

SKID MOUNTED
**WASTE
BLENDER**



CONVERTING

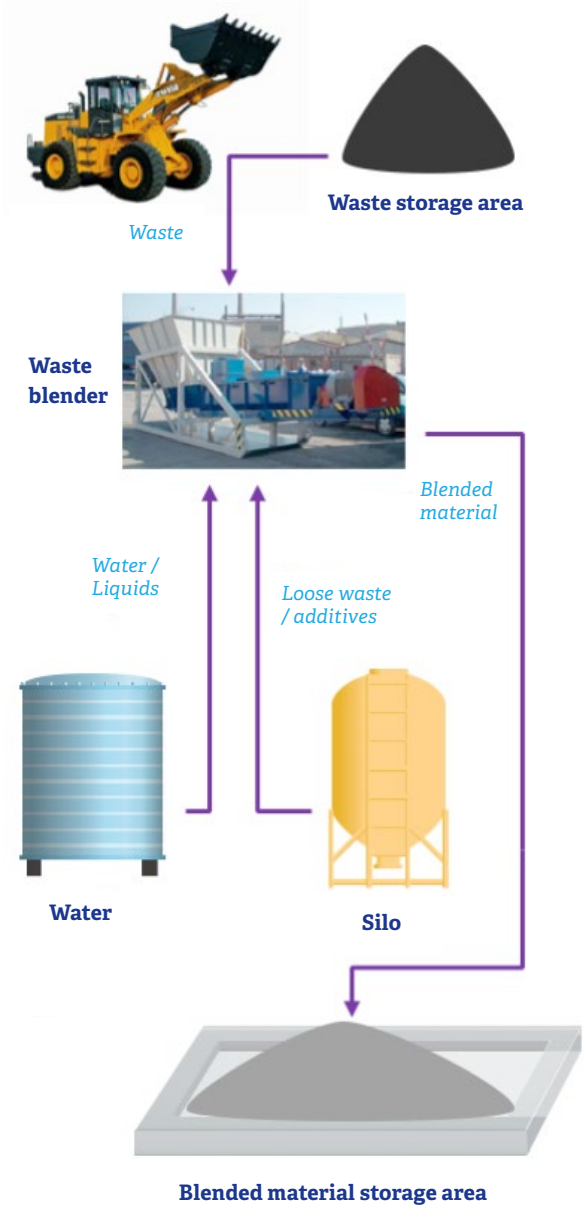
WASTE TO ALTERNATIVE FUEL

**DUSTY MATERIAL
TO HUMIDIFIED PRODUCT**

**WATERY MATERIAL
TO SOLID PRODUCT**

*/ Hazardous waste
/ Non-hazardous waste
/ Liquid waste / Sludge
/ Sediment / Dust*

PROCESS FLOW DIAGRAM



FIELD OF USE

In many waste recycling / reprocessing applications several waste streams have to be blended together to produce a final mixture meeting user-defined physical-chemical parameters - such as homogeneity, consistency, calorific value, maximum acceptable content of a specific component etc. A typical example is reprocessing of waste to alternative fuel.

In other applications blending of two or more waste streams is convenient to improve efficiency of the subsequent treatment process. A typical example is mixing contaminated sludge with saw dust before bioremediation.

Finally, in some applications, blending waste with suitable additives is requested to eliminate undesirable properties of treated waste. A typical example is humidification of filter dust by blending it with water to eliminate dustiness or solidification of watery sludge by blending it with fly ash.



EQUIPMENT DESCRIPTION

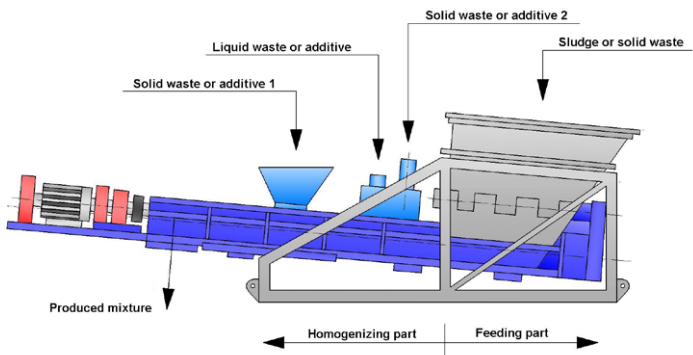
The robust skid-mounted waste blender is convenient for wide range of waste treatment applications. It consists of the following main parts:

- Feeder bin (optionally equipped with a vibrating scalping screen)
- Pug-mill blender
- Steel supporting frame

The most voluminous treated waste stream is usually fed to a feeder bin from where it is dosed by a screw conveyor to the pug-mill blender. A vibrating scalping screen can be installed on the top of the bin to remove large rocks, metal scrap and other impurities from treated waste. Design of the feeder bin prevents material bridging.

Other waste streams and/or additives are fed directly to the pug-mill blender either from silos (loose materials) or from storage tanks (liquids).

Pug-mill blender is designed as a continuous, horizontal, double-screw mixer. It is suitable for effective blending of particular waste streams together or mixing them with additives to produce output material with stable physical properties and chemical composition.



TECHNICAL PARAMETERS

- Capacity: ranging from 5 to 50 tons of treated waste per hour
- Dimensions:
 - ♦ Width: 2,2 - 2,4 m
 - ♦ Length: 5,0 - 7,5 m
 - ♦ Height: 1,8 - 2,4 m
- Electric input power: 5-55 kW
(depending on the designed capacity)
- Weight: 2 400 - 8 800 kg
(depending on the designed capacity)
- Temperature of treated waste: max. 60°C

Client support services

- Laboratory testing (suitable additives determination, physical-chemical analyses of blended material)
- Pilot-scale verification
- Designing
- Installation and start-up operation
- 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



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