

Russian News

BelZAN to Replace Foreign Fasteners with Russian-made Fasteners on LADA Vesta and XRAY



The Belebeevsky plant Avtonormal (BelZAN), managed by RT-Capital of the State Corporation Rostec, under a contract with JSC AVTOVAZ for developing and supplying fasteners for passenger cars in the Vesta and XRAY series, has started manufacturing products. Deliveries have begun in August 2021.

In a short time, the plant created design documentation for developing 34 new types of auto fasteners for models of the LADA Vesta and XRAY series, worked out the manufacturing technology of parts and carried out a full-scale preparation and mastered production. By the end of this year, BelZAN plans to supply up to 10 million units of fasteners with increased corrosion resistance, which will be used in the assembly of bodies and the installation of units on cars.

“Last year, the plant concentrated its efforts on expanding the range of products and passing certification by leading domestic and foreign car manufacturers. Confirmed conformity of the company's products to the highest quality standards allowed us to receive new orders this year and already increased the production of components by 15% compared to the same period in 2020. After passing the quality audit of AVTOVAZ, the plant received an order to develop new types of automotive fasteners for cars of the Vesta and XRAY series. Today, the share of BelZAN's products supplied for these models is about 15%, and it will double after delivery,” said Kirill Fyodorov, General Director of RT-Capital LLC.

In the Russian market the share of BelZAN's fasteners for the automotive industry is about 36%. The plant is the main fastener supplier for KAMAZ, AVTOVAZ, Volkswagen, GAZ Group, Aurus and others.

Developing Fasteners from New Steel Grades

T.Sh. Galiakhmetov, Director for Technical Development of BelZan, introduced plans to master the production of fasteners in new steel grades 36MnB4, 32CrB4 and 42CrMo4 to the participants in the conference “Fasteners. Quality and Responsibility”. Manufacturing pilot batches of fasteners is planned for the current year. He noted the need for mastering the production of fasteners of strength classes 8.8 and 10.9 in Russia. It is economically and technologically expedient to use two steel grades for long parts in the automotive industry.

OSPAZ and Hilti Announces Partnership

Hilti and OSPAZ have begun negotiations to agree on a contract under which the Oryol plant of the Severstal hardware group will produce threaded rods.

“Our company operates in accordance with quality and environmental management standards and strictly monitors all processes, while we are always open for cooperation and ready to improve production. Compliance with the high standards of a Western brand and the start of cooperation with Hilti is yet another proof of the quality of our work”, - comments Alexei Erenichev, director of the Oryol Steel Rolling Plant.

Russian Steel Responds to the Introduction of Export Duties with a List of Negative Consequences

In the case of the introducing export duties on metals from August 1, the profit of the companies will decrease by tens of billions of rubles, and the contributions to the budget will be noticeably reduced, said the group of companies "Russian Steel". Metallurgists, who were previously accused by the government of "screwing up" the state, also threatened that the development of the situation could eventually "increase social tension in the regions."

The group estimates in accordance with two scenarios - if the current market conditions persist and prices decline. In the first case, according to the group's calculations, exports will decrease by a million tons, or about 40 billion rubles, and profits by 150 billion. The total deductions to the state budget will fall by 30 billion rubles, according to the association.

In the second case, the decrease in export supplies should reach 2.5 million tons, or about 75 billion rubles. In this case, the profit will fall by 180 billion, and the budget will miss about 51 billion, "Russian Steel" emphasized.

The group also stated that the introduction of duties will reduce the investment attractiveness of the sector and hinder job creation, various social programs and the modernization of enterprises. "Russian Steel" believes that the decision on duties should be finalized and clarified together with representatives of the industry, "in order to reduce the negative impact on the development of domestic ferrous metallurgy".

On June 25, the government approved of temporary duties on the export of metals, effective August 1 to December 31 this year.

The Group of Ferrous Metallurgy Enterprises "Russian Steel" unites the largest producers of metallurgical products in Russia. The Association was founded in 2001. The current members of the group are: EvrazHolding LLC, NLMK PJSC, MMK PJSC, OJSC (Metalloinvest Management Company LLC), Mechel PJSC, OMK AO, PAO Severstal, PAO TMK and OOO UK PMH.



“Localization not only helps us to be competitive in terms of price and flexibility, but also creates new jobs, increases the expertise of local manufacturers and improves our position in the field of sustainability by optimizing logistics,” commented Gemil Polat, Head of Contract Manufacturing at Hilti Russia.



