

Turn Biochar and Biomass Dust into Higher-Value Pellets



Pelletizing and agglomeration equipment for cleaner handling, better logistics, and more consistent end products.

Why Pelletize?

Biochar and biomass powders are difficult to handle, transport, and apply consistently. Pelletizing transforms fine dusts into uniform, dense pellets that reduce operational costs, minimize dust hazards, and create a more marketable product. Whether you're producing biochar for carbon removal, soil amendments, or biomass for energy applications, pelletizing upgrades your powder into a premium product.

1. Uniform Size and Shape

Consistent pellet dimensions make handling, storage, and distribution straightforward and predictable.

2. Improved Handling

Pellets are easy to move, load, and dose compared to loose powders. No bridging, no clumping.

3. Higher Bulk Density

Pellets increase bulk density by up to 50%, reducing storage space and transport costs.

4. More Precise Dosage

Uniform pellets allow accurate metering and application rates for soil, compost, or industrial use.

5. Reduced Dust and Spillage

Pelletizing eliminates airborne dust hazards and minimizes product loss during handling and transport.

6. Better Storage and Transport Efficiency

Reduced volume and higher density lower warehousing costs and shipping expenses.

7. Consistent Product Properties

Standardized pellets ensure every batch performs the same way in the field or process.

8. Longer Shelf Life

Pellets resist moisture absorption and degradation better than loose powders.

9. Easier Blending

Pellets mix cleanly with fertilizers, compost, or other additives for custom formulations.

10. Versatility Across Applications

Use pelletized biochar and biomass for soil improvement, carbon sequestration, energy production, water filtration, and more.

Who Benefits?

- Biochar producers scaling up for carbon removal projects
- Biomass processors preparing feedstock for energy or industrial use
- Soil amendment manufacturers creating branded, retail-ready products
- Agricultural suppliers delivering consistent, easy-to-apply biochar blends

About Mars Mineral

Mars Mineral has been delivering process development solutions since 1972. We design and manufacture equipment that pelletizes and agglomerates dusts and powders into consistent, high-value products. Our systems are built for durability, precision, and scalability—from pilot testing to full production.

Ready to upgrade your biochar or biomass powder?

Visit us at biocharpelletizing.com or contact us at info@marsmineral.com or +1 724-538-3000 to discuss pilot trials, equipment options, and custom solutions for your application.



Process Development Solutions Since 1972

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