

Name 1	HORNOS PACIFIC
Name 2	PACIFIC FURNACES
ID number	001.151.Almadén
Manager / Administrator	Javier Carrasco Milara, Cerco San Teodoro, s/n. Almadén (Ciudad Real)
Ownership	Public
Institution	Minas de Almadén y Arrayanes, S.A
Local / Original ID Number	001.001.003.223
Type of Object	Smelting

DESCRIPTION

Short description	"The furnaces that were used until the closure of the mercury metallurgy in Almadén are the Pacific furnaces of the multiple hearth type, doing continuous processing. They began to be installed in 1952 and, including modifications, they are the latest generation of furnaces used in Almadén. The furnace is circular, 9.5 metres high, and inside there are 8 levels through which the ore that enters from the upper part falls in a spiral during the roasting process. The temperature on the first level is approximately 300° and the maximum temperature is seen on the 6th level, reaching 650-700°. A solid residue called slag comes out of the furnace, as well as a gas that contains mercury and SO₂.
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These furnaces have a series of attached installations:
Preparation of ore for the furnaces.
Collection of solid residue.
Condensation of mercury.
Separation of mercury from the soot.
Recovery of the water used in the process.
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Measures

Materials

Iron

Dating

1952

Author / Producer

Minas de Almadén

Illustrations

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Original use	Cinnabar roasting (mercury metallurgy)
Present use	Museum
Original location	Smelting Furnace (Cerco de Destilación)
Present location	Mining Park, Cerco de Destilación

STATE OF CONSERVATION

History of conservation:	Pending restoration
Present state	medium/acceptable
Necessary activities:	Rust removal and painting

DOCUMENTATION

Addresses /collections/links etc. where further in-depth information is accessible:	www.parqueminerodealmaden.es
Submitted	AYUNTAMIENTO ALMADEN
Submitted by	Alicia Escudero & Águeda Moyano
Date Submitted	28. 4. 2022

Date Edited

Never
