





....



Aran in

Operating life

# A NEW ERA FOR UNDERGROUND



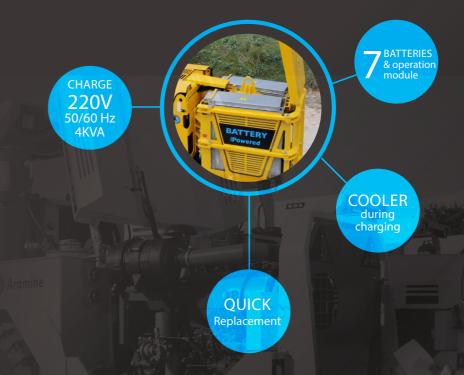


# L 140B **BATTERY Powered**



# INNOUT TION BATTERY PACK "PLUG AND LOAD"

Eachmachinehastworobustbatterypacks, inwaterproofstainless steelboxes, with charging cooler and integrated charger.



# **OPTION "BATTERY** QUICK REPLACEMENT SYSTEM"

### Unlimited operation of the machine by changing battery modules

EXCLUSIVESYSTEM!AdditionalBatteryModule,forfullshift,fulldayorfulltime autonomy. Changing battery is now faster than filling fueltank with the Aramine W Optional Battery Replacement Bench with Crane.



Comply to EC register

C E

# PROVEN AND RELIABLE **HIGH TECHNOLOGY**

TheL140B, especially thought for narrow vein mines, is designed with the best components from recognizedbrand.Themachinedoesn'tneedmaintenance;withouthydrostatics,withasimplified electrical transmission and a low heating, it has a longer lifetime.

L1408 Miluter

A

# **SPECIFICATIONS**

### CAPACITIES

Tramming Capacity			1 300 kg
Static Tipping Load			30 kN
Breakout Force, tilt (SA	λE)		30 kN
Breakout Force, lift (SA	E)		35 kN
Tractive Effort			32 kN
Empty weight			4700 kg
Empty	Front I	100 kg /	Rear 3 600 kg
Loaded	Front 3	100 kg /	Rear 2 900 kg
Standard bucket volum	ne		0,7 m <sup>3</sup>

Density (t/m3)	1.6	1.9	2.2	
Volume (m3)*	0.8	0.7	0.6	
Width (mm)	1100	1100	1100	
* Heaped SAE				

#### PRODUCTIVITÉ & AUTONOMIE

4H* average 5km/h 2to 5% grade up loaded	100m tramming distance x2	1PASS
--	---------------------------------	-------

# $\rightarrow$ 15t/hour $\approx$ 1 blast

\*3 to 5 hours depending on operator & Application

#### SPEED

Vehicle Speed loaded	0 to 7 km/h
Boom speed	Raising 4, Is / Lowering 2,6 s
Bucket Speed	Roll back 3,6 s / Dumping 5,6 s

#### TIRES

Deep Lug tire for Mining application MICHELIN, 7.5R15 Xmine D2

Mounted on demountable rims

#### TRANSMISSION

The LI40B miniLoader was designed to remove the hydrostatic transmission and related systems. This has been achieved by the new design of an electrical directional controller. Electricasynchronousmotor25kWmountedonrearaxlethrough belt type reducer and spring applied hydraulic release brake. Auto battery recharge while decelarating & breaking cycle.

### MOTOR & ENERGY

#### Electric Motor

2 x Leroy Somer 25kW motors | for Tramming & | for hydraulic Same motors for easy maintenance & less inventory Liquid cooled motors for stability in high temp environment.

