Slag Hauler
SLV 100

SLV 100 is a special vehicle designed to transport and dump molten slag. It is intended to be used on smooth roadways without greater slopes.

Technical features

- The vehicle is made up of a traction unit and a load unit joined by an articulated link that also admits skewing movements.
- Steering is achieves through angling the two units to each other by hydraulic cylinders.
- The front unit supports the drive line and is carried by two pneumatic wheels mounted on a rigid drive axle that is equipped with multi-disc brakes in oil.
- The load unit is equipped with an arm system for handling the slag pot.
- The cabin is placed in the front of the load unit in position above the front unit.
- The cab is well insulated from sound and vibrations and has a fresh air and a heate/ defroster system and the drivers seat is ergonomically designed.
- The load unit is supported by 16 solid rubber wheels mounted in two groups on longitudinal balance axles.
- The diesel engine is low emission 6-cylindric turbo charged, with the flywheel in front direction.
- The gearbox and the torque converter is attach directly on the engine and together they are as a unit attached to the frame by a vibration absorbing mount.
- The power shift gearbox has four stages.
- The transmission is connected to the drive axle through a propelling shaft.
- The engine room is protected by sound insulated hoods.
- The lifting arms consists of a lower and an upper arm connected in a joint.
- There is a parallell rod between the upper arm and the main fraim.
- The hydraulic cylinder are acting on the lower arm. The upper arm will move in a near parallell movement and after that turn around in an accelerated movement.
- The pot can be left in an upside down position.
- The two support legs have to be lowered to permit handling of the slag pot.
- The pot can, in low speed be lifted and towed out from narrow spaces with rolls on the support legs.
- The ladle is locked to the upper arm during the turning movement at dumping.
- Protection from splashing slag with a protection roof, coated with taming clay on the cabin and jalousie on the rear end of the roof.
- Wheels and axles are protected by shields.
- The brake system is hydraulic operated using multidisc brakes on the drive axle, also used as parking and emergency brakes and disc brakes on the rear axles.
- Standard high-quality components are used throughout the design and it is easy to access during service and repair.
- Hoses and cables are protected from splashing slag.
- All exposed parts are manufactured of hi-tensile steel.
- Steel surfaces are sandblasted and then painted with 2-component under coat and top coat paints or galvanized.

Standards

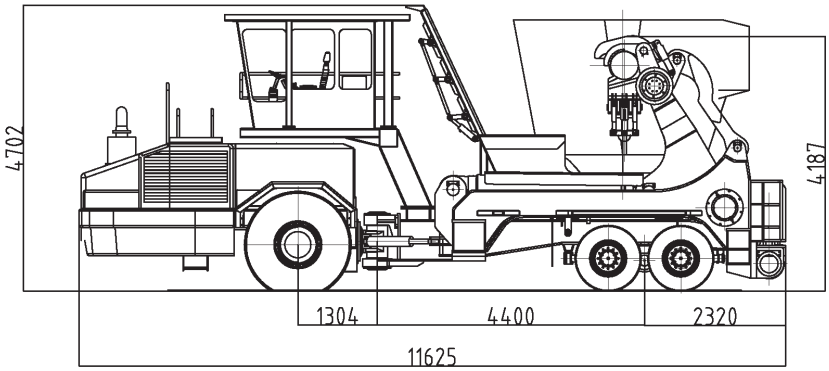
CE mark according to European standards.

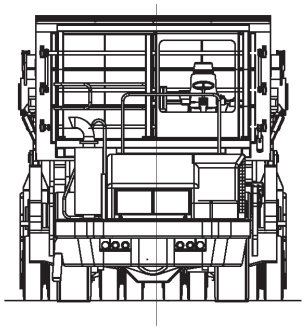
Slag Hauler SLV 100

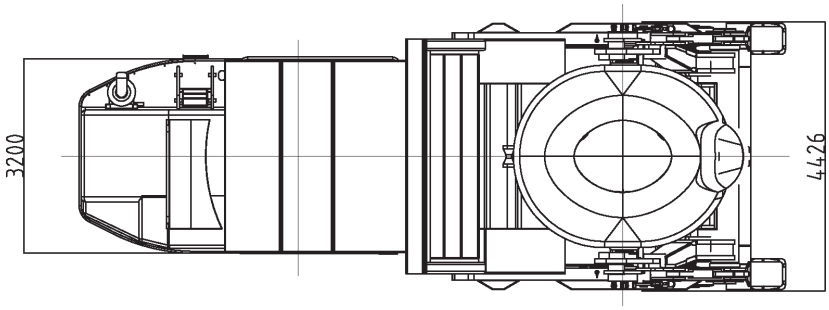
MNS 201004

2011-05-10
EMLI

Technical data







Dimensions

Length	11,6 m
Width	4,4 m
Height protection roof	4,7 m
Height lifting lugs	4,1 m
Swep radius, outer	11,4 m
Swep radius, inner	5,6 m
Max emptying angle	180 deg

Weight

Unloaden	73 tonnes
Total	173 tonnes

Axle load

	Unloaded	Loaded
Front	24 tonnes	30 tonnes
Rear	49 tonnes	143 tonnes

Max speed

Unloaden	30 km/h
Loaden	15 km/h

Wheel

Tyre	**Front**	18.00xR25 VEL
	Rear	semi solid 12.00-20 MAG
Rim	**Front**	13.00-25 HD
	Rear	10.00-20 HD

Engine

Scania DC13 077A	13 litres, with intercooler
Emission class	tier 3B
Power	331 kW / 2 100 rpm
Torque	2 255 Nm / 1 300 rpm

Transmission

Converter	ZFW370
Transmission	ZF3WG310
Drive axle	Kessler D106 PL341/528-NLB

Steering system

Hydrostatic, steering wheel or joy-stick in front direction, joy-stick in rear.

