



KGHM ZANAM

KGHM ZANAM S.A.



KGHM ZANAM S.A. is one of the largest manufacturers of machinery and equipment for the mining industry in Poland. As a part of the KGHM Polska Miedź S.A. Capital Group, the company plays a key role in copper production processes. It also produces equipment used in material handling systems, transportation units, and open-pit mines. Moreover, it is a significant producer of a wide range of steel and iron castings.

KGHM
ZANAM



In addition to its manufacturing activities and a wide range of high-quality products, KGHM ZANAM S.A. provides EPC (engineering, procurement, construction) project execution services, maintenance and repair services, technical support, as well as transport and logistics services. The company also offers specialized services at mining facilities, including mining operations (such as blasting services), machinery maintenance services, and underground transportation services.

KGHM ZANAM S.A.



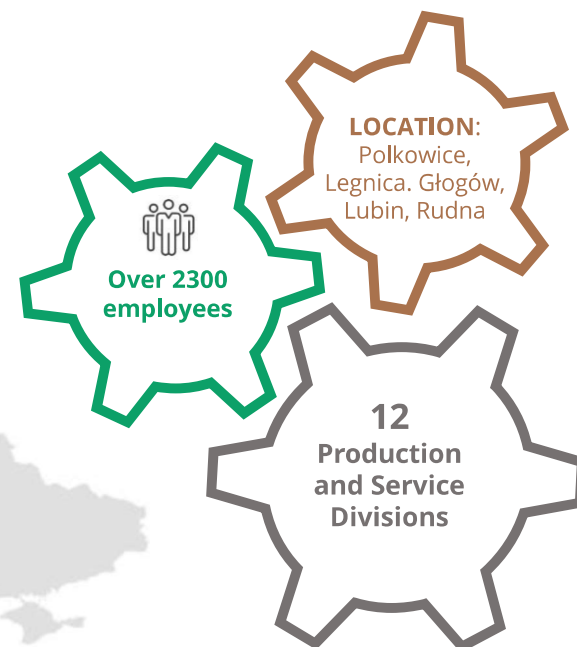
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Development Directions of KGHM ZANAM S.A.



MISSION

We deliver innovative and reliable technological solutions for the mining and heavy industries.

VISION

Our aim to be a leader in the production of mining machinery and industrial services by offering the most advanced, safe, and tailored technological solutions for business partners, in line with our adopted development directions.

DEVELOPMENT DIRECTIONS



Production
and Safety



Financial
Stability



Sustainable
Development



Innovations



Business Lines and Functional Areas of KGHM ZANAM S.A.

PRODUCTION

**Manufacturing of Underground Mining
Machines and Mining Transport Vehicles**

**Production of Belt Transport Structures and
Equipment and other products consistent with
the business profile of KGHM ZANAM S.A.**

Foundry

Research and Development

Procurement

Finance

Human Resources

Sales and Marketing

Auxiliary Functional Areas

SERVICES

**Maintenance and Servicing of Underground
Mining Machines**

Mining Services

Maintenance and Repairs of Smelter Equipment

Maintenance and Repairs ZWR + ZH

Implementation of investment



KGHM ZANAM S.A. - export



Our machines run all over the world...



