PRODUCTS OVERVIEW

DHM GROUP
INTEGRATED SOLUTIONS FOR METALLURGY

Engineering / Production / Installation
DHM GROUP Private Joint-Stock Company is one of the leading companies providing integrated engineering, manufacturing and start-up services for modern equipment in the metallurgical industry.

DHM GROUP represents itself as research and development center in the field of mechanical and hydraulic engineering with a team of over 100 highly qualified experts, an own machinery plant and a wide network of worldwide cooperation.

Our well-structured production facilities, constant expansion of capacities and rigorous quality control has earned us a reputation of a reliable and devoted partner. These days our products comply with the highest quality standards and match their competition among world-leading companies.

We undertake integrated projects – from developing process equipment from scratch to supplying it on turn-key basis and providing maintenance services, spare parts and customer support.

CEO
Hennadii ALYMOV

OUR CUSTOMERS

Azerbaijan
Republic of Belarus
Georgia
India
Kazakhstan
Republic of Macedonia
Mexico
Moldova
Norway
Russia
Middle East
Ukraine

WHY US

over 300 machines for blast furnace cast houses
more than 25 years of total experience in the industry
over 60 machines for ferroalloy and non-ferrous furnaces
over 430 items of sintering equipment
more than 11000 items of specialised small-serial equipment
constant technical support during whole service life of equipment
modern manufacturing facility
supply of original spares prolonging the service life

OUR OFFICES

Slovakia
Ukraine
Russia
India
UAE

CERTIFICATES

All products manufactured by DHM GROUP are certified, and comply with the international quality standards.

DHM GROUP carries the TÜV NORD certificate for implementing the quality management system, which meets the requirements of the ISO 9001:2015 international standard in the area of designing and supplying metallurgical equipment, as well as the European quality certificate CE.
DHM GROUP develops and produces cast house hydraulic tapping equipment for blast furnaces.

Our Company is one of the few manufacturers of this type of equipment in the World. In the last 25 years we have managed to achieve the highest quality of our products and compete with the World’s famous brands on the international scale.

Our Company’s approach includes customized solutions for every project, usage of high-quality materials only, 100% integrated supply of all process equipment, adjustment, installation, commissioning, training of the Customer’s personnel, warranty and post-warranty service.

STANDARD SET OF BLAST FURNACE CAST HOUSE EQUIPMENT INCLUDES:

- Taphole drilling machines
- Mud gun machines
- Trough cover manipulators
- Tilting runners
- Portable or stationary dam plate drilling machines
- Hydraulic power pack
- PLC-based automation control system
- Remote control system
- Spare parts, tools and accessories

In order to achieve maximum performance in the process of taphole drilling, while maintaining easy servicing, portability and durability, DHM GROUP has developed special drilling punchers HPP-720...1200. Our specialists implemented the principle of combining hydraulic high-torque rotation with pneumatic hammering mechanisms and scavenging system in one ultra-compact body. This design allows achieving unprecedented reliability, high technical parameters and easy maintenance of the device.
**BLAST FURNACE CAST HOUSE HYDRAULIC EQUIPMENT**

- Developed according to the idea of minimization the trough cover length
- Optimal placement on any cast house
- Wide range of different models
- Hydraulic drives provide the angles required for teeming
- Possibility of emergency operating with the use of hydraulic accumulators
- Reliable and safe teeming of cast

**BLAST FURNACE HYDRAULIC CHARGING UNIT HydroMech Top**

- Newly designed revolutionary blast furnace hydraulic charging unit
- Meets blast furnace requirements of any capacity - from 250 to 5500 m³
- Distributor chute with the angle ranging from 0° to 53°
- Directional charge loading throughout the top section including exactly to the center

**FERROALLOY & NON-FERROUS EQUIPMENT**

DHM GROUP, as from the date of its founding, is engaged in development and manufacturing of various equipment for the ferroalloy industry. The first hydraulic machine for a ferroalloy furnace taphole plugging with built-in pump station was produced by our Company in 1994. In 25 years, about 60 various kinds of hydraulic machines for ferroalloy furnaces have been manufactured and installed.

**THE RANGE OF FERROALLOY EQUIPMENT OFFERED BY OUR COMPANY INCLUDES:**
- Hydraulic machines for taphole servicing
- Pig casting machines
- Ferroalloy crushers
- Edging manipulators for ladles
- Custom-designed non-standard equipment

**HYDRAULIC MACHINES FOR TAPHOLES SERVICING IN COMPARISON WITH MANUAL OPERATION**

An obtained taphole channel is nonlinear and has variable cross-section, thus taphole unit service life is considerably reduced.

Taphole is closed with refractory clay manually, only 200 – 300 mm of the channel is filled, the taphole unit destruction occurs.

During drilling a taphole by hydraulic machine, the amount of harmful emissions is reduced and a smooth calibrated taphole channel is achieved.