Batteries 24k	Wh LiFe PO4 (90V - 270 Ah)
2 x pack 12kWh (250k	g/pack) with integrated charger
Recharge	4 hours with 220V
Replace battery packs	$\approx$ 20min with Battery QRS

### HYDRAULIC SYSTEM

Suction strainer	100 microns	
Return & Suction filter	10µ with replacable element	
Fluid	ISO VG32	
Gear type pump powered by an electric motor		

- Electronic Pilot Steering & Bucket Controls
- Hydraulic Cylinders, double acting type:
- One (1) for Stab with bucket stab link
- One (1) for Hoist
- One (1) for Steering

#### ELECTRIC SYSTEM

- Sealed electrical system with replaceable harness
- 2 batteries 12V 17Ah for wake up with self charge
- Accessories: 24V
- 2 Front & 2 Rear LED lights 4,3' Display for diagnostic & function

#### OSCILLATION

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

#### 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 Steering direction controlled by left joystick
- Bucket controlled by right joystick
- Forward/Reverse/Neutral control buttons on left joystick
- Right foot pedal for tramming speed control
- Operator's door with large opening in narrow clearance

#### BRAKES

Service : Electrical brake control with additional enclosed multi disc brake (Spring Applied Hydraulic Release) for service brake & immobilisation.

Parking & Emergency : LCB multi-discs brake mounted in rear Axle (Spring Applied Hydraulic Release).

Manual actuation by operator and automatic actuation in case of hydraulic or electric energy loss.

#### 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

#### TANK CAPACITY

Battery powered miniLoader allows removal of fuel and transmission tanks. Only hydraulic tank is required

50 L (Welded to frame)

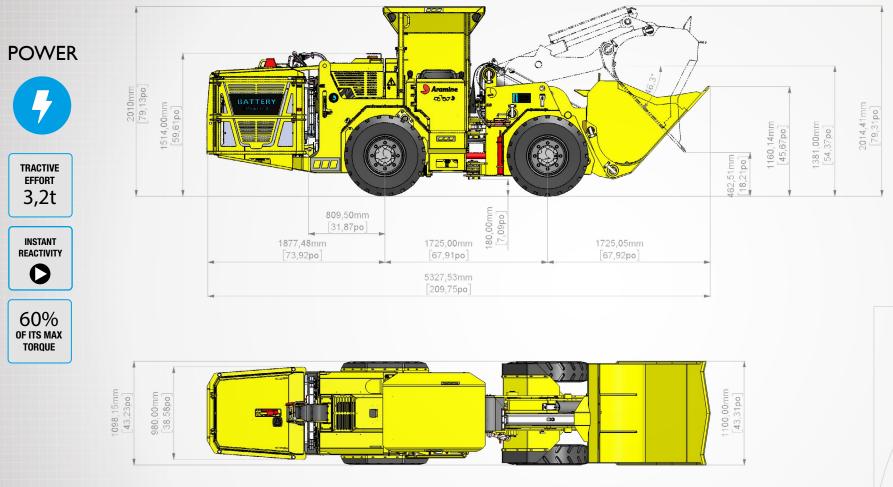
Hydraulic

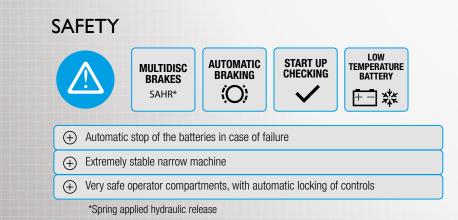
# miniLoader®

L 140B

BATTERY Powered







# BATTERIES

(+) Integrated microSD to collect all data and analyze the machine functions

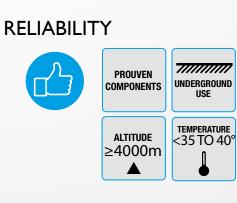
Adapt easily the machine to your mine conditions with our engineers