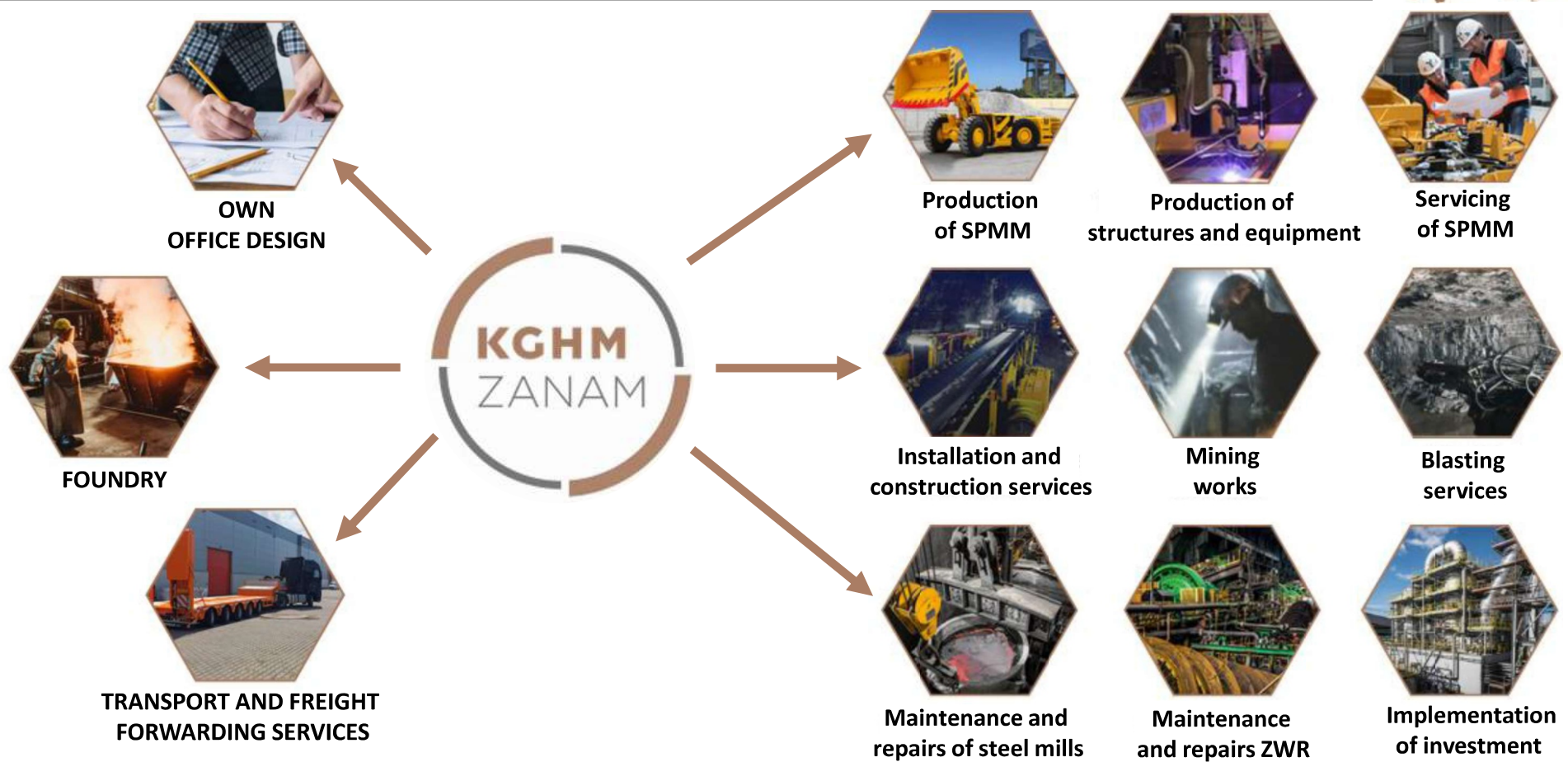
KGHM ZANAM

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6



COMPANY BUSINESS AREAS



KGHM ZANAM S.A. – production



LOADERS



HAUL TRUCKS



BLASTING TRUCKS



DRILLING-BOLTING RIGS



AUXILIARY TRUCKS



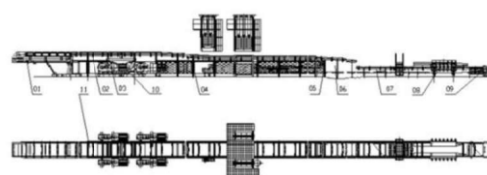
TRANSPORTATION
TRUCKS



CRUSHERS



CASTINGS



BELT CONVEYOR HAULAGE SYSTEMS



STEEL CONSTRUCTIONS

KGHM ZANAM S.A. – SPMM production



KGHM ZANAM manufactures mining machinery that are responsible for the preparation and performance of the manufacturing process related to the extraction and haulage of excavated material in non-methane, underground non-ferrous metal ore mines with the use of the room and pillar mining method and mines that extract minerals other than hard coal. The mining machinery manufactured by KGHM ZANAM include self-propelled trucks with tyre chassis, which are adapted to demanding underground conditions and designed for high efficiency.



LOADERS



KGHM ZANAM offers a wide range of loaders sized to fit mine workings of different cross-sections. While the latest loader models meet stringent emission standards, they are supplied with intelligent monitoring and diagnostic systems and are ready for the implementation of remote control on them



	MODEL	LENGHT [MM]	WIDTH [MM]	HEIGHT [MM]	TOTAL WEIGHT [kg]	BUCKET CAPACITY [M3]	LIFTING CAPACITY [kN]	COMBUSTION ENGINE POWER [kW]	EXHAUST EMISSION
SERIA 4	LD4	8800	2760	1750/1800	15900	2,0	40	99	Stage 5
SERIA 7	LD7	8900	2800	2500	21700	3,3	68	168	Stage 5
SERIA 8	LD 8	10000	3120	1750/2020 1830/2100	28000	3,5	80	168	Stage 5
SERIA 9	LKP-0900B	10300	3300	1500	32000	3,8	90	168	Stage 5
	LKP-0903	10600	3150	1750/2050	30200	4,5	90	168	Stage 5
SERIA 10	LD10	9800	3290	1850/2050	30900	4,5	100	225	Stage 5
SERIA 17	LD17	11500	3380	2350	48600	8,6	172	330	Stage 5
	LD17N	11400	3060	2700	46500	8,6	172	330	Stage 5

