

Dingli Boom Lifts Product Manuals



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WeChat

DINGLI[®]
Exceed · New Height



▲ Facility Three



▲ Facility One



▲ Facility Two

Zhejiang Dingli Machinery Co., Ltd. was founded in 2005, headquartered in Deqing, Zhejiang. It is dedicated to developing, manufacturing, selling and servicing various high end aerial working platforms. Dingli is known for its advanced technology, top grade equipped facilities and fast company growth. We are also one of the leading aerial working platform manufacturers in China and the A-share Listed Companies in Shanghai Stock Exchange (Stock code: 603338).The company covers an area of nearly 700 acres, with a building area of 350,000 square meters.

To develop enterprises, we must first rely on science and technology. Zhejiang Dingli has assembled a team of engineers and talented professionals, and co-founded a R&D center in Europe and a provincial level developmental institute. We acquired more than 240 patents over time, including more than 90 invention patents and more than 40 overseas patents 5 computer software copyright registration certificates, which is the national standard and industry standard setting unit.

Using its intelligent manufacturing equipments, we built more than 80 specifications of aerial working platforms. Our products are widely utilized in construction, commercial and industrial purposes. Our products have realized specialization, intelligentization, serialization and branding development. Our products are also certified by CE standards in Europe, ANSI standards in the U.S., AS/NZS1418 standards in Australia, CU-TR standards in Russia, KC standards in South Korea. Our products are exported to more than 80 countries and regions including the United States, Germany, Japan and other high-end markets.

Zhejiang Dingli actively practices green development and develops a zero-emission, noiseless and pollution-free pure electric boom lifts series. The quality guarantee period of boom series is increased to 2 years, and the quality guarantee period of AC drive scissor lifts is increased to 3 years. Through the establishment of remanufacturing factory, it advocates recycling energy saving and high efficient utilization.

"Dingli, based in China and embraces the world". Zhejiang Dingli was recognized as the National Key Supported High-Tech Enterprise, Patent Demonstration Enterprise and Standard Innovation Enterprise. It was received the international award for "IPAF-2018 Powered Access Pioneer ". Acquired World Top10 Access Equipment Manufacturer. The "Dingli" trademark has been awarded the title of "China Famous Brand". And Mr. Xu Shugen, president of the board, was recognized as one of the Top 100 Most Influential Individuals in National Engineer and Machinery Industry for many years.

Zhejiang Dingli established a domestically financed leasing pilot enterprise---Shanghai Dingce Leasing Co., Ltd., in Shanghai Free Trade Zone, and invested in Magni, a global leading enterprise for intelligent flexible arm fork loading, and American CMEC. Through overseas market layout and technology globalization, the company has effectively improved brand value and expanded sales channels.

Zhejiang Dingli is down-to-earth and charging forward, with the promotion of the national "the Belt and Road" measures, Zhejiang Dingli is relying on scientific and technological research and development, guaranteed by innovative products, and based on passionate services to continuously improve core competitiveness and achieve new leap-forward.



Dingli Self-propelled Boom Lifts Are Divided Into Telescopic Boom Lifts And Articulating Boom Lifts, With Two Types Driving Mode Of **Electric Drive** And **Engine Drive**. There Are 14 Models In The Whole Series, Including 10 Telescopic Boom Lifts And 4 Articulating Boom Lifts, With Working Heights Ranging From 24.3m To 30.3m. The Whole Series Is Jointly Developed By Dingli And Italian Research And Development(R&D) Center, With Completely Independent Intellectual Property Rights.

The Whole Series Of Boom Lifts' Counterweight And Center Of Gravity Move Down, Adopts The Whole Components To Move Down Design, Inherits The Family Modular Concept, Relies On The Performance Guarantee Of A Series Of High-end Configuration Such As American DANA Spicer Axle, Germany Bosch Rexroth High Pressure Driveline System And Danish Danfoss PVG Hydraulic Control System, Which Are The World's Leading Technology. They Have Many Advantages Such As Heavy Load, Strong Power, High Chassis, Easy Maintenance, Easy Transportation, Stable Control, Safer, **High Energy Saving**, **Great Endurance Ability**, **More Environmentally Friendly**, Etc., And Can Be Competent For All Kinds Of Complex And Severe Limit Working Conditions!



Heavy Load
The Whole Series Of Telescopic Boom Lifts Max. Load 454kg (FULL Height Travel), Articulating Boom Lifts Max. Load 300kg (FULL Height Travel), The Load Capacity Is Greater.



High Chassis
The Whole Series Is Equipped With Large Wheel Hub, Tire Diameter Of 108cm, Chassis Clearance Of 41cm, Compared With The Traditional Boom Lifts, Better Passability.



