SCIENTIFIC AND MANUFACTURING FIRM

PRODECOLOGIA

MAGNETIC SEPARATION AND METAL DETECTION - OUR PROFILE!

Catalog

of equipment for ferrous and non-ferrous metallurgy

LIMITED LIABILITY COMPANY

RUSSEPARATOR

SCIENTIFIC AND MANUFACTURING FIRM

PRODECOLOGIA

- Ukraine
- Russia
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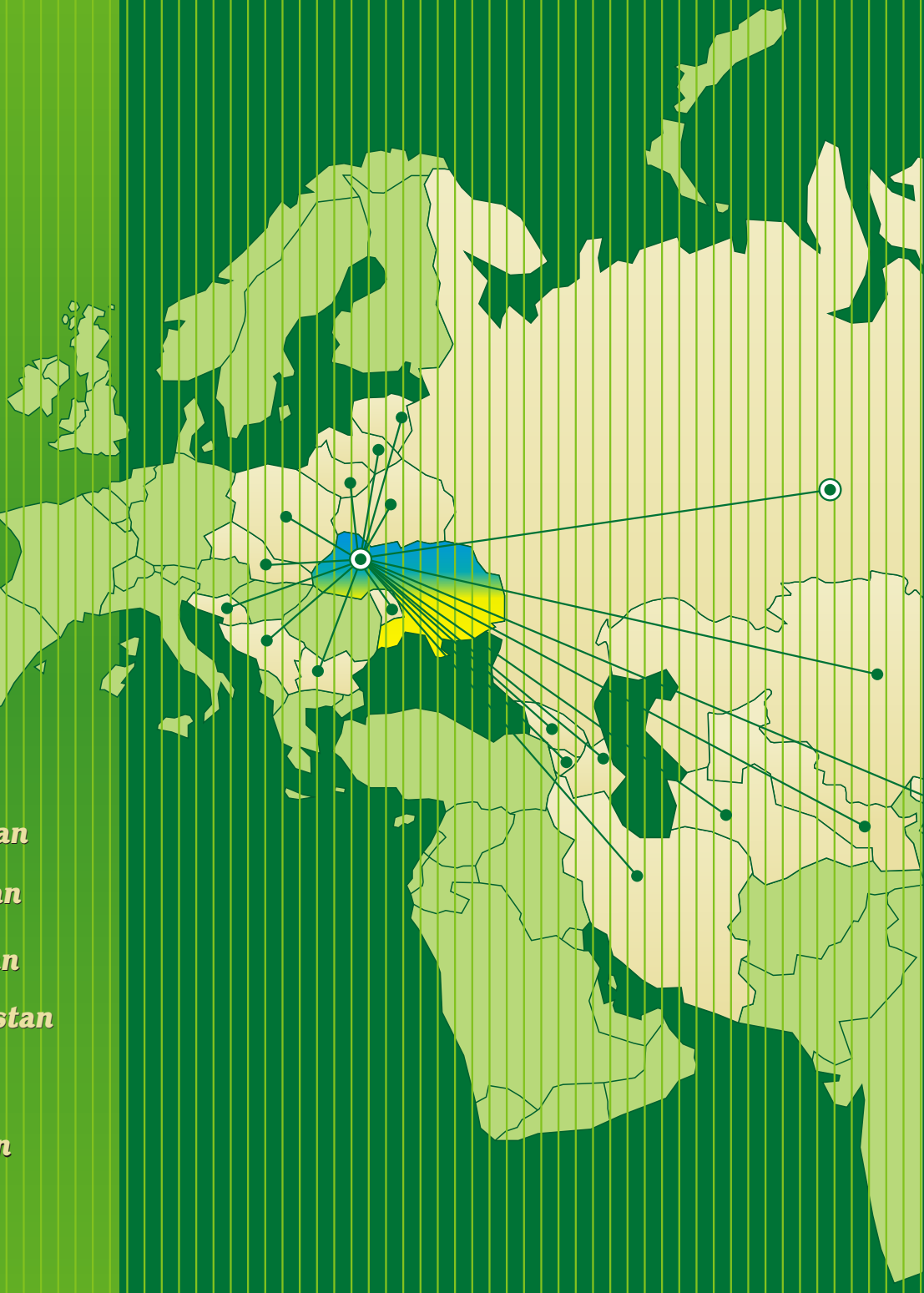
- Kazakhstan
- Kyrgyzstan
- Uzbekistan
- Turkmenistan
- Georgia
- Azerbaijan
- Armenia
- Iran



LIMITED LIABILITY COMPANY

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CATALOGUE LIST OF EQUIPMENT OF SMF «PRODECOLOGIA»

1. General Catalogue of equipment
2. Catalogue of equipment for glass industry
3. ***Catalogue of equipment for non-ferrous metallurgy***
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Scientific and manufacturing firm "Prodecologia" was founded in July 1993. During its existence, the company has become a leader in the CIS and Eastern Europe in the field of designing and manufacturing of magnetic, electrostatic, eddy current separators, metal detectors and magnetic mud clarifiers.

