

Save energy by using alternative fuels in cement kilns.

The Nobsa Cement Plant is located at KM 15 Via Duitama Bencito Nobsa Boyaca Colombia at an altitude of 2.500 m above sea level.

About Holcim Nobsa

Geocycle Ltda, has been dedicated for many years to the coprocessing of industrial waste and has led this type of process in its cement kiln and for this it has now incorporated a new line of paste products to be put into the oven. The new system has been commissioned on April 2022.



Co-incineration of alternative fuels at Lafarge Holcim Nobsa Cement Kiln



KOS high density solids pump with S-tube technology under crane drop bunker

Benefits of Co-Incineration

Saving money

- Reducing consumption of coal or gas

Saving environment

- Waste to energy. Disposal of non-recyclable waste to a high standard and utilizes its energy content. It also avoids environmentally damaging landfilling of waste.
- Reduce CO₂ emissions by using alternative fuel for cement kiln production

Ensures strong competitiveness

- By providing silos and pumps to receive and supply alternative fuels, to produce reasonable priced cement for all kind of construction works.





Delivery line of material from pump to cement kiln

Material transport

The medium is pumped via a DN 100 mm delivery line from the paste silo to the screw feeder. The delivery distance to the cement kiln is 250 m, with 25 m in vertical.

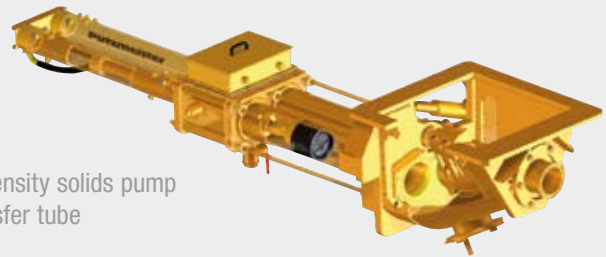
Material/Description

Waste composed of waste generated in the refining activities of the oil industry. These includes: oil handling residues (API, oil traps, etc.), WWTP residues, and residues from internal flow line cleaning operations (scrapers).

What makes Putzmeister special

KOS S-transfer tube

The large unrestricted S-transfer tube cross selection does not present a problem for considerably large foreign bodies with a size of up to a maximum of 70 % of the pressure connection diameter can be pumped.



KOS high density solids pump with S-transfer tube

Machine equipment

Silo with sliding frame	50 m ³
Silo screw	SHS 3232
High-density pump	KOS 1040 HP
Non-return valve	
Hydraulic power pack	
Boundary layer injection	

Delivery quantity

Delivery quantity	max. 1.5 to 5.0 m ³ /h
Average duration of the operation	approx. 16 – 24 h/day
Maximum delivery pressure	100 bar
Maximum dry solids content	~ 20 %

Pipeline

Pipeline outer diameter	100 mm,
Wall thickness	7.0



Putzmeister Concrete Pumps GmbH

Max-Eyth-Straße 10 · 72631 Aichtal / Germany
P.O. Box 2152 · 72629 Aichtal / Germany
Tel. +49 (7127) 599-0 · Fax +49 (7127) 599-988
pit@putzmeister.com · www.putzmeister.com