Strong Power
Equipped With A Special Axle For Aerial Working Platforms, It Can Meet The Requirements Of 4WD, And The Gradeability Is Up To 45% (Engine Type); Equipped With 100% Hydraulic Differential Lock System, Even If Three Wheels Slip, Start Differential Lock System Can Still Go Forward, Rough-terrain Performance Is Stronger.



Great Endurance Ability
The Electric Type Whole Series Is Equipped With 520Ah/80V High-capacity Lithium Battery, With Greater Endurance Ability.



Easy Maintenance
The Whole Series Adopts The Family Modular Design, 90% Main Components Are Common, More Than 95% Structural Parts Are Common. Only Need To Repair 1 Model, The Whole Series Of Models Are Covered; Only Need To Purchase 1 Set Of Components, The Whole Series Of Models Are All Universal. **The Electric Model Is Equipped With A Five-year Warranty Without Maintenance Lithium Battery, Which Greatly Reduces The Cost Of Engine Maintenance And Diesel Addition.**



Stable Control
The Whole Series Adopt The Whole Component To Move Down Design, The Center Of Gravity Is Lowered, Cooperate With The Special Intelligent Control System, Making The Whole Machine More Stable, The Operation Is More Stable.



Easy Transportation
The Whole Series Not Only Can Be Transported By Basic Flatbed Truck, But Also Can Be Shipped In Regular Container (40HQ).



High Energy Saving
The Engine Type Is Equipped With ECO Green Energy Saving System, Which Can Control Engine Speed Intelligently, Supply Oil On Demand, Heat Dissipation According To Temperature, And Save Energy.



More environmentally friendly
The Full Range Of Electric Models Are Equipped With Dedicated Electric Drive Axles, Using Batteries As The Power Source, With Low Noise, Zero Emissions, No Pollution, And More Environmentally Friendly.



Safer
The Whole Series Is Equipped With The Dual Sensing System, Intelligent Anti-extrusion System, Intelligent Safety Valve Protection System, Etc. Which Is More Secure. The Boom Uses Q960 Special Steel, The Safety Is Higher. The Maintenance- Free Lithium Battery Of The Electric Type Is Equipped With BMS Battery Management System To Ensure The Equipment Electricity Safety.



The Gradeability Up To 45%



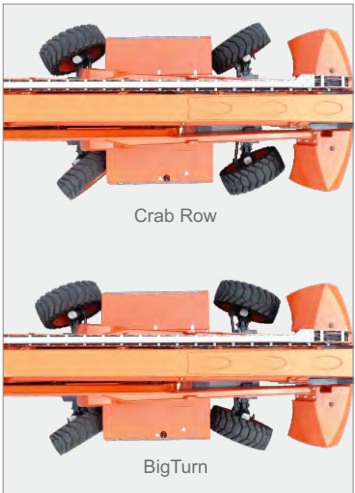
100% Hydraulic Differential Lock System
Three Wheels Slip, Can Still Go Forward



Anti-extrusion Device



High-capacity Lithium Battery Pack



Multiple Steering Modes



Telescopic Boom Lifts(Electric&Engine)

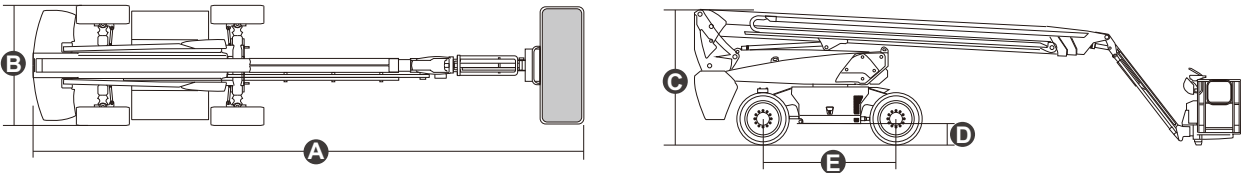
Telescopic Boom Lifts Have 14 Types, 7 **Electric Types** And 7 **Engine Types**, The Maximum Working Height Is From 24.8 Meters To 30.3 Meters, And The Maximum Load Is 454kg. Equipped With A Special Axle For Aerial Working Platforms, And Adopting 4WD And 4WS, More Flexible Walking, Stronger Off-road Capability, And More Capable Of Complex And Severe Working Conditions. Among Them, Models With Jibs Have A Wider Working Range And More Flexibility In Narrow Spaces. All Of Them Can Be Transported In Containers.



