ZHEJIANG DINGLI MACHINERY CO., LTD.

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AC⁺ Scissor Lifts Product Manuals







Zhejiang Dingli Machinery Co., Ltd. was founded in 2005. For a long time, we have been a leading manufacturer of intelligent aerial work platforms in the world. We have adopted the core concepts of "Carbon Peak" and "Carbon Neutral" into the entire process of corporate governance, including green travel for employees, green park construction, green manufacturing, green R&D of product, green recycling and remanufacturing, atc.

Relying on the intelligent factory with the highest degree of automation in the industry, we have fully realized collaborative manufacturing, green manufacturing and safe manufacturing.

Technological innovation is the core tenet of Dingli, and our goal is to minimize unnecessary waste of resources through technological iteration. We have R&D centers in Italy and Germany, an Enterprise Research Institute in China. We have been granted 259 patents, including 95 invention patents and 62 international patents. We have independently developed more than 200 types of aerial work platforms that are the most in the industry, all of which have passed authoritative certifications such as CE in Europe and ANSI in the US, and are exported to over 80 countries and regions worldwide.

lelectrification is an important measure for the company to provide customers with energy-saving solutions, and we are the first in the industry to complete the electrification of our full range of products. By promoting the efficient use of recycled energy, we have established remanufacturing

plants to continuously provide customers with product life cycle services.

In order to better convey the concept of global green development, we have invested in MAGNI (Italy), MEC (USA) and TEUPEN (Germany), and we have successively established more than ten overseas subsidiaries with innovative technology and green products as the entry point, so that our electric aerial work platforms can serve global customers.

We are also committed to building an equal, diverse and inclusive corporate environment. We actively empower women to achieve gender diversity in all positions in the male-dominated machinery manufacturing industry; we respect different voices so that team building can maintain innovation and flexibility for a long time; We boost the development of the industry and create a new era of electrification of "non-road mobile machinery" to lead green transformation; we build a harmonious supply chain, connect upstream and downstream to create the world's only industrial park for aerial work platforms; We fulfill social responsibilities, establish the "HongDing Fund", and actively carry out warm-hearted volunteer service activities such as poverty relief, fundraising and disaster relief, etc.

Green sustainability" is becoming the focus of Dingli's high-quality development through the entire life cycle of the company's ecology. In the future, the company will continue to deepen the green energy-saving strategy and contribute to the sustainable development of the common home.

PAGE 01

Comprehensive Upgrade Twelve Benefits

Performance+

Industry Leading Platform Capacity



For load capacity, maximum increase up to 40% compared to the original model (load capacity varies by model height).

2 Side and Rear Forklift Pockets



Through the optimization of load distribution and the improvement of the stability and safety for loading & unloading, the transition efficiency is greatly increased.

3 Lithium-lon Battery with Long Duty Cycle and Fast Recharging



The Energy density of LFP battery pack is comprehensively improved, combined with energy-efficient power system, offering long endurance that exceeds the traditional highcapacity lithium batteries, at the same time, it effectively reduces battery capacity and saves the future battery replacement and maintenance costs. The modular replaceable design makes it free to switch lead-acid / lithium-ion power.

4 High Strength Damage Resistant Tyres Compound



PAGE 03

Newly upgraded compound formulation with a 100% increase in tear and cut resistance. Innovative tread and profile, combined with upgraded compounds, increases the tire's grounding area, making the stress distribution in the contact surface more even, lowering the unit pressure in the grounding area and increasing the overall wear resistance by 30%.

The rolling resistance is reduced by 6% to effectively control the energy loss during driving, better in energy-saving.

Reliability+

Integrated Four-in-One Motor Controller



Integrated ECU / dual drive motor control / pump motor control / tilt control.

35% increase in power density: Optimized circuit layout and improved component performance result in a significant increase in output power for the same volume

40% reduction in parts costs: Reducing the quantity of hardware such as discrete devices and supporting harnesses, connectors, etc.

6 New Platform Control Box



With advanced material technology, the service life of the silicone buttons is improved to 1 million times of trouble-free operations, and the antifouling performance of the silicone button panel is 50% higher.

Equipped with a new high-resolution dot matrix display, 350% increase in the visual range, significantly widening the viewing angle coverage; the actual visual area of the display is increased by 270%, making it easier to obtain real-time

feedback of data to improve work efficiency and operational accuracy.

Reliable Load Sensing System



Safety is increased by 100% and limit switches are

Real-time cross-validation of each sensor's data effectively prevents misoperation caused by erroneous signals, largely increasing the system's

Direct and precise detection of loads with 20% higher overload accuracy

Precise control and safety: Real-time, accurate monitoring of load changes to prevent overloading and ensure that equipment will not be damaged or cause safety accidents due to excessive loads. High stability: Compared to traditional hydraulic weighing, it is more stable without the influence of

8 Hydraulic Oil Leak Containment

Environment+



Standard option of leakage receiving device, greatly reducing hydraulic fluid contamination.

