

# Vertical Carbonization Furnace

High-efficiency carbonization for biomass & charcoal production



🌿 1-2 T/h

💎 High carbon yield

🌿 CE Certified



Vertical carbonization furnace – continuous & efficient operation

## Advanced Carbonization Solution

Manto Machinery vertical carbonization furnace series adopts advanced vertical high-temperature carbonization technology matched with sealed oxygen-isolating and uniform heating systems. Specially designed for carbonizing raw logs, bamboo, compressed wood briquettes, coconut shells and other biomass materials, this professional carbonization equipment efficiently converts raw biomass resources into finished raw wood charcoal, bamboo charcoal, machine-made charcoal and coconut shell charcoal for diverse industrial and civil uses.

**Key advantages:** Stable continuous carbonization operation, high carbonization rate and raw material utilization rate, uniform heating performance for consistent finished charcoal quality, and high-strength sealed 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

1-2 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	Power (kW)	Output (kg/24h)	Internal Dimensions (m)
1460	—	1000	ø1.4 × 1.5
1890	—	1500	ø1.8 × 1.5

\* 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-isolated carbonization

⚙️ Continuous operation

🌿 Low emission

📈 High carbon yield

🛡️ CE Certification

🚚 48h After-sales Response

👤 Free Line Design

📞 7×24h Tech Support

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## Sustainable Carbonization Solutions

Reliable Partner for Charcoal Production & Biomass Utilization

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🌱 CE Certified · Global Service

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