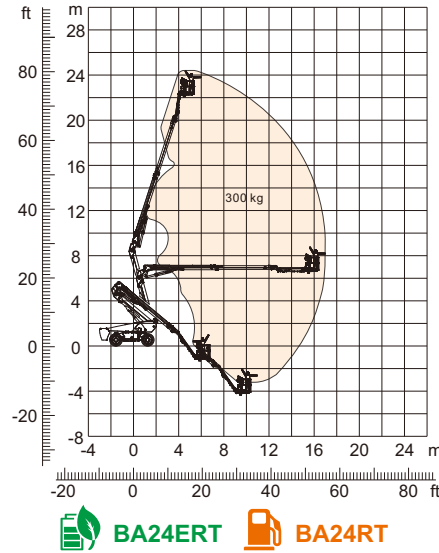
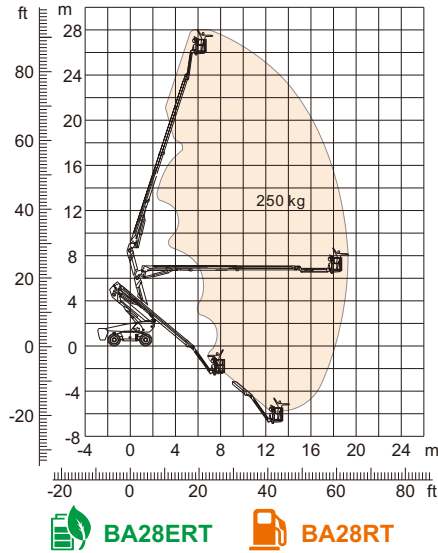
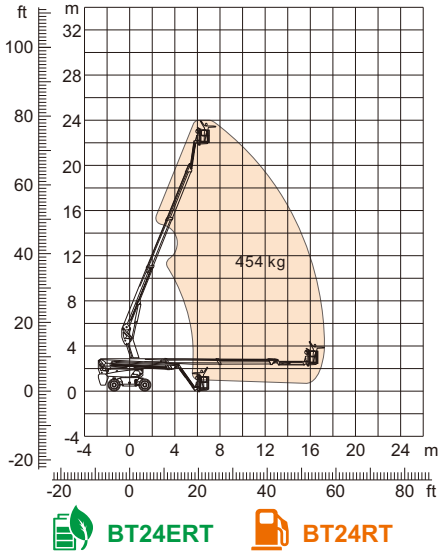
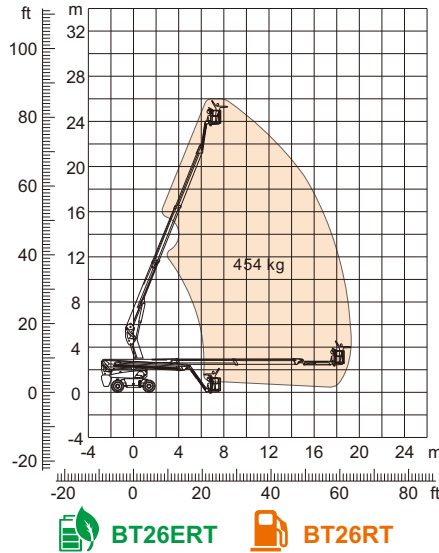
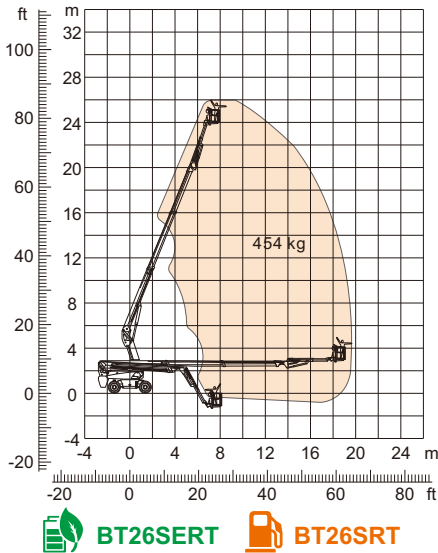
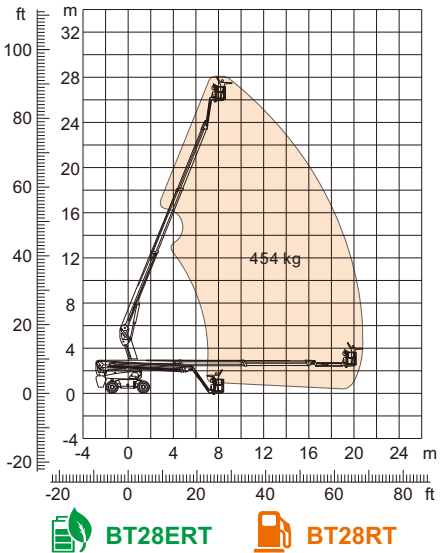
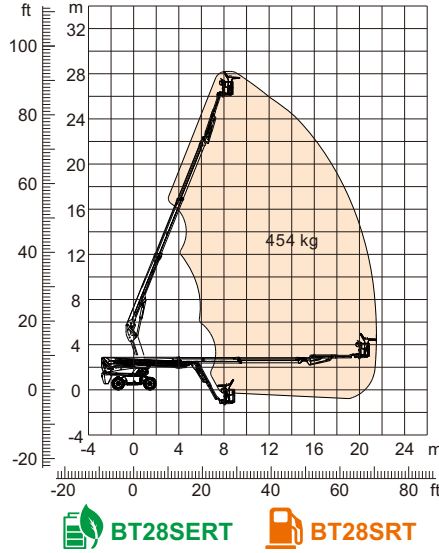
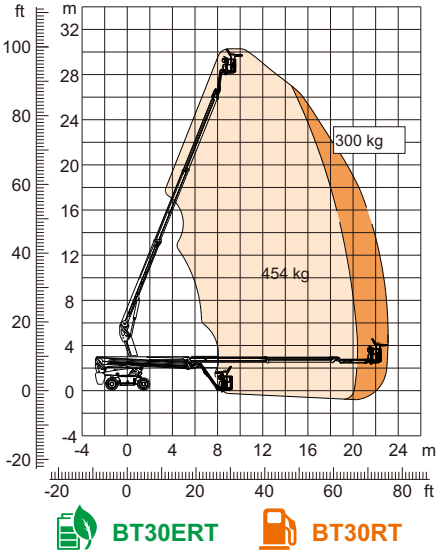
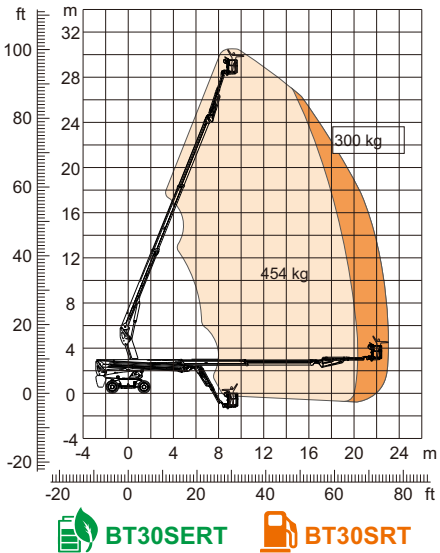
Articulating Boom Lifts(Electric&Engine)

