

FEEDING INSTALLATION FOR OR TYPE OF BOILERS

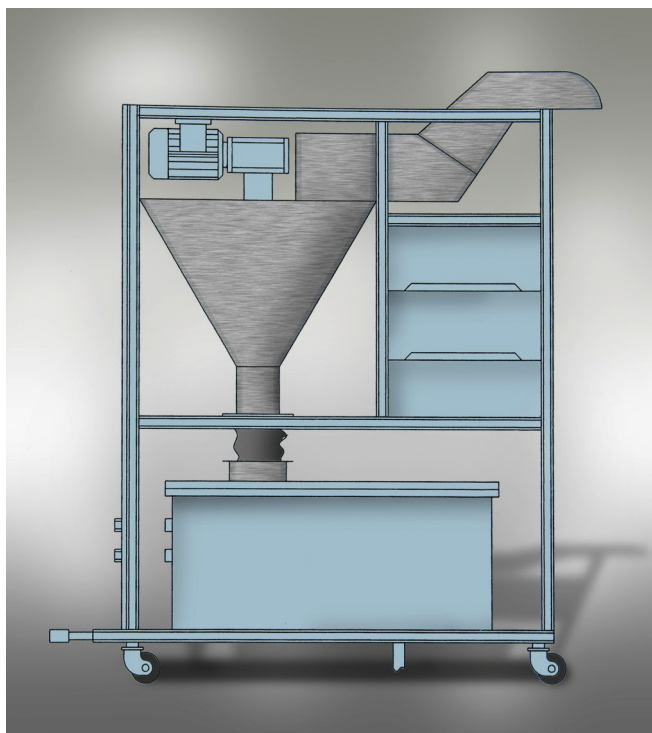
Feeder for WR and OR types of boilers, that is for small heating stations which burn small amounts of fuel, where the coal feeding process of chute container lasts short and the catalyst is fed in small doses. Such system structure is characterised with high simplicity which is required in industrial installations, as well as unique reliability.

Mixing catalyst with coal takes place in the mill and is an intensive process. The right place for feeding catalyst for WR and OR types of boilers is the air-shaft, dust-pipes or the Kramer shaft, as in the old types of boilers.

Feeder for the dust type of catalyst has a very simple structure and the speed of feeding is controlled with the speed of injecting worm.

Feeding is carried out through gravitational providing of right portions of catalyst in proportion to coal feeding speed, directly to coal conveyor belts and/or at pouring coal to chute container.

Catalyst in dust form is poured to a container over the feeder. Right dose of catalyst is automatically poured to transitory container where intensive mixing with air is carried out in order to achieve fluid form of the catalyst. Following this, catalyst is injected with 5-7 bar plant air into a particular place in the heat installation – directly before feeding the coal dust into the boiler.



The process is numerically controlled with the precision of up to 0,1% of assumed speed of feeding.

Advantages:

- Precise catalyst dosage with constant and stable speed
- No loss of catalyst resulting from blowing it out
- Point-wise catalyst feeding into an optimal place of the installation where the best contact of catalyst with coal particles is achieved