

# ESPECIFICACIÓN TÉCNICA

Camión volquete para minería subterránea DALI UK-15



UK-15 is a underground dumper with 15 ton payload for small-to-middle scale mine. Best payload to own weight ratio in its class. It is full of features to help mines maximize tons and minimize costs.

## Main Features

### 1. Safety

- 1.1. ISO ROPS/FOPS certified operator's compartment
- 1.2. Hydraulic-release (SAHR) brakes
- 1.3. Articulation safety lock
- 1.4. Dump box safety support
- 1.5. Rear-view camera
- 1.6. Reverse alarm
- 1.7. Self-lock. Once the door is opened, the vehicle can be locked automatically and can not drive, which can protect the vehicle and personal from being injured.
- 1.8. Automatic alarm system for oil temperature, oil pressure and electrical system.

### 2. Small and Lite

The UK-15 has a compact envelope and offers high maneuverability, even in restricted spaces.

### 3. Maximum Efficiency and Productivity

- 3.1. The durable UK-15 is impressively fast to haul the materials up the ramp in no time. The truck's systems and components have been tested and refined through years of real work experience to stand the test of time.
- 3.2. Manual Central lubrication system.

**Industry standard**

GB/T 35195-2017 Technical standards for construction machinery and equipment

JB/T8436 Standard for tire-type ore trucks for underground mines

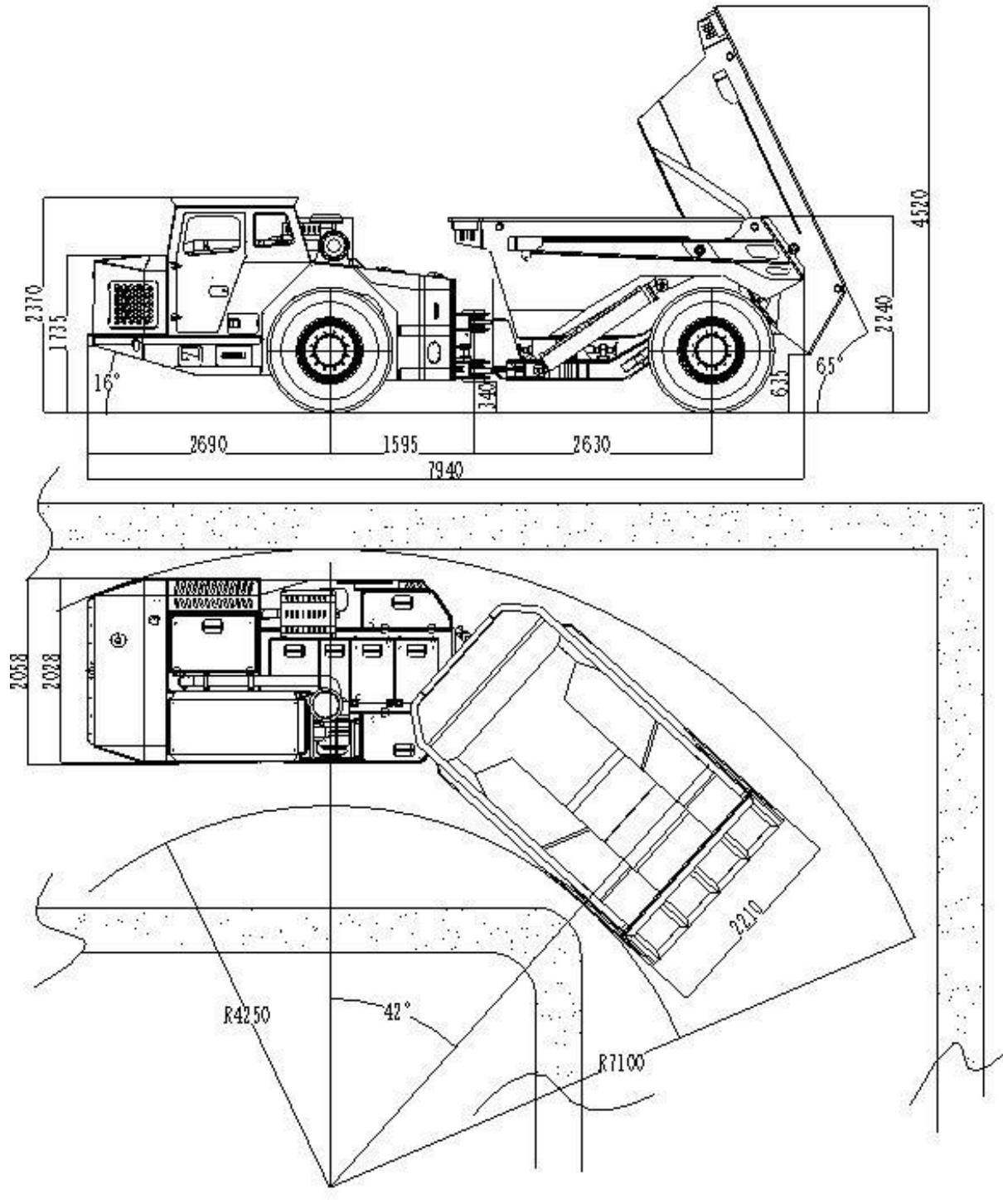
GB21500 Safety requirements for trackless tire-type mine trucks for underground mines

