



Diesel Articulated Boom Lift



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Diesel Articulated Boom Lift

ALVOX diesel articulated boom lift is adapted to a specific operating environment, which can work in humid, corrosive, dusty, high or low temperature environments. It's ideal for outdoor construction and industrial applications, the engine-powered ALVOX articulated boom lift provides lifting versatility with a combination of up, out and over positioning capabilities and outreach that's second to none.

The machine is a self-propelled machine which can work under different working conditions, fast travelling, slow travelling. It only takes one person to operate the machine finishing aerial working continuously: lifting and lowering, forward, backward, steering and rotary movement, compared with the traditional hydraulic platform, it greatly improves the work efficiency, reduce the amount of operating personnel and labor intensity.



Overview

- / Powerful off-road performance, high work efficiency, accuracy close to the operation target, intelligent maintenance.
- / Two speed hydraulic motors drive and efficient power transmission for optimum speed and torque on rough terrain.
- / 4WD and up to 40% gradeability for superior terrainability.
- / Fully proportional controls for precise boom positioning and smooth performance.

Complete Safety Devices

- / Standard four-link weighing devices; measures such as overload protection, automated detection device for detecting platform amplitude and height, automatic control of the movement speed and traveling speed of the boom, and high-precision weighing devices, to ensure the safety and stability of operation in all directions.

Hydraulic System

- / Closed running system, speed easily to be adjusted, wide speed range; the boom's hydraulic system adopts double valve core circuit, which enhances the safety. The hydraulic components adopt European and American pure brands.

Traveling System

- / The closed running system consisting of electro-proportional variable pump, hydraulic control variable motor and flow distribution valve can gain relatively high movement speed and relatively low and stable running speed. The system works efficiently and generates less heat.

Control box

- / Full proportional control handle and CAN bus as well as PLC control system with high positioning accuracy are easy to be controlled and can be operated by the users at will.





Safety Settings

- / The basket has automatic leveling function, which allows the basket to tilt up to 1.5° relative to the horizontal plane.
- / The booms lift, decent, extend and rotate smoothly, and has a buffer device.
- / Platform travelling and boom rotation are equipped with reliable brakes, to ensure the reliable control during operation.
- / The platform is equipped with a foot switch that you can only operate by pressing it down.
- / Travel speed and boom movement speed are automatically limited when platform amplitude and height reach a certain level. When the machine is parked on the ground with an uneven degree of more than 5° , the boom action will be limited.
- / Each cylinder is equipped with a balance valve or hydraulic lock to ensure that the cylinder will not act automatically, and the connection between the cylinder and the balance valve and the hydraulic lock is rigid.
- / The identifier is clear and has a specific meaning.



It has a base control and a platform control system that use commutation switches to convert. The basket control is used to lock the base control. The two systems are protected by shields.



Diesel Articulated Boom Lift Specification

	Item		HZ140H	HZ160H	HZ180H	HZ200H	HZ220H	HZ260H	HZ280H	HZ320H	HZ330H	HZ360H	HZ400H-X Leg	HZ400H-Standard	HZ470H	HZ570H
01	Working Height Maximum	m	14.8	16.7	18	20.2	22	26.2	28	32	33	36.5	40	40.1	47	56.86
02	Platform Height Maximum	m	12.6	14.7	16 m	18.2	20	24.2	26	30	31	34.5	38	38.1	45	54.86
03	Working radius maximum	m	8	8.1	9.55	11.6	12	15.4	17.28	19	21	21.6	21.6	21.6	23	25
04	Lift capacity	kg	230	230	230	230	230	230	230	480/320	480/320	480/320	480/320	480/320	480/320	480/320
05	Crossing height	m	6.73	8.25	8.25	8.3	9.4	10.2	10.2	12	12	16.5	19.5	19.5	19.5	23.5
06	Length(stowed)	m	6.33	6.72	7.26	8.23	8.54	10.65	11.7	11	11	10.5	11.46	11.46	11.6	15.1
07	Width(stowed)	m	2.28	2.28	2.28	2.38	2.38	2.48	2.58	2.58	2.48	2.49	2.48	2.49	2.49	2.49
08	Height(stowed)	m	2.47	2.47	2.4	2.5	2.55	2.85	2.97	2.88	2.96	3.17	3.08	3.17	3.17	3.05
09	Wheel base	m	2.4	2.4	2.4	2.4	2.4	3	3	3.3	4.1	3.96	4.1	3.96	5.6	5.6
10	Ground clearance	mm	400	400	400	400	400	400	430	400	400	430	430	430	400	400
11	Platform measurement	m	1.1×0.67	1.83×0.76	1.83*0.76 m	1.83*0.76 m	1.83×0.76	2.44 x 0.91	2.44 x 0.91	2.44×0.91	2.44×0.91	2.44×0.91	2.44×0.91	2.44×0.91	2.44×0.91	2.44×0.91
12	Turning radius(inside)	m	1.87	1.87	1.87	1.82	2.66	1.75	2.6	2.6	2.73	3.13	2.73	3.13	2.69	2.69
13	Turning radius (outside)	m	4.8	4.8	4.8	4.85	5.66	4.87	6.1	6.1	6.58	6.5	6.58	6.5	7.07	7.07
14	Travel speed(stowed)	km/h	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.4	4.4	4.4	4.4	4.4	4.4	4.2
15	Travel speed(raised)	km/h	0.8	0.8	1.1	1.1	1.1	1.1	1.1	1.1	0.8	1.1	1.1	1.1	1.1	1.1
16	Grade ability		40%	40%	45%	45%	45%	45%	40%	40%	40%	40%	40%	40%	40%	40%
17	Solid tire		33×12-20	33×12-20	33×12-20	33×12-20	33×12-20	36×14-20	385/65-22.5	385/65-22.5	445/65-24	385/65-22.5	445/65-24	385/65-22.5	445/65-22.5	445/65-22.5
18	Rotation speed	rpm	0~0.8	0~0.8	0~0.8	0~0.8	0~0.8	0~0.8	0~1/3	0~1/3	0~1/3	0~0.8	0~0.8	0~0.8	0~1/3	0~1/3
19	Turntable swing		355° (360°Continuous optional)	355°	360° Continuous	360° Continuous	360°Continuous	360° Continuous	360° Continuous	360° Continuous	360° Continuous	360° Continuous	360° Continuous	360° Continuous	360° Continuous	360° Continuous
20	Platform leveling		Automatic	Automatic	Automatic leveling	Automatic leveling	Automatic	Automatic leveling	Automatic leveling	Automatic leveling	Automatic leveling	Automatic leveling	Automatic leveling	Automatic leveling	Automatic leveling	Automatic leveling
21	Platform rotation		180°	180°	180°	180°	180°	180°	180°	180°	180°	±80	180°	±80°	180°	±90°
22	Fuel tank capacity	L	100	100	100 L	100	100 L	151L	150	151	151	151	151	151	200	200
23	Total weight		7000	7500	8700	8800	9500	16300	17000	19500	20000	24000	23000	24500	26500	30280
24	Control voltage	V	12	12	12	12	12	12	12	12	12	12	12	12	24	24
25	Drive & Steering mode		4×4×2	4×4×2	4×4×2	4×4×2	4×4×2	4×4×2	4×4×2	4×4×2	4×4×4	4×4×4	4×4×4	4×4×4	4×4×4	4×4×4
26	Engine		Yanmar	Yanmar	Yanmar	Yanmar	Yanmar	Yanmar	Yanmar	Yanmar	Yanmar	Yanmar	Yanmar	Yanmar	Cummins	Cummins/Deutz

