

POWDER DRYING INSTALLATION



APPLICATION AND OPERATION:

The pictured drying installation with dosing feeder, oil heated spiral elevator, and integrated follow-on cooling is used for drying of FeSi-powder.

Via dosing feeder the powder is fed to the spiral elevator and then conveyed from the top downwards to the bottom. To avoid material caking and to dry the product to final moisture content, the dosing feeder and 2/3 of the spiral elevator's feeding area are oil heated. The remaining 1/3 of the spiral elevator is water cooled to cool the powder to the desired packing temperature.

The technical demand „heating – drying – cooling“ was solved by means of contact-heat transfer on a small area.

The product is treated very carefully and without loss of fines.

TECHNICAL DATA:

Type of machine:	WUFS 400/1000-60 x 1885
Grain size:	5 - 30 mm
Initial moisture content:	5 %
Final moisture content:	0,2 %
Feeding capacity:	600 kg/h
Ø 1:	10 °C
Ø 2:	40 °C
Ø oil:	160 - 200 °C
Material:	1.4541
Drive:	2 x JV 178 - 675 2 x 1,6 kW

YOUR BENEFIT:

- Compact design.
- Large reaction area.
- Precise temperature control.
- High efficiency.
- No dust emissions.
- Easy access for cleaning.