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BELAZ

GLOBAL

NEW FROM THE WORLD OF MINING
EQUIPMENT





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This is how it was





THE PRESIDENT OF THE REPUBLIC OF BELARUS ALEXANDER LUKASHENKO AND THE LEADERS OF THE EURASIAN ECONOMIC UNION, MINSK, JUNE 2025

THE FIRST BELAZ MINING GRADER HAS LEFT FOR TESTING IN KUZBASS

BELAZ mining grader was first presented at the international specialized exhibition «Russian Coal and Mining-2025», which was held on June 3-6 in Novokuznetsk. The 70-ton vehicle was sent straight from the exhibition area to Kuzbassrazrezugol, where it is currently developing and improving access and technological roads for mining equipment at one of the enterprise's coal mines.



BELAZ HEAVY-DUTY VEHICLE IS BEING TESTED AT THE BELARUSIAN NUCLEAR POWER PLANT

The BELAZ-79212 heavy-duty vehicle with a 150-tons payload capacity, made specifically for the Belarusian nuclear power plant, will be used to transport nuclear fuel in a transport packaging container.



BELAZ ESTABLISHES BUSINESS TIES WITH TANZANIA

On July 23, the enterprise was visited by a government delegation from the United Republic of Tanzania headed by Prime Minister Kassim Majaliwa Majaliwa. The prospects for cooperation between BELAZ and Tanzanian companies interested in modern transport solutions in the field of mining and extraction of mineral resources were discussed. Tanzania, which has a favorable strategic location in the region, as well as the African market as a whole, is a promising direction for the export of BELAZ equipment. Tanzania has industrial production of diamonds, gold, and iron ore, and has great potential for exploration and development of other minerals, especially nickel and coal.

BELAZ PRESENTS A BRAND NEW CABIN

See details at page 32



NEW BELAZ MINE LOADER WENT FOR TESTING IN NORNIKEL MINE

Before this, on the way to the Arctic, the MoAZ-4076 covered more than three thousand kilometers by land and sea. On August 22, the loader was lowered into the Kayerkansky mine, where it will undergo tests in real conditions of anhydrite mining. It should be noted that this is the first heavy class underground mine loader, created by BELAZ specifically for our strategic partner. Close cooperation in the development and production of import-substituting models of underground mining equipment is provided by the agreement with Nornikel.



THE INTERVIEW

”

**Irina Abramova,
the Director of the Institute
for African Studies of the Russian
Academy of Sciences:**

“According to scientists, in the near future, a big breakthrough in the development of the world economy will be directly related to African countries. and it is Africa that will become the continent of the 21st century. Previously, I estimated that this would happen by 2050, but due to the fact that all events in the world have significantly accelerated, I think that it will happen very soon – by 2035-2040”.

THE CONTINENT OF THE 21ST

According to scientists, in the near future, a big breakthrough in the development of the world economy will be directly related to African countries. By 2035, Africa will become the continent of the 21st century, and by 2100, 40% of the world's population will live there... About the unique southern region, its people, the development of technologies and the prospects for the evolution of the mining industry – in a conversation with the Director of the Institute for African Studies of the Russian Academy of Sciences, Doctor of Economics, Professor Irina Abramova.

– Mrs Abramova, today Africa is attracting more and more attention from Belarus and Russia. At the highest level, representatives of our countries are building relationships with the leaders of the African continent. What do you think is the reason for such interest?

– For a long time, Africa was not in Russia's field of vision: the policy that was pursued by our country's leadership after the collapse of the Soviet Union was directed towards the West. However, since 2014, with the imposition of sanctions and cooling relations with Western countries, Russia began actively seeking new partners and markets for its products and technologies, including Africa. Our institute, throughout its existence, since 1959, has continuously informed the country's leadership that the African direction of policy is extremely important. And today this information is more relevant than ever. The world is changing very rapidly, and if recently the USA and the countries of Western Europe dominated the world economy, now these are the countries of the global south – China, India, as well as the countries of Southeast Asia, major Latin American states. The next big leap in the development of the world economy will

be directly related to African countries, and it is Africa that will become the continent of the 21st century. Previously, I estimated that this would happen by 2050, but due to the fact that all events in the world have significantly accelerated, I think that it will happen very soon – by 2035-2040. Two factors will play a key role in this process: Africa's unique natural wealth (in recent years, a huge number of new deposits have been discovered there, including rare earth metals) and its demographic dividend. The African population is the youngest in the world: 60% of the continent's inhabitants are under 25 years old. The combination of objective and subjective factors, as well as a young energy and aim for development will put Africa far ahead. This means that everything will change soon, including commodity and financial flows.

– In one of your interviews you noted: “Today there has come a realization that the “non-Western world” is not limited exclusively to China and India, but is a large continent consisting of 54 states, rapidly developing, and in some respects already ahead of both China and India...” Can we say that Africa is already



Some African countries are showing impressive economic growth rates, sometimes exceeding 7-8% per year, which is ahead of the current rates of China and India.

beginning to lead the world economy?

– Yes, some African countries are showing impressive economic growth rates, sometimes exceeding 7-8% per year, which is ahead of the current rates of China and India. In Africa, surprisingly, everything related to financial technologies is developing. For example Nigeria has completely switched to the electronic naira (*the monetary unit of Nigeria* – editors' note). Kenya and Rwanda have practically switched to electronic currencies, and Africa is among the world leaders in terms of decentralized finance technologies. Even in the smallest shop in a Kenyan village you can pay with your mobile phone. Africa is developing rapidly, and very soon in terms of its development rate it will overtake China and India and take an honorable leading

place on the world stage. According to UN forecasts, by 2100, 40% of the world's population will live on the African continent!

– This figure is impressive! In your opinion, will there be a breakthrough in the development of relations between the Union State of Belarus and Russia and African countries in the next 10-20 years? And will we have to compete in this matter with China, which is actively increasing its presence in those regions that have historically been under the influence of the West, including by building close relations with African countries?

– Of course, we will have to compete. And not only with China, but also with the Persian Gulf countries – Saudi Arabia, the United Arab Emirates, and Türkiye. By the way, Türkiye,

Even in the smallest shop in a Kenyan village you can pay with your mobile phone. Africa is developing rapidly, and very soon in terms of its development rate it will overtake China and India and take an honorable leading place on the world stage.



which has been pursuing an active African policy since 2003, opening flights to almost all African countries, has become a hub between Europe and Africa. Look how actively the Turks are working in the development of the hotel business, and in the training of African military personnel, and in the construction of port infrastructure... Today there is a real struggle not only for African resources, but also for the sympathies of the African population, and we have advantages in this struggle because Russia has never colonized Africa. On a mental level, representatives of Belarus and Russia are perceived by Africans better than, for example, the Chinese, Indians, and Americans. But to enter the African market, sympathy is not enough – all Russian and Belarusian projects should have a social focus and be useful and needed by the residents of the continent.

– We know cases when representatives of some African countries came to the Russian Federation to search for geological exploration data that had been compiled by Soviet geologists. In many cases, Western companies, extracting certain resources in Africa, may not even inform the leadership of these countries about the volumes of production, limiting themselves to rent. In your view, are Africans beginning to realize that technologies should be proprietary, and that only

in this way will they be able to continue their development?

– Definitely. During the first parliamentary conference in 2018, where a special session on Africa was held, the head of parliament of one of the African countries said the following: “We don’t need trade from Russia, we have a huge volume of trade with the European Union, and with China, and with the United States, we don’t need money from Russia, we know where to get it, we need technology from Russia, because without the development of technology, Africa will remain a raw materials appendage of the West and will not be able to receive decent income from its resources.” Africans have a basic program document, “Agenda 2063”, a master plan that envisions transforming Africa into a developed and prosperous continent of the future, one of the points of which is “Modernization based on modern technologies.” Africans perceive Russia not as a country that has come to rob their people and their natural resources, but as a brother, and expect investment from us, participation in the creation of joint ventures and the development of modern technologies. Russia is the undisputed world leader in energy, information and communication technologies, in agricultural technologies, in the space sector, in the areas of



water purification, water treatment, construction, and also occupies one of the leading places in mining, and we are ready to cooperate in all these and other areas.

