



Rotary Drum Dryer

Efficient biomass drying for pellets, briquettes & carbonization



 0.8–5 t/h

 Low energy consumption

 CE Certified



⚙️ Continuous rotary drum dryer – ideal for wood chips, sawdust & bamboo

Advanced Drying Solution

Manto Machinery roller dryer equipment series adopts advanced rotary drum drying technology matched with intelligent temperature control and uniform feeding systems. Specially designed for drying wood chips, bamboo scraps, crop residues and other biomass raw materials, this professional drying device serves as essential pre-processing equipment for mechanism charcoal production, realizing efficient moisture removal while maintaining the integrity of biomass materials.

Key advantages: Stable continuous drying operation, low heat loss and energy consumption, adjustable drying temperature and speed to adapt to different raw materials, and durable anti-corrosion drum structure for extended service life. The standardized modular design enables seamless connection with carbonization and briquetting equipment to form a fully integrated mechanism charcoal production line.



High Throughput

0.8–5 t/h capacity



Durable & Reliable

Low maintenance cost



Energy Efficient

Heat recovery system



Easy Operation

PLC control available

Key Applications

Wood Pellet Production

Charcoal Briquetting

Continuous Carbonization

Animal Bedding

Fertilizer Production

Global Export Business

Professional Custom

Full Plant Design

Reliable After-sales

🌲 Applicable Raw Materials



🌲 Wood chips

🪵 Sawdust

🌱 Bamboo shavings

🌽 Corn stalks

🌾 Rice husks

Feed moisture up to 50% · Particle size \leq 30mm

📦 Dried Output & Applications

💧 Moisture Content

Reduced to **below 15%**
Stable for storage & further processing

⚙️ Primary Uses

Biomass Pellets · Charcoal Briquettes
Continuous Carbonization Feedstock

◆ Suitable for organic fertilizer production

◆ Ideal for pelletizing

◆ Suitable for briquetting

◆ Carbonization pre-treatment

Dried biomass is ready for high-quality pellet production, charcoal briquette forming, or continuous carbonization processes.

📈 Typical Drying Effect

Initial moisture 50% → final <15%
Uniform drying throughout the drum

🌿 Eco Benefits

Reduced energy consumption per ton
Lower emissions vs. traditional drying



🌲 Complete drying system – efficient & stable

📋 Technical Specifications

Model	Power (kW)	Output (t/h)	Drum Dimensions (m)
800	5.5	0.8–1	Ø0.8×8
1000	7.5	1–1.5	Ø1×15
1200	15	1.5–2	Ø1.2×15
1500	18.5	2–3.5	Ø1.5×15
1800	22	4–5	Ø1.8×20

* Parameters based on standard wood chips (initial moisture 50%, final <15%). Actual output varies with material type and moisture.

🔧 **Optional Upgrades:** Automatic feeding system · Discharge conveyor · Hot air generator · PLC control panel · Customized dimensions.

Rotary Dryer Highlights

🌿 Efficient heat transfer

⚙️ Continuous operation

🌿 Low dust emission

📏 High drying uniformity

🌐 CE Certification

🚚 48h After-sales Response

📄 Free Line Design

📞 7×24h Tech Support



Sustainable Drying Solutions

Reliable Partner for Biomass Drying & Preparation

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