HAUL TRUCKS



The low-profile haul trucks manufactured by KGHM ZANAM are designed to work in relatively low mine workings. A good stability of the trucks and properly selected drive systems enable work in mine workings with longitudinal grades (in the direction of travel) of up to 8° and in mine workings with transverse grades of up to 5°



MODEL	LENGHT [mm]	WIDTH [mm]	HEIGHT [mm]	TOTAL WEIGHT [kg]	LOAD BOX CAPACITY [m³]	MAXIMUM PAYLOAD [t]	COMBUSTION ENGINE POWER [kW]	EXHAUST EMISSION
DT20	9365	2300	2500	20000	11	20	194	Stage 5
HT20	10300	3440	1900/2000/2100	26320	11,1	20	168	Stage 5
HT24	10550	3650	1900/2000/2100	28510	13,5	24	168	Stage 5

DRILLING AND ROOF-BOLTING TRUCKS



Self-propelled drilling and roof-bolting trucks manufactured by KGHM ZANAM are essential to prepare a mine face for blasting and protect an exposed roof with roof-bolting. Powerful working tools enable you to efficiently make holes of desired diameter and length.



MODEL	LENGHT [mm]	WIDTH [mm]	HEIGHT [mm]	TOTAL WEIGHT [kg]	HOLE LENGHT [mm]	HOLE DIAMETER [mm]	COMBUSTION ENGINE POWER [kW]	EXHAUST EMISSION
SWW2.0A	12000	2600	2000	18800	1900-2900	28-64	100	Stage 5
SWW2.0B	12000	2600	2000	19000	3200-4450	28-64	100	Stage 5
SWK2.0	12000	2560	2000	18000	-	28-38	100	Stage 5
KOT1.75	11450	2300	1750	22000	do 7000	25-38	115	Stage 5



BLASTER TRUCKS

Blaster trucks manufactured by KGHM ZANAM improve the process of blast hole loading and thus reduce the time spent by the crew at mine faces with a high risk of afterbursts. The latest models use two independent power sources (battery and combustion engine).



MODEL	LENGHT [mm]	WIDTH [mm]	HEIGHT [mm]	TOTAL WEIGHT [kg]	EMULSION TANK CAPACITY [dm3]	COMBUSTION ENGINE POWER [kW]	EXAUST EMISSION	OTHER CRUCIAL DATA
WS-153	8900	3150	1500	19200	750	115	Stage 3A	
WS-173	9950	2750	1700	21000	750	115	Stage 3A	Platform for working at heights
WS-173/S	9950	3150	1700	21400	750	115	Stage 3A	Platform for working at heights

AUXILIARY TRUCKS



SELF-PROPELLED RIPPING TRUCKS

are designed for ripping overhangs and sidewalls of mine faces and workings in non-methane underground ore and mineral mines. Their principle of operation is to drive the whole truck moderately forward at the ripping site, using the energy from machine movement and the towing power of the drive system

MODEL	LENGHT [mm]	WIDTH [mm]	HEIGHT [mm]	TOTAL WEIGHT [kg]	BOOM LENGHT [m]	CLAW WIDTH [m]	COMBUSTION ENGINE POWER [kW]	EXHAUST EMISSION
SWB-900B	10300	3300	1500	26800	3,00	2,6	168	Stage 3A
SC 8	12800	3000	1750/2100	26700	6,00	1,6	149	Stage 5

AUXILIARY TRUCKS



SELF-PROPELLED DRAINING TRUCKS

the SWO4 is designed for water carrying, draining and sprinkling mining faces, haulage roads and mine workings, in underground workings of non-methane mining plants where metal ores are extracted, and in mining plants where minerals other than hard coal and metal ores are extracted.

MODEL	LENGHT [mm]	WIDTH [mm]	HEIGHT [mm]	TOTAL WEIGHT [kg]	TOTAL TANK CAPACITY [dm3]	COMBUSTION ENGINE POWER [kW]	EXHAUST EMISSION
SWO4	9300	2500	1750/1800	13400	2200	93	Stage 5



TRANSPORT TRUCKS



The self-propelled transport trucks manufactured by KGHM ZANAM are used for transporting underground workers and selected materials. Efficient drive systems and high manoeuvrability enable safe transportation of up to a dozen or so employees to mining work zones.