**Application**

Environment Temperature -25°C ~ +50°C

Mining Altitude -1500m ~ +5000m

When working at -1500 ~ +3000 meter, temperature is no higher than 25°C, there is no engine power loss



<b>Capacities</b>		Rear axle	spring applied hydraulic operated brakes. Fixed
Tramming capacity	15000 kg	Tire	14.00-24 L-5S TT
Dump box volume	7.5 m <sup>3</sup>	<b>OPERATORS COMPARTMENT</b>	
<b>Main dimensions</b>		ROPS/FOPS certified canopy	
Overall Size	7940X2210X2370 mm	Cab height	2471mm
Box Lift Height	4520 mm	Spring seat with safety belt	
Wheelbase	4225 mm	External sound level according to ISO 6395 LwA 122 dB(A)	
Min. ground clearance	340 mm	Sound level in canopy according to ISO 6396 LpA 108 dB(A)	
Turning radius	4250 / 7100 mm	Sound level in cabin according to ISO 6396 LpA 85 dB(A)	
Turning angle	42°	Whole body vibration value according to EN 14253 A(8)w	
Dump angle	65°	<b>FRAME</b>	
<b>Speed</b>		Rear and front frame	Welded steel construction
1 <sup>st</sup> gear	0~4.5 km/h	<b>STEERING HYDRAULICS</b>	
2 <sup>nd</sup> gear	0~9.8 km/h	Full hydraulic power steering with two double acting steering cylinder. Open centre system with gear pump and pilot operated stick steer control.	
3 <sup>rd</sup> gear	0~17.8 km/h	<b>Main Components</b>	
4 <sup>th</sup> gear	0~23.5 km/h	Hydraulic pump	Gear type
<b>Dump Box Motion Time</b>		Control valve	Pilot operated
Discharging time	≤13s	Steering cylinder	2 pcs double acting cylinder
Box lowering time	≤10s	<b>DUMP BOX HYDRAULICS</b>	
<b>Weight, empty</b>		Full hydraulic open-centre system with gear pump. Pilot operated stick dump control.	
Operation Weight	15500 kg	<b>Main Components</b>	
Front axle	9550 kg	Dump cylinder	2 pcs
Rear axle	5950 kg	Hydraulic pump	Gear type
<b>Weight, Loaded</b>		Control valve	Pilot operated
Fully Loaded Weight	30500 kg	<b>BRAKES</b>	
Front axle	14550 kg	Service brakes are spring applied hydraulically operated and liquid cooled (LCB) multi-disc brakes on all wheels.	
Rear axle	15950 kg	Two independent circuits: one for the front and one for the rear axle.	
<b>POWER TRAIN</b>		Service brakes also function as an emergency and parking brake.	
<b>Engine</b>		<b>Main Components</b>	
Diesel engine	VOLVO TAD850	Pressure accumulator	Piston type with charging valve
Output	160kw	Brake pedal valve	WILLIAMS/MICO
Purifier	Catalytic purifier with muffler	<b>ELECTRIC SYSTEM</b>	
Electric system	24v	Alternator	24V, 80Amp
Cooling system	Water cooling	Batteries	12Vx2
Number of cylinders	in-line 6	Starter	24 V, Heavy Duty
Method of operation	4-stroke, direct injection with intercooler	Driving lights	4 pcs in front, 2 pcs in rear
Fuel tank refill capacity	250L	Reverse alarm	standard
<b>Converter</b>		Flashing beacon	standard
Brand	DANA	Horn	1 pc
Model	C273		
<b>Transmission</b>			
Brand	DANA		
Model	R32000		
<b>Axle</b>			
Model	Kessler D81		
Type	Rigid planetary axle		
Differential	Standard		
Front axle	spring applied hydraulic operated rakes. Oscillating ± 8°.		



