


Horizontal Carbonization Furnace

High-efficiency carbonization for biomass & charcoal production



 0.2-2 T/h

 High carbon yield

 CE Certified



⚙️ Horizontal carbonization furnace – continuous & efficient operation

Advanced Carbonization Solution

Manto Machinery horizontal carbonization furnace series adopts advanced horizontal rotating carbonization technology matched with airtight oxygen-free and even thermal circulation systems. Specially designed for carbonizing raw logs, bamboo, compressed wood briquettes, coconut shells and other biomass materials, this professional carbonization equipment efficiently processes bulk biomass feedstocks into high-quality raw wood charcoal, bamboo charcoal, machine-made charcoal and coconut shell charcoal for commercial and household applications.

Key advantages: Stable continuous carbonization operation, thorough carbonization effect with high product yield, adjustable heating time and temperature for versatile material processing, and heavy-duty welded furnace structure that ensures long service life. The standardized modular design enables seamless connection with drying and briquetting equipment to form a fully integrated charcoal production line.



High Output

0.2–2 T/h capacity



Sturdy & Reliable

Low maintenance cost



Uniform Heating

Consistent charcoal quality



Easy Operation

Automated control

Key Applications

Raw Wood Charcoal

Bamboo Charcoal

Machine-made Charcoal

Coconut Shell Charcoal

Industrial Carbon

Global Export Business

Professional Custom

Full Plant Design

Reliable After-sales

🌲 Applicable Raw Materials



☒ Sawdust briquettes



🌲 Logs



🎋 Bamboo



🥥 Coconut shells

📦 Output & Applications



🔥 Raw wood charcoal



🎋 Bamboo charcoal



⚙️ Machine-made charcoal



🥥 Coconut shell charcoal

High fixed carbon · Low ash content · Ideal for BBQ, industrial filtration, deodorization & soil amendment

📈 Typical Carbonization Effect

High carbon yield ($\geq 80\%$)
Uniform charcoal with excellent hardness
Low volatile matter

🌿 Eco Benefits

1 ton biomass \rightarrow 0.3–0.4 ton charcoal
Reduces greenhouse gas emissions vs. open burning



Complete carbonization line – efficient & stable

Technical Specifications

Model	Internal Dimensions (m)	Output (kg/24h)	Equipment Weight (t)
200	ø1.2 × 1.9	150–300	1.5
400	ø1.4 × 2	300–450	2
600	ø1.8 × 2.2	400–650	3
800	ø1.8 × 3	650–800	4.5
1000	ø1.8 × 4.5	1000–1500	6.5
2000	ø1.9 × 5.8	1500–2000	9

* Parameters based on standard raw materials. Actual output varies by material type and moisture content.

Optional Upgrades: Automatic feeding/discharge system · Gas cleaning unit · PLC control panel · Customized furnace dimensions.

Carbonization Furnace Highlights

Oxygen-free carbonization

Continuous operation

Low emission

High carbon yield

CE Certification

48h After-sales Response

Free Line Design

7×24h Tech Support



Sustainable Carbonization Solutions

Reliable Partner for Charcoal Production & Biomass Utilization

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