



Electric Forklift

TVL182/202 

80V Dual-drive Three-wheel Counterbalance Forklift with Integral Cast Chassis 1800-2000kg

- Industry's first integral cast chassis: stronger structure, lower center of gravity, greater stability
- Overhead guard height < 2,000mm: agile operation in containers, garages, and low warehouses
- Dual drive motors and compact 3-wheel design for tight turning radius
- PMSM + 80V Li-ion system for high efficiency, long runtime, and energy savings
- Internal and external charging options on one truck for maximum flexibility
- Standard Joystick control for effortless and precise operation
- Large-capacity controller and low-noise gearbox for smoother driving experience
- Spacious operator workplace with great visibility for ergonomics and safety
- Electromagnetic automatic parking braking for safety



FEATURE

■ Innovative integral cast chassis for superior stability

The TVL182/202 is built on ALVOX' s self-developed integral cast chassis design, which means there's no longer a joint interface between chassis and counterweight. It delivers outstanding structural strength and a naturally lower center of gravity. This ensures excellent truck stability even under full load and at high lift heights, while minimizing vibration and mast shaking. The robust frame further enhances durability, extending the service life of the truck.



■ Compact size for operations in low-clearance and tight spaces

With an overall height of less than 2,000mm, the TVL182/202 is designed for seamless operation in confined spaces such as containers, underground garages, and low-ceiling warehouses. Combined with a tight turning radius of just 1,641mm, this compact truck offers agility, enabling operators to retrieve and stack efficiently in areas where conventional forklifts simply cannot fit.



■ 80V Dual drive motors and PMSM technology

Equipped with 80V dual drive motors and advanced Permanent Magnet Synchronous Motor (PMSM) technology, the TVL182/202 delivers sensitive steering and up to 10-15% energy savings compared with conventional forklifts.



FEATURE

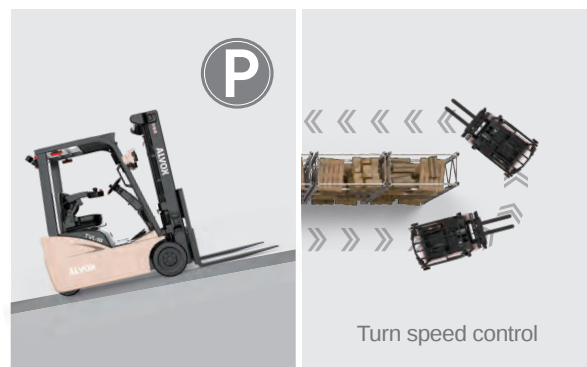
■ Dual charging flexibility

The lithium-powered TVL182/202 can be equipped with an 80V/35A internal charger and an 80V/100A external charger on one truck, giving operators flexible and efficient charging options for multi-shift working scenarios.



■ Safety-guaranteed functions

Safety is further supported by electromagnetic automatic parking brake, and turn speed control, making every turn and stop at ramp secure.



■ Effortless and precise control

The TVL182/202 features joystick control as standard and fingertips as an option. Positioned at the end of armrest, all operations can be done just with fingers, increasing precision and ergonomics.



■ Ergonomic and spacious operator workplace

The new chassis layout creates a larger operating space, giving drivers more legroom and comfort during long shifts. Combined with a wide-view mast and optimized overhead guard design, the TVL182/202 provides excellent visibility and minimizes blind spots, ensuring both a comfortable and safe driving experience.

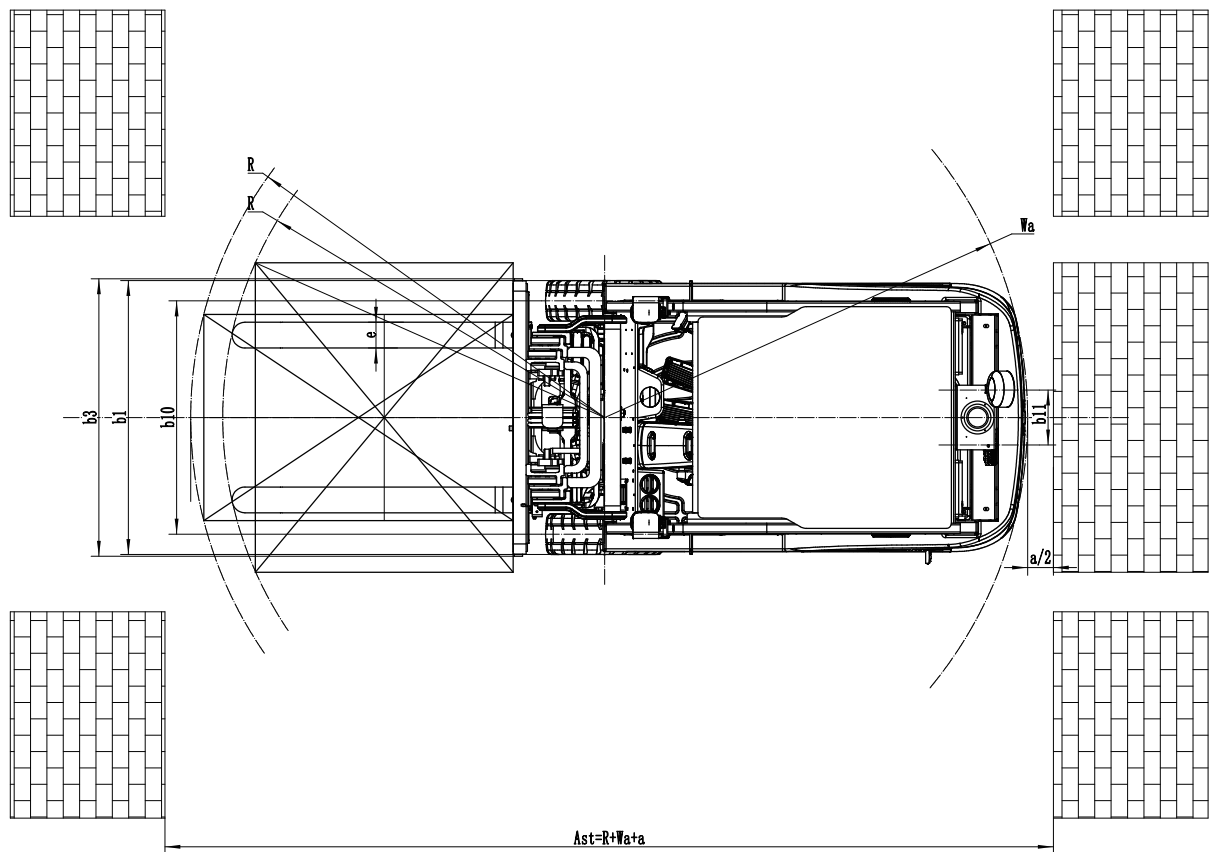