Turning Light	2 pc in the rear	Auto lubrication system
<b>Manual central lubrication</b>	<b>standard</b>	Air conditioning and heater
<b>PARTS AND SERVICES</b>		
Complete toolbox		
One full set free filters		
Free Seals		
<b>DOCUMENTATION</b>		
Operation manual	English / Russian / Spanish	Emergency steering
Service manual	English / Russian / Spanish	Optional box sizes
Parts manual	English / Russian / Spanish	Teletram dump box
<b>OPTIONAL</b>		
Engine fire suppression	Brand ANSUL or PROTECFIRE	Wheel chocks and brackets
Knockdown construction		
Optional tire 17.50-R25 L-5S TT		
Safety cover rails		

## GRADE PERFORMANCE

### Standard configuration, box empty

Grade	0.0%	2.0%	4.0%	6.0%	8.3%	10.0%	12.5%	14.3%	16%	18%	20%	25%
Ratio		1:50	1:25	1:16.7	1:12	1:10	1:8	1:7	1:6.3	1:5.6	1:5	1:4
1 <sup>st</sup> gear km/h	4.5	4.5	4.5	4.5	4.5	4.4	4.4	4.4	4.3	4.3	4.3	4.1
2 <sup>nd</sup> gear km/h	9.8	9.8	9.7	9.7	9.6	9.5	9.4	9.3	9.2	9.1	9.0	8.7
3 <sup>rd</sup> gear km/h	17.8	17.8	17.7	17.5	17.1	16.8	16.2	15.8	15.2	14.7	14.1	-
4 <sup>th</sup> gear km/h	23.5	23.5	23.2	22.6	22.0	20.5	-	-	-	-	-	-

### Standard configuration, box loaded

Grade	0.0%	2.0%	4.0%	6.0%	8.3%	10.0%	12.5%	14.3%	16%	18%	20%	25%
Ratio		1:50	1:25	1:16.7	1:12	1:10	1:8	1:7	1:6.3	1:5.6	1:5	1:4
1 <sup>st</sup> gear km/h	4.5	4.5	4.5	4.5	4.4	4.4	4.3	4.3	4.2	4.2	4.0	3.6
2 <sup>nd</sup> gear km/h	9.8	9.8	9.7	9.6	9.4	9.1	8.9	8.6	8.2	7.8	7.5	-
3 <sup>rd</sup> gear km/h	17.8	17.7	17.4	16.8	15.8	14.5	-	-	-	-	-	-
4 <sup>th</sup> gear km/h	23.5	23.1	22.4	-	-	-	-	-	-	-	-	-

## PRODUCTIVITY CURVE