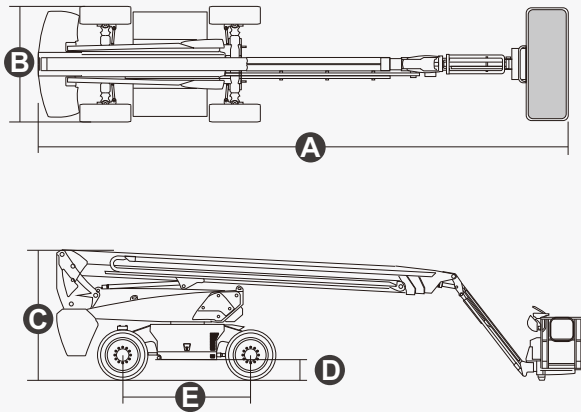
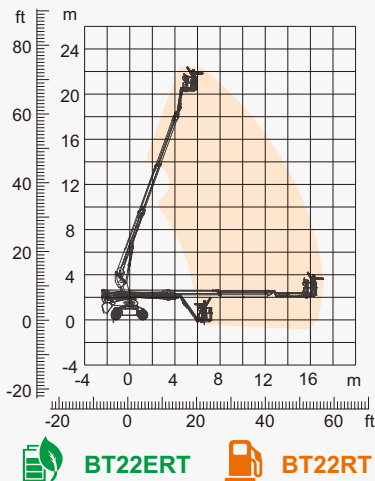
Articulating Boom Lifts Have 4 Types, 2 **Electric Types** And 2 **Engine Types**. The Maximum Working Height Is From 24.3 Meters To 28.1 Meters, And The Maximum Load Is 300kg. Equipped With A Special Axle For Aerial Working Platforms, And Adopting 4WD And 4WS, Stronger Off-road Capability, More Capable Of Complex And Severe Working Conditions And Need To Span The Work Place. Adopting The Multi-stage Articulating Boom Combination Design, Which Can More Easily Meet The Requirements Of Large Spanning Operation. All Of Them Can Be Transported In Containers.