– Which African countries do you foresee will demonstrate a rapid breakthrough in the development of the mining industry in the near future? Which regions should BELAZ, as a manufacturer of mining equipment, focus on?

– It is difficult to focus on specific countries because in Africa everything changes very quickly in an unpredictable way. I have often been asked to name the top 10 African countries that we need to engage with right now, and several times we have named certain countries, and then suddenly it turns out that some “dark horses” are becoming outstanding leaders in one area or another. For example: the Alliance of Sahel States, which includes Burkina Faso, Niger and Mali. We had not even heard of these countries three years ago, and today Russia is concluding a strategic partnership agreement with them. By the way, mining is developing very actively in these countries, and BELAZ should focus its attention on them. On the other hand, there is not a single African country where the mining industry is not developing. For example, the Democratic Republic of Congo is a huge, luxurious country with rich natural resources, a full periodic table. I would highly recommend you to pay attention to

I have often been asked to name the top 10 African countries that we need to engage with right now, and several times we have named certain countries, and then suddenly it turns out that some “dark horses” are becoming outstanding leaders in one area or another. For example: the Alliance of Sahel States, which includes Burkina Faso, Niger and Mali.

it in the future. The current political and economic situation there is complicated, primarily due to the struggle of various international actors for the unique wealth of the DRC, primarily cobalt, coltan, lithium and diamonds. Whoever is able to provide the DRC with security in the broadest sense of the word will receive the highest dividends in the future.



A modern megapolis is located in the capital of Angola – the city of Luanda



– Despite the rapid development of telecommunications and modern technologies, Africa has quite big problems with energy. In Nigeria, for example, according to some data, only 18% of the population has access to electricity... How relevant can the green agenda be in this situation? How popular can equipment on alternative energy sources become? BELAZ, for example, has developments in the field of battery, hybrid equipment, equipment on hydrogen and liquefied natural gas, of which Africa, by the way, also has enough...

– Indeed, about 10% of the world's gas reserves are concentrated on the African continent. The fact is that Africa, like all of us-other countries, was also hooked on the green needle. 80% out of 100% of the projects implemented by Europeans in the energy sector are green: solar panels, wind turbines, etc. However nuclear energy, which is one of the most efficient in terms of carbon emissions, is not recognized by the West as part of the green agenda – exactly the same as liquefied gas. What do Africans say about this? I personally know the chairman of the African Energy Chamber, NJ Ayuk, and he reasons something like this: “We are being actively pushed into a green agenda, based on the fact that Africa has a lot of

sun and trade winds. However, we believe that this is one of the forms of modern colonialism in the energy sector. We need the whole range of energy technologies, we are not closing ourselves off from anything.» Africans foresee the possibility of building gas power plants, including those using liquefied natural gas, so your mining equipment – both diesel and alternative energy sources – may be in high demand.

– Let's talk about the younger generation and its role in developing Africa's technical potential. Today, in a number of African countries, unfortunately, a significant part of the population may be poorly educated. In primary school, children can get 9 years of education; the rest of the education is only on a fee-paying basis, which many often cannot afford. Moreover, statistics from our partner, the Empress Catherine II Saint Petersburg Mining University, show that most of the African graduates who received higher education at the university go to work in Western countries... What are African countries doing to solve this problem?

– For a long time, in a number of African countries, France completely dominated, including in the mining sector, and controlled everything, leaving



Africans mainly to do administrative work, such as shuffling paperwork... As a result, Africa has a big problem with qualified specialists. Even now, in most African countries, since almost all of them were colonies, special subjects, including physics and chemistry, are taught exclusively in English or French starting from the 6th grade. And this also lays the foundation for the tendency that the best minds will flow away. As for higher education, there are problems too, and in order to solve them, it is necessary to actively develop a system of targeted training of specialists. In the Soviet Union there was a wonderful practice: a student, after graduating from a university, had to work for three years at the enterprise to which he was assigned. The same system can and should be built in Africa. But for this, it is necessary to develop modern production, which needs highly qualified specialists.

– Indeed, our nations have much in common. For example, in Africa there are many proverbs similar to ours: “Better to die than to betray a friend”, “A friend in court is better than a penny in purse”, etc. In what other ways do you see similarities?

– Our similarity lies in our communal consciousness. The economic basis for the development of Russia and Africa was the community, not individual production, as it was in Europe. Look how an

We are close to Africans in mentality... Openness, kindness, desire to help – these are our common features. But there are also differences... The well-known Hakuna Matata significant no worries! – is the basis of the African mentality. Cheerfulness, unhurriedness, lack of worries no matter what. We need to learn this attitude – free, happy, when you appreciate everything you have.

African village gathers a migrant – one brings him clothes, another money, a third gives him a lift in a car... Openness, kindness, a desire to help – these are our common features. But there are also differences. Africans love holidays. They know how to enjoy little things and do not focus on problems. The well-known Hakuna Matata – no worries! – is the basis of the African mentality. Cheerfulness,

There is one important word that anyone who wants to build a business in Africa should know – «respect»... And even if you do not offer ideal financial conditions, but show that you work with them on equal terms, you will achieve a lot. For them, respect is a gene.

unhurriedness, lack of anxiety no matter what. We need to learn this attitude to life – free, happy, when you appreciate everything you have.

– What traditions or customs have you seen in Africa that have left a big impression on you?

– During one of my last trips to Niger, I met a unique nomadic tribe, the Wodaabe, where matriarchy still flourishes. There, women choose their husbands, and the grooms line up in a long line, dress up, make up, demonstrate their beauty and strength, which they try to emphasize with clothes, tattoos or drawings. It looks very beautiful, bright and unusual for our mentality.

– What advice would you give to people who want to develop cooperation with African countries?

– There is one important word that any person who wants to build a business in Africa should know – «respect». Africans are very sensitive to the attitude towards them as «white-black». Therefore, even if you do not offer ideal financial conditions, but show that you work with them on equal terms, you will achieve a lot. For centuries, the inhabitants of Africa have been oppressed by the British, French, Portuguese, Belgians, Spaniards and other «European enlighteners», perceiving them as second-class people. And the USSR helped them in the liberation struggle and in building the national economy, education and culture. Therefore, partners from the former republics of the Soviet Union, who treat them with respect, arouse sincere sympathy among Africans. Be respectful, and everything will work out for you!

– It is a very valuable advice! Thank you very much, Mrs Abramova, for a meaningful and interesting conversation.



ALLIES OF EARTH AND HUMANS

Africa is the second largest continent in the world that has enormous reserves of natural resources. From gold and diamonds to oil and gas and before the rare earth metals needed for modern electronics, this land holds treasures in its depths that can ensure prosperity not only for individual countries, but also for the entire continent.

Mother Africa, how is it so paradoxical that, despite this raw material base, most of the continent remains a poor and economically backward region? Nevertheless, the wealth of minerals is God's grace or is it completely wrong?

Let's figure it out.



Mother, what do the Dutch have to do with it?

Oddly enough, we are not talking about the African colonies of the Dutch here. There were relatively few of them, and even those were transferred to the French and the British during territorial perturbations. In 1977, the term «Dutch disease» was first used in the pages of the Economist magazine, which described the link between the country's growing exports of raw materials and its simultaneous economic decline. In the late 1950s, a large natural gas field was discovered in the northern Netherlands in the province of Groningen, which was actively developed and the gas, accordingly, exported. The currency flooded into the country, which only strengthened the national currency (the Netherlands entered the eurozone only in 1999).