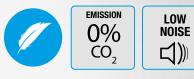






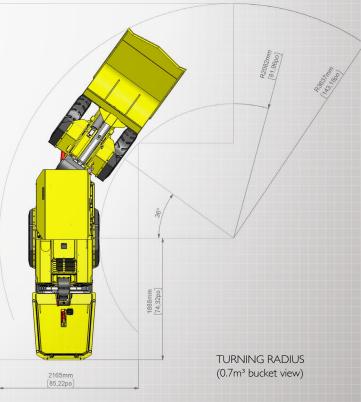


# COMFORT AND ENVIRONMENT



#### (+) Flexibility of use

- Ergonomic operator compartment with integrated and adjustable armrests
- (+) Progressive acceleration and braking
- (+) Oscillation with prestressed shock absorbers



# PERFORMANCES

# STANDARD EQUIPMENTS

- Certified ROPS/FOPS Canopy over operator
- Operator compartment safety door

Ergonomic and comfortable operator's compartment for enjoyable operation

- Dash Board with 4,3' display for system control and machine diagnostic
- Intuitive and ergonomic controls from joystick buttons for: Direction, Lights, Horn, and any option
- Can-bus type electrical system for easy diagnostics and programmation
- Electronic Pilot Operated joystick for Steering and Bucket Controls Electronic pedal for speed control

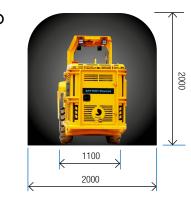
#### LED type lights

- Direct Electric Drive Transmission
- Removable battery packs (2) in a sealed and solid stainless steel frame integrating; batteries, electronic control monitor and charger
- LiFe PO4 battery, proven stability & reliability in toughest environment
- High level of safety integrated in all systems and designs
- All hoods are assisted by Gaz spring cylinder and locking device
- Safe and easy Central hinge locking device
- Safe and easy Boom raised locking device
- BackUp Audio/Visual Alarm
- Manual centralized lube system
- Repleacable inserts to central hinge, bucket and boom articulations
- Dump Cylinder Protection
- Complementary Service & Park Spring Applied Multi-disc brake
- Michelin 7,5 R 15 X-Mine D2

### 

- Automatic lube system
- Extinguisher
- Fire Suppression system ANSUL
- Radio Remote Control system
- Emergency Power Steering (electro-hydraulic)
- Bucket with high abrasive blades reinforcement EOD Eiector Blade Bucket
- Battery Quick Replacement System
- Battery Replacement Bench Adjustable canopy

RECOMMENDED DRIFT SIZE (Canopy mounted)

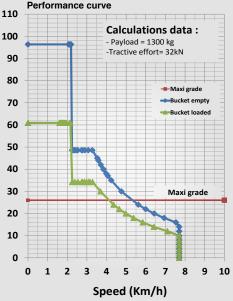


180

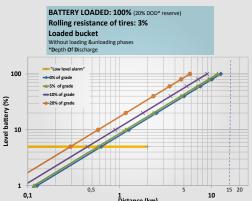






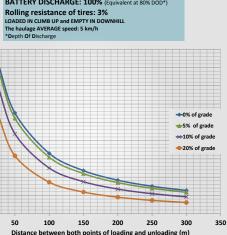






### **BATTERY AUTONOMY** & PRODUCTION IN T/h

#### Capacity hauled BATTERY DISCHARGE: 100% (Equivalent at 80% DOD\*)



# SPEED ON GRADE

### TRAMMING DISTANCE PER CHARGE

### **YOUR OFFICIAL AUSTRALIAN DISTRIBUTORS**



www.SITECHWA.com.au Sales@SITECHWA.com.au 08 9392 7700

#### PERTH 1/8 Hasler Road Osborne Park WA 6017



www.SmartTechAustralia.com.au Reception@SmartTechAustralia.com.au 1800 655 860

#### BRISBANE

4/29 Links Avenue North Eagle Farm QLD 4009

#### TOWNSVILLE

11-13 Casey Street Aitkenvale QLD 4814

#### SYDNEY

13/7-9 Progress Circuit Prestons NSW 2170

MELBOURNE I I B The Crossway Campbellfield VIC 3061







Aramine joins the Global Compact of the United Nations and is committed to develop its Social Responsibility