Mud gun machine allows filling a taphole each time for all of its length preventing damage of the taphole with melting products and increasing its service life to 10–15 years.
The following types of machinery can be used depending on the layout of specific furnace and based on the optimal location of equipment on working platforms:

- Suspended taphole drilling machines
- Suspended mud gun machines
- Combined suspended drilling/plugging machines
- Rodding machines

**POWER PACK AND CONTROL SYSTEM**

DHM GROUP control systems are based on serial electrical and hydraulic equipment of leading world-known companies that guarantees safety and durability of our equipment.

Modern systems are based on logical control algorithms and include equipment diagnostics, data archiving, visualisation and communications with local APES.

Competent development and high-quality manufacturing of power packs is a key to the reliable operation of hydraulic equipment.

We offer design, manufacturing, setup and commissioning, warranty and post-warranty maintenance of different hydraulic systems. Working face-to-face with each Customer our specialists find optimal solutions for each project.
Another business segment of our Company is development and manufacturing of equipment for sinter plants. Many years of experience in creation of various machines and mechanical devices for agglomeration production, analysis of their practical operation results and continuous work on improvement of the existing designs, allow us to ensure a high performance and reliability of each item of such equipment.

The range of sintering equipment offered by our company includes:
- Complete sintering machines
- Sintering and cooling machine planetary drives
- Pallet cars
- Sinter crushers
- Stock distributors
- Mixing drums

Sintering equipment

DHM GROUP designs and manufactures small-serial, non-standard and specialised equipment.

The range of small-serial equipment offered by our company includes:
- Stripping machines
- Pneumatic hammers
- Electrohydraulic grabs
- Drilling tools
- Hydraulic, pneumatic cylinders and rotary joint
- Hydraulic rotators (for non-impact drilling)
- Filling / flushing stations for hydraulic systems
- Mufflers of snort valve
- Hydraulic clamping systems of contact plates with pressure rings
- Taphole clay loading machines

Reference list

Europe

Germany
- Weser-Metall GmbH

Ukraine
- Alchevsk Iron & Steel Works
- ArcelorMittal Kryvyi Rih
- AZOVSTAL Iron and Steel Works
- Dneprpropetrovsk Chain & Electrode Plant
- Dneprovskiy Iron & Steel Works
- Donbasdormoremon
- Donetsk Metallurgical Plant DOMZ
- Enakievsky Iron and Steel Plant
- Ilyich Iron and Steel Works of Mariupol
- Nikopol Ferroalloy Plant
- Novo-Kramatorsk Machinery Plant
- Pobuzhsky Ferronikel Plant
- Zaporizhstal Integrated Iron & Steel Works

Georgia
- Georgian American Alloys (Zestafoni Manganese)

Norway
- Eramet Norway Sauda

Russia
- Bratsk Ferroalloy Plant
- EVRAZ
- Kosaya Gora Iron Works
- Lipetsk Iron Works “Svobodny Sokol”
- Magnitogorsk Iron & Steel Works
- Oskol Electrometallurgical Plant
- Severstal
- Shlakservice
- TULACHERMET
- ZAPSI Integrated Steel Plant ZSMK

Asia

Azerbaijan
- Baku Steel

India
- Tata Metaliks Limited
- Tata Steel Limited

Kazakhstan
- AO TNK KazChrome (Aksu FerroChrome Plant)
- AO TNK KazChrome (Aktobe FerroChrome Plant)
- Taraz Metallurgical plant

North America

Mexico
- ArcelorMittal Lazaro Cardenas

Guatemala
- Guatemala metallic de Niquel

Republic of Belarus
- Byelorussian Steel Works

Moldova
- Moldavsky Iron & Steel Works

Republic of Macedonia
- DOOEL «SKOPSKI_LEGURI» Ferroalloy Concern
- DOOEL «JUGO CHROME Ferro-Alloys»

Ukraine
- ArcelorMittal Kryvyi Rih
- AZOVSTAL Iron and Steel Works
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- Dneprovskiy Iron & Steel Works
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- Enakievsky Iron and Steel Plant
- Ilyich Iron and Steel Works of Mariupol
- Nikopol Ferroalloy Plant
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- Pobuzhsky Ferronikel Plant
- Zaporizhstal Integrated Iron & Steel Works

Georgia
- Georgian American Alloys (Zestafoni Manganese)

Norway
- Eramet Norway Sauda

Russia
- Bratsk Ferroalloy Plant
- EVRAZ
- Kosaya Gora Iron Works
- Lipetsk Iron Works “Svobodny Sokol”
- Magnitogorsk Iron & Steel Works
- Oskol Electrometallurgical Plant
- Severstal
- Shlakservice
- TULACHERMET
- ZAPSI Integrated Steel Plant ZSMK

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- Byelorussian Steel Works

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- Moldavsky Iron & Steel Works

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- DOOEL «SKOPSKI_LEGURI» Ferroalloy Concern
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- Azerbaijan
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