The company supplies its products to 58 branches of specialized industries and sub-sectors of 20 countries for concentration of metallic and non-metallic materials, for separation of metallurgical slag, of diamond production waste and household waste; for preventing of intrusion of metal mixtures in food products during production of them; protection of process equipment from breakdowns; improving whiteness of porcelain; improving the quality of tires, chipboard, cement, refractories, glass, cleaning of industrial water.

Accumulated during the work experience combined with a focus on emerging global engineering technology and manufacturing of magnets, supplying of our factory with modern equipment, using of components of the best world producers secures the production of reliable, high-quality, highly productive, effective and energy-saving products, characterized by simplicity of design and operation.

Unique scientific developments of the company, a high level of engineering and design, co-operation with research institutes, including:

– Krivy Rig Technical University (KTU), (Krivy Rig, Ukraine);

– All-Russian Scientific-Research Institute of Mineral Resources after N. Fedorovsky (VIMS), (Moscow, Russia);

– Moscow Institute of Steel and Alloys (MISiS), (Moscow, Russia);

– State Scientific-Research and Design Institute of Rare Metals (GIREDMET), (Moscow, Russia);

– Oriental Scientific-Research Institute of Mining and Metallurgy of non-ferrous metals (VNIITSVETMET), (Ust-Kamenogorsk, Kazakhstan);

– Kazakhstan leading institute for designing of non-ferrous metallurgy (KAZGIPROTSVETMET), (Ust-Kamenogorsk, Kazakhstan);

– Chemical and Metallurgical Institute after J. Abishev, (Karaganda, Kazakhstan) provide an opportunity to compete with international manufacturers of similar equipment.

SMF "Prodecologia" is the winner in All-Ukraine project "The leader of the mining and metallurgical industry of Ukraine 2005-2006".

The company received 79 patents for inventions and utility models in Ukraine, Russia, Belarus and Poland as for 2013.

A scientific discovery certificate is received in 2007.

The company has the license for the design, construction, installation and commissioning.

History
of collaboration with the enterprises of metallurgical industry

SCIENTIFIC AND MANUFACTURING FIRM PRODECOLOGIA

the first drum magnetic separator was designed for dry magnetic separation of chamotte in "Vatutine Enterprise of Refractories" Ltd. (Ukraine).

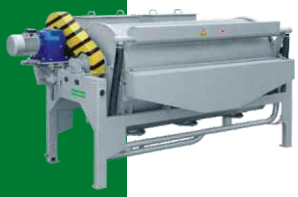
2001

the magnetic drum separator of SMF "Prodecologia" production was successfully tested at "Aksu Ferroalloy Factory". According to the test results management of "MC "Kazchrome" JSC decided to install separators of said type at the slag processing lines of all ferroalloy plants in Aktobe and Aksu cities.

2003

the production of the wet drum separator is mastered. The first separator of said type was set on Irshansky GOK (Ukraine) for separation of crude ilmenite concentrate.

2004



new drum magnetic separator for wet enrichment with the magnetic system on rare-earth magnets with the even magnetic field was designed and supplied to "Vyshnevogorsky GOK" JSC (Russia).

2006

testings of magnetic drum, designed for regeneration of weighting agent including a ferrosilicon, successfully were completed on Zyrianivsky GOK "Kazzinc" Ltd. (Kazakhstan).

the complex for dry magnetic benefication of oxidized ores according to order of GOK "Ukrmekhanobr" was designed.

2007

2010

the new magnetic separator type BSHM for extraction of magnetic impurities (scrap) from the grinding products of ball mills in the automatic mode is designed. The first said separator was successfully tested at Ridersky GOK "Kazzinc", Ltd. (Kazakhstan).

agreement an exclusive mediation for sales in the CIS and Eastern Europe of high-intensity magnetic separator for wet enrichment LGS WHIMS was signed with the largest manufacturer of magnetic separators in Asia Longi Magnet Co., Ltd. (China).

2011

the new metal detector with digital signal processing type DMT-3M is designed.

8 units of three-stage roller magnetic separators and 4 units of drum separators successfully put into operation of enriching factory MCF «Velta» Ltd. at ilmenite concentrate retreating district.

2012

drum magnetic separator successfully passed the tests on enriching factory MCF «Velta» Ltd. at the first stage of rough ilmenite concentrate. By results of the tests Contract for supply for 8 units such type of separators was sign.

2013

kit of laboratory equipment for magnetic separation of metallic and non-metallic materials was transfer to scientific and research laboratory “Kansaran Binaloud” (Tehran, Iran).

first delivery of our equipment in Iran – 2 units of drum separators for dry enrichment of magnetite and hematite ores was manufactured and supplied for Sepahan Ehya Iron Mines Co.