And then, as in a textbook on economics for non-core universities: the growth of household incomes has led to additional demand, because the more opportunities, the greater the needs. Imports of goods grew, and the population increasingly wanted to use imported goods, because they were

now much more affordable. These processes were watched with envy by the local industry, which found it more difficult to sell its own products. The situation among manufacturers worsened, and unemployment became noticeable, as personnel gradually flowed into the extractive industry. And as a result, the welfare of the population, despite the natural resources found, has been shaken. Although, it would seem... Since that time, excessive exports, especially with an emphasis on active mining, which negatively affects the country's economy, have been called the «Dutch disease.»

Mother, we are rich!

Africa's geological diversity is the key to its rich natural resources. The continent has a complex geological history, including ancient shields. They represent vast territories composed of ancient crystalline rocks, which are rich in deposits of gold, diamonds, platinum and other valuable metals. Deep sedimentary basins formed as a result of prolonged erosion and sediment accumulation are rich in oil, gas, and other sedimentary minerals.



BELAZ mining dump truck in Zimbabwe, 2017

In addition, rift zones, where the separation of tectonic plates, and a variety of climatic conditions from the equatorial climate to the arid – all this also contributes to the formation of various types of soils and minerals. In practice, it looks like this: Africa contains about 30% of the world's mineral reserves. South Africa and Gabon are the world's leading producers of manganese. Zimbabwe has some of the world's largest platinum reserves. Nigeria and Libya are the world's largest producers of oil, Algeria and Egypt – natural gas. Angola is a country of diamonds and iron ore, and Ghana is the largest producer of gold. Congo produces 54% of the world's cobalt – a metal used in the production of lithium-ion batteries for newfangled electric cars. This list can be continued for a long time, but the point is the same – the economic potential of the continent is huge. And everyone knows about it.

Mother, who are all these people?

«Africans were deceived by Western powers, who saw the continent as a source of natural resources,» said Jean-Claude Gakosso, Minister of Foreign Affairs of the Republic of Congo, quite bluntly on the sidelines of the Russia-Africa Partnership Forum, which took place in November 2024. The current state of the continent is already

a symptom of a long-standing invasive disease. Here, «thank you» should be said to the colonialists, who took advantage of the position of the strong and took all the resources: human and natural. But as long as mines, factories, financial institutions, and transport are in the hands of foreigners, the well-being of Africa will continue to rush past its inhabitants like numerous speeding pickup trucks, mercilessly covering the thin silhouettes of children sitting along the side of the road with joot. Dutch disease in all its glory.

Today, the tools used by unscrupulous countries to achieve their economic interests in the region are no longer at all surprising: endless wars, corruption, unequal trade agreements – all this creates fertile ground for even more siphoning of resources. Like skilled drummers in a musical group, with one hand they point to the infringement of the rights of minorities with the other, and with the other hand they build a real system of neo-colonialism in Africa, nullifying the efforts of responsible national politicians to strengthen the economies of their own countries.

Mother, look at these huge vehicles!

Where there is a challenge, hope is born. The formal words about the importance of the African region for

Our partnership with African countries has been going on for almost 60 years, since 1966, when the 27-ton BELAZ-540 went to Egypt. During this time, Belarusian mining dump trucks were supplied to more than 15 countries in the region. And today, over 800 units of equipment under the BELAZ brand operate on the African continent.

BELAZ do not fully convey the desire to promote stable economic growth of the continent and the well-being of its residents. Moreover, we have such experience – our partnership with African countries has been going on for almost 60 years, since 1966, when the 27-ton BELAZ-540 went to Egypt. During this time, Belarusian mining dump trucks were supplied to more than 15 countries in the region. And today, over 800 units of equipment under the BELAZ brand operate on the African continent. BELAZ's mission is crystal clear and

understandable: lift, transport, give away. Make the treasures of the earth accessible. And if these treasures make Africans happier, then the mechanical work of our dump trucks goes beyond its usual framework. BELAZ trucks in Africa should be a kind of bridge. Between the depth of the mine and the light, between the subsoil and the opportunity for people to build roads, hospitals and schools. For our dump trucks, there is no difference in «Russian» or «African» ore. There are people who need help. There is work. There is a task. And we are ready to solve it effectively for the benefit of the entire continent. BELAZ's steel hearts beat not to the beat of high political opportunistic interests, but to the beat of their work. Their help to Africa lies not in words, but in deeds, in their willingness to work every second and become true allies of the earth and people who extract not only ore, but also their future from the depths. And everything else is just dust settling on the unshakable sides of Belarusian dump trucks.



BELAZ dump truck operator from one of the African open pit mine reads the BELAZ GLOBAL magazine

NEW DUMP TRUCK

with hydro-mechanical
transmission

92 TONS

- ✓ **HMT BELAZ 6+1**
new generation
- ✓ **NEW DRIVE AXLE WITH THE
INCREASED SERVICE LIFE**
- ✓ **HIGH-STRENGTH
FRAME**
- ✓ **MODERN ELECTRONIC SYSTEMS**
automatic braking control on downhill,
traction control
- ✓ **HIGH-LEVEL
SECURITY**



UP TO 90% OF LOCALLY
PRODUCED COMPONENTS



BELAZ-75575: 92-TON DUMP TRUCK WITH HYDRO-MECHANICAL TRANSMISSION

BELAZ company continues to actively invest in research and development of new models of mining equipment.

To strengthen its leadership position in the pool of leading global manufacturers of mining equipment, BELAZ is expanding its range of dump trucks in the strategically important 90-ton payload capacity class. The new 92-ton BELAZ-75575 mining dump truck, equipped with an upgraded planetary hydro-mechanical transmission, meets current market requirements and combines efficiency with high performance characteristics.

The key components of the dump truck, including the improved planetary gearbox (6+1) with electronic-hydraulic control system, a new drive axle with the increased service life and a high-strength frame unified with the frame of BELAZ-7558 series dump trucks, were developed

in-house. They ensure maximum reliability and durability of the dump truck.

Under the hood of BELAZ-75575 is a powerful diesel engine from the Yaroslavl Motor Plant, capable of developing 1050 hp (775 kW), and a new dual-circuit hydraulic system combines control of the steering mechanism, braking system and dumping mechanism. At the same time, the main design feature of BELAZ-75575 with hydro-mechanical transmission, in comparison with dump trucks of similar payload capacity from other manufacturers, is the optimal distribution of transmission ratio, which allows the dump truck to move with a load uphill at a higher speed.

In its basic complete set, 92-ton truck is equipped with a number of important options: a remote monitoring system for the main units and assemblies, a two-component fire extinguishing system with remote activation, a fuel tank with a quick-fill valve and the ability to externally visually monitor the fuel level. Modern electronic systems, such as automatic braking control on downhill and traction control, are implemented with an emphasis on safety. BELAZ-75575 has a 360° active video viewing system with four cameras and motion sensors installed in hazardous areas, with an audible signal when approaching an object. These solutions also contribute to increased safety and ease of operation of the dump truck.

The dump truck cabin complies with international safety requirements for ROPS systems – operator rollover protection and FOPS – falling object

protection. The workplace comfort is ensured by a comfortable pneumatic seat, automatic climate control and an operator fatigue monitoring system. The maximum thoughtfulness of the design of BELAZ-75575 dump truck with a planetary Hydro-mechanical transmission, a high level of reliability and safety of the vehicle machine are harmoniously combined with a simple algorithm for its diagnostics and maintenance.

The dump truck has inherited proven solutions, including a center for quick refueling of the lubrication system, coolant and oil, as well as systems for monitoring loading and tire pressure. The dump truck will be tested at BELAZ's industrial test area at the Sitnitskoye deposit in the Brest region of the Republic of Belarus, which will confirm its high performance and readiness to operate in a modern mine.

