

Industrial Construction Department

Designing modern infrastructure
for the extractive industry

- + Innovative solutions and technologies **for mine shaft sinking**
- + **Multidisciplinary construction and detailed design** for industrial facilities
- + **Technical condition assessment** of mining structures.





Our Services

- + We provide innovative design and research-and-development services in the field of **industrial construction**, covering underground mining facilities and associated surface infrastructure (mine shafts, headframes, technical facilities forming part of shaft complexes, surface air-conditioning stations etc.). The Department brings together **specialised, discipline-based design teams** comprising engineers and designers holding professional construction licences in the following fields: **structural engineering, architecture, electrical installations and sanitary installations**.
- + We carry out comprehensive works aimed at **assessing the technical** condition of mining construction structures, in particular:
 - shaft linings, tunnels, retention and backfill reservoirs,
 - backfill chutes,
 - ventilation ducts etc.
- + Preparation of **technological designs, cost estimates and work schedules**.
- + **Research studies and expert opinions** issued under the authorisations of a certified expert of the State Mining Authority (WUG), authorised for mine operations in Group XIV – shaft linings, supported by the NL-2 Shaft Lining Testing Laboratory.

Selected project experience:

- + **Construction and detailed designs for main ventilation fan stations** at the SG-2 shaft,
- + **Construction, technological and detailed designs for the central air-conditioning station** at the GG-1 shaft,
- + **Construction and detailed designs for target surface facilities** at the GG-1 shaft,
- + **Detailed shaft lining designs** for shafts R-XI, SW-4, and GG-1,
- + **Designs for the decommissioning of mine shafts and surface facilities** R-VI, L-IV and L-V,
- + **Rock mass freezing designs for shaft sinking projects** (the SW-4 and GG-1 shafts),
- + **Technological designs for shaft sinking stages and final operational phases**,
- + **Numerical modelling and strength calculations of mine shaft linings**.

Contact us

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Phone: +48 71 78 12 466
Mobile: +48 887 893 363



KGHM CUPRUM Sp. z o.o. – CBR

Gen. W. Sikorskiego 2-8,
53-659 Wrocław, Poland

+48 71 781 22 01
kghm@kgmcuprum.com
kgmcuprum.com