Drum magnetic separator type BS

Destination

Designed both for dry benefication of ore and non-metallic materials as well for cleaning of different nonmagnetic materials from magnetic impurities.

Supplied

Supplied to the enterprises of ferrous and non-ferrous metallurgy for:

– obtaining of sintered ore during benefication of the oxidized iron ores;

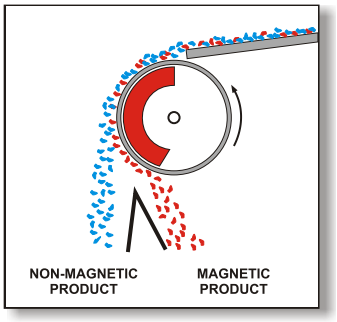
– withdrawing of tailings by dry method before the operation of wet grinding for benefication of magnetite ores;

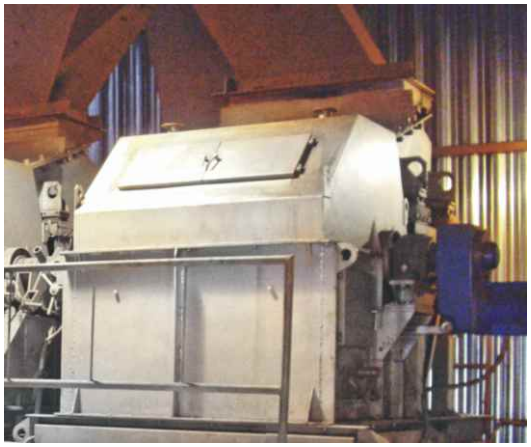
– benefication of carbo ferrochrome slags;

– benefication of clinker of metallurgy;

– benefication of crude ilmenite concentrate.

Scheme of the separator





Design features of the separator

- Designed both with the ferrite and modern high-energy neodymium magnets (Nd - Fe - B) ensuring the value of the magnetic induction at the drum surface within 80-800 mT.
- Permanent magnets of high-energy provide new possibilities in those spheres of activity of magnetic systems where powerful magnetic forces are required.
- The magnetic system configuration can be both radial and axial for providing of maximal efficiency.
- The top-feed system is available either with the sliding tray or with the tray vibratory feeder for uniform feeding.
- Designed with drum diameter within 400 to 900 mm and length of working zone within 500 to 1500 mm.
- On request, separator can be equipped either with a control panel complete with a frequency converter for stepless controlling of the shell speed or without the frequency converter with one or two fixed speeds and stepless starting of the drive.
- Components of the world leading companies (Nord, SKF, FAG) with high performance are used.

Publications

Magazine "MetalRussia" (march) 2008: "Perspectives of using of SMF "Prodecologia" separators for preparing the beneficating of the poor hematite ores of Kryvyi Rih Mining and Concentration Complex of Oxidates Ores.".

"Kazakhstan Mining Journal", 2008, №6: "Perspectives of development and implementation of preenrichment technology of oxidized ferruginous quartzites with the example of the Kryvyi Rih Mining and Concentration Complex of Oxidates Ores".

Interdepartmental collection of scientific works "Geotechnical Mechanics" issue №72, 2007 (The Institute of Geotechnical Mechanics named after N.S. Polyakov): "Complex for dry magnetic benefication of hematite quartzite.".

Magazine "Gorny Zhurnal" №4 2006: "Design and implementation of a new magnetic separator for benefication of production carbon ferrochrome slags.".

Drum magnetic separator type PBM

Destination

Designed for wet benefication of ores and other materials.

Supplied

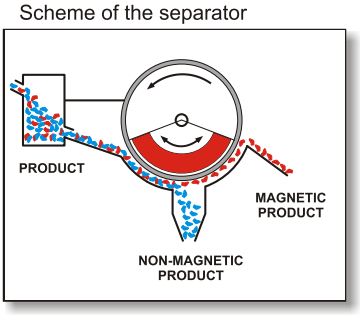
Supplied to enterprises of the following industries:

– extraction and enrichment of ore materials of ferrous metallurgy;

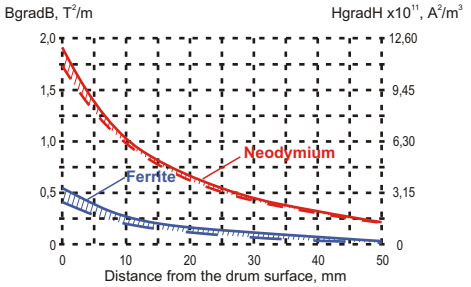
– concentrating mills of ferrous metallurgy for:

- production of magnetite concentrate;
- removing of magnetic scrap from the grind products of the ball mills;
- removing of magnetite before the wet high-gradient separation of weakly magnetic ores;
- regeneration of heavy media with the help of weighting material;
- removing of the strongly magnetic impurities from the ceramic suspensions and clinker.

