

# miniLoader<sup>®</sup>

## L110E

### ELECTRIC



Narrow



Modern



Comfort



Safety

## A MINILOADER FOR HIGH PRODUCTIVITY

 **Aramine**  
Groupe Melkonian

# miniLoader<sup>®</sup>

## L110E

### ELECTRIC



HIGH  
RELIABILITY



LOW  
MAINTENANCE  
COST



HIGH  
COMFORT



DESIGNED FOR  
THE HIGHEST  
CERTIFICATION



## A SIMPLE AND RELIABLE MINILOADER

The miniLoader L110E, is specially designed for underground mining works in narrow section and narrow vein mining. With a width of 0,88 m and a tramping capacity of one tonne, the L110 is ideal to raise your productivity without the need of increasing your gallery sections. Its modern transmission and components result in a high reliability with simple maintenance and fully safe operation.

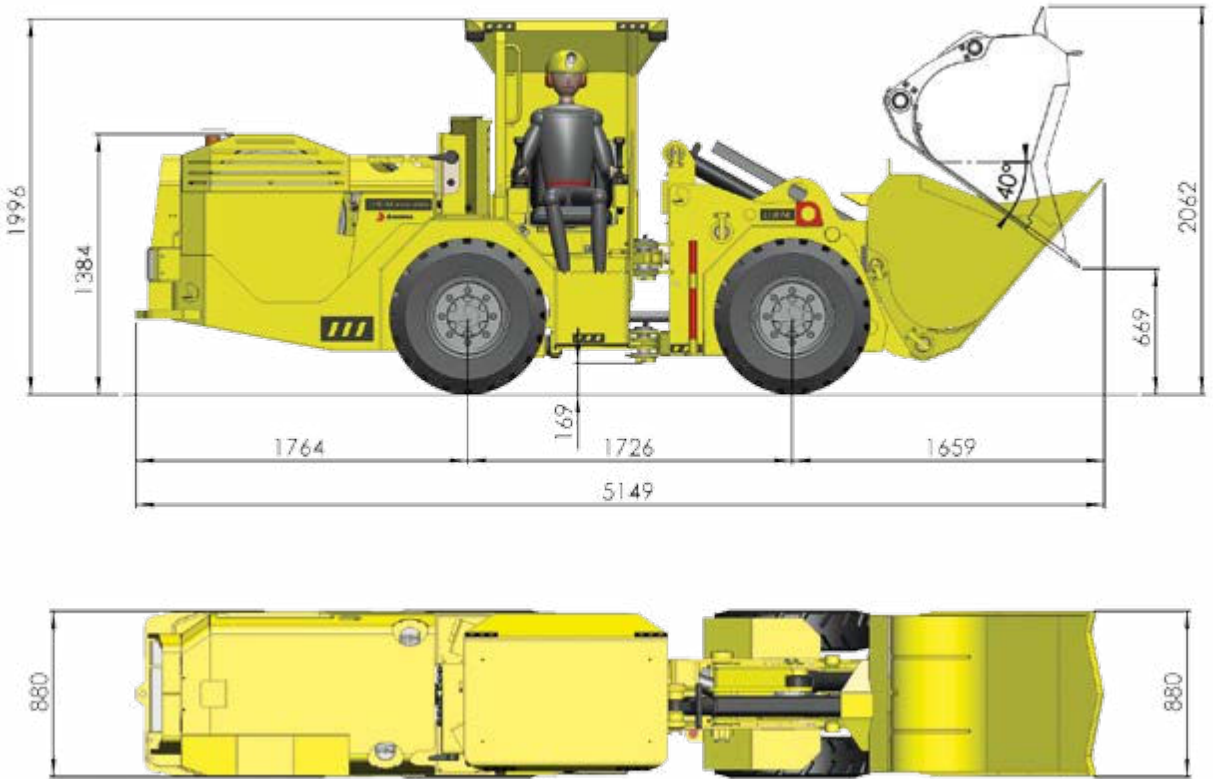
The chassis and articulations are designed for the toughest application, in order to allow a high availability with a longer life time.

The miniLoader L110E fitted with a simple and robust cable reel designed for tramping and equipped with an automatic cable tension system, allows the utilization of the miniLoader with less noise and low ventilation.