Model	=Electric									
	BT30SERT	BT30ERT	BT28SERT	BT28ERT	BT26SERT	BT26ERT	BT24ERT	BA28ERT	BA24ERT	
Type	Telescopic Boom Lifts							Articulating Boom Lifts		
Size										
Max. Working Height	30.30m	30.20m	28.10m	28.60m	26.70m	26.30m	24.80m	28.10m	24.30m	
Max. Platform Height	28.30m	28.20m	26.10m	26.60m	24.70m	24.30m	22.80m	26.10m	22.30m	
Max. Horizontal Reach(+0.6m)	23.00m	23.00m	21.40m	21.90m	19.80m	19.50m	17.90m	19.40m	17.10m	
Overall Length(Stowed) A	12.25m	12.30m	11.40m	11.66m	10.83m	10.82m	10.25m	11.83m	9.83m	
Overall Length(Transport)	11.96m	12.00m	11.79m	11.82m	11.12m	10.77m	10.81m	12.03m	10.03m	
Overall Width(Stowed) B					2.50m					
Overall Width(Transport)					2.28m					
Overall Height(Stowed) C					2.89m					
Overall Height(Transport)					2.60m					
Platform Size(Length×Width)					2.44m×0.9m					
Turntable Tailswing					1.61m					
Ground Clearance D					0.41m					
Wheelbase E					2.8m					
Turning Radius(Inside/Outside)					1.87m/3.22m					
Tyres					385/45-28					
Up And Over Clearance								9.14m		
Max. Down Probing Depth								6.61m	4.03m	
Performance										
S.W.L(Unrestricted/Restricted)	300kg/454kg		454kg					250kg	300kg	
Max. Occupants	3							2		
Gradeability	30%				45%					
Travel Speed(Stowed)					6km/h					
Travel Speed(Raised)					1.1km/h					
Max. Working Slope					X-5°/Y-5°					
Turret Rotation					360°Continuous					
Platform Rotation					180°					
Jib Movement	130°	135°	130°	135°	130°	135°				
Weight										
Overall Weight	18900kg		17900kg	18400kg	16800kg	16090kg	14300kg	18400kg	17200kg	
Power										
Lithium Battery	520Ah/80V				420Ah/80V	Optional:520Ah/80V		520Ah/80V	420Ah/80V	
Charger					80V/80A					
Diesel Engine					Deutz TD2.9 L4 55.4kW					
Engine Power					135L					
Hydraulic Tank					165L					



*The above battery capacity is the nominal value, and the actual battery capacity of the machine shall prevail





BT22ERT

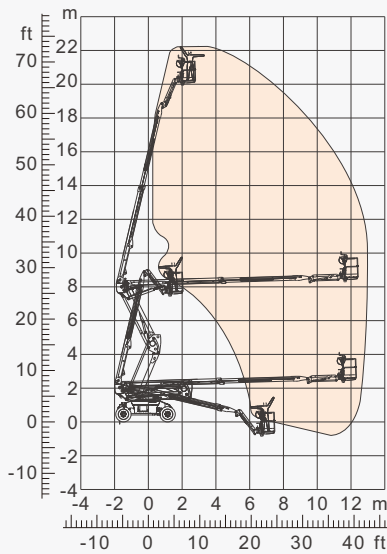
BT22RT

Model	BT22ERT	BT22RT
Size		
Max. Working Height	22.51m	
Max. Platform Height	20.51m	
Max. Horizontal Reach(+0.6m)	16.68m	
Overall Length(Stowed) A	10.16m	
Overall Width(Stowed) B	2.5m	
Overall Width(Transport)	2.28m	
Overall Height(Stowed) C	2.65m	
Overall Height(Transport)	2.46m	
Platform Size(Length×Width)	2.44m×0.90m	
Turntable Tailswing	1.19m	
Ground Clearance D	0.28m	
Wheelbase E	2.4m	
Turning Radius(Inside/Outside)	1.65m/2.62m	
Tyres	315/55D-20	
Performance		
S.W.L	454kg	
Max. Occupants	3	
Gradeability	30%	45%
Travel Speed(Stowed)	6km/h	
Travel Speed(Raised)	1.1km/h	
Max. Working Slope	X-5°, Y-5°	
Turret Rotation	360°Continuous	
Platform Rotation	180°	
Jib Movement	135°	
Weight		
Overall Weight	13200kg	
Power		
Lithium Battery	80V/420Ah	/
Charger	80V/80A	/
Hydraulic Oil Tank	165L	
Hydraulic Tank	/	Deutz D2.9 L4 36.4kW
Diesel Engine	/	135L