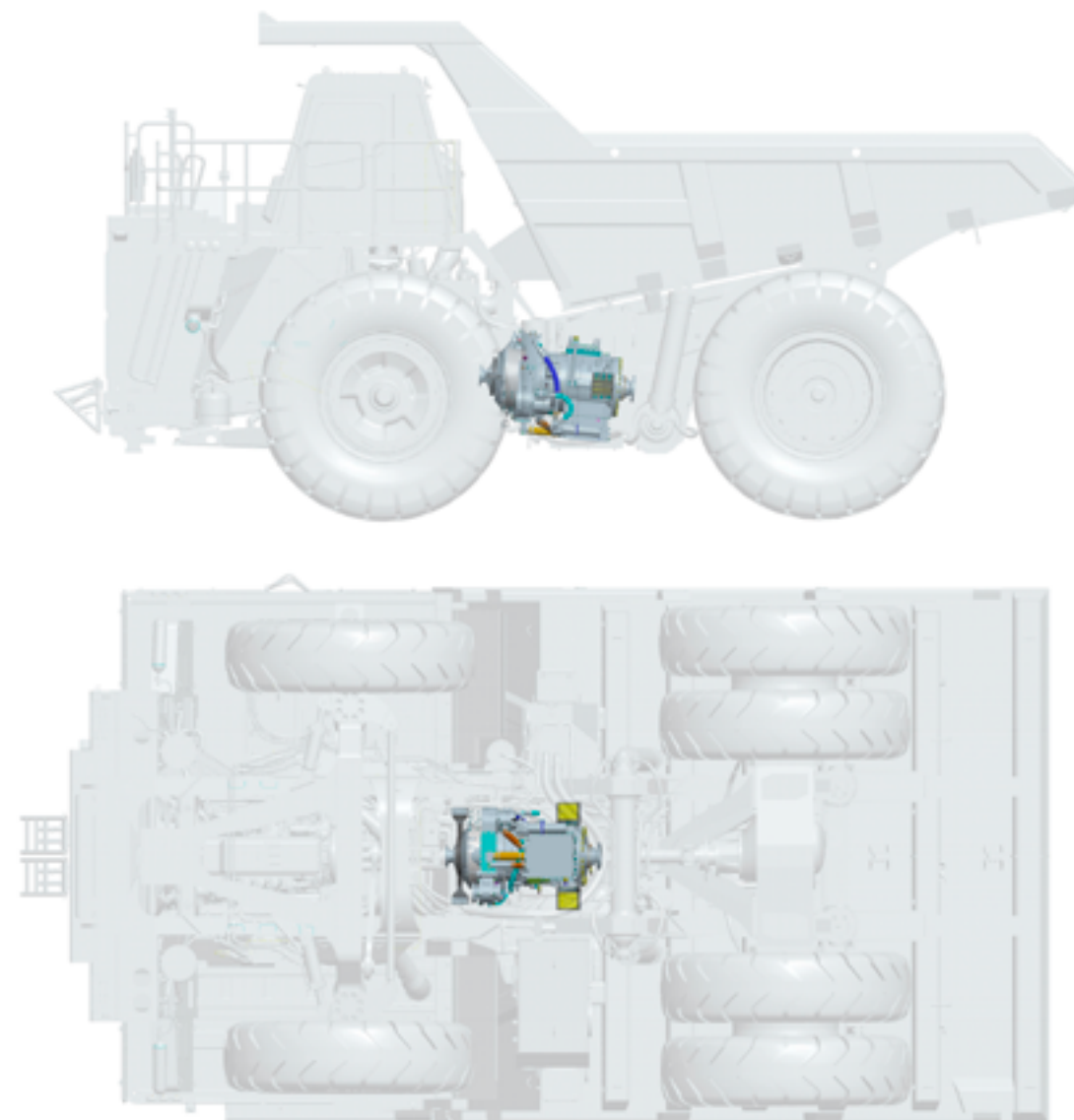
TECHNICAL CHARACTERISTICS OF BELAZ-75575:

-  Nominal payload capacity – 92 t.
-  Unladen weight – 70 t.
-  Engine power – 775 kW (1050 h.p.).
-  Fuel tanks volume – 1105 l (basic) / 1400 l (optional).
-  Body capacity – 64 m³.



HYDRO-MECHANICAL TRANSMISSION OF NEW GENERATION

BELAZ company has created a planetary hydro-mechanical gearbox, which has become a key element in the development of the new 92-ton BELAZ-75575 mining dump truck.



Over the past two years, the transmission has undergone a major upgrade, namely: an automatic planetary gearbox and a drive axle have been significantly improved. During the development, the operation experience of a planetary hydraulic mechanical transmission installed in 55-ton BELAZ-7555H dump truck was taken into account, and the design was made using modern calculation methods and computer modeling.

The key innovations concerned the design of the planetary rows and carriers, which made it possible to ensure a uniform load on gears and bearings.

To improve the reliability of gear shift, the specialized high-capacity satellite bearings were used, which were developed considering the modern requirements. The driven friction disks were heat-treated, and the surface hardness of the satellite axles was improved by using special steel.

The new planetary hydro-mechanical gearbox with six forward gears and one reverse gear (6+1) allows the dump truck operator to select the optimal traction and speed mode, facilitating the control of large-sized equipment and increasing traffic safety.

Although a series of 90-ton dump truck with electrical mechanical transmission remains one of the most popular in BELAZ model range, the new planetary hydro-mechanical transmission opens up additional prospects for the vehicles with hydro-mechanical transmission due to its cost reduction applying the main units of our own production, in particular, the transmission, and improved weight and size characteristics.

Considering that up to 70% of the world market of mining dump trucks with payload capacity of 90-100 tons is occupied by vehicles with hydro-mechanical transmission, BELAZ intends to increase its share of sales in this segment.

The main competitive advantages of BELAZ-75575 dump truck with planetary HMT for the customers are lower price, availability of original spare parts and official service directly from the equipment manufacturer.

Today, BELAZ workshops are already being equipped with modern high-precision equipment for serial production of the new generation transmissions.

TOP-8 IMPROVEMENTS TO THE NEW GEARBOX that have made it more reliable and serviceable:

- 1 Increased acceleration dynamics and smooth gear shifting:** thanks to improved dynamic characteristics, the new transmission surpasses the foreign analogues in response speed and smoothness of operation.
- 2 Optimal distribution of gear ratios among the first three gears:** in the main operating mode of the mine (I, II, III gears) provides the ability to move uphill with a load at a higher speed, which increases productivity.
- 3 Six-speed gearbox with one reverse gear (6+1):** provides the operator with a wide range for selecting the optimal traction and speed mode when driving a dump truck.
- 4 Modern electronic hydraulic control and diagnostic system:** allows shifting gears both automatically and manually, and monitors the transmission condition in real time to prevent breakdowns.
- 5 The latest design of planetary gear sets and carriers:** ensures uniform load distribution on gear wheels and bearings, which increases the service life of the units service life of the units.
- 6 Special high-capacity satellite bearings:** designed to meet the modern requirements for reliability and durability.
- 7 Heat treatment of driven friction discs:** significantly increases the wear resistance and service life of the transmission.
- 8 Use of special steel for satellite axles:** increased surface hardness further reduces the wear and extends the service life.

In total, it is planned to procure 11 units of equipment with an investment volume in fixed capital of more than \$10 million.

This year, 6 units of equipment have already been delivered for more than \$5 million: these are multifunctional horizontal machining centers with software control for the implementation of the technology for machining the crankcase parts of a planetary gearbox, as well as the latest test bench for hydraulic mechanical transmissions and torque converters. The second part of the required equipment is planned to be introduced in 2026-2027, allowing the production of planetary hydraulic mechanical gearboxes with even higher precision, increasing the service life, reliability and competitiveness of the products.



The first BELAZ excavator will undergo an endurance test in Siberia

Having completed acceptance tests at the plant, BELAZ BX20012 was shipped to one of the open-pit mines of the Russian coal mining company SUEK in Siberia. It took 21 days, 10 skilled workers and 6 units of auxiliary equipment to prepare the first mining excavator for shipment. The vehicle was carefully disassembled into several dozen parts, the largest of which weighed more than 20 tons. All the parts were carefully loaded onto 8 railway platforms, for comparison, a 130-ton BELAZ dump truck takes up only four such platforms, and sent on a long journey of five thousand kilometers.