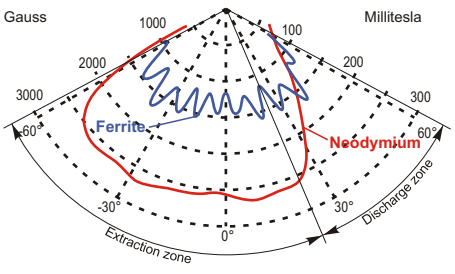
Scheme of the separator



Distribution of specific magnetic force in the working area of separator type PBM with neodymium and ferrite magnetic system



The picture of magnetic field strength on the surface of the drum type PBM with neodymium and ferrite magnetic system



Design features of the separator

- Designed with the use of both the ferrite and the modern high neodymium magnets Nd-Fe-B, ensuring the value of the magnetic induction on the surface of the drum within 50-500 mT.
- Uniformity of the magnetic field in the area of separation of magnetic impurities promotes effective operation of the separator (there is a patent for a magnetic system).
- Increased magnetic field strength can improve the capacity of separator.
- On request, separator can be equipped either with a control panel complete with a frequency converter for stepless controlling of the shell speed or without the frequency converter with one or two fixed speeds and stepless starting of the drive.
- Components of the leading countries (Nord, SKF, FAG) with high performance are used.
- Designed with 3 standard drum diameters: 900, 1200, 1500 mm with the length of working zone within 1000 mm to 3000 mm.
- Stainless shell made of the steel 12X18H10T of 6 mm thick significantly extends the life of its operation.
- Supplied with dimensions and types of baths according to agreement with customer.

Publications

Magazine "Gorny jornal", 2007, №12: "Usage of separators based on permanent magnets for concentration of nepheline-feldspar ores".

Pulley magnetic separator type SH

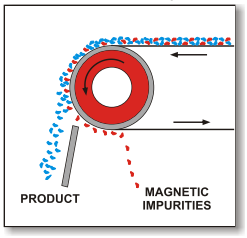
Destination

Designed for extraction ferromagnetic impurities from the bulk material transported by the conveyor belt.

Supplied

Designed both as the driving and non-driving drum for belt conveyors.

Scheme of the separator



Design features of the separator

- Designed with different levels of magnetic force and magnetic induction according to customer requirements.
- The height of the layer of material to be separated is within 40 to 180 mm.
- Configuration of the magnetic field can be radial or axial for maximum separation efficiency.
- Designed drums of 6 diameters: 250, 320, 400, 500, 630, 800 mm, with length of pulley within 400 to 1400 mm.
- Designed with rod, bearings and drive is available.

Plate magnetic separator type PN-A

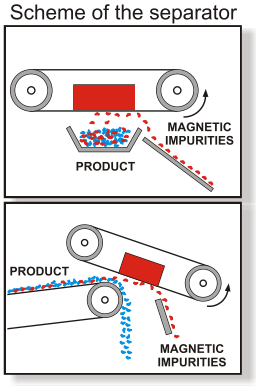
Destination

Designed for extracting magnetic impurities and accidental metal objects (screws, nuts, etc.) automatically from bulk materials transported by the conveyor belt.

Supplied

Mounted above the conveyor belt at a distance of 100-350 mm, depending on the height of the layer of material to be processed.

Scheme of the separator



Design features of the separator

- Automatic cleaning of the separator.
- Mounted above the belt conveyor, vibrating chute, gravity chute.
- Designed with mechanical (with the help of sliding gate) and manual clean-up.
- Installed above the belt-type conveyor, vibrating chute, gravity chute.
- Magnetic system with permanent magnets with magnetic induction according for customer's requirements.
- Preference to electromagnetic separator if operating at small layer of a product or suspended floc layer.
- Designed with use of both ferrite and modern high-energy neodymium magnets (Nd-Fe-B).
- No need for electricity to generate the magnetic field.
- Stable magnetic quality and ease of use.

Roller magnetic separator type RS

Destination

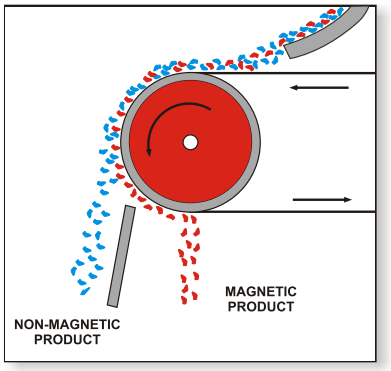
Designed for high-performance dry magnetic separation of fine-grained ore and non-metallic minerals (ilmenite, zircon, garnet, quartz sand, pegmatite, feldspar, abrasives, refractories, etc.).

Supplied

Supplied to enterprises of the refractory materials industries, titanium and magnesium industry, glass industry, salt industry and other.