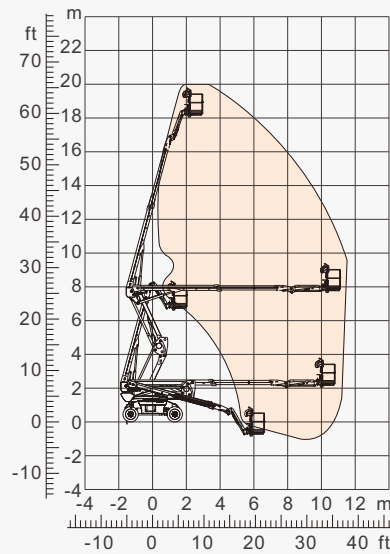


Self-propelled Articulating Boom Lifts(Electric Axle Types)

The Maximum Working Height Is From 20.28 Meters To 22.21 Meters, And The Maximum Load Is 230kg. Equipped With A Special Axle For Aerial Working Platforms, And Adopting 4WD And 4WS, Stronger Off-road Capability, With The Advantages Of Noiseless, Long Endurance Ability, Easy Maintenance, Strong Power, Environmental Protection. In Addition To The Working Conditions Of The Engine Type, It Can Also Be Competent For Indoor Working Conditions Such As Residential Areas, Airports And Shopping Malls With Higher Environmental Requirements.

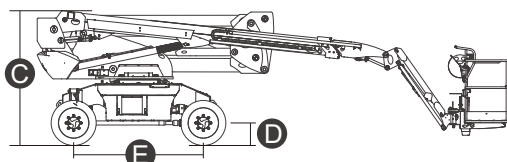
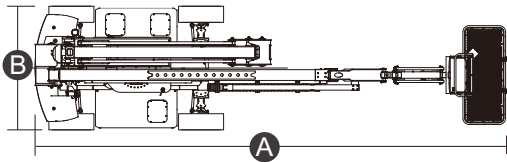


BA22ERT



BA20ERT

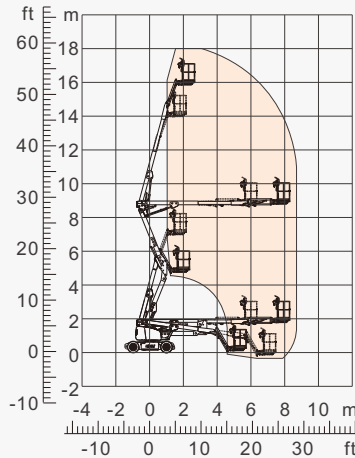
Model	BA22ERT	BA20ERT
Size		
Max. Working Height	22.21m	20.28m
Max. Platform Height	20.21m	18.28m
Max. Horizontal Reach(+0.6m)	12.72m	10.69m
Overall Length(Stowed) A	9.55m	8.72m
Overall Width(Stowed) B	2.29m	2.29m
Overall Height(Stowed) C	2.49m	2.49m
Platform Size(Length×Width)	1.83m×0.79m	1.83m×0.79m
Turntable Tailswing	0.93m	0.73m
Ground Clearance D	0.279m	0.279m
Wheelbase E	2.4m	2.4m
Turning Radius(Inside/Outside)	1.56m/2.57m	1.56m/2.57m
Tyres	315/55 D20	315/55 D20
Up and Over Clearance	8.13m	7.7m
Max. Down Probing Depth	1.77m	1.263m
Performance		
Gradeability	30%	
S.W.L	230kg	
Max. Occupants	2	
Travel Speed(Stowed)	6.1km/h	
Travel Speed(Raised)	1.1km/h	
Max.Working Slope	X-5°/Y-5°	
Turret Rotation	360 °Continuous	
Platform Rotation	+/-90°	
Jib Movement	+70°/-60°	
Weight		
Overall Weight	10100kg	9590kg
Power		
Battery	24×2V/375Ah	
Charger	48V/60A	
Hydraulic Oil Tank	67L	



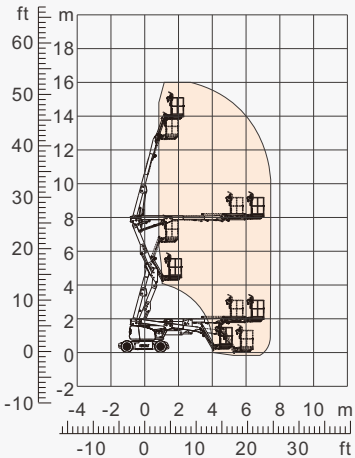


Self-propelled Articulating Boom Lifts(Electric Types)

The Maximum Working Height Covers 16.3-18m, The Maximum Load Is 230kg, The Battery Is The Power Source, With Zero Emission, Noiseless, More Environmental Protection, Strong Spanning Ability And Other Advantages, Suitable For Places With Higher Requirements On The Environment.