Comply  
to EC  
register



# SPECIFICATIONS



## CAPACITIES

Tramming Capacity	1 000 kg
Static Tipping Load	30 kN
Breakout Force, tilt (SAE)	29 kN
Breakout Force, lift (SAE)	30 kN
Tractive Effort	30 kN
Empty weight	4000 kg
Empty	Front 1 350 kg / Rear 2 650 kg
Loaded	Front 3 700 kg / Rear 1 300 kg
Standard bucket volume	0,5 m <sup>3</sup>

Density (t/m <sup>3</sup> )	1.6	2.0	2.4
Volume (m <sup>3</sup> )*	0.6	0.5	0.4
Width (mm)	1060	880	880

\* Heaped SAE

## SPEED

Vehicle Speed loaded	0 to 7 km/h with 60Hz 0 to 6 km/h with 50Hz
Boom speed	
50Hz	Raising 4,5s / Lowering 3 s
60Hz	Raising 4s / Lowering 2,5 s
Bucket speed	
50Hz	Roll Back 4 s / Dumping 6,5 s
60Hz	Roll Back 3,5 s / Dumping 5,5 s

## FRONT AND REAR AXLES

- Front & Rear axles, Aramine A5086 Series
- Front: Rigid axle with wheel end planetary and Nospin differential lock type
- Rear: Oscillating mounted axle with wheel end planetary and standard differential
- Dropbox mounted on rear axle

## ENGINE & SYSTEM

- Engine
  - Three-phase asynchronous – Squirrel Cage
  - IP55 Degree of protection
  - Power, Frequency and speed :
    - 30 kW power @ 50 Hz – 1500 rpm
    - 34 kW power @ 60 Hz – 1800 rpm
- System
  - Electrical system compatible with 380V-50Hz and 440V-60Hz

## TANK CAPACITY

- Hydraulic: 60L (Welded to frame)
  - Hydrstatic: 45L (Welded to frame)
- All tanks with access cover (easy cleaning)

## HYDRAULIC SYSTEM

- Suction strainer: 100 microns
- Return & Suction filter: 25µ Cartridge
- Fluid: Class 68
- Hydraulic gear type pump 41 cc
- Hydraulic Pilot Steering & Bucket Controls
- Hydraulic Cylinders, double acting type:
  - One (1) for Stab
  - One (1) for Hoist
  - One (1) for Steering

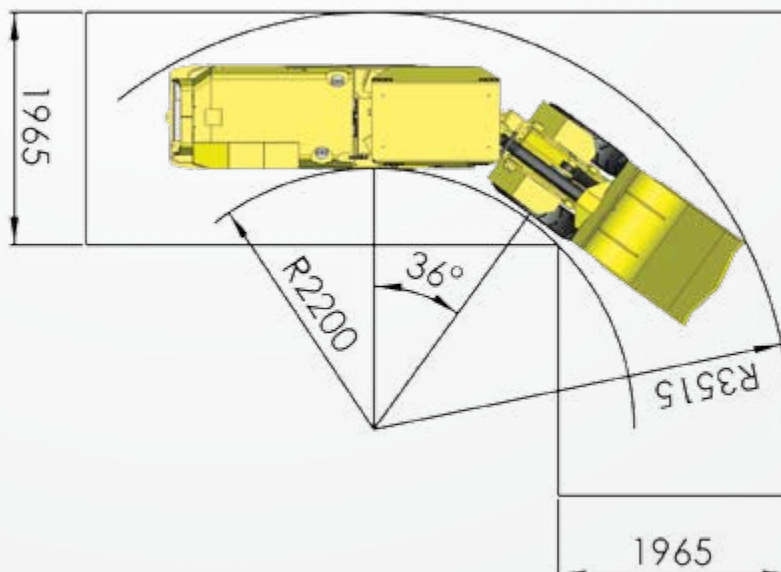
## ELECTRIC SYSTEM

- Sealed electrical system with replaceable harness
- 2 front & 2 rear lights: 24V - H3 - 70W

## BRAKES

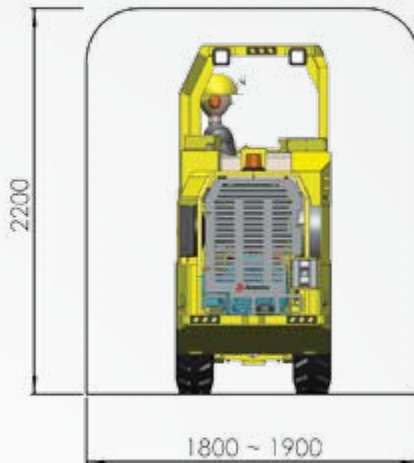
- Service: Hydrostatic brake with pedal control and Spring Applied multi-disc assistance
- Parking & Emergency : LCB multi-discs brake, Spring Applied Hydraulic Release, mounted in rear axle.
- Manuel and/or automatic actuation in case of energy loss (hydraulic, electric, engine) and when operator is out of seat.

