



## ***Crawler and wheeled mining machines***



**MONORAIL**



*Monorail suspended transport*

**RAIL**



*Ground rail transport*

**TRACKLESS**



*Crawler and wheeled mining machines*

**MINING**



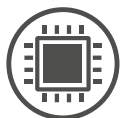
*Mining activity*

**SAFETY**



*Mining rescue equipment*

**ELECTRIC**



*Monitoring and communication systems*



## ***Crawler and wheeled mining machines***

Wheeled transport is a traditional transport mode of material and personnel in both surface and underground mines. It can be implemented wherever the inclination of the transport route does not exceed 15°. This mode of transport is mainly used in underground mines utilizing mechanized mining methods like room and pillar, block caving, open level stoping and drift mining, where a rich network of roadways are created to extract the orebody. Wheeled transport methods can achieve a very high efficiency when selected correctly for the appropriate applications and they can be used in both flameproof and non-flameproof mines.

Ferrit is an exclusive distributor of AARD Mining Equipment which is a South African producer of underground mining equipment. Motion of AARD machines is generally ensured by a low-emission diesel engine and a hydraulic generator. These machines are controlled by either a steering wheel or steering levers. All AARD machines meet high levels of safety requirements both for the operator as well as for the immediate surroundings. Operator's cabins are ISO ROPS / FOPS certified and the requirements on low maintenance and operator's comfort during operation are also met. AARD machines are able to work in very difficult working conditions with high productivity and reliability. AARD Mining Equipment is able to adapt the machines to particular customers conditions and thus supply customized solutions.

### Key



Suitable to areas with  
explosion danger



Suitable to areas with  
no explosion danger

## MULTIPURPOSE MACHINES ON CRAWLER BELTS CHASSIS



Universal machines of the PSU series are multi-purpose mining machines designed for dinting of swollen mine floors, recovering/expanding operations of roadways, loading of rock, breaking of rock by hydraulic hammers and drilling holes for either blast holes or support holes. All mechanisms for these operations are exchangeable on the PSU within a few minutes using a quick coupling mechanism. Universal machine PSU moves along crawler belts. Machine's drive is electrohydraulic and is powered by an electric supply cable. The machines are manufactured in various modifications with voltages ranging 500V, 1000V, 1140V and 660V.





## Technical parameters table

Parameters	PSU 7000	PSU 9000 II	PSU 10000
Power:	30 kW	55 nebo 63 kW	63 kW
Weight:	6600 - 7100 kg	9100 - 9700 kg	10500 - 11200 kg
Side bucket reach:	2x1615 - 2x2400 mm*	2x2397 - 2x2836 mm*	2x2441 - 2x2877 mm*
Arm extension:	700 mm	750 mm	750 mm
Bucket width:	630 - 1120 mm*	830 - 2170 mm*	830 - 2170 mm*
Bucket volume:	250 - 500 l*	300 - 850 l*	300 - 850 l*

\*depending on used mechanism



## DRILLING AND BOLTING MACHINES

Drilling and bolting machines are used for drilling holes for either blast holes or support holes. These machines are equipped with one or two 360° rotary drill carriages with a percussion drill hammer. Drill hammers are connected to the machine's hydraulic system and supplied with both flush water and compressed air. These machines are propelled by a diesel engine and a hydraulic generator. Carriages, extendable arms and drill hammers are independently driven by electro hydraulic system on the machine. The machines must be connected to external electric power supply in operational position.



## MULTIPURPOSE VEHICLES

Underground multi purpose vehicles provides a complete range for transport requirements. These machines are designed for applications requiring full carrier utilization resulting in custom-built vehicles such as fuel transport, lubrication, mobile workshop, personnel transport and material transport. Multiple interchangeable cassettes can be utilized with one carrier, each for a specific purpose. The size of the cassette is determined by dimensional parameters of the carrier and its load capacity. The cassettes are secured to the supporting of the supporting frame of the vehicle by means of safety pins.



## LOADERS AND GRADERS

Underground loaders are designed for loading and transport of bulky rocks from faces to conveyors, or to designated storage locations in mine. Bucket size determines transport volume, capacity and performance of loaders in range of 5.5 - 10 tonnes. Loader movement, including bucket control are ensured by diesel engine and hydraulic generator.

The graders are used for maintenance of transport route surfaces.



### NOTES

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# Company Ferrit operates in many countries worldwide



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