It is used in mining, glass, ceramic industries, production of refractories, etc.

Scheme of the separator



Design features of the separator

- Designed with different values of magnetic force (magnetic induction on the roller surface is up to 1700 mT).
- The magnetic systems comprise the permanent high-energy magnets optimized for specific conditions of use, and are resistant to high temperatures (up to 150°C).
- Magnetic roller are designed with diameters of 120, 220 mm with the length of working zone within 500 to 2000 mm.
- Equipped with a control panel comprised a frequency converter for stepless controlling of pulley speed.
- Components of the world leading companies (Nord, SKF, FAG) with high performance are used.
- Separator can be assembled in form of one, two, three or four modules.
- The roll feeder is available to ensure even feeding of product.
- Compare to electromagnetic roll separators:
  – no need in electricity for inducing the magnetic field;
  – smaller dimensions and weight are available;
  – low power inputs per 1 ton of raw materials are needed;
  – little production space is required.

Publications

Magazine "The glass container" (December) 2011: "Application of magnetic separators in glass industry".

Magazine "Gorny Zhurnal" №12 2007: "Usage of separators based on permanent magnets for concentration of nepheline-feldspar ores".

Roller magnetic separator type RS-V

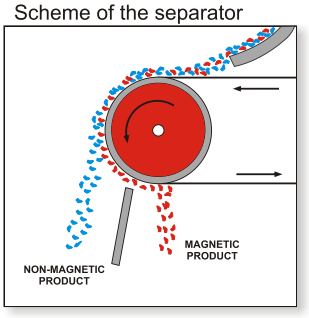
Destination

Designed for benefication of oxidized iron and other weak-magnetic ores.

Supplied

Supplied to enterprises of the extracting and enrichment of ore materials for ferrous metallurgy, lead and zinc industry and other.

Scheme of the separator



Design features of the separator

- Designed with the value of magnetic induction within 700 to 1400 mT at the operating roller surface depending on specific conditions of use.
- Presence of the shaking feeder ensures an even feeding of product.
- Specific productivity of the separator is within 6 to 20 t/h at a length of the roller of 1 m.
- Components of world leading companies (Nord, SKF, FAG) with high operating characteristics are used.
- On request, separator is equipped with the control panel comprising a frequency converter for stepless regulation of the roller speed.

Publications

Magazine "MetalRussia" (March) 2008: "Perspectives of SMF "Prodecologia" separators exploitation for enrichment of poor hematite ores at Kryvyi Rih Mining and Concentration Complex of Oxidated Ores".

"Kazakhstan Mining Journal", 2008, №6: "Perspectives of implementing and manufacturing before enrichment technology of oxidized ferruginous quartzites on the example of Kryvyi Rih Mining and Concentration Complex of Oxidates Ores".

Magnetic drum type SMB-2

Destination

Designed for weight material regeneration, which includes ferrosilicon, for replacement of electromagnetic drums of separators type EBM.

Supplied

Supplied to the, mineral processing plants and the ferrous and non-ferrous metallurgy for the purpose:

– obtaining of the magnetite concentrate;

– removal of magnetic scrap from ball mill products;

– removal of magnetite before the wet high-gradient separation of weakly magnetic ores;

– cregeneration of heavy-media with help of weighting material.

Installed on the sections of enrichment at concentrating mills and enterprises of non-ferrous metallurgy.

Design features of the separator

- Designed with the use of high-energy neodymium magnets (Nd-Fe-B).
- Increased magnetic field strength allows to increase the separation efficiency.
- Magnetic induction on the drum surface is at least 350 mT.
- The drum is equipped with a removable shell replaced by a new one after wearing out at minimal cost.
- Design of the drum is interchangeable with existing electro-magnetic drums not requiring modifications of the separator.
- The magnets are protected from moisture with sealed casing.

Complex of dry magnetic separation type KSMS

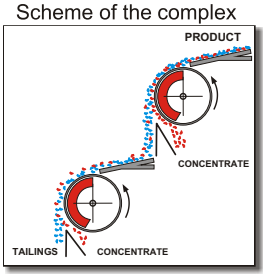
Destination

Designed for magnetic benefication of oxidized iron and other ores for the purpose of:

– removing of tailings from the process of magnetic flotation enrichment;

– obtaining of the sintering ore.

Scheme of the complex



Supplied

Supplied to enterprises of extracting and enrichment row material for ferrous metallurgy.

Design features of the separator

- Available in the form of 2 modules of drum or drum and roller magnetic separators.
- Designed with different values of the magnetic force and induction (with in 400 to 1100 mT).
- Presence of vibratory feeders provides uniform supply and efficient operation of the complex.
- The length of the working zone is within 1 to 2 m. Productivity of complex is within 40-80 t/h, with size of fraction 10 mm.
- Modern drive and wear-resistant drum shell provide long-lived work of the complex.
- Components of the world leading companies (Nord, SKF, FAG) with high performance are used.