## TURNING RADIUS



## RECOMMENDED DRIFT SIZE

- (Canopy mounted)



## TIRES

- Deep Lug tire of Mining application, 7.5R15 XMINE D2 MICHELIN
- Mounted on demountable rims

## TRANSMISSION

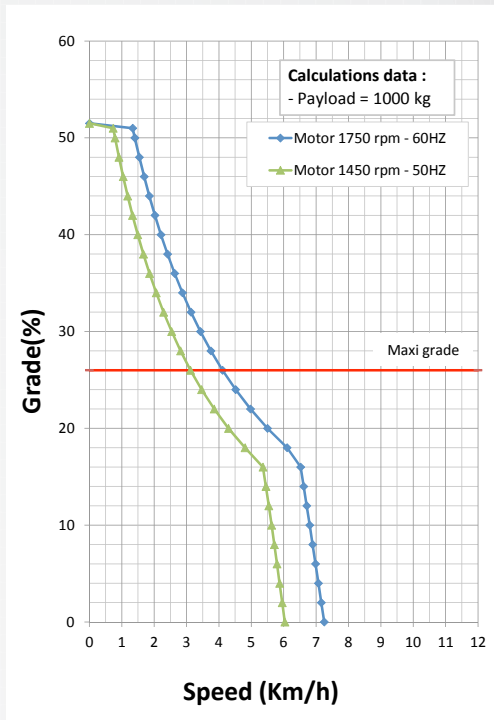
- Hydrostatic Transmission fully reversible
- Pump: Variable displacement 71 cm<sup>3</sup> @ 400 Bars
- Motor: fixed displacement 50 cm<sup>3</sup>

## OSCILLATION

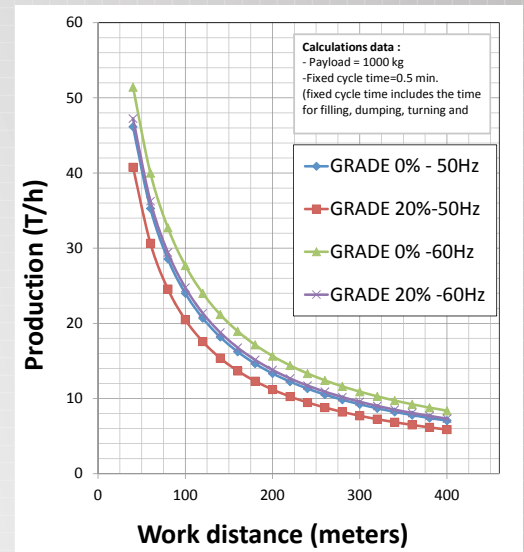
- Rear axle mounted on oscillation frame with 12° articulation (6 degrees in each side)



## SPEED ON GRADE



## PRODUCTION in T/h



\*One way. For longer distance, contact our sales department

## STANDARD EQUIPMENTS

- Certified ROPS/FOPS Canopy over operator
- Operator compartment safety door
- Ergonomic and comfortable operator's compartment for enjoyable operation
- LED type lights
- Intuitive and ergonomic controls from joystick buttons for: Direction, Lights, Horn, and any option
- High level of safety integrated in all systems and designs
- All hoods are assisted by Gaz spring cylinder and locking device
- Dump Cylinder Protection
- Manual centralized lube system
- BackUp Audio/Visual Alarm
- Safe and easy Central hinge locking device
- Safe and easy Boom raised locking device
- Repleacable inserts to central hinge, bucket and boom articulations
- Brake test system
- Safety joystick interlock

## OPERATOR'S COMPARTMENT

- Side Seated Operator, for better visibility in both directions
- Seat with suspension, and safety belt
- Ergonomic built-in armrests ajustable with Joystick controls
- Ergonomic Control panel with 4,3' display for Diagnostic & Functions
- ROPS/FOPS Certified bolted Canopy with Back Protection
- Ergonomically located Steer
- Bucket pilot joystick
- Forward/Reverse/Neutral control buttons on left joystick
- Right foot pedal for trammng speed control
- Left foot pedal for hydrostatic brake

## OPTIONS

- Automatic lube system
- Extinguisher
- Fire Suppression system ANSUL
- Radio Remote Control system
- Emergency Power Steering (electro-hydraulic)
- Bucket with high abrasive blades reinforcement
- EOD Ejector Blade Bucket
- Cylinders pilot check valves

The drawings and images of this brochure may show equipment with specific options.  
The specifications and equipment are subject to change without notice.



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