

**UGOL ROSSII & MINING 2019**  
 26<sup>th</sup> International Trade Fair for  
 Mining Technology Preparation,  
 Material Handling and Safety & Security

**04 – 07 June 2019**  
 Novokuznetsk/Russia

## List of Product Groups

### 1 DEVELOPMENT WORK

- 1.1 Creating shafts
  - 1.1.1 Shaft sinking equipment
  - 1.1.2 Shaft drilling systems
  - 1.1.3 Drilling and rock blasting (drill hammers, drills, rock blasting equipment)
  - 1.1.4 Electrical and signalling devices
  - 1.1.5 Shaft ventilation
  - 1.1.6 Mine drainage facilities
  - 1.1.7 Plumb lasers
- 1.2 Conventional (discontinuous) excavation
  - 1.2.1 Drilling machines
  - 1.2.2 Spare and wear parts (drill bits, cutting bits, chisels)
- 1.3 Continuous excavation
  - 1.3.1 Roadheaders
  - 1.3.2 Loading machines
  - 1.3.3 Dumpers
  - 1.3.4 Sinking machines and scaling jumbos

### 2 EXTENSION

- 2.1 Shaft lining
- 2.2 Roadway support
- 2.3 Auxiliary equipment (operating platforms, lining aids, support manipulators)
- 2.4 Anchor boring rigs and installers and drilling jumbos
- 2.5 Shotcrete machines
- 2.6 Backfilling devices
- 2.7 Face support

### 3 MINING (UNDERGROUND)

- 3.1 Continuous
  - 3.1.1 Langwall mining
  - 3.1.2 Room, pillar and vein mining
- 3.2 Discontinuous
  - 3.2.1 Drilling machines
  - 3.2.2 Spare and wear parts (drill bits, cutting bits, chisels), auxiliary equipment
  - 3.2.3 Explosives blowing devices and vehicles
  - 3.2.4 Injection, compressions, backfilling of voids

### 4 STOWING

- 4.1 Stowing machines and devices

### 5 CONVEYING AND TRANSPORTING

- 5.1 Continuous conveyers, drive and reserve stations
- 5.2 Discontinuous conveyer (Systems and loaders)
- 5.3 Winches and hoists
- 5.4 Rail haulage and transport
- 5.5 Chairlifts
- 5.6 Underground stations - rail haulage
- 5.7 Hoisting plants

### 6 VENTILATION AND CLIMATE

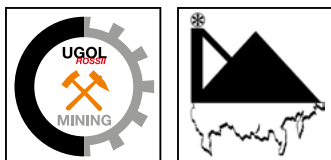
- 6.1 Main mine fans
- 6.2 Booster fans
- 6.3 Duct fans
- 6.4 Ventilation ducts
- 6.5 Dust stores
- 6.6 Ventilation doors
- 6.7 Air refrigeration systems
- 6.8 Air heating facilities
- 6.9 Dedusting systems
- 6.10 Degasification drills
- 6.11 Gas extraction devices

### 7 OPEN PIT MINING

- 7.1 Continuous mining (excavators)
- 7.2 Discontinuous mining
- 7.3 Continuous conveying
- 7.4 Discontinuous conveying
- 7.5 Auxiliary and special machines
- 7.6 Stockyard systems
  - 7.6.1 Stackers
  - 7.6.2 Combined stackers and reclaimers
  - 7.6.3 Scrapers

### 8 STORAGE MINING (WASTE DISPOSAL IN MINES)

- 8.1 Industrial trucks



**UGOL ROSSII & MINING 2019**  
 26<sup>th</sup> International Trade Fair for  
 Mining Technology Preparation,  
 Material Handling and Safety & Security

**04 – 07 June 2019**  
 Novokuznetsk/Russia

## List of Product Groups

- 8.2 Heavy goods vehicles
- 8.3 Stacking machinery
- 8.4 Tractor shovels, miscellaneous
- 8.5 Pushwall-slinger vehicle (slinger stowing vehicles)

### 9 DEEP DRILLING

- 9.1 Research and exploratory drilling facilities
- 9.2 Core drills
- 9.3 Rotary drilling systems
- 9.4 Large well drilling systems
- 9.5 Directional drilling equipment
- 9.6 Blowout preventers
- 9.7 Drill bits
- 9.8 Drill chisels
- 9.9 Drill rods
- 9.10 Core pipes
- 9.11 Ros system slewing devices, rod system manipulators
- 9.12 Rod conveyors