EXCLUSIVE BRAND NEW CABIN



383

days of work
from the idea to its execution
in metal

40

checklists
with suggestions for improvement

11

operators
took part in testing
the prototype

57

key changes
implemented in the new cabin

”

Sergey Lesin,
General Director of OJSC “BELAZ” –
Management Company of Holding “BELAZ-
HOLDING”:

– A BELAZ operator is not just a driver, but a key success factor in mining, where every ton of ore, every kilometer of the road is the result of their skill and dedication. That is why we have invested all our experience, knowledge and advanced technologies in creating a cabin where comfort and safety are not just options, but the foundation of unmatched performance.

Not only the new cabin of BELAZ dump trucks is an improvement of working conditions; it is an investment in the most valuable thing – people who move the entire industry forward. This is an opportunity for our partners to attract the top professionals, reduce costs and increase the overall business efficiency. We have carried out large-scale, meticulous work and are confident that mining companies around the world will appreciate the new standard of care for those who control the power of BELAZ.

We don't just create dump trucks.
We create the future.



AT THE HELM OF THE FUTURE: BELAZ PRESENTS A BRAND NEW CABIN!



65 years of evolution

The first image of the BELAZ dump truck cabin was drafted by the Soviet designer Valentin Kobylinsky: he was the one who created the distinctive appearance of the BELAZ-540 dump truck with a single-seat cabin, a tilted windshield and a one-piece bonnet. Sketches and drawings were prepared at the end of 1960, and a plasticine model was made at a scale of 1:10 at the beginning of 1961. The cabin, lining and plumage of the vehicle were developed on the basis of this model.

“When we were studying, we had an expression: “Ideal!” A motive, a melody, something that will be remembered immediately. You catch it, like it, and get inspired so much that you barely have time to put it all on paper. Excitement takes hold of you because a key part has been found! For BELAZ-540 the key part was a single-seat asymmetrically placed cabin,” Valentin Kobylinsky recalled in one of his interviews.

Initially, BELAZ-540 was equipped with double lights, combined into rectangular roof lamps. Later, when the same cabin was used on a more powerful BELAZ-548 model, an L-shaped unified buffer with a built-in light was added. This made it possible to use the same cabin on dump trucks of different payload capacities, which simplified the production.

In 1968, a two-seater cabin was installed on a 75-ton BELAZ dump truck for the first time. With minor design changes, vehicles of various modifications with payload capacities of 75-120 tons were equipped with this cabin until the mid-90s.

At that time, due to the requirement to equip the driver's workplace with roll-over protective structures (ROPS) and falling object protective structures (FOPS), the corresponding changes were made to the design of the BELAZ cabin. Thus, in 1994, the BELAZ-7555 mining dump truck with a payload capacity of 55 tons was released, equipped with a two-seat cabin with a built-in bearing frame.

The cabin acquired its distinctive trapezoid shape and an increased internal volume compared to the previous version.



Valentin Kobylinsky in front of the exhibition sample of the BELAZ-540 at the Exhibition of Achievements of National Economy (VDNH)



The incorporation of the L-shaped buffer into the lining solved the important issue of scaling when using a unified cabin on vehicles of different payload capacities



Dump truck with a payload capacity of 75 tons



BELAZ-7555 with a payload capacity of 55 tons

The next significant changes to the cabin design were made in 2010. It received a more harmonious shape – front outer plastic lining, a new shape of glass and doors. Since then, the cabin has been equipped with an electronic instrument panel, modern switches, other control devices and air conditioning.

As such, with minor changes, the cabin existed for 15 years, and today, in the age of digital technologies, growing standards, safety and comfort requirements, it is time to completely rethink its role and functionality.



Cabin of the 130-ton BELAZ dump truck, 2024



Design concept

The new cabin of a BELAZ mining dump truck is the result of hard work aimed at maximizing the comfort and safety of the operator in harsh mining conditions.

“The efficiency and safety of the operator of a mining dump truck directly depend on the ergonomics of their workplace. Creating conditions for reducing the physical, nervous and emotional stress of a driver became the main task in designing the new cabin of BELAZ dump trucks,” says project curator, Deputy General Director for Strategic Development and Corporate Management Aleksey Grachev.

When designing the new cabin, the specialists relied primarily on a thorough analysis of the experience of the operators themselves.

“The design concept of the new cabin was developed based on information received from operators of BELAZ mining dump trucks, who also had experience working with equipment from other manufacturers. They are the ones who spend 12 hours a day in the dump truck cabin and know what is needed for comfortable and safe work,” notes Aleksey Grachev.

At the beginning of the work, a detailed checklist was formed, including 38 points, covering all aspects of the functionality of the cabin – from lighting to seat comfort. These questionnaires were sent to more than 40 operators around the world – from the Far North to the hot tropics. In addition, data and feedback were collected by plant specialists during business trips and specialized events, including the BELAZ Operators Club, where more than 30 drivers from six countries shared their impressions of the ideal cabin.

One of the most popular requests was the adjustment of the pedal assembly, allowing people of different heights and builds to comfortably sit in the cabin. In addition, there were requests to increase the number of air intake points, expand storage space and other improvements.

“We collected and processed a huge amount of information, having received a clear idea of the perfect cabin of a mining dump truck,” says the interviewee. *“It was this data that formed the basis of the technical specifications for the creation of a next generation cabin”.*



Aleksey Grachev



Ruslan Imukhazharov, dump truck operator from Russia, participant of the focus group:
“If this version of the cabin model is approved, it will be a breakthrough in the world of heavy-duty vehicles and, certainly, will contribute to increasing the prestige of the profession of a mining dump truck driver.”

Next-generation cabin

In record time, the team developed three options for layout and style solutions, one of which became the basis for creating a luxury cabin model. This model, as closely as possible replicating the future serial version, was first assessed by plant representatives, and then by a focus group of 11 operators of mining dump trucks from different countries invited to Belarus.

“It was important for us to hear whether the wishes of the operators, embodied in the new model, were justified, and we heard them,” the project curator notes.

OJS HC “Yakutugol” mining dump truck driver Ruslan Imukhazharov, prize-winner of the international championship of the BELAZ Operators Club-2023, during participation in the work of the focus group:

“Among the positive aspects, I will note a comfortable driver’s seat, climate control in the cabin, electric window lifts, change in the location of the windshield wipers ...

In general, the feeling from the cabin is as if you are sitting in a luxury car. If this version of the cabin model is approved, it will be a breakthrough in the world of heavy-duty vehicles and will certainly contribute to increasing the prestige of the profession of a mining truck driver.”

“Let’s face it, the cabin model delighted the entire group, and we were convinced that we’re on the right track! The operators noted that the cabin turned out to be extremely ergonomic, modern and convenient,” notes Aleksey Grachev. *“And it couldn’t be any other way: we did a tremendous*





job, during which we not only heard everyone, but also brought all their wishes to life. This is how the cabin appeared, created by the joint efforts of those who produce it and those who operate it!"

The new cabin fully reflects the main mission of the BELAZ brand – the production of high-quality and reliable equipment that meets consumer needs as much as possible.

The Deputy General Director emphasizes: *"Everything is thought out here down to the smallest detail! Improved visibility and optimized dimensions increase safety and adapt the vehicle for work in a mine. The use of high-quality and wear-resistant materials extends the service life in extreme conditions, and modern technical solutions ensure reliability and ease of maintenance. And most importantly: every element is thought out*

and created with care for the operator – so that they feel at home in the dump truck cabin – cozy, comfortable and safe."

Thus, the new cabin is not just a technology, but a living result of a great dialogue between the manufacturer and operators, embodied in comfort and safety, high standards and innovative thinking.

