**TECHNICAL DATA**

### **DRIVE SYSTEM**
- Pulling force: 80 kN*
- Speed: 2.5 m/s*
- Friction wheel diameter: 340 mm
- No. of hydraulic motors: 8
- Standard motor size: 470 ccm
  * depends on selected hydraulic motor

### **BRAKING SYSTEM**
- No. of brakes: 6
- Braking force per unit: 16 kN
- Braking force standard: 96 kN

### **HYDRAULIC SYSTEM**
- Operating fluid: mineral oil
- Hydraulic tank volume: 100 l
- Pump size: 250 ccm
- Oil flow: 450 l/min at 1,800 1/min
- Max. operating pressure: 35 MPa

### **ELECTRICAL SYSTEM**
- Controls: digital PCM
- Operating voltage: 3 x 12V/2 A
- Generator: 24 VDC 10 A
- Flame-proof protection: SYST IM2 EExi b

### **DIESEL ENGINE**
- Type: 4-cylinder Scharf®
- Rated power: 84 kW at 1,800 1/min
- Water cooling system : volume 50 l
- Diesel tank: volume 140 l
- Starter: hydraulic
- Flame-proof certificate: ATEX

### **DIMENSIONS AND WEIGHT**
- Width: 0.80 m
- Height below bottom of rail: 1.23 m
- Locomotive length: 14 m
- Locomotive weight: 6,600 kg

### **OPERATING CONDITIONS**
- Operating temperature: -10°C* up to +40°C
- Rel. humidity: 90 %
- Horiz. curve radius: min. 4 m
- Vertic. curve radius: min. 8 m
  * for short time at diesel engine in operation

### **OPTIONS**
- Remote drive activation
- Drive configurations: 2+1, 3+2, 3+3
- Additional brakes
- Operating data recording
- Hydraulic motor size: 380, 565 and 680 ccm

### **TYPICAL PERFORMANCE CHART**

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**DZK 1500 MONORAIL**

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DZK 1500 MONORAIL – CONTINUOUS TRANSPORT SYSTEM FOR UNDERGROUND MINING

**Features**
- Self-propelled monorail with integrated hoisting devices
- Powerful 84 kW Liebherr/Scharf diesel engine
- 4 drive units with total pulling force 80 kN
- Patented soft braking system
- Driver cabin with on-board diagnostic and multifunction joystick
- ATEX certified flame-proof system

**Advantages**
- Flexible, continuous transport of equipment, material and men
- High transport capacity continuously going from 0 - 30 degrees incline
- High speed (up to 2.5 m/s) and safe operation in big slopes
- Short instruction time, simple operation and high availability
- Safe operation, certified according to international standards

DZK 1500 – ONE MONORAIL – MULTIPLE TRANSPORT SOLUTIONS

**Face movement:** e.g. 25,000 kg single payload

**Material transport:** e.g. 4,000 kg payload per container

**Man-riding:** e.g. 20 Men per carrier