Three-Year Comprehensive Warranty



9 Electric Actuator Steering System



Integrated steering drive module with torque / speed / length / overload protection up to IP69K, millisecond response time, ±1mm positioning accuracy, 15% increase in steering speed and 66% reduction in energy consumption.

Compared with traditional hydraulic steering, electric actuator steering is more efficient without influence by high and low temperatures.

10 Gravity Down Energy Recovery System



Storing self-weight potential energy through synchronous reluctance motors and re-supplying power support when the load rises or additional energy is needed, increasing the overall efficiency of the system by 20%

During self-weight descending, the hydraulic oil from cylinder will drive the gear pump, and then drive the motor, the motor will charge the battery, so that the overall energy utilization of the system is improved

11 Highest Efficiency Electric Drive System



High efficiency: With a wide speed range, the motor keeps running in high performance zone. High reliability: There is no risk of electrical failure caused by damage to the rotor winding insulation.

Energy saving: The overall efficiency can be significantly improved under the same power output.

Environmentally friendly: Not rely on expensive and resource-limited rare earth materials.

reducing the dependence on rare resources.

The driving capacity is increased by 15%, the rated current is reduced by 25%, and the power density is increased by 45%.

12 Highest Efficiency Electric Lift Pump System



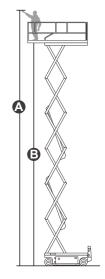
The integrated pump station integrates motor, pump body, valve group, fuel tank, which reduces hydraulic components by 50% to eliminate as much hydraulic oil seepage problems as possible.

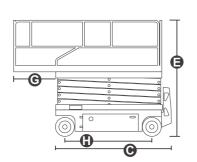
Through precise matching and intelligent control. the reliability and lifting capacity of the entire system is further improved. The lifting capacity is increased by 25%, the starting current is reduced by 20%, and the power density is increased by 32%.

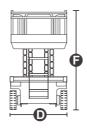
ambient temperature.









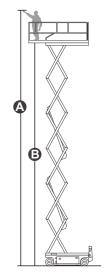


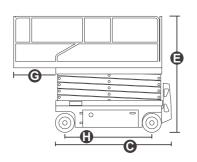


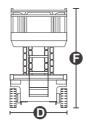
Model	S1614AC⁺	S1612AC⁺	
Dimension			
Max. Working Height(Indoor)	15.70m 51ft 6in	15.70m 51ft 6in	
Max. Platform Height(Indoor)	13.70m 44ft 11in	13.70m 44ft 11in	
Overall Length ©	2.84m 9ft 4in	2.84m 9ft 4in	
Overall Width ①	1.39m 4ft 7in	1.25m 4ft 1in	
Overall Height(Rails Up)	2.62m 8ft 7in	2.62m 8ft 7in	
Overall Height(Rails Down)	2.09m 6ft 10in	2.09m 6ft 10in	
Platform Size(Length ×Width)	2.64m×1.12m 8ft 8in×3ft 8in	2.64m×1.12m 8ft 8in×3ft 8in	
Platform Extension Size ©	0.90m 2ft 11in	0.90m 2ft 11in	
Ground Clearance(Stowed/Raised)	0.10m/0.019m 4in/1in	0.10m/0.019m 4in/1in	
Wheelbase (1)	2.24m 7ft 4in	2.24m 7ft 4in	
Turning Radius(Inside/Outside)	0m/2.70m 0in/8ft 10in	0m/2.65m 0in/8ft 8in	
Tyres	Ф381×127mm	Ф381×127mm	
Performance			
S.W.L	350kg 772lb	350kg 772lb	
S.W.L on Extension	136kg 300lb	136kg 299lb	
Max. Occupants (Indoor/Outdoor)	2/0	2/0	
Gradeability	25%	25%	
Travel Speed(Stowed)	6.0km/h 3.73mph	6.0km/h 3.73mph	
Travel Speed(Raised)	0.8km/h 0.50mph	0.8km/h 0.50mph	
Max. Working Slope	1.5°/3°	1.5°/3°	
Up/Down Speed	65/66sec	68/68sec	
Weight			
Overall Weight	3500kg 7716lb	3390kg 7474lb	
Power			
Hydraulic Tank	20L 5.3gal	20L 5.3gal	
Lithium Battery	28.8V/150AH	28.8V/150AH	
Charger	28V/30A	28V/30A	
Driving Motor	2×15VAC/0.87kW	2×15VAC/0.87kW	
Lifting Motor	15VAC/3.42kW	15VAC/3.42kW	
Optional Items			
Max. Working Height(Outdoor)	11.00m 36ft 1in	9.00m 29ft 6in	
Max. Platform Height(Outdoor)	9.00m 29ft 6in	7.00m 23ft	
Max. Occupants (Indoor/Outdoor)	2/1	2/1	
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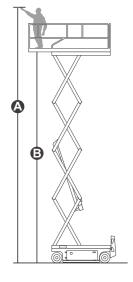