The new cabin has already been installed on the BELAZ-7513D mining dump truck, which is undergoing tests at the plant's testing area. Moreover, this particular vehicle was presented at the BELAZ-2025 Operators Club Championship, in which operators from 5 countries competed! 35 mining dump truck drivers were given a unique opportunity to be the first to test the new cabin and evaluate the vehicle as a whole, ready for operation.



**Pavel Ivanov, Zarechny,
JSC SUEK-Kuzbass coal opencast, Russia:**

"I really liked the new BelAZ cabin! The incredibly comfortable driver's seat adapts to any height. I'm very pleased that a blow gun has appeared in the cabin to get rid of dust and dirt, and a sun visor on the driver's door, which completely protects from bright light... A lot of cool changes! Of course, I would like to work on such a dump truck. I'm sure I would have been less tired and do more".



**Zaeimi Hamidreza Jafar, Chadormalu Mining and
Industrial Company, Iran:**

"The new cabin is just great! The gearbox responds very well, and the glass cleaners are conveniently located. The chair has become much better, softer and more comfortable. Compared to the previous version of the cabin, the gas and brake pedals are more responsive and comfortable. Overall, I have the most pleasant impressions and I would really like to see dump trucks with such cabins appear in Iran. This would be a new step towards even more comfortable driving of mining dump truck".

What's next?

After passing production tests, the dump truck with the new cabin will be shipped to a mine for industrial operation. Based on its results, in 2026, BELAZ will begin serial production of dump trucks with a payload capacity of 55 to 450 tons with an updated cabin.

"But that's not all," says Aleksey Grachev. "We do not intend to stop there and will continue to work on improving the dump truck cabin, paying special attention to modernizing an instrument panel and a pad in accordance with the innovations of the digital world. BELAZ equipment is becoming smarter, safer and more comfortable. The world is changing – and we are changing with it".



BEST FEATURES

OF THE BRAND NEW CABIN



01

Adjustable pedal assembly for greater comfort.



02

Cabin light opening increased by 15% to improve visibility.



03

High-power climate control for comfort in hot weather.



04

10-inch LCD monitor for visualization of the intellectual monitoring system data.



05

Increased number of light sources for improved visibility.



06

360 mm steering wheel (instead of the previous 420 mm) for easier access to controls.



07

Damping pads on the armrests to dampen vibration and reduce the strain on the operator's forearms and shoulder joints.



08

Seats with three-point seat belts for reliable protection.



09

Air heating under the driver's feet for comfortable working conditions during cold periods.



10

New driver's door lock, excluding blowing and freezing.



11

USB port for fast cell phone charging.



12

1 liter cooling compartment



13

Folding sun visor on the driver's door for improved visibility.



14

A pneumatic connector under the driver-operator seat for quick cleaning of the interior surfaces of the cabin from dust and dirt.



15

7 liters increased capacity washer tank that can be refilled from the outside of the cabin.



16

Deep side pockets, 1 liter pull-out drawer, a tray for storing shoes, cup holders for organizing the interior space.





BELAZ-7513W: GAS-FUELLED DUMP TRUCK

BELAZ Company continues to develop the gas theme in the creation of mining equipment: a prototype of a new gas-diesel mining dump truck with a lifting capacity of 130 tons has been assembled.



ADVANTAGES OF THE GAS-DIESEL DUMP TRUCK BELAZ-7513W:

- ✓ **Significant fuel savings,** since natural gas (LNG) is two times cheaper than diesel fuel which reduces transportation costs. At the same time, the percentage of diesel substitution with gas can reach 50% and higher, which further reduces costs.
- ✓ **Reduction of emissions of harmful substances and air pollution in mines:** the use of LNG and gas-diesel mode significantly reduces emissions of carbon dioxide and carcinogenic components, and also reduces smoke and gas pollution of work sites, which has a positive effect on the environment and working conditions.
- ✓ **High reliability and productivity of equipment** while maintaining power and torque comparable to similar diesel models.
- ✓ **Flexibility of operation and uninterrupted operation:** the equipment can operate both in a mixed gas-diesel mode and completely on diesel fuel when the gas supply is disconnected.

This dump truck is a bright representative of the top-series 7513 which in 2025 was awarded the State Quality Mark of Belarus, entering the twenty most significant domestic goods. The main innovation of the new BELAZ dump truck is an engine specially designed for operation in gas-diesel mode, allowing to replace at least 50% of diesel fuel with liquefied natural gas (LNG) during a standard working cycle.

This share of "blue fuel" is significantly higher than that of previously produced equipment. A unique fuel supply control system continuously regulates the ratio of diesel and LNG portions, ensuring maximum efficiency in various modes. The capacity of the tanks is designed for a 12-hour continuous cycle without refueling – the gas is stored in a 1,400-liter cryogenic tank located in place of the radiation hydraulic tank.

The engine power of the new dump truck reaches 1,194 kW (1,600 hp) with a torque of 6,500 N m which is comparable to similar diesel engines. However, at the same time, the owner saves significantly on operation and maintenance, as well as the efficiency of transportation of rock mass is noticeably increased.

The economic effect is achieved, first of all, due to the fact that liquefied natural gas is two times cheaper than diesel fuel, which leads to a



significant reduction in transportation costs. In addition, the use of LNG reduces emissions of harmful substances, improving the environmental situation in mines.

A special feature of the BELAZ-7513W model is the ability to operate exclusively on diesel fuel when the LNG supply is disconnected. However, such equipment cannot completely switch to LNG without diesel: the gas-air mixture is ignited using a small dose of diesel fuel, similar to the operation of a bi-fuel gas-diesel engine, unlike the spark ignition of mono-fuel gas piston engines.

The history of BELAZ Company operation with gas-powered equipment goes back several years. The first experimental low-capacity models – the 45-ton BELAZ-75476 and 30-ton BELAZ-7540S – debuted in 2017-2018 and successfully passed tests in Russian mines. Then the baton was taken up by larger models: in 2022, an experimental 90-ton gas dump truck BELAZ-7558N was assembled, and already in 2023, the first batch of such vehicles was transferred to the Avtokolonna-2015 Company for operation in Kuzbass. In 2024, the world's first 130-ton BELAZ-7513R mining dump truck using LNG was presented. After the premiere at the Coal of Russia and Mining exhibition, it was sent for operational tests in one of the open-pit mines in the Kemerovo region.

In 2025, BELAZ Company is preparing to premiere two significant new products at once: the 130-ton gas-diesel dump truck in question and a 220-ton gas-piston dump truck.

The Company continues to set itself the task of reducing the life cycle costs of equipment and reducing the environmental burden from exhaust gases. Operating experience confirms the success of solving these ambitious tasks, opening up new horizons in the development of mining equipment on gas motor fuel.



BELAZ-7513V

HYDROGEN MINING DUMP TRUCK



HYDROGEN ENERGY

BELAZ specialists presented a prototype of a 130-ton dump truck BELAZ-7513V with an innovative hybrid hydrogen-battery operation system, completely rejecting the diesel engine. This is a real breakthrough in the development of environmentally friendly mining transport.

Hydrogen – the fuel of the future

Hydrogen is the most energy-intensive and at the same time the lightest substance among all types of fuel, which makes it a promising energy carrier. It can play a key role in the decarbonization of energy, transport and industry due to its environmental friendliness, high specific heat of combustion and versatility of application. The use of hydrogen reduces dependence on fossil fuels and opens up new horizons for the development of «green» energy, including the mining sector.

From concept to reality

The creation of a hydrogen dump truck was the result of BELAZ's own experience in the development of hydrogen power plants. The first tests of a prototype based on a 130-ton dump truck were successful in 2023, demonstrating the potential of the technology.

Thorough production tests made it possible to optimize the interaction of hydrogen fuel cells, batteries and traction electric drive systems. In

PREMIERE

August 2025, a prototype of the BELAZ-7513V hybrid dump truck running on hydrogen fuel was assembled.