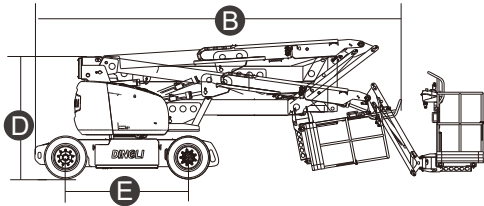
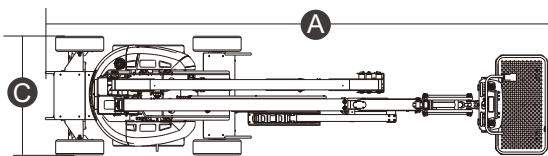


GTBZ18AE



GTBZ16AE

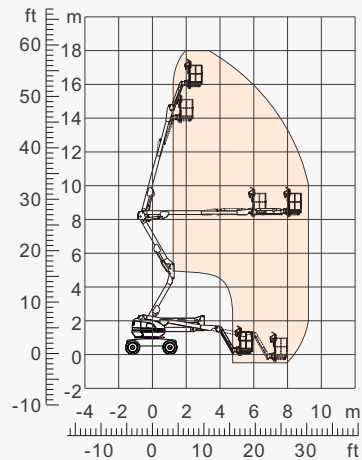
Model	GTBZ18AE	GTBZ16AE
Size		
Max. Working Height	18.00m	16.30m
Max. Platform Height	16.00m	14.30m
Max. Horizontal Reach(+0.6m)	8.30m	7.15m
Up and Over Clearance	8.90m	7.89m
Overall Length(Stowed) A	7.21m	6.77m
Overall Length(Transport) B	6.10m	5.15m
Overall Width(Stowed) C	1.73m	
Overall Height(Stowed) D	2.00m	
Platform Size(Length×Width)	1.45m×0.76m	
Turntable Tailswing	0	
Ground Clearance	0.20m	
Wheelbase E	2.00m	
Turning Radius(Inside/Outside)	2.08m/3.30m	
Tyres	17.5×6.75	
Performance		
S.W.L	230kg	
Max. Occupants	2	
Gradeability	25%	30%
Travel Speed(Stowed)	6.1km/h	
Travel Speed(Raised)	1.1km/h	
Max.Working Slope	X-3°/Y-3°	
Turret Rotation	360 ° Discontinuity	
Platform Rotation	180°	
Jib Movement	+70°/-60°	
Weight		
Overall Weight	7420kg	6700kg
Power		
Battery	48V/300Ah	
Charger	48V/35A	
Hydraulic Oil Tank	30L	



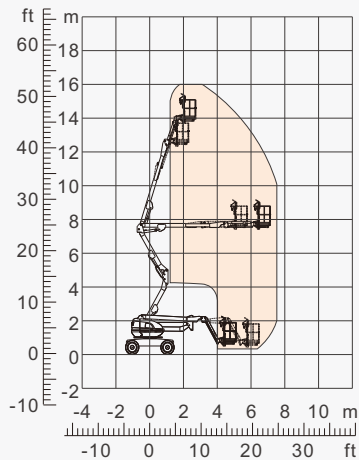


Self-propelled Articulating Boom Lifts(Engine Types)

The Maximum Working Height Covers 16-18m And The Maximum Load Is 230kg. As The Power Source, The Diesel Engine Has The Advantages Of Strong Power, Flexible Operation, Safe And Reliable Operation, Strong Spanning Ability And So On. It Is Suitable For The Working Place With Poor Environment.

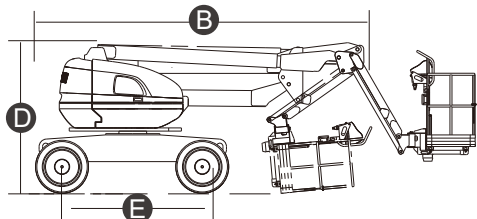
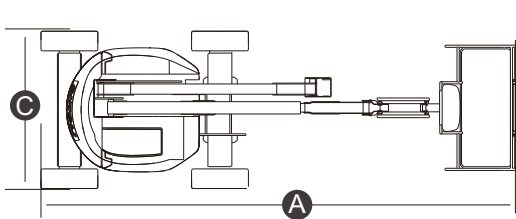