MODEL	NUMBER OF SEATS	LENGTH [mm]	WIDTH [mm]	HEIGHT [mm]	MASA CAŁKOWITA [kg]	PERMITTED LOAD CAPACITY [kg]	COMBUSTION ENGINE POWER [kW]	CLEARANCE [mm]	CHARGING TIME	RANGE
SWT ZANPER T10	9+1	5650	2025	1880/1910/2100	3200	800	120/140	210/240	up to 90 min	50 - 150 km
SWT ZANPER T14	13+1	5950	2025	1880/1910/2100	3500	1200	120/140	210/240	up to 90 min	80 - 140 km
SWT ROBUST T10	9+1	5650	2025	1880/1910/2100	3000	800	55	210/240	-	-
SWT ROBUST T14	13+1	5950	2025	1880/1910/2100	3200	1200	55	210/240	-	-

TRANSPORT TRUCKS – ZANPER 2.0



Parametr	ZANPER 2.0
ENGINE	electric
ENGINE POWER (max./rated)	90/60 kW
BATTERY VOLTAGE (max./rated)	386/333 V DC
TORQUE OF THE ELECTRIC MOTOR (max./ rated) POWERTRAINING (max./ rated)	200/90 Nm 615/275 Nm
MAX. SPEED	40 km/h
RANGE	do 200 km
HEIGHT	1 900 ±30 mm
WIDTH	2 100 ±30 mm
LENGHT	5 850 ±30 mm
TOTAL WEIGHT	5 500 kg
TYPE OF TIRE	225/75 R16
CAPACITY	14 people (1+13) or 1 person . + 1400 kg
ENERGY STORAGE (TECHNOLOGY/ENERGY INSTALLED)	NMC; 90 kWh
ON-BOARD CHARGER	500V AC, IT; 50 kW
FULL CHARGING TIME	Up to 90 min
CHARGING TIME PER SHIFT (DRIVING UP TO 40KM)	Up to 30 min

KGHM ZANAM S.A. – crushers



Jaw crushing units are designed for crushing materials having a compressive strength of up to 300 MPa, which include basalt, granite, amphibolite, gneiss, quartzite, limestone, dolomites and construction waste.

Impact crushing units are designed for crushing mineral materials and construction waste of high and medium hardness and susceptible to impact crushing, e.g. granite, dolomite, limestone. The impact crushers can also be used to recycle road and construction waste materials such as concrete, demolition debris, asphalt concrete, etc.

KGHM ZANAM offers crushing units in sliding or stationary design versions as well as in sets tailored to **individual customer needs**. We can design load-bearing structures of crushers to the needs of individual customer requirements.



KGHM ZANAM S.A. – crushers



Technical data of jaw crushers

Sample projects:

MODEL	CRUSHING CAPACITY [m ³ /h]	MAX. DIMENSION OF THE FEED [mm]	GAP CONTROL RANGE [mm]	WEIGHT [Mg]	COMMENTS
KDSN 130/75E	Do 110	900	50-145	32,0	Sliding jaw crusher set with electric drive for all units. Supply voltage 400 V / electric motor 110 kW
KMS 100/55E	Do 60	500	40-115	22,5	Sliding jaw crusher set with electric drive for all units. Supply voltage 400 V / electric motor 90 kW

*Crushing capacity depends on the type of material to be crushed and the size of the fee



KGHM ZANAM S.A. – crushers



Technical data of impact crushers

Sample projects:

MODEL	CRUSHING CAPACITY [m³ /h]	MAX. DIMENSION OF THE FEED [mm]	DEGREE OF CRUSHING	WEIGHT [Mg]	COMMENTS
KMU 100/110	60	500	1:10-:50	26,0	Sliding impact crusher set with electric drive for all units. Supply voltage 400 V / electric motor 110 kW
KMS 100/55E	Do 60	500	1:10-:50	28,0	Container set with electric drive for all units. Supply voltage 400V
KKL 50E	40	500	1:10-:50	21,5	Container set with electric drive for all units. Supply voltage 400V
KDU 120/130E	Do 110	900	1:10-:50	26,0	Sliding crusher set with electric drive for all units. Supply voltage 400 V / electric motor 132 kW

*Crushing capacity depends on the type of material to be crushed and the size of the fee



CASTINGS



KGHM ZANAM manufactures castings in a wide range of weight options, offering low- and medium-volume production as well as one-off production. Heat treatment of castings is carried out in modern and fully automated furnaces. The products are characterised by durability and resistance to abrasion.

The KGHM ZANAM Foundry completes purchase orders for many areas of industry, such as rock handling, mining, metallurgy, chemical, electrical power, machinery, transport and railway sectors.



KGHM ZANAM S.A. – other areas of activity



- ⚙️ **Mining works** – the comprehensive provision of services related to preparatory works, underground construction, belt conveyor transport, and blasting works.
- ⚙️ **Servicing of SPMM** – after-sales technical support for our products.
- ⚙️ **Repair and maintenance services** - investments, modernization, repairs of machines and devices
- ⚙️ **Implementation of investments** - comprehensive implementation of investment projects and the provision of modernisation and maintenance services at industrial facilities.