Publications

Magazine "MetalRussia" (March) 2008:"Perspectives of SMF "Prodecologia" separators exploitation for enrichment of poor hematite ores at Kryvyi Rih Mining and Concentration Complex of Oxidated Ores".

"Kazakhstan Mining Journal", 2008, №6:"Perspectives of implementing and manufacturing before enrichment technology of oxidized ferruginous quartzites on the example of Kryvyi Rih Mining and Concentration Complex of Oxidates Ores".

Tunnel metal detector type DMT 3M

Destination

Designed for detecting extraneous metallic impurities (both ferrous and non-ferrous metals including manganous steel) in the flow of non-metallic materials, transported by the conveyor belt to protect the process equipment from damage.

Design features of the separator

- Metal detector comprises a sensor (frame) and the electronic control unit.
- Design of the sensor is individually selected by the terms of the production of the customer.
- Resistant to interference arising during electric welding near the detector.
- High sensitivity and automatic adjustment.
- Function on conveyor belts, connected by joints with metal elements is acceptable.
- Logging history of the detector is possible.
- Completing by the process conveyors with automatic rejection (optional) is possible.

Supplied

Mounted on conveyor belts, both within production buildings, and beyond. Efficient in the temperature range of -40…+45 °C.

Application of metal detector is possible to control the magnetic force of separator that increases its efficiency (installed before separator).

Drum magnetic separator type BSHM

Destination

Designed for extracting scrap from the products of grinding ball mills in the automatic mode.

Supplied

Sapplied to enterprises of the cement industry and non-ferrous metallurgy.

Installed at the discharge flange of the ball mill.

Design features of the separator

- Designed with different values of magnetic force and induction depending on separated product.
- Designed with the use of both ferrite and modern high-energy neodymium magnets (Nd-Fe-B).
- Efficient removal and scrap unloading.
- Designed for specific dimensions of ball mills.

Drum electrostatic separator type EBS

Destination

Designed for dry benefification or separation of various minerals according to their electrostatic properties.

Supplied

Designed electrical enrichment of non-ferrous ores and rare metals and also man made products (steel slag and etc.)

Laboratory equipment

Physico - chemical and technological laboratories of our company are entirely provided with the equipment and facilities, necessary for research and analytical work with different materials.
In laboratories are carried out studies on dry and wet separation and enrichment of different materials and minerals, metal detecting of food and metallic and non-metallic materials, and also a также liquids by magnetic and electrically conductive means.

*Laboratory equipment for dry **magnetic separation and electric separation and benefication** magnetite ores and oxidized ferruginous quartzites:*

Roller magnetic separator
RS-22/50

Roller magnetic separator
RS-22/30

Drum magnetic separator
BS-31,5 - 59/14

Drum magnetic separator
SMB-1-59/14

Magnetic analyzer
AMR

Laboratory equipment

On this equipment we will conduct research on purpose to satisfy following problems:

– preliminary enrichment of hematite quartzites for the purpose of removing 15-20% of the tailings from the process with iron content Fe general < 15% and improve the performance of enrichment;

– obtaining sintering ore or increase the mass fraction of iron in sintering ore;

– improveing efficiency the process of enrichment of magnetite quartzite with the help of introduction of dry ore pre-enrichment.

Laboratory equipment for ***wet magnetic separation of weakly magnetic materials:***

Drum magnetic separator
PBM-90/50

Electromagnet
FL-1

Equipment designed for research to:

– wet benefications of mineral ore and industrial waste;

– wet magnetic high-performance separation of weakly magnetic materials.

LLC “Ukrasa Energy” - exclusive dealer SMF "Prodecologia" in the Islamic Republic of Iran.

Contacts: Mashinobudivna Street, 37, office 312, 03067, Kyiv, Ukraine tel. +38 (044) 351-11-11, 351-18-52; ukrasanrj@gmail.com, Iran.separator@gmail.com.

General director LLC “Ukrasa Energy” - Mani Agadavoodi Jolfaei.

In the scientific laboratory "Kansaran Binaloud" (Resalat Avenue — 996, Fanavari Pardiz Park — 181, (Tehran, Iran) is a set of laboratory equipment manufactured by SMF «Prodecologia» where it is possible to carry out studies on the magnetic separation of metallic and non-metallic materials.

Our partners - more than 50 plants of the ferrous and non-ferrous metallurgy, which operates about 100 units of equipment.

