

# TULA clinker extension line

## Cementos Fortaleza – Mexico



3,300 tpd capacity

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As part of its expansion plan in Mexico, Cementos Fortaleza has awarded Fives FCB with an EPC contract for the design, supply, erection and commissioning of a new complete clinker production line to be installed in its existing Tula cement plant in Mexico.

# Scope of work

- Implementation of a new 3,300 tpd clinker production line on turnkey basis, including:
  - Equipment design, supply and installation
  - Complete steel structures and civil engineering
  - Mechanical equipment (including refractory & plateworks): 9,500 t
  - Electrical/Automation equipment: 800 t
  - Steel structures: 5,700 t
  - Erection and commissioning



Technical features		
Contract date		May 2015
Scheduling	Cement grinding	January 2017
	Clinker production	July 2017
Plant capacity		3,300 tpd
Fuel		Coal, petcoke, alternative fuels
Raw material preparation		Pre-homogenizing storage (limestone, clay, pozzolana, iron ore): 27,500 t Additives 1 storage: 2 x 5,500 t (clay) Additives 2 storage: 2 x 3,500 t (clay) – 2,000 t (iron ore) – 2,000 t (pozzolana)
Raw meal grinding	300 tph	FCB Horomill® 3800 (single shoe – enlarged roller sleeve) FCB TSV™ Classifier 6500 BF
Raw meal blending silo		7,500 t
Burning line	3,300 tpd	5-stage single string FCB Preheater with low pressure drop cyclones FCB Zero-NOx Preca Dia. 5.2 m fitted with Pillard PRECAFLAM™ burner FCB rotary Kiln Dia. 4.4 m x L 66 m 1 x Fives NEO Filter 380,000 Nm³/h at 220°C – 15,926 m² Pillard NOVAFLAM® burner for rotary kiln Clinker grate cooler 79.5 m² AFR preparation
Petcoke grinding	19 tph	FCB B-mill Dia. 3.20 m x L 6.5 m + 1.7 m integrated dryer FCB TSV™ Classifier 2200 MF
Clinker storage silo		60,000 t
Cement grinding	2 x 125 tph	2 x FCB Horomill® 3800 2 x FCB TSV™ Classifiers 4500 HF 2 x Fives TGT® filters 130,400 Nm³/h at 80°C – 3,850 m² Pillard HeatGen Systems™ (hot gas generator system) – 7.5 MW
Cement storage		20,000 t multicellular silo (5 cells)
Packing and dispatch		2 x 200 tph bulk loading stations 2 x 2,400 bags/hour packing and palletization systems

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