GTBZ18A



GTBZ16A

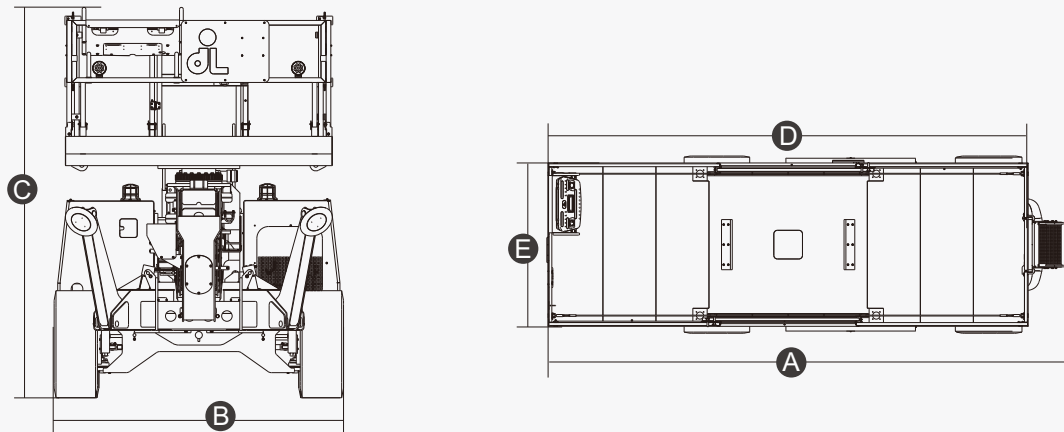
Model	GTBZ18A	GTBZ16A
Size		
Max. Working Height	18.00m	16.00m
Max. Platform Height	16.00m	14.00m
Max. Horizontal Reach(+0.6m)	8.85m	7.47m
Up and Over Clearance	8.45m	7.67m
Overall Length(Stowed) A	7.59m	6.94m
Overall Length(Transport) B	5.80m	5.15m
Overall Width(Stowed) C	2.30m	
Overall Height(Stowed) D	2.48m	
Platform Size(Length×Width)	1.80m×0.76m	
Turntable Tailswing	0	
Ground Clearance	0.30m	
Wheelbase E	2.20m	
Turning Radius(Inside/Outside)	2.85m/3.46m	
Tyres	33×12-20	
Performance		
S.W.L	230kg	
Max. Occupants	2	
Gradeability	40%	
Travel Speed(Stowed)	6.1km/h	
Travel Speed(Raised)	1.1km/h	
Max.Working Slope	X-5°/Y-5°	
Turret Rotation	360 ° Continuous	
Platform Rotation	160°	
Jib Movement	+70°/-60°	
Weight		
Overall Weight	7835kg	7430kg
Power		
Diesel Engine	Kubota V2403 35kW	
Hydraulic Oil Tank	184L	





Self-propelled Telescopic Boom Lifts(Engine Axle Types)

The Maximum Working Height Is From 15.6 Meters To 20.3 Meters, And The Maximum Load Is 18000kg. Equipped With A Special Axle For Aerial Working Platforms, And Adopting 4WD And 4WS, Stronger Off-road Capability, It Is Standard With A 6.7m×2.24m Super-large Working Platform, Which Can Move Back And Forth 2.19m And Turn Around 180°. It Has A Wide Operating Range And Can Meet The Requirements Of Multiple People Working At The Same Time. It Is Widely Applicable To The Construction Of Culverts, Viaducts, Steel Structure Plants, Curtain Walls, Subway Stations And Other Working Conditions.



Model	GTBZ20SU	GTBZ16SU
Size		
Max. Working Height	20.30m	15.60m
Max. Platform Height	18.30m	13.60m
Max. Front Outreach(Outriggers Extension)	11.70m	8.46m
Max. Rear Outreach(Outriggers Extension)	4.09m	4.66m
Max. Platform Slide	2.19m	1.51m
Overall Length A	7.68m	7.348m
Overall Width(Stowed) B	2.46m	2.50m
Overall Width(Transport)	2.30m	2.31m
Overall Height(Rails Up) C	3.80m	3.55m
Overall Height(Rails Down)	2.89m	2.623m
Overall Height(Transport)	2.59m	2.365m
Platform Size(Length D ×Width E)	6.70m×2.24m	6.70m×2.24m
Ground Clearance	0.37m	0.32m
Wheelbase	4.00m	3.80m
Turning Radius(Inside/Outside)	3.24m/4.97m	2.45m/5.5m
Tyres	385-65/22.5	355-55/D625
Performance		
S.W.L	1350kg	1800kg
Max. Goods Loading	900kg	1350kg
Max. Occupants	4	
Platform Swing Angle	+/-90°	
Gradeability	40%	
Travel Speed(Stowed)	6.00km/h	
Travel Speed(Raised)	0.90km/h	
Max.Working Slope	3°/5°	
Chassis Leveling	10°	
Weight		
Overall Weight	18000kg	13350kg
Power		
Diesel Engine	Deutz TD2.9 L4 55.4kW/2600rpm	
Hydraulic Oil Tank	216L	