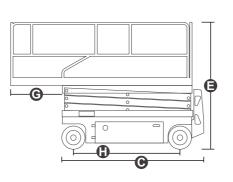


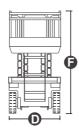
Model	S1412AC⁺	S1212AC⁺	
Dimension			
Max. Working Height(Indoor)	13.80m 45ft 3in	12.00m 39ft 4in	
Max. Platform Height(Indoor)	11.80m 38ft 9in	10.00m 32ft 10in	
Overall Length ©	2.48m 8ft 2in	2.48m 8ft 2in	
Overall Width ①	1.19m 3ft 11in	1.15m 3ft 9in	
Overall Height(Rails Up)	2.62m 8ft 7in	2.49m 8ft 2in	
Overall Height(Rails Down)	2.09m 6ft 10in	1.96m 6ft 5in	
Platform Size(Length ×Width)	2.27m×1.12m 7ft 5in×3ft 8in	2.27m×1.12m 7ft 5in×3ft 8in	
Platform Extension Size G	0.90m 2ft 11in	0.90m 2ft 11in	
Ground Clearance(Stowed/Raised)	0.10m/0.019m 4in/1in	0.10m/0.019m 4in/1in	
Wheelbase (1.87m 6ft 2in	1.87m 6ft 2in	
Turning Radius(Inside/Outside)	0m/2.10m 0in/6ft 11in	0m/2.10m 0in/6ft 11in	
Tyres	Ф381×127mm	Ф381×127mm	
Performance			
S.W.L	350kg 772lb	350kg 772lb	
S.W.L on Extension	113kg 249lb	113kg 249lb	
Max. Occupants (Indoor/Outdoor)	3/0	2/1	
Gradeability	25%	25%	
Travel Speed(Stowed)	6.0km/h 3.73mph	6.0km/h 3.73mph	
Travel Speed(Raised)	0.8km/h 0.50mph	0.8km/h 0.50mph	
Max. Working Slope	1.5°/3°	1.5°/3°	
Up/Down Speed	52/52sec	54/51sec	
Weight			
Overall Weight	3210kg 7077lb	3060kg 6746lb	
Power			
Hydraulic Tank	20L 5.3gal	20L 5.3gal	
Lithium Battery	28.8V/150AH	28.8V/150AH	
Charger	28V/30A	28V/30A	
Driving Motor	2×15VAC/0.87kW	2×15VAC/0.87kW	
Lifting Motor	15VAC/3.42kW	15VAC/3.42kW	
Optional Items			
Max. Working Height(Outdoor)	11.20m 36ft 9in	1	
Max. Platform Height(Outdoor)	9.20m 30ft 2in	1	
Max. Occupants (Indoor/Outdoor)	3/1	1	
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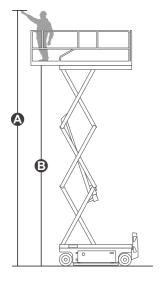