Brake system

Multidisc brake in oil at drive axle, disc brakes at rear axles. Retardation min 2 m/s².

Hydraulic system

Axial piston pumps with LS-control.

Pressure	21 MPa
Flow	600 l/m
Hydraulic tank volume	500 litres

Loading

From plattform to ground	67 sek
From ground to platt-form	55 sek

Electric system

Voltage	24 V
Battery	2x150 Ah
Generator	80 A
PLC	Sauer Danfoss
Video cameras	2 pcs
Lights	High-low headlights in front position/rear light working lights front/rear turn signal lamps
Warning signal	Acoustic signal Rotating warning lamp

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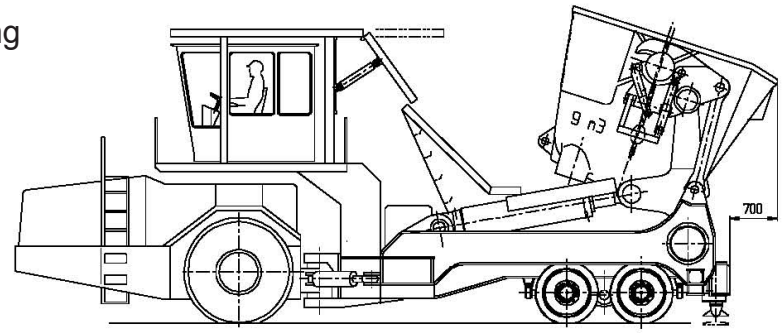
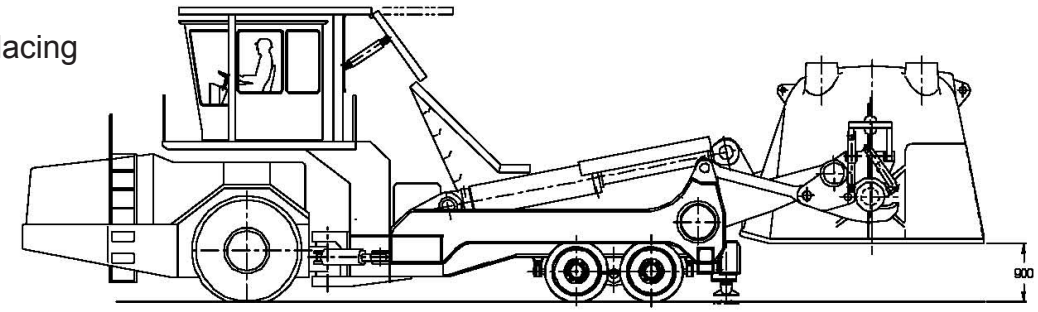
Load

Pot 13 m³ weight unloaded	24,6 tonnes
Max weight (9 m³) from +900 mm	100 tonnes
Max weight (13 m³) from -700 mm	85 tonnes
Max weight (13m³) horisontal emptying	65 tonnes

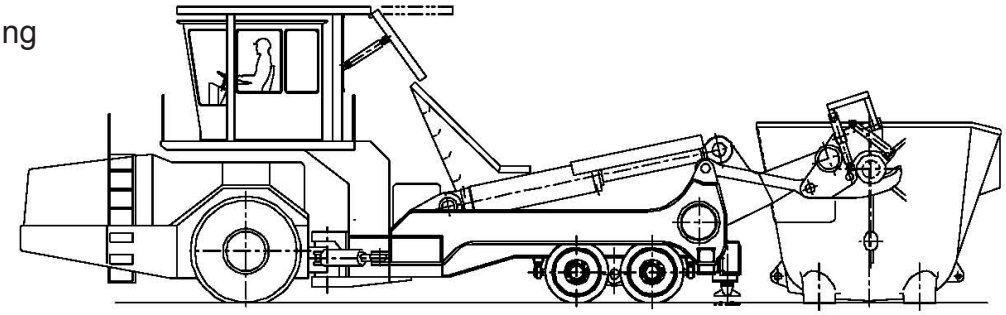
Emptying



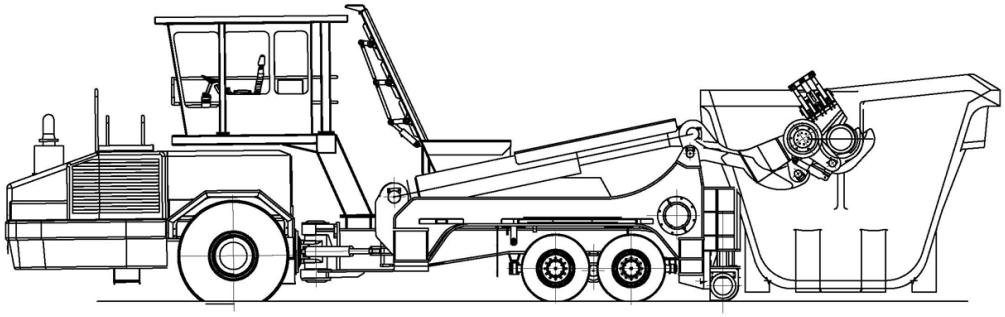
Downplacing



Retrieving



Towing



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