Technical features and operating principle

The hybrid system of the new dump truck includes two hydrogen fuel cells and 15 batteries with a total capacity of 1,340 kW. The capacity of the hydrogen storage system reaches 4,100 liters. For optimal operation, two cooling systems for the fuel cells and batteries are provided.

The traction electric drive consists of a power transmission control cabinet, two AC electric motors and an additional electric motor that supplies power to the hydraulic pump and cooling fan.

The energy generation process is based on the electrochemical reaction of hydrogen with oxygen, which produces electric current and environmentally friendly water vapor. The resulting

electrical energy is sent directly to the traction electric motors through the control cabinet.

Particular attention is paid to the energy recovery system, which converts excess kinetic energy during braking or driving down the slopes into electrical energy, recharging the batteries and significantly reducing fuel consumption. This allows the BELAZ-7513V hydrogen dump truck to operate non-stop for up to 8 hours, although the actual range depends on operating conditions and the route profile.

BELAZ-7513V is equipped with modern systems and options that are included in the most popular serial models of 130-ton trucks among miners: the latest IMS intelligent system for monitoring and diagnosing the technical condition of the vehicle, a loading control system with a digital indicator panel, a telemetry control system for measuring air pressure and temperature in tires, an automatic centralized lubrication system, a





device for signaling the approach of the vehicle to a high-voltage line, an automatic fire extinguishing system, a heating and air conditioning unit in the cabin, and an active video review system.

This innovation opens up new prospects for environmentally friendly and efficient mining transport, demonstrating BELAZ's commitment to sustainable development and technological leadership.

Advantages of Hydrogen Dump Trucks

Hydrogen dump trucks are a progressive solution in the field of environmentally friendly transport. Most importantly, they are absolutely **environmentally friendly**. Carbon dioxide and heavy metal emissions are reduced to zero - only steam is released into the atmosphere, which makes them an ideal choice for protecting the environment.

In addition, hydrogen fuel cells demonstrate **high energy efficiency** and greater energy capacity compared to traditional diesel engines. This means that significantly less hydrogen is required to perform the same work than diesel fuel, which contributes to a more rational use of resources.

It is also **worth noting noise and vibration pollution** reduction on the environment. Hydrogen dump trucks operate almost silently, since only the light functioning of the traction electric motors is heard.

Finally, **operating costs of hydrogen dump trucks are generally lower** than those of classic diesel models, provided that there is a developed infrastructure for the production and delivery of hydrogen in a mine. This makes hydrogen dump trucks not only environmentally friendly, but also cost-effective.

Where will the first BELAZ dump truck on hydrogen be tested?

"The first testing area for a dump truck on hydrogen fuel will be the mine of the Mikhailovsky GOK named after A.V. Varichev in the Belgorod Region, where one of the world's largest iron ore deposits is located," says BELAZ General Director Sergey Lesin. "The company Metalloinvest has its own steel production, and it has hydrogen, which can be used as fuel for our new vehicle. This is why this particular site was chosen for testing".

It should be noted that the first pilot batch of hydrogen dump trucks BELAZ-7513V is already on its way to Sakhalin Island, where our company is participating in a unique hydrogen project.

It is worth reminding that last summer BELAZ signed an agreement with Russian partners, providing for the delivery of three 130-ton hydrogen trucks to the first hydrogen testing area in Russia. The parties agreed to conduct joint research and develop mechanisms for the implementation of hydrogen mining equipment in open-pit coal mining.

Dmitry Livanov, rector of the Moscow Institute of Physics and Technology, one of the participants in the hydrogen project on Sakhalin:

"There is not only advanced technology under the bonnet of the new BELAZ dump trucks on hydrogen fuel, but there are also studies that will allow us to develop the use of hydrogen energy sources in various areas of transport, as well as scale up the areas of their application depending on regional needs".



Sergey Lesin



Dmitry Livanov, ph: rbc.ru

EQUIPMENT

INVESTMENTS IN MODERNIZATION CONTINUE

As part of the strategy to improve the quality, reliability and competitiveness of manufactured equipment, BELAZ Company is actively implementing advanced technological solutions, upgrading production capacities and improving processes.



Gear grinding machines with numerical program control

The enterprise has commissioned two new gear grinding machines with numerical program control, which has significantly increased the degree of automation of the production of gears for hydromechanical gearboxes of mining machinery. Thanks to advanced technologies of direct drive and high-precision synchronous control, the machines ensure precise synchronicity of movements along all axes, which reduces the time of grinding operations and significantly increases the productivity and quality of parts processing.

Multi-operation machining centers

Horizontal machining centers with program control occupy a key place in the development of the technology of complex machining of parts of hydromechanical gearboxes of our own production, intended for new models of mining dump trucks with a lifting capacity of 55 and 90 tons, as well as for serial 30-55-ton dump trucks. This equipment allows for automatic execution of a wide range of complex metal-cutting operations - milling, drilling, thread cutting and much more - with high accuracy. Together with modern cutting tools, multi-operation centers ensure an increase in the quality and speed of machining, reducing the labor intensity and cost of manufacturing hydraulic transmission parts by up to 30%.



Line for applying wear-resistant coatings to tools

A new technological complex for applying wear-resistant coatings to cutters, milling cutters, drills, taps and other metalworking tools has become an important stage in improving the production process of the tool shop. Tools with such coatings are distinguished by a significant increase in resistance, operating time before resharpening, reduced wear of the cutting edge, which allows to increase the cutting speed, as well as the quality and accuracy of processing parts. Coatings are applied both to high-speed steel tools – increasing wear resistance up to 70%, and to carbide products. For application, materials based on titanium, molybdenum, zirconium and their compounds are used.



Investments and development

In the first half of 2025, the enterprise has acquired 42 units of modern high-precision equipment. The total volume of investments in fixed assets exceeded \$31,8 million dollars – almost twice as much as in the same period of the previous year. More than \$21 million dollars were spent on purchasing advanced machines and equipment, including welding machines, thermal cutting machines, metal-cutting and forging machines, CNC machining centers, metal coating and painting units, lifting mechanisms and other equipment.

The integration of such modern machines into various workshops of the enterprise gives production flexibility, allowing it to quickly master new types of products and quickly adapt to market requirements. This case significantly strengthens BELAZ's position in the world market, confirming its leadership in the industry.



7513 D

BELAZ

7513 D

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ЭКСКЛЮЗИВНЫЙ ПАРТНЕР



АКЦИОНЕРНОЕ
«ХОЛДИНГОВАЯ КОМПАНИЯ»
АО «ПТФК»

THE WINNER OF THE IV INTERNATIONAL CHAMPIONSHIP OF BELAZ OPERATORS CLUB IS VLADIMIR MATVEYEV FROM RUSSIA

Vladimir Matveyev, an experienced operator of mining dump trucks of Solntsevsky coal mine won the main trophy of the competition – The 2025 Champion's Cup! The winner from Sakhalin Island was joined on the victory podium by two of his fellow-countrymen from Kuzbass, namely Dmitry Sutyagin from Permyakovsky Open Pit Mine and Evgeny Ulyanov from JSC "Coal Company Kuzbassrazrezugol".



This year, 35 professionals in their field, representing leading mining companies from 5 countries of the world – Armenia, Belarus, Iran, Kazakhstan and Russia – competed for the proud title of the Champion of BELAZ Operators Club.

On the eve of the Championship – on the 9th of September, Tuesday, – the participants managed to get acquainted with BELAZ museum exposition, the assembly workshops, the main locations of the competitions and underwent the mandatory safety training. Feedback from the operation site allows us to obtain valuable information about performance of our dump trucks. By promptly responding to customers' requests and suggestions, BELAZ offers more advanced and tailored solutions taking into account the real needs of the mining industry. At the most spectacular stage of the competition, the driving skills, operators' skills in maneuvering on difficult sections of mining roads, as well as the speed and filigree accuracy of tasks performance behind the wheel of our top 130-ton BELAZ-7513D mining dump truck came to the fore during the practical races along the test site route.

