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Briquetting Machine Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Screw Briquetting Machines, Hydraulic Briquetting Machines, Mechanical Briquetting Machines, Roller Press Briquetting Machines), By Material (Biomass, Charcoal, Coal, Metal Chips, Others), By End-Use (Agriculture, Metallurgy & Mining, Energy & Power, Manufacturing, Others), By Region, and By Competition, 2020-2030F

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Abstracts

Market Overview

The Global Briquetting Machine Market was valued at USD 1.13 Billion in 2024 and is expected to reach USD 1.75 Billion by 2030 with a CAGR of 7.43% during the forecast period.

The global briquetting machine market is experiencing steady growth, driven by the increasing need for efficient waste management and the rising demand for renewable energy solutions. Briquetting machines, which compress waste materials such as biomass, wood, metal, and other residues into compact, reusable briquettes, are gaining traction across industries for their ability to reduce transportation costs, enhance fuel efficiency, and support sustainable practices. The surge in global energy consumption, coupled with growing environmental concerns, has prompted governments and industries to adopt eco-friendly technologies. This has significantly boosted the adoption of biomass and coal briquetting machines, particularly in emerging economies like India, China, and several African nations, where agricultural and forestry

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waste is abundant and often underutilized.

Technological advancements in briquetting systems, such as the integration of automation, hydraulic power, and improved press designs, have further enhanced machine efficiency and output quality. These innovations are enabling manufacturers to cater to diverse end-user industries, including agriculture, metallurgy, energy, recycling, and chemical processing. The market is also witnessing an increasing demand for customized solutions, as end-users seek machines that can handle specific feedstocks and offer consistent briquette quality. In addition, the rise in carbon credit programs and government subsidies for renewable energy projects is encouraging small and medium enterprises to invest in briquetting machines as a viable alternative to fossil fuels.

Key Market Drivers

Push for Renewable Energy and Carbon Emission Reduction

One of the key drivers for the global briquetting machine market is the global shift toward renewable energy and reducing carbon emissions. Biomass briquettes are a cleaner alternative to coal and fossil fuels, emitting significantly lower greenhouse gases. For instance, burning biomass briquettes can reduce CO? emissions by up to 50% compared to coal combustion. Additionally, over 1 billion tons of agricultural waste is produced globally every year, offering vast raw material availability for briquetting. In developing countries, more than 70% of rural energy consumption still depends on traditional biomass, highlighting the opportunity for clean fuel conversion. Biomass briquettes have a calorific value ranging between 3,800 to 4,800 kcal/kg, making them efficient for industrial heating applications. In European industrial operations, briquette use has contributed to reducing particulate matter emissions by 30–40%. With governments enforcing stricter emission standards, industries are adopting briquetting solutions to comply with sustainability mandates. Furthermore, some nations offer carbon credits of up to USD10–15 per ton of CO? offset, encouraging biomass briquette production and use.

Key Market Challenges

High Initial Capital Investment and Operating Costs

Despite long-term cost savings, one of the biggest barriers to adoption of briquetting machines is the high upfront investment required. Industrial-grade briquetting machines can cost anywhere from USD20,000 to over USD200,000 depending on size, output

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capacity, and technology. For small and medium enterprises (SMEs), particularly in developing countries, this represents a significant financial burden. In addition to equipment costs, setting up briquetting plants involves expenditures on land, raw material handling, drying systems, labor, power supply, and maintenance infrastructure. Operational costs can also be high, especially for machines requiring consistent power inputs or those using hydraulic systems, which have greater energy consumption. In areas with unreliable electricity or high utility costs, maintaining continuous operation becomes difficult. Furthermore, regular maintenance of moving components, replacement of dies and rollers, and periodic machine downtime add to ongoing expenses. While government subsidies and incentives help, access to financing remains a major hurdle for businesses in rural or underdeveloped regions. As a result, the total cost of ownership remains a significant challenge, slowing widespread market penetration—especially in cost-sensitive economies.

Key Market Trends

Growth in Decentralized Briquetting Units and Community Models

There is a noticeable trend toward decentralized briquetting systems, particularly in rural and off-grid regions of Africa, Asia, and Latin America. These smaller-scale units are designed to serve local communities, cooperatives, or clusters of small businesses that collectively process agricultural waste into briquettes for local consumption or sale. Unlike large industrial plants, decentralized models are easier to set up, require lower capital investment, and are more adaptable to regional feedstocks. They empower local economies by creating jobs, reducing dependence on firewood, and providing a sustainable energy alternative. Community-based briquetting centers, often supported by NGOs or government rural development schemes, are becoming hubs for clean energy access. In Uganda and Kenya, for instance, over 1,000 community-based units have been established in the past decade, producing more than 100 tons of briquettes per day collectively. These models often use simplified screw-type or piston-press machines, powered by diesel or solar hybrid systems, to operate in low-infrastructure environments. The decentralized trend aligns with global sustainability goals, supporting circular economies and promoting local ownership of energy systems.

Key Market Players

RUF Maschinenbau GmbH & Co. KG

WEIMA Maschinenbau GmbH

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C.F. Nielsen A/S

Komarek Inc.

Felder Group

Briquetting Systems Inc.

Prodeco S.r.l.

Jay Khodiyar Machine Tools

Radhe Industrial Corporation

Maxton Industrial Co., Ltd.

Report Scope:

In this report, the Global Briquetting Machine Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Briquetting Machine Market, By Type:

Screw Briquetting Machines

Hydraulic Briquetting Machines

Mechanical Briquetting Machines

Roller Press Briquetting Machines

Briquetting Machine Market, By Material:

Biomass

Charcoal

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- Coal
- Metal Chips
- Others

Briquetting Machine Market, By End-Use:

- Agriculture
- Metallurgy & Mining
- Energy & Power
- Manufacturing
- Others

Briquetting Machine Market, By Region:

- North America
  - United States
  - Canada
  - Mexico
- Europe
  - Germany
  - France
  - United Kingdom
  - Italy

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Spain

South America

Brazil

Argentina

Colombia

Asia-Pacific

China

India

Japan

South Korea

Australia

Middle East & Africa

Saudi Arabia

UAE

South Africa

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Briquetting Machine Market.

Available Customizations:

Global Briquetting Machine Market report with the given market data, TechSci Research

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offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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