

ZE1820

ZE1820 Electric Articulated Boom Lift

100% electric self-propelled articulated boom lift · 48V/500Ah LiFePO₄ lithium battery · 20.5 m working height
· 4WD drive with dual steering · Continuous 360° turret · Zero emissions

WIMER · ZE1820 · 2026



WORKING HEIGHT

20.5 m

PLATFORM HEIGHT

18.5 m

HORIZONTAL OUTREACH

13.2 m

BASKET CAPACITY

300 kg

BRAND

WIMER

MODEL

ZE1820

CATEGORY

**Municipal & special
equipment**

MODEL YEAR

2026

High-performance 100% electric self-propelled articulated boom lift designed for indoor and outdoor operations requiring zero emissions and silent operation. Equipped with a deep-cycle 48V / 500Ah (24.0 kWh) LiFePO₄ lithium battery pack, 4WD all-wheel drive with dual turning steering, articulating jib and continuous 360° turret rotation. Its Curtis CAN-bus electronic control architecture, SANT (HydraForce USA) proportional valving and automatic basket leveling system deliver millimeter-precise maneuvering, maximum safety compliance to EN 280 / CE standards, and an unrestricted 300 kg load capacity across the entire working envelope.

01 ELECTRIC SYSTEM & LITHIUM BATTERY

Battery technology	Lithium iron phosphate (LiFePO ₄)	Operating autonomy	8 to 10 h (full shift)
Cell manufacturer	TianNeng / AVIC	Battery cycle life	> 3 500 cycles (80% DOD)
Voltage & capacity	48 V / 500 Ah (24.0 kWh)	Electric traction motor	WNM 3.3 kW 3-phase AC asynchronous
Smart charger	GPD High Frequency 48 V / 60 A	Hydraulic pump motor	12.0 kW high-efficiency AC electric motor
Charging input	110 V / 220 V AC single / split phase	Control voltage	12 V DC

02 LIFTING SYSTEM & PLATFORM

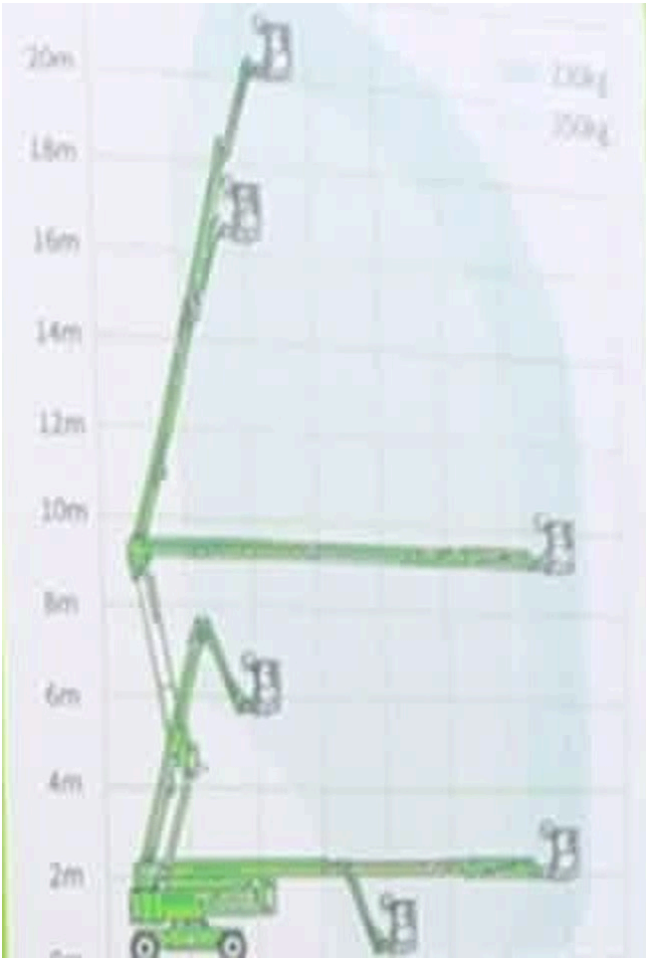
Boom type	Articulated with articulating jib	Rated load capacity	300 kg
Max. working height	20.50 m	Platform occupancy	3 persons + tools
Max. platform height	18.50 m	Platform rotation	±80° (160° total)
Max. horizontal outreach	13.20 m	Jib rotation	±70° (140° total)
Platform dimensions (L × W)	1.80 × 0.76 m	Turret rotation	360° continuous
Guardrail height	1.10 m	Basket levelling	Automatic electro-hydraulic (±1.5°)

03 DRIVE, STEERING & OEM COMPONENTS

Drive / steer mode	4WD with dual turning steering	Electronic controller	Curtis (USA) CAN-bus
Speed — stowed	4.80 km/h	Main hydraulic pump	CRH High Pressure Gear Pump
Speed — elevated	0.80 – 1.10 km/h (hare/tortoise switch)	Valve block	SANT (HydraForce USA) / Rexroth System
Gradeability	45 %	Wheel reducers	Infinity Heavy Duty
Max. working tilt angle	3.0° (alarm and safety cut-out)	Standard tyres	Topower solid off-road 33×12-20
Outside turning radius	5.00 m	Operating weight	8 520 kg

04 TRANSPORT DIMENSIONS

Length (stowed)	9.80 m	Ground clearance (centre)	0.30 m (300 mm)
Width (stowed)	2.49 m	Basket dimensions (L × W × H)	1.80 × 0.76 × 1.10 m
Height (stowed)	2.26 m	Machine weight	8 520 kg
Wheelbase	2.50 m		



WORKING RANGE ENVELOPE · 300 KG UNRESTRICTED
CAPACITY

Max. working height	20.50 m
Max. platform height	18.50 m
Max. horizontal outreach	13.20 m
Capacity across envelope	300 kg unrestricted
Turret rotation	360° continuous
Jib rotation	140° (±70°)
Platform rotation	160° (±80°)

STANDARD EQUIPMENT

- ✓ Deep-cycle 48V / 500Ah (24 kWh) LiFePO4 lithium battery pack and GPD 48V / 60A smart charger
- ✓ 4WD drive with dual turning steering for agile tight-space maneuvering
- ✓ Curtis (USA) electronic controller with CAN-bus architecture and fault diagnostics
- ✓ Dual control consoles with proportional joysticks and hare / tortoise speed selector
- ✓ Dead-man foot switch and emergency stop push-buttons on platform and chassis
- ✓ Load-sensing device with audible/visual alarm and overload lift cut-out (>300 kg)
- ✓ Automatic electro-hydraulic basket levelling ($\pm 1.5^\circ$)
- ✓ 3.0° tilt sensor with audible alarm and travel restriction
- ✓ Ground-accessible manual gravity emergency lowering system
- ✓ Counterbalance check valves integrated directly into all hydraulic cylinders
- ✓ Certified safety harness anchor points to EN 795 and solid 33×12-20 off-road tyres

OPTIONAL EQUIPMENT · On request

- Non-marking solid tyres for polished floors and indoor epoxy surfaces
- AC power outlet (110 V / 220 V) wired to platform with circuit breaker
- Compressed air line routed to the basket
- High-intensity LED work light mounted on basket
- Waterproof protective cover for upper control console

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