In the fight for seconds and credit points, the operators skillfully «drew» complex shapes on the route, trying to perform the «eight» as accurately as possible, driving over rough spots, diagonal parking, driving into a «box» and other far from easy exercises, sometimes baffling even the most experienced.

The most spectacular part of the competition program was a task of special «refinement» – to burst two balloons with «spears» attached to a dump truck. At this stage, the operators had to not only take into account the finest nuances of driving a truck, but also rely entirely on their professional intuition.

As a result, according to the calculations of the impartial and unbiased judges, the champion result in terms of the total points scored was shown by Vladimir Matveyev (Solntsevsky Coal Mine).

The IV International Championship of Professional Skills of BELAZ Dump Truck Operators turned out to be eventful, bright and memorable. It will become an integral part of the history of the Operators Club and will give a new impulse to further development of this large and unifying project of BELAZ.

ENGINEERS OF THE FUTURE TAKE OVER BELAZ'S EXPERIENCE

The educational and introductory practice within the framework of joint educational programs of BELAZ and the Saint Petersburg Mining University of Empress Catherine II (SPSU) is an excellent start in the profession for first-year students of a reputable Russian University.

The creation of a reliable personnel reserve, capable of ensuring the process of continuity of generations in the mining industry in the future is an important strategic direction for BELAZ Company. The solution of this problem is facilitated by the Company's close partnership with the leading Technical Universities of Belarus and Russia. In this regard, the alliance of BELAZ Company with SPSU is indicative which is currently implementing a new practice-oriented concept of engineering education. One of the key joint tasks of the University and the manufacturer of mining equipment is to create conditions for students to see the prospects of working in their specialty, gain broad practical experience and master all the competencies necessary for young specialists in order to have a competitive advantage in the labor market in the future.

As part of our partnership project, which has been implemented for the second year, three large student groups of 70-74 people, more than two hundred interns in total, interned at the BELAZ production base, where they observed with their own eyes the manufacturing process of mining machinery with unique characteristics, and also visited other Belarusian enterprises, Educational Institutions and iconic places in our country.

According to the stories of the students of the Mining Institute, in the first semesters they listened to lectures on the specifics of organizing machine-



building production, and at BELAZ Company they saw with their own eyes what their teachers told them about. In the workshops and during training seminars at BELAZ Company, future engineers were able to ask any questions to technologists, designers and managers of the enterprise, including Alexander Naskovets, General Designer of BELAZ Company. He told the guys about the Company's hottest innovative developments: the

creation of mining dump trucks on alternative energy sources - electric, gas, hybrid and even hydrogen as fuel, digitalization and robotization of equipment.

"I may say that here, at BELAZ Company, I have become even more convinced of the correctness of my choice of profession as Design Engineer," – noted Ivan Kuznetsov, a first-year student of the Engineering of Technological Equipment group of the Department of Mechanical Engineering. "Practice allows us to understand and to comprehend what we will actually have to do in the profession, in real working life in the future".

In turn, Stepan Zavyalov, a first-year student of the Faculty of Economics at St. Petersburg State University, emphasized that such an internship



Ivan Kuznetsov, 1st-year student of the Faculty of Economics



was a great and invaluable experience for him personally:
"We were introduced to the main chain of production processes, we also learned a lot about the history of BELAZ Company, having visited the museum, and also about the labor traditions that were formed here. We were very impressed by the scale of the enterprise".

The BELAZ Competence Center is successfully operating at SPSU, in whose unique laboratories students get acquainted with the structure of equipment and the operation of intelligent control systems for the operation of mining dump trucks. BELAZ helps to connect theory with practice, opening up a new world of production to first-year students in which most of them will soon begin to build their professional careers.



Stepan Zavyalov, 1st-year student of the Faculty of Economics



Ekaterina Golovina,
 Deputy Head of the Department
 of Industrial Economics, Head of the 1st-
 year practical training in the specialty
 "Economics of Enterprise", Associate
 Professor:

"Our group of economists is participating in such an educational and introductory practice for the first time. BELAZ Company has worldwide recognition, great strategic importance in the mining industry and glorifies the Republic of Belarus. And you may read as much information as you like, watch a lot of videos, but when you see this power with your own eyes, this amazing mining equipment, even we, guests of the enterprise, are proud that we are witnessing the birth of such vehicles.

We walked through the workshops, saw that any production is a living organism, everything moves clearly in its own course in the working rhythm. The benefit of such an internship is colossal. I see genuine interest in the guys' eyes. In the Leningrad Region, we managed to visit two mines, where we saw how small BELAZ dump trucks, loaders, drilling rigs look in their scale. Now we understand how huge this equipment and its production are. All this gives the children the most complete idea of the production chain from the assembly line to the open-pit mine and demonstrates the level of Belarusian quality.

We are very grateful to our University and its academic partner BELAZ for the opportunity to visit the production of world-famous mining machinery".





BELAZ FEST 2025

For the third year running, Zhodino was charged with a festive atmosphere and a great mood. The city hosted a large-scale festival – BELAZ FEST, which attracted more than 23 000 spectators!

According to the established tradition, the leading place at the event was taken by the exhibition of equipment. An important role in the composition of the stage and the creation of a festive atmosphere was played by 90-ton mining giants, namely a dump truck with gas-powered engine and a dump truck stylized in the colors and elements of the national flag of Belarus.

Numerous Zhodino residents and the guests of the city, who gathered on a sunny day on the 2nd of August at the Palace of Culture of BELAZ, were also presented our retro dump trucks, such as a 30-ton BELAZ-7540 dump truck and a 40-ton raspberry BELAZ-754856 with excellent locations for photography.

For each festival, we try to exhibit our new equipment. This year, we focused on special-purpose equipment and the public was presented by a new upgraded slag truck, manufactured individually, as per the order of the metallurgical

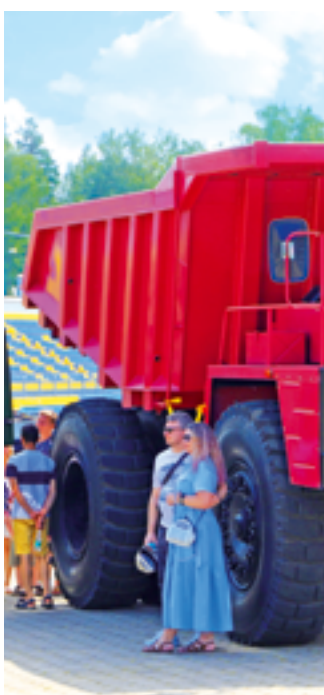
enterprises, as well as the equipment for airports – an aircraft tug.

The festival provided a thematic zone dedicated to the 80th anniversary of the Great Victory, with military equipment and photo zones in the style of the 50s, where people could take the unique retro photos and get acquainted with the achievements of the modern military industry.

The atmosphere was filled with memories of the feat of those who fought for the Motherland, and respect for those who today stand in its defense. The whole festival day was filled with activities: attractions, quests, prize draws and a food court, all this and much more was prepared especially for our guests.

A real surprise was a hot air balloon the largest one in Belarus, which made several mind-blowing and breathtaking flights with festival guests before the sunset.





The BELAZ SHOP was also open at the festival, where our new merch was presented – from toys and stationery to clothes and shoes. The popular BELAZ boots broke sales records, and this time there were enough for everyone!

The musical heart of the festival beat non-stop! The nine-hour marathon on the main stage set the rhythm for the entire event. The headliner of the festival was the band "Otpetye Moshenniki", they plunged the thousands of

dancing FEST audience into the pleasant musical nostalgia of the hits from past years.

A warm August evening, lots of smiles, dances and a single rhythm of thousands of hearts, Zhodino sank into the special, unique mood of BELAZ FEST.

We thank everyone who became a part of this bright holiday! Your emotions are our best reward!

See you at BELAZ FEST 2026!



BELAZPLANT