Company	Supplied equipment	Year
«Crimean Titan» PJSC «Irshansky GOK» SE, (Ukraine)	Drum magnetic separator PBM-90/250-N-208 for wet enrichment ofrough ilmenite concentrate.	*2004*
GOK «Ukrmechanobr», (Ukraine)	Drum magnetic separator BS-63/150-N-128 for dry enrichment of oxidized iron ores.	*2004*
Aksusky Ferroalloy Plant SC«MC«Kazchrom», (Kazakhstan)	Drum magnetic separators BS-63/100 in quantity of 14 pcs. for dry enrichment of slags ferroalloy production.	*2005*
«Terikon» Ltd., (Ukraine)	Roller magnetic separator RS-22/200-R for dry enrichment of oxides iron ores.	*2005*
Aktobe Ferroalloy Plant SC«MC«Kazchrom», (Kazakhstan)	Drum magnetic separators BS-50/90 in quantity of 4 pcs. for dry enrichment of slags ferroalloy production.	*2006*
SC«Ust-Kamenogorsk metallurgical complex» «Kazzinc» Ltd., (Kazakhstan)	Drum magnetic separator BS-63/100 for dry enrichment of clinker for metallurgical production.	*2006*
«Vanady-Tula» JSC, (Russia)	Plate magnetic separators with automatic clean-up PN-A-100/55 in quantity of 2 pcs. for extracting metal concentrate from the slags ferroalloy production.	*2006*
«Serovsky Ferroalloy Plant» JSC, (Russia)	Drum magnetic separators BS-63/100 in quantity of 2 pcs. for dry magnetic enrichment of slags ferroalloy production.	*2007*
GOK «Ukrmechanobr», (Ukraine)	Complexes for dry magnetic separation KSMS 63-31/100-N in quantity of 4 pcs. for enrichment of hematite ore from stripping soils with contains of Fe general = 38%.	*2007*
Ziryanovsky GOK «Kazzinc» Ltd., (Kazakhstan)	Magnetic drum SMB-2-80/170 for weight material regeneration.	*2007*
Tekeli MPC «Kazzinc» Ltd., (Kazakhstan)	Drum magnetic separator PBM-P-90/250 for wet enrichment of clinker flotation tailings.	*2008*
IA«Balkhashtsvetmet» «Karagandatsvetmet» Ltd., «Kazakhmys Corporation» Ltd., (Kazakhstan)	Metal detectors DMT 1AI in quantity of 5 pcs. to detect metal impurities inpolymetallic ore.	*2008*
IA «Shaimerden» «Kazzinc» Ltd., (Kazakhstan)	Suspended magnetic separators plate type with automatic clean-up PN-A-140/64, PN-A-100/64 and metal detector DMT1 AI, to protect crusher equipment from crushable metal objects.	*2008*
Ziryanovsky GOK «Kazzinc» Ltd., (Kazakhstan)	Magnetic drum SMB-2-80/170 for weight material regeneration.	*2009*

Our partners - more than 50 plants of the ferrous and non-ferrous metallurgy, which operates about 100 units of equipment.

Company	Supplied equipment	Year
IA «Vasilkovsky GOK» «Kazzinc» Ltd., (Kazakhstan)	Hanging magnetic separators plate type with automatic clean-up PN-A-140/127 in quantity of 6 pcs. for extracting magnetic impurities and random metallic objects from the polymetallic ore.	*2010*
"Novoshirokinsky Mine" JSC, (Russia)	Drum magnetic separator PBM-P-90/100 for extracting scrap of rough gravity concentrate. Hanging magnetic separators plate type PN-A-100/85 and metal detector DMT 3B for the protection of crushing equipment.	*2010*
Riddersky GOK «Kazzinc» Ltd., (Kazakhstan)	Magnetic separator BSHM-80/60 for extracting magnetic impurities from the products of ball mill grinding. Magnetic drum SMB-2-80/170 for wight material regeneration. Drum magnetic separator PBM-90/100 for extracting scrap of rough gravity concentrate.	*2010*
Ziryanovsky GOK «Kazzinc» Ltd., (Kazakhstan)	Drum magnetic separators PBM-90/100 in quantity of 3 pcs. for wet enrichment flotation tailings of clinker. Magnetic drum SMB-2-80/170 for weight material regeneration.	*2011*
Riddersky GOK «Kazzinc» Ltd., (Kazakhstan)	Drum magnetic separators PBM-90/100 in quantity of 3 pcs. for extracting scrap of rough gravity concentrate. Magnetic drums SMB-2-80/170 in quantity of 2 pcs. for weight material regeneration. Magnetic separator BSHM-80/60-01 in quantity of 3 pcs. for extracting magnetic impurities from the products of ball mill grinding.	*2011*
MCF «Velta» Ltd., (Ukraine)	Three-stage roller magnetic separators 3RS-12/150 in quantity of 8 pcs. and drum magnetic separators BS-31,5/50 in quantity of 4 pcs. for dry enrichment of ore sands to obtain ilmenite concentrate.	*2011*
«Altynau Kokshentau" Ltd., (Kazakhstan)	Pulley magnetic separator SH-12/150 in quantity of 2 pcs. for extracting random metallic impurities from the polymetallic ore.	*2013*
MCF «Velta» Ltd., (Ukraine)	Drum magnetic separators BS-40/150 in quantity of 8 pcs. for dry magnetic enrichment of ore sands to obtain ilmenite concentrate.	*2013*
Ziryanovsky GOK «Kazzinc» Ltd., (Kazakhstan)	Magnetic drum SMB-2-80/170 for weight material regeneration. Drum magnetic separator PBM-90/150-N for extracting scrap of rough gravity concentrate.	*2013*
SC«Ust-Kamenogorsk metallurgical complex» «Kazzinc» Ltd., (Kazakhstan)	Drum magnetic separator BS-63/65 for dry enrichment of clinker.	*2013*
Sepahan Ehya Iron Mines Co. (Iran)	Drum magnetic separator BS-90/150-N in quantity of 2 pcs. for dry magnetic enrichment of magnetite and hematite ore.	*2013*