Severstal Metiz has Mastered over 80 New Types of Products

The Cherepovets enterprises Severstal-metiz, Severstal Kanaty and the Oryol Steel Plant have mastered the production of 81 new types of products. "Severstal-metiz" mastered the production of new types of wire, fasteners for railways. The company also modernized the galvanizing unit, which allows simultaneous production of galvanized and phosphate wire. Oryol Steel Plant in the first six months of 2021 added 40 new products, 85 percent of which are fasteners.

"The development of new types of products is the result of our work on import substitution, entering new markets and constant dialogue with customers. Severstal-metiz products meet not only the needs of customers, but also all the necessary industry norms and standards, which is confirmed by our certification documents," commented Denis Tavrikov, commercial director of Severstal-metiz.

Expanding Production of Railway Fasteners

Severstal-metiz put into operation new lines for the production of railway fasteners. Severstal-metiz has extensive experience in the production of railroad fasteners of various types. Also, Severstal-metiz is the exclusive supplier of Vossloh rail fastening elements. "The new lines will allow us to provide all our customers with the required volume of products", comments General Director of Severstal-metiz.



The Production of the Russian Equipment for Applying Zinc Coatings Has been Launched

Director of Khimsintez LLC (Dzerzhinsk, Nizhny Novgorod Region) V. Chumakov told the participants of the Conference "Fasteners, Quality and Responsibility" on the development of the Russian industries regarding the application of zinc coatings. He gave information on the new coating, Netoks Zn LF. There was a marked increase in the use of zinc coatings in Russia. The speaker presented domestic equipment for applying zinc coatings. The company "ArtTron" (Dzerzhinsk, Nizhny Novgorod region), with the consulting support of LLC "AntikorTech" (St. Petersburg), has created the first centrifuge in Russia for applying zinc coating. Launching a small coating installation that does not require a laboratory, treatment facilities, or a large staff of employees is a fairly convenient solution for fastener manufacturing companies.

MMK-METIZ Passed Tests of Bolts for Rail Fastenings & Launched a Galvanizing Line for Galvanizing Small Fasteners



MMK-METIZ carried out standard tests of bolts for railway in accordance with GOST 16017-2014. The products have passed the tests.

As part of the investment program for 2020-2025, MMK-METIZ has launched a fully automated line for galvanizing small fasteners in diameters from 6 to 12 mm. The capacity of this line is 250 tons per month.

The Study of the Operation of High-strength Steels in Bolted Joints is Included by the Ministry of Construction in the Applied Research Program

The Russian Ministry of Construction approved the Applied Scientific Research Program for 2021. It includes a study of the operation of high-strength steels C390 and C440 in bolted joints. At present, as noted in the Program, there is no unified and standardized method for determining the mechanical properties of bolted joints made of high-strength steel C390 and C440; C390 and C440, therefore, the properties of rolled products at low temperatures are not taken into account. The lack of a unified methodology imposes a limitation on the possibility of using high-strength rolled products in bolted joints in the design and manufacture of metal structures.

In Russia, several tens of thousands of bridges require major repairs, of which about 3000 bridges require immediate repair, including metal railway bridges. High-strength bolts with small dimensions are able to provide a detachable connection that is not inferior in strength to a welded one and surpasses a riveted one.

The use of bolts of a new type in the design and reconstruction of metal bridges will provide, among other advantages, the ability to be used in various climatic conditions. High-strength bolts of northern design can be used in harsh climates down to -60 °C or average cold temperatures down to -40 °C. The study is planned to be carried out in 2021 at the expense of the federal budget.



Oryol Steel Rolling Plant's Anchors are Used in the Construction of Kursk NPP-2

When erecting reactor buildings, builders use flexible anchor stops from Oryol Steel Rolling Plant. "When constructing such structures, the main thing is reliability and safety. For the production of flexible stops, we use special steel - hard, but at the same time plastic, we carefully select the annealing temperature to increase strength. The fasteners that we supply for the nuclear power plant have already been tested by time and have been used in the construction of many infrastructure facilities", - comments Aleksey Erenichev, director of Oryol Steel Rolling Plant. ■

News provided by Alexander Ostashov, editor of "Fasteners, Adhesives, Tools and..." Magazine

