

|                                   |                                                       |
|-----------------------------------|-------------------------------------------------------|
| <b>Name 1</b>                     | J. KÖRÖSI STEAM PISTON MACHINE                        |
| <b>Name 2</b>                     | /                                                     |
| <b>ID number</b>                  | 002.110.Idrija                                        |
| <b>Manager / Administrator</b>    | Idrija Municipal Museum, Prelovčeva 9, SI-5280 Idrija |
| <b>Ownership</b>                  | Public                                                |
| <b>Owner</b>                      | Municipality of Idrija, Mestni trg 1, SI-5280 Idrija  |
| <b>Local / Original ID Number</b> | 510:IDR;RS-13                                         |
| <b>Type of Object</b>             | Mine                                                  |

## DESCRIPTION

|                          |                                                                                                                                                                                                                                                                                                               |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Short description</b> | The single-cylinder horizontal steam piston machine operates on both sides with Rieder sliding control system and consists of a cylinder, a piston and a crank mechanism. The latter consists of a piston rod, a cross head, a connecting rod and a handle. During operation its power was 14.914 kW (20 HP). |
| <b>Measures</b>          | Length 590 cm, width 210 cm, height 232.5 cm.                                                                                                                                                                                                                                                                 |
| <b>Materials</b>         | Cast iron, brass, steel.                                                                                                                                                                                                                                                                                      |
| <b>Dating</b>            | 1882                                                                                                                                                                                                                                                                                                          |



**Picture  
attachments**

**Original use**

The drive machine medium was the dry saturated steam from the battery steam boiler (E. Skoda Pilsen, 1882). The steam machine powered the transmission through four wedge-shaped belts or ropes. The transmission powered the sorting table in the ground level of the Bašerija – Idrija Mercury Mine ore sorting plant. At the same time, the extension rod held the piston pump together. The energy released in high pressure steam expansion powered the driving shaft of the machine. The steam flowed into the cylinder under pressure. The steam expanded in the cylinder and pushed the piston. The machine is controlled by a mechanism with a Rieder sliding system. The crank mechanism was converting straight piston movement into the rotation of the shaft and vice versa. The flywheel on the machine's shaft ensured the even operation of the machine. It also operated after the Second World War.

**Present use**

The J. Körösi steam piston machine is being preserved, secured and presented as important monument of Idrija technical mining heritage with exceptional universal values. It is a part of the Idrija Municipal Museum collection "Mining machines and devices". The collection demonstrates the middle-European machine manufacturing at the end of the 19th and the beginning of the 20th centuries. It contains the restored mining machines and devices, tools and equipment, which were necessary for working in a 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. Some specimens of the mentioned collection could even be placed among the milestones of the technical heritage of that time.

**Original location**

Bašerija - Idrija Mercury Mine ore sorting plant.

**Present location**

Francis' Shaft building (showroom 2).

## STATE OF CONSERVATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>History of conservation:</b> | The described machine was restored between 1990 and 1992. It was completely disassembled, surfaces of individual parts were cleaned with sandblasting process, reassembled and painted with foundation and top paint. All the machine's components are original, with the exception of some smaller parts. Therefore, no additional interventions are necessary. Security of the premises is ensured. |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                      |      |
|----------------------|------|
| <b>Present state</b> | good |
|----------------------|------|

|                              |                               |
|------------------------------|-------------------------------|
| <b>Necessary activities:</b> | Regular seasonal maintenance. |
|------------------------------|-------------------------------|

## DOCUMENTATION

|                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Addresses / collections / links etc. where further in-depth information is accessible:</b> | <ul style="list-style-type: none"><li>- Inventory Book of the Idrija Municipal Museum;</li><li>- Historical Archives of Ljubljana, Unit in Idrija, plan collection, drawer no. B2, B3;</li><li>- Zelenc, Anton. In vendar se giblje: katalog rudniških strojev in naprav. Idrija, Idrija Municipal Museum, 2001;</li><li>- Zelenc, Anton. Restavrirani stroji in naprave Rudnika živega srebra Idrija. Ruda: revija Združenja za ohranjanje rudarske dediščine Slovenije, 1-2/2013, p. 16-20;</li><li>- Zelenc, Anton. Idrija Municipal Museum: restored mine machines and devices of the Idrija Mercury Mine. Patrimoine de l'industrie, 2004, p. 17-19.</li></ul> |
|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                  |                     |
|------------------|---------------------|
| <b>Submitted</b> | Mestni muzej Idrija |
|------------------|---------------------|

|                     |             |
|---------------------|-------------|
| <b>Submitted by</b> | Miha Kosmač |
|---------------------|-------------|

|                       |            |
|-----------------------|------------|
| <b>Date Submitted</b> | 3. 3. 2018 |
| <b>Date Edited</b>    | Never      |

---