

MAWERA Cone-Bottom Silo Reclaim System - PS Series

Silo discharger for wood residue

The MAWERA cone-bottom silo reclaim system provides consistent discharge of wood particles without bridging problems. Material such as sawdust, planer shavings, wood chips and fines may be used. A spiked screw revolving around its own axis draws the material to the bottom of the cone. At the same time the spiked screw rotates inside the cone, effectively removing cavities that may have been formed between the cone and the material. The screw is sized to reach the silo-wall. Once the material has reached the chute at the bottom of the cone, it is passing through a cellular wheel sluice. This sluice acts like an air lock, avoiding influx of air and moisture into the silo. Finally a fixed or variable speed screw conveys the material further.



Silo reclaim system PS series feeding into a switch box

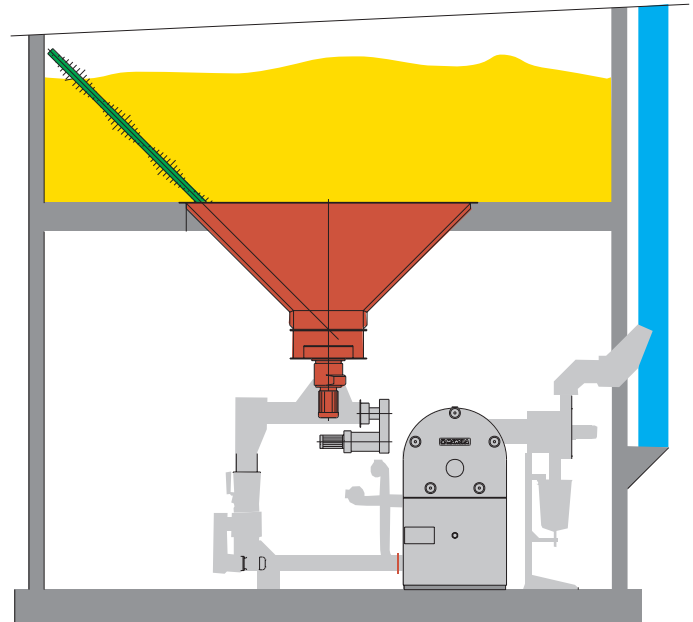


Detail - universal joint and spiked screw

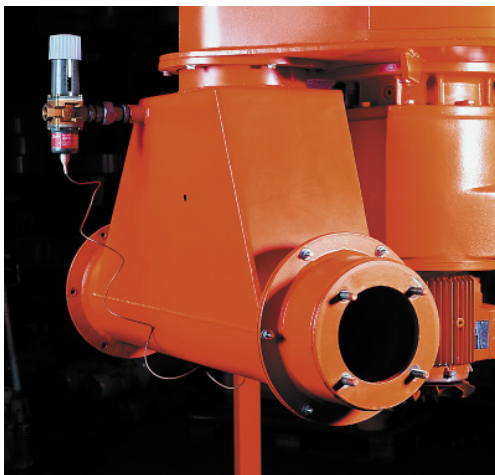


Key Advantages:

- definitely no bridging - even with silo of less than 16' (5m) diameter
- no risk of overloading the silo: the screw pivots round the universal joint and finds the angle/way of least resistance thereby avoiding "force feeding"
- the 45° angle of the reclaim screw allows homogeneously mixing of material layered inside the silo
- the cone-shaped funnel design maximises the storage volume of the silo
- the drive, its gear, and the universal joint are accessible from the outside - no silo unloading required for service
- low power consumption
- high reliability



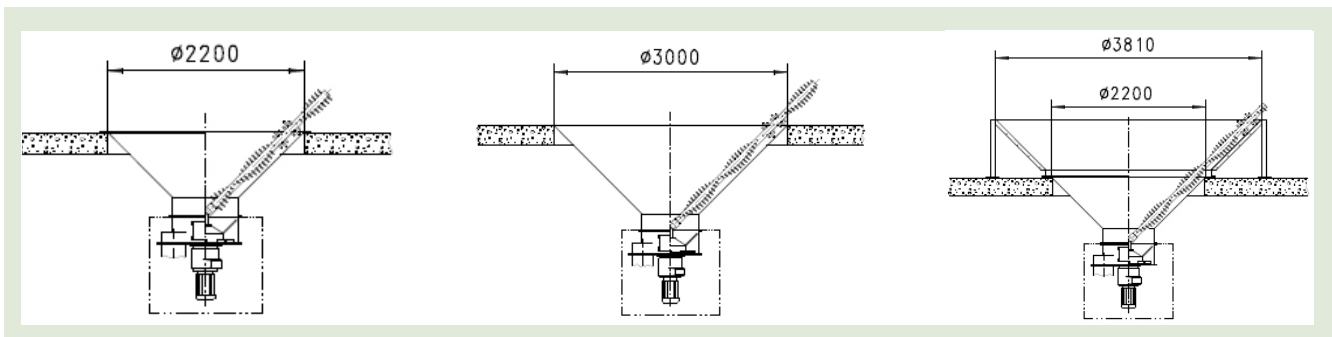
Installation with the silo located above the boiler room



Versatile flanges allow connecting a wide range of screws

Technical data:

Possible Uses:	Round silos diameter 7' to 24' (2.2 to 7.5m) wall heights up to 66' (20m)
Spiked screw:	45° diagonal
Funnel sizes:	Standard 7'3" and 10" (2.2 and 3m) optional - add-on cone from 7'3" to 12'6" (2.2 to 3.8m)
Potential Reclaim Rate:	1.1kW drive: 1.8 to 4.1cfm (3 to 7m³/h) 3.7/4.7kW drive: 5.9 to 11.8cfm (10 to 20m³/h)
Overload protection:	Open-phase circuit breaker



Standard size 7'3"

Standard size 10"

Standard size 7'3" with
12'6" add-on cone

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