

# **DISK PELLETIZER**



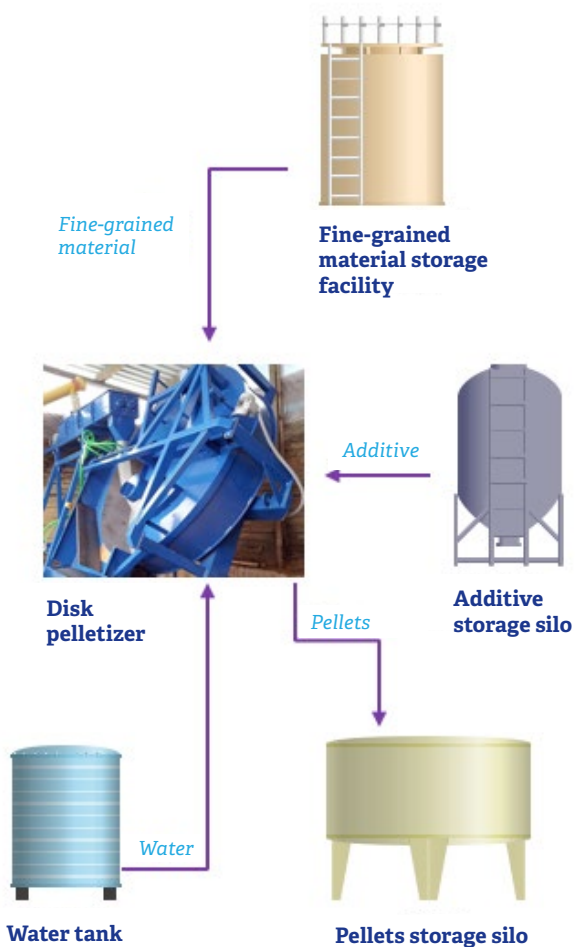
**CONVERTING**

**FINE-GRAINED WASTE  
TO GRANULATED MATERIAL**

**HAZARDOUS WASTE  
TO NON-TOXIC PRODUCT**

*/ Dust / Fly ash / Furnace dust  
/ Sludge / Thermally treated soil*

# PROCESS FLOW DIAGRAM

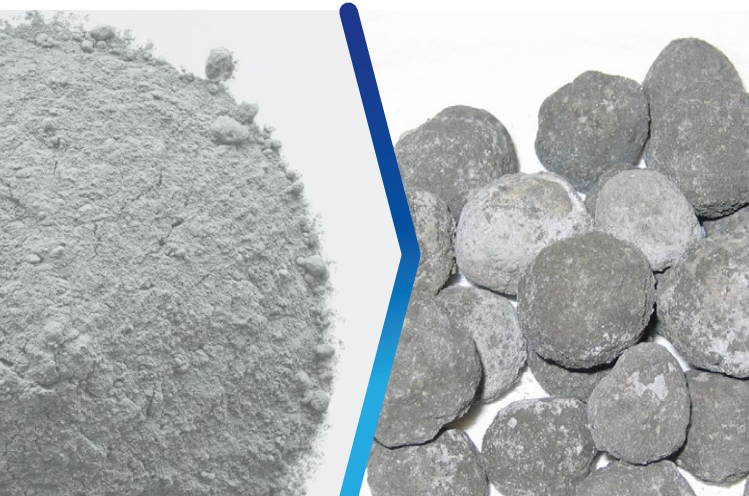


# PELLETIZING PROCESS

Disc pelletizers are used for granulating of fine-grained materials (such as dust, powder, fly-ash, slurry, sludge etc.). This process results in the production of pellets with the diameter of 4 - 20 mm. Suitable binder (such as cement, lime, bentonite etc.) can be added to the treated material to improve mechanical properties of pellets. The produced pellets can be subsequently processed, recycled or safely disposed.

Disc pelletizers are typically used for granulation of the following materials:

- Fly ash (electric power plants, heating plants, incineration plants)
- Filter dust (metallurgy, manufacture of glass, foundry plants, engineering plants etc.)
- Sludge and slurry (wastewater treatment plants, engineering plants, paint shops etc.)
- Fine-grinded ores and minerals (mineral processing, metallurgy, ceramics, building materials etc.)
- Fine-grinded chemicals (fertilizer, chemical and pharmaceutical industry etc.)



# EQUIPMENT DESCRIPTION

The rotary disc of a pelletizer is connected to a swinging steel frame. The disc is driven by an electric motor and a gearbox. The inclination of the rotary disc can be easily set-up by a hand-operated screw lever.

Fine-grained material intended for pelletizing (pre-mixed with suitable binding material - if necessary) is fed to the rotary disc where it is humidified by water sprayed through adjustable nozzles. As a result of snowball effect, pellets (granules of fine-grained material) are generated and compacted inside the rotating disc.

Finished pellets flow over the rotating disc edge to a discharging chute and a belt conveyer.

To prevent sticking of fine-grained material to the pelletizer, easily replaceable scrapers are installed inside the rotary disc.

The diameter of produced pellets can be controlled by inclination and rotation speed of the rotary disc.



# TECHNICAL PARAMETERS

- Capacity: ranging from 0,5 to 8,0 tons of treated waste per hour
- Dimensions:
  - ◆ Length: from 1,45 to 3,71 m
  - ◆ Width: from 1,16 to 2,91 m
  - ◆ Height: from 1,55 to 3,84 m
- Electric input power: from 1,5 to 7,5 kW (depending on the designed capacity)

## ***Client support services***

- Laboratory testing (suitable additives determination, physical-chemical properties of pellets)
- Pilot-scale verification
- Designing and permitting
- Installation of pelletizing equipment and start-up operation of pelletizing plants
- Staff training
- Maintenance



# Services and equipment for a better environment

## SERVICES

- # Site investigation & monitoring
- # Drilling
- # Soil & groundwater remediation
- # Waste treatment & disposal
- # Environmental emergency response
- # Technological cleaning
- # Demolition & decommissioning
- # Environmental laboratory
- # Air emission monitoring
- # Research & development
- # Pilot scale testing
- # Environmental consulting

## EQUIPMENT

- # Thermal desorption plants
- # Stabilization / solidification plants
- # Soil washing plants
- # Oil sludge extraction & processing equipment
- # Bioremediation plants
- # Soil vapor extraction plants
- # Pelletizers
- # Homogenizers
- # Air scrubbers
- # Biofilters
- # Catalytic oxidizers
- # Groundwater and wastewater treatment plants
- # Constructed wetlands



Made in EU

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