Lozin A.
director

Innovation and leadership always have been inherent to us. In fact, the company develops and increases production volumes through the innovations. The firm invests in innovation about 10% of the annual income. Dynamism and scientific approach is the key to our success. This helps us in increasing production and successful implementing our designs and inventions in many enterprises of the CIS and Eastern Europe even in the crisis years.

Gavrilyuk V.
executive director

Efficient management of the company is only possible provided to a clear and understandable management to every employee of the company. Consequently, we permanently analyze the current situation and study the experience of the best representatives of business and industry, trying to improve the system of incentives for employees and setting realistic goals to reach their solution.

Pozdnyakov S.
deputy director of production

The firm owes its success to the team first of all. Highly qualified and experienced employees of the company with responsibility and inspiration put into practice the innovative developments of the scientific workers of the firm, produce high-quality, reliable and easy-to-use products.

Vakulka A.
deputy director of marketing

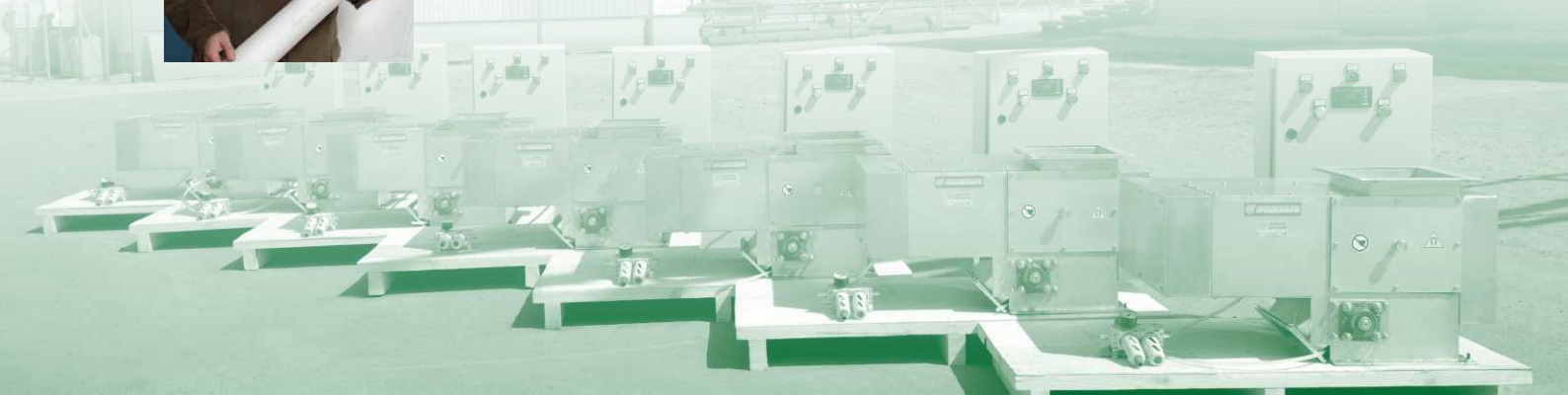
Marketing management system implemented in the company allows to develop new markets of country and industry. The dynamism of our personnel who are ready to go to the place and to solve any complex tasks, impresses the customer, creates trust and willingness to cooperate with us.

Nityahovskyy V.
deputy director of science

The presence of physical, chemical and technological laboratory at the enterprise allows conducting complex researches of enriching both metallic and non-metallic materials, extracting metallic impurities from various bulk materials. The achievements of our scientists are constantly published in leading industry publications: "Metall Russia", "Mining Journal», "News of heat supply", "Glass containers", "Cement and its Applications", "Glass of World", "Energy and Electrification", "Food and processing industry" and have an outstanding response among the industry professionals.

Strigunov P.
chief designer

Our motto is: "We know better what customer needs". It is embodied in a comprehensive approach to the execution of work, starting from the specification of the customer to the delivery and implementation of high-quality equipment and in efforts of effective resolving difficult technological, environmental, and energy problems of the customer.



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