### 10 PREPARATION PLANTS

- 10.1 Filling and haul-off units
- 10.2 Crushers, breakers, mills
- 10.3 Separating devices
  - 10.3.1 Jigs and concentrating tables
  - 10.3.2 Medium Separators
  - 10.3.3 Floating systems
  - 10.3.4 Heavy-medium separators
  - 10.3.5 Magnetic separators
  - 10.3.6 Electrostatic preparation plants
  - 10.3.7 Picking equipment
  - 10.3.8 Washing cylinder
  - 10.3.9 Roasting plant
- 10.4 Dewatering systems
  - 10.4.1 Thickeners
  - 10.4.2 Filters
  - 10.4.3 Centrifuges
- 10.5 Dryers
- 10.6 Proportioning and mixing equipment
- 10.7 Dedusting systems
- 10.8 Briquetting systems
- 10.9 Coal by-product plants

- 10.10 Water treatment systems

### 11 MACHINERY AND EQUIPMENT FOR SMELTING AND RAW MATERIALS

### 12 COKE OVEN PLANT EQUIPMENT

- 12.1 Coke oven plants (complete)
- 12.2 Coke pushing machines
- 12.3 Coke oven charging cars
- 12.4 Coke cake guiding cars
- 12.5 Coke transfer cars
- 12.6 Door lifting machines
- 12.7 Locomotives for coke quenching cars
- 12.8 Coke oven doors
- 12.9 Coke oven door cleaners
- 12.10 Coke quenching towers
- 12.11 Dedusting systems

### 13 DRIVE UNITS

- 13.1 Compressed air motors
- 13.2 Electrical motors
- 13.3 Hydraulic motors
- 13.4 Diesel engines
- 13.5 Hydrostatic drives
- 13.6 Gear boxes
- 13.7 Clutches
- 13.8 Braking systems
- 13.9 Electro-hydraulic actuators

### 14 POWERPLANTS, ELECTRICAL SYSTEMS AND EQUIPMENT

- 14.1 Energy supply components
- 14.2 Lighting
- 14.3 Electrical and electronic measurement and testing

### 15 PUMPS AND COMPRESSORS



**UGOL ROSSII & MINING 2019**  
 26<sup>th</sup> International Trade Fair for  
 Mining Technology Preparation,  
 Material Handling and Safety & Security

**04 – 07 June 2019**  
 Novokuznetsk/Russia

## List of Product Groups

### 16 COMMUNICATION, DATA PROCESSING AND DATA TRANSFER

- 16.1 Components of the control and monitoring system
  - 16.1.1 Sensors, actuators, data capture
  - 16.1.2 Electrical automation systems, control software
  - 16.1.3 Telecontrol, data transfer
  - 16.1.4 Product technology - operating, monitoring, documentation, evaluation
- 16.2 Communication, signals and tracking systems

### 17 MEASURING AND TESTING DEVICES

### 18 COMPRESSED AIR AND HYDRAULIC AND MISCELLANEOUS TOOLS

- 18.1 Cutter heads

### 19 MAINTENANCE AND REPAIR

### 20 FITTINGS

- 20.1 Slider and flaps
- 20.2 Valves
- 20.3 Seals
- 20.4 Hydraulic fittings and hoses

### 21 RUBBER AND PLASTIC PRODUCTS

- 21.1 Conveyor belts
- 21.2 Rubber tires
- 21.3 Insulation material

### 22 LABORATORIES AND EQUIPMENT

### 23 CHEMICAL PRODUCTS, MATERIALS, BUILDING MATERIAL

- 23.1 Chemical products
- 23.2 High-tensile and wear-resistant steel
- 23.3 Steel pipelines

### 24 LUBRICANTS

### 25 CHAIN, ROPES, LINES AND WIRE PRODUCTS

### 26 SPECIAL MINING COMPANIES, CONSULTING/ ENGINEERING, MINING COMPANIES

## SAFETY & HEALTH

### 27 MINING SAFETY, OCCUPATIONAL SAFETY

- 27.1 Personal protective equipment (PPE)
- 27.2 Machines establishing mining safety
- 27.3 Fire protection
- 27.4 Explosion protection
- 27.5 Dust barriers
- 27.6 Dust protection
- 27.7 Protection against toxic substances
- 27.8 Mine rescue service
- 27.9 Cleaning
- 27.10 Corporate fashion/ identify/ image wear
- 27.11 Textiles for work, clothing, professional clothing and protective clothing
- 27.12 Hygiene products and sanitary equipment
- 27.13 Air monitoring
- 27.14 Measuring and control technology
- 27.15 Machine guards

### 28 ENVIRONMENTAL PROTECTION

### 29 RESEARCH, SCIENCE, TECHNOLOGY TRANSFER, FINANCING, INSURANCE, TRADE

### 30 LOGISTIC AND LOGISTIC SERVICES

### 31 AUTHORITIES, TRADE AND PROFESSIONAL ASSOCIATIONS, OTHER ORGANISATIONS

### 32 MISCELLANEOUS