSCC 1000 BSCC5000 Feed Rate 1m³/h(300kg) 5m³/h(1500kg) Footprint(L*H) 15m*10.5m 18m*12.5m Working Mode Continuous Feed Requirements Size ≤ 20mm(5-8mm is optimal), MC ≤ 15% Construction Indirect Heating Screw Conveyor Type Control Mode PLC Control System Material SS310S+SS304 Pressure Micro Negative Pressure	Biomass Screw Conveyor Carbonizer						
Footprint(L*H) Working Mode Continuous Feed Requirements Size≤20mm(5-8mm is optimal), MC≤15% Construction Indirect Heating Screw Conveyor Type Control Mode PLC Control System Material Pressure Micro Negative Pressure	Model	BSCC 1000	BSCC5000				
Working Mode Continuous Feed Requirements Size≤20mm(5-8mm is optimal), MC≤15% Construction Indirect Heating Screw Conveyor Type Control Mode PLC Control System Material SS310S+SS304 Pressure Micro Negative Pressure	Feed Rate	1m³/h(300kg)	5m³/h(1500kg)				
Feed Requirements Size≤20mm(5-8mm is optimal), MC≤15% Construction Indirect Heating Screw Conveyor Type Control Mode PLC Control System Material SS310S+SS304 Pressure Micro Negative Pressure	Footprint(L*H)	15m*10.5m	18m*12.5m				
Construction Indirect Heating Screw Conveyor Type Control Mode PLC Control System Material SS310S+SS304 Pressure Micro Negative Pressure	Working Mode	Continuous					
Control Mode Material Pressure PLC Control System SS310S+SS304 Micro Negative Pressure	Feed Requirements	Size≤20mm(5-8mm is optimal), MC≤15%					
Material SS310S+SS304 Pressure Micro Negative Pressure	Construction	Indirect Heating Screw Conveyor Type					
Pressure Micro Negative Pressure	Control Mode	PLC Control System					
	Material	SS310S+SS304					
	Pressure	Micro Negative Pressure					
Diesel, natural gas, heavy oil,etc	Heating fuel	Diesel, natural gas, heavy oil,etc					
Heating Mode Indirect Heating	Heating Mode	Indirect Heating					
Noise(dB) ≤80	Noise(dB)	≤80					
Cooling Mode Circulating Water Cooling	Cooling Mode	Circulating Water Cooling					

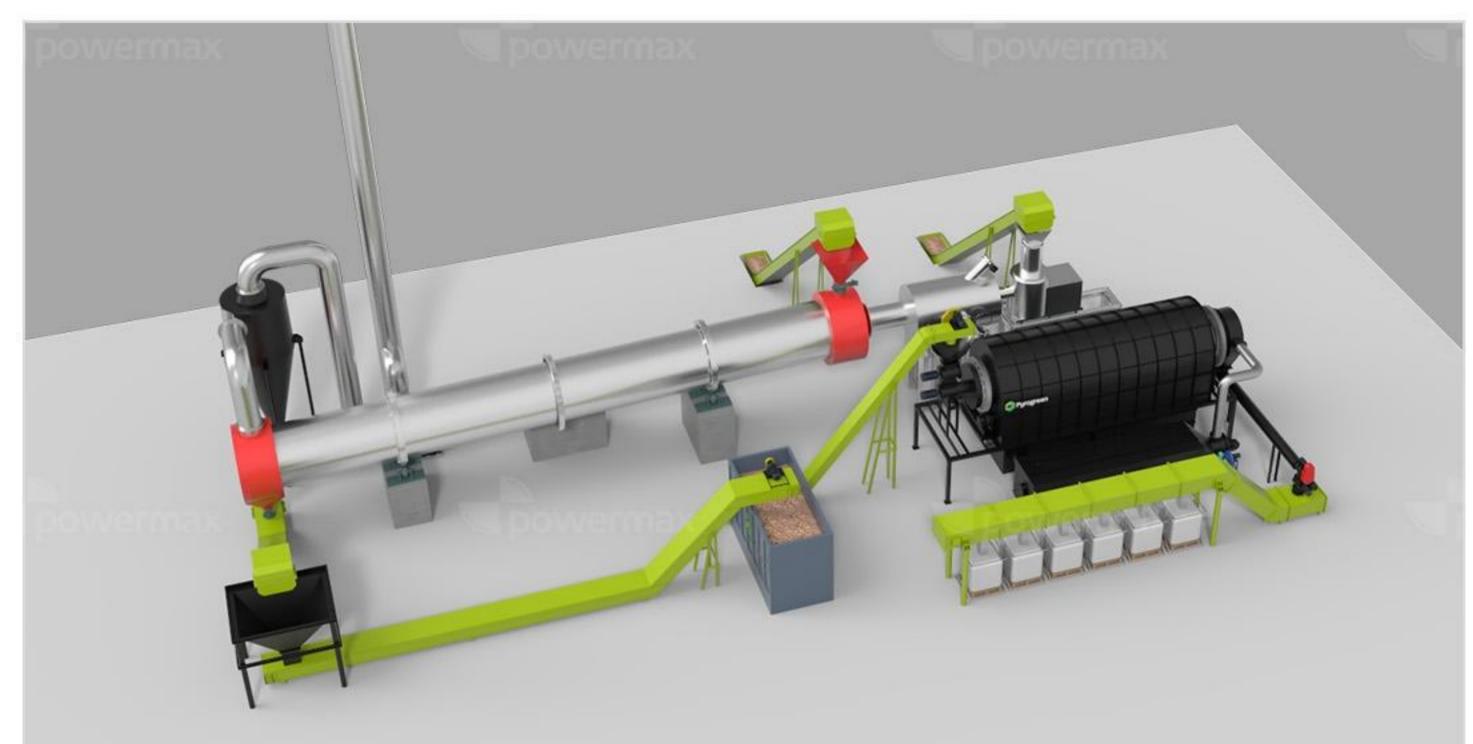
ROTARY KILNS CARBONIZATION/ TORREFACTION SYSTEM

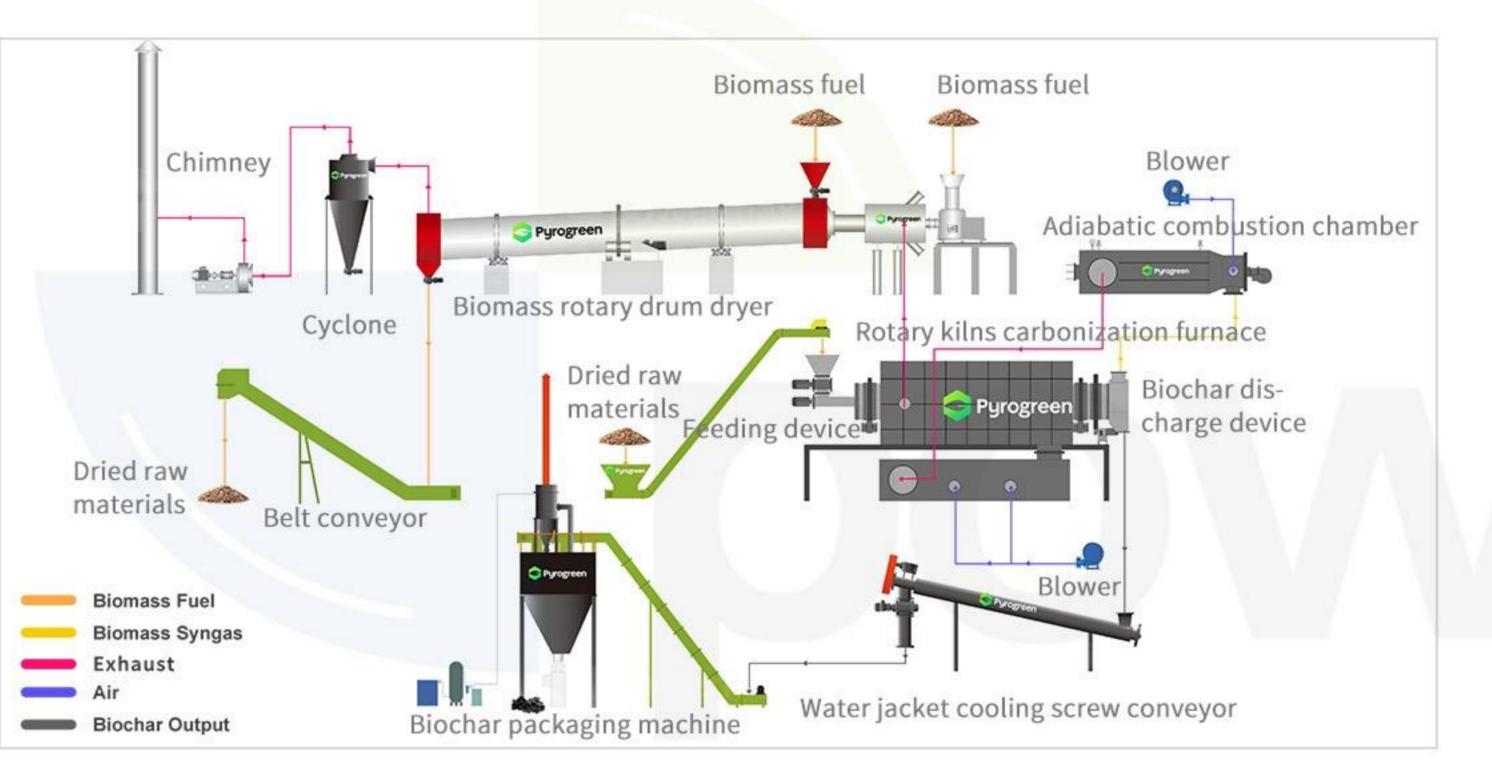


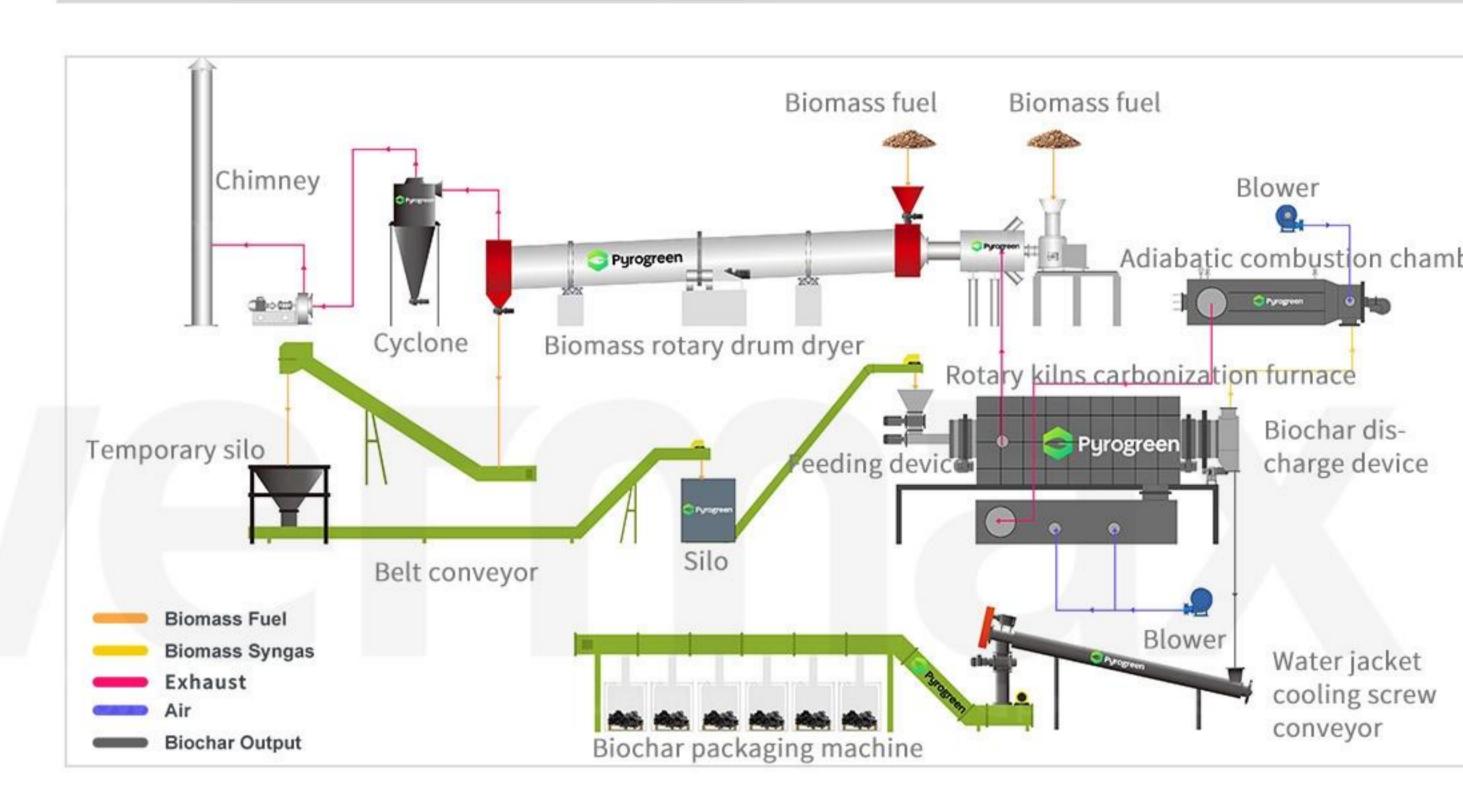


1.5T Biomass Rotary Kilns Carbonizer and Drying System









Biomass Rotary Kilns Carbonizer							
Model	BRKC600	BRKC1000	BRKC1500	BRKC3000	BRKC5000		
Feed Rate	0.6m³/h(200kg)	1m³/h(300kg)	1.5m³/h(500kg)	3m³/h(1000kg)	5m³/h(1500kg)		
Footprint(L*H)	12m*10.5m	15m*10.5m	16m*11m	17m*12m	18m*12.5m		
Working Mode	Continuous						
Feed Requirements	Size≤50mm, MC≤15%						
Construction	Indirect Heating Rotary Kilns Type						
Control Mode	PLC Control System						
Material	SS310S+SS304+Carbon Steel						
Pressure	Micro Negative Pressure						
Heating fuel	Diesel, natural gas, heavy oil,etc						
Heating Mode	Indirect Heating						
Noise(dB)	≤80						
Cooling Mode	Circulating Water Cooling						
Rotation Mode	External Gear Rotation						