

Name 1	BATTERY STEAM BOILER
Name 2	/
ID number	002.108.Idrija
Manager / Administrator	Idrija Municipal Museum, Prelovčeva 9, SI-5280 Idrija
Ownership	Public
Owner	Municipality of Idrija, Mestni trg 1, SI-5280 Idrija
Local / Original ID Number	510:IDR;RS-14
Type of Object	Mine

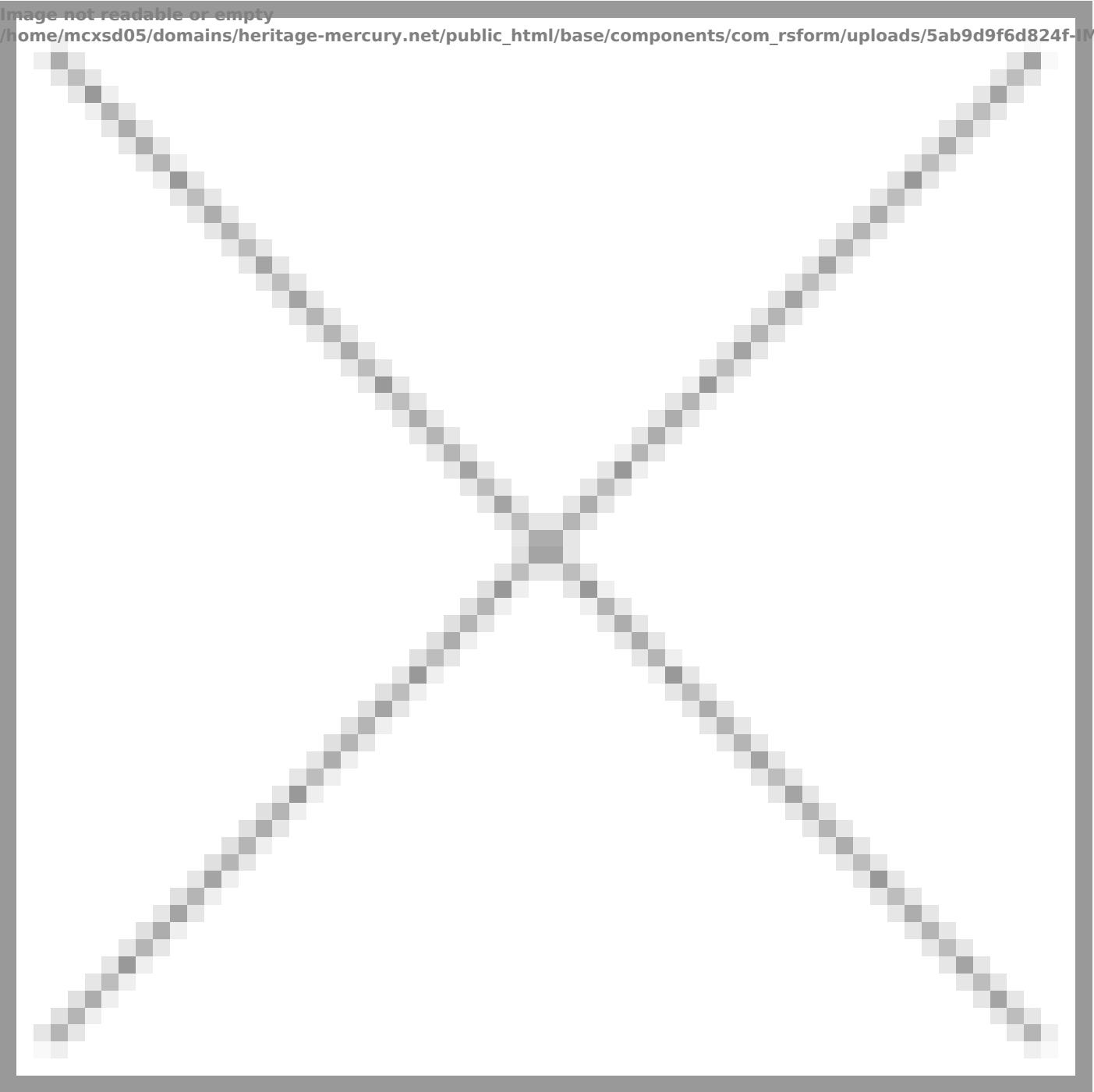
DESCRIPTION

Short description	The battery steam boiler consists of a lower cylinder for preheating the water with a slight incline and connective vertical cylinder. The upper cylinder the evaporator has water and steam areas and is mounted on four steel profiles. The partially walled in furnace consisted of a combustion device (flat bars with static grids) and combustion area. The frontal plane of the upper cylinder is a head, which contains dash elements (devices for displaying water level and a manometer). The upper cylinder has an extensive nozzle for steam dispossession, which has an oval opening on top with a cover and a handle. Three pipes are led from the nozzle for steam dispossession: the first one has a ventilation valve, the second one has a safety valve with a weight, the third one has a screwed flange (with blockage valve) for the inlet pipe
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to the consumer.

Measures	Length 633 cm, width 187 cm, height 412.5 cm.
Materials	Cast iron, steel.
Dating	1882
Author / Producer	E. Skoda Pilsen factory.

Picture
attachments





Original use

The battery steam boiler had 24 m² of heating area and produced dry saturated steam (pressure 5.07 bar or 5 atm) and supplied it to the steam machine (J. Körösi, Graz, 1882). The steam boiler water preheater had a slight inclination, so that the possible air could exit from it and that wet steam was able to form in it through connective vertical cylinder. Extensive nozzle for steam disengagement accelerated the accumulation of dry saturated steam. The oval opening on the nozzle served for limescale disposal. The ventilation valve on the first pipe that came out of the nozzle was open all until the entire steam area was filled with steam. Due to the relatively large dimensions, expensive construction and low efficiency, the boiler was eliminated. In 1952 the Industry Council of the Socialist Republic of Slovenia handed the boiler over to the Museum Committee in Idrija. Until 1992, it was exhibited in the courtyard of Gewerkenegg Castle.

Present use

The battery steam boiler is being preserved, secured and presented as an important monument of Idrija technical mining heritage with exceptional universal values. It is a unique specimen of technical heritage, as it is the only preserved boiler of its kind in Slovenia. It is part of the Idrija Municipal Museum collection "Mining machines and devices", which demonstrates the middle-European machine manufacturing at the end of the 19th and in the beginning of the 20th centuries. The collection contains the restored mining machines and devices, tools and equipment, which were necessary for working in a mine pit or in outdoor plants. For this reason it represents technical heritage which greatly exceeds the Idrija Mercury Mine framework and is therefore of a larger, global importance.

Original location

Bašerija - Idrija Mercury Mine ore sorting plant.

Present location

Francis' Shaft building (showroom 2).

STATE OF CONSERVATION

History of conservation:	The battery steam boiler was restored between 1990 and 1992 (dashboard elements, bars made by Tadej Brate from Ljubljana, walled up boiler). All the boiler's surfaces were cleaned with the sandblasting process and painted with foundation and top paint. Additional interventions are not necessary. Security of the premises is ensured.
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Present state	good
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Necessary activities:	Regular seasonal maintenance.
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DOCUMENTATION

Addresses / collections / links etc. where further in-depth information is accessible:	- Inventory Book of the Idrija Municipal Museum; - Zelenc, Anton. In vendar se giblje: katalog rudniških strojev in naprav. Idrija, Idrija Municipal Museum, 2001; - Zelenc, Anton. Idrija Municipal Museum: restored mine machines and devices of the Idrija Mercury Mine. Patrimoine de l'industrie, 2004, p. 17-19.
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Submitted	Mestni muzej Idrija
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Submitted by	Miha Kosmač
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Date Submitted	3. 3. 2018
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Date Edited	Never
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