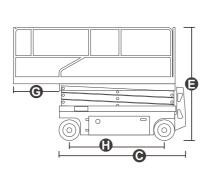


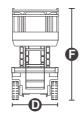
Model	S1012AC⁺	S1008AC ⁺	
Dimension			
Max. Working Height(Indoor)	10.00m 32ft 10in	10.00m 32ft 10in	
Max. Platform Height(Indoor)	8.00m 26ft 3in	8.00m 26ft 3in	
Overall Length ©	2.48m 8ft 2in	2.48m 8ft 2in	
Overall Width ①	1.15m 3ft 9in	0.83m 2ft 9in	
Overall Height(Rails Up)	2.36m 7ft 9in	2.36m 7ft 9in	
Overall Height(Rails Down)	1.83m 6ft	1.90m 6ft 3in	
Platform Size(Length ×Width)	2.27m×1.12m 7ft 5in×3ft 8in	2.27m×0.81m 7ft 5in×2ft 8in	
Platform Extension Size G	0.90m 2ft 11in	0.90m 2ft 11in	
Ground Clearance(Stowed/Raised)	0.10m/0.019m 4in/1in	0.10m/0.019m 4in/1in	
Wheelbase (1)	1.87m 6ft 2in	1.87m 6ft 2in	
Turning Radius(Inside/Outside)	0m/2.10m 0in/6ft 11in	0m/2.10m 0in/6ft 11in	
Tyres	Ф381×127mm	Ф381×127mm	
Performance			
S.W.L	450kg 992lb	250kg 551lb	
S.W.L on Extension	113kg 249lb	113kg 249lb	
Max. Occupants (Indoor/Outdoor)	2/2	2/0	
Gradeability	25%	25%	
Travel Speed(Stowed)	6.0km/h 3.73mph	6.0km/h 3.73mph	
Travel Speed(Raised)	0.8km/h 0.50mph	0.8km/h 0.50mph	
Max. Working Slope	1.5°/3°	1.5°/3°	
Up/Down Speed	33/35sec	32/34sec	
Weight			
Overall Weight	2750kg 6063lb	2230kg 4916lb	
Power			
Hydraulic Tank	20L 5.3gal	20L 5.3gal	
Lithium Battery	28.8V/150AH	28.8V/125AH	
Charger	28V/30A	28V/30A	
Driving Motor	2×15VAC/0.87kW	2×15VAC/0.87kW	
Lifting Motor	15VAC/3.42kW	15VAC/3.42kW	
Optional Items			
Max. Working Height(Outdoor)	I	8.10m 26ft 7in	
Max. Platform Height(Outdoor)	1	6.10m 20ft	
Max. Occupants (Indoor/Outdoor)	1	2/1	
			PAC









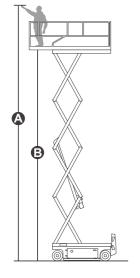


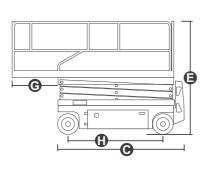


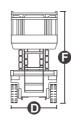
Model	S0808AC⁺	
Dimension		
Max. Working Height A	8.00m 26ft 3in	
Max. Platform Height (B)	6.00m 19ft 8in	
Overall Length (2.48m 8ft 2in	
Overall Width ①	0.83m 2ft 9in	
Overall Height(Rails Up)	2.23m 7ft 4in	
Overall Height(Rails Down)	1.77m 5ft 10in	
Platform Size(L×W)	2.27m×0.81m 7ft 5in×2ft 8in	
Platform Extension Size G	0.90m 2ft 11in	
Ground Clearance(Stowed/Raised)	0.10m/0.019m 4in/1in	
Wheelbase (1)	1.87m 6ft 2in	
Turning Radius(Inside/Outside)	0m/2.10m 0in/6ft 11in	
Tyres	Ф381×127mm	
Performance		
S.W.L	408kg 900lb	
S.W.L On Extension	113kg 249lb	
Max. Occupants	2/1	
Gradeability	25%	
Travel Speed(Stowed)	6.0km/h 3.73mph	
Travel Speed(Raised)	0.8km/h 0.50mph	
Max. Working Slope	1.5°/3°	
Up/Down Speed	30/43sec	
Weight		
Overall Weight	2160kg 4761lb	
Power		
Hydraulic Tank	20L 5.3gal	
Battery(Lithium Battery)	28.8V/125AH	
Charger	28V/30A	
Driving Motor	2×15VAC/0.87kW	
Lifting Motor	15VAC/3.42kW	













Model	S0807AC⁺	
Dimension		
Max. Working Height A	7.80m 25ft 7in	
Max. Platform Height (3)	5.80m 19ft	
Overall Length 6	1.86m 6ft 1in	
Overall Width ()	0.76m 2ft 6in	
Overall Height(Rails Up)	2.15m 7ft 1in	
Overall Height(Rails Down)	1.83m 6ft	
Platform Size(L×W)	1.67m×0.74m 5ft 6in×2ft 5in	
Platform Extension Size ©	0.90m 2ft 11in	
Ground Clearance(Stowed/Raised)	0.09m/0.016m 3in/1in	
Wheelbase (f)	1.36m 4ft 5in	
Turning Radius(Inside/Outside)	0m/1.64m 0in/5ft 5in	
Tyres	Ф323×100mm	
Performance		
S.W.L	250kg 551lb	
S.W.L On Extension	113kg 249lb	
Max. Occupants	2/1	
Gradeability	25%	
Travel Speed(Stowed)	5.5km/h 3.41mph	
Travel Speed(Raised)	0.6km/h 0.37mph	
Max. Working Slope	1.5°/3°	
Up/Down Speed	22/22sec	
Weight		
Overall Weight	1630kg 3594lb	
Power		
Hydraulic Tank	7L 1.7gal	
Battery(Lithium Battery)	28.8V/125AH	
Charger	28V/30A	
Driving Motor	2×15VAC/0.5kW	
Lifting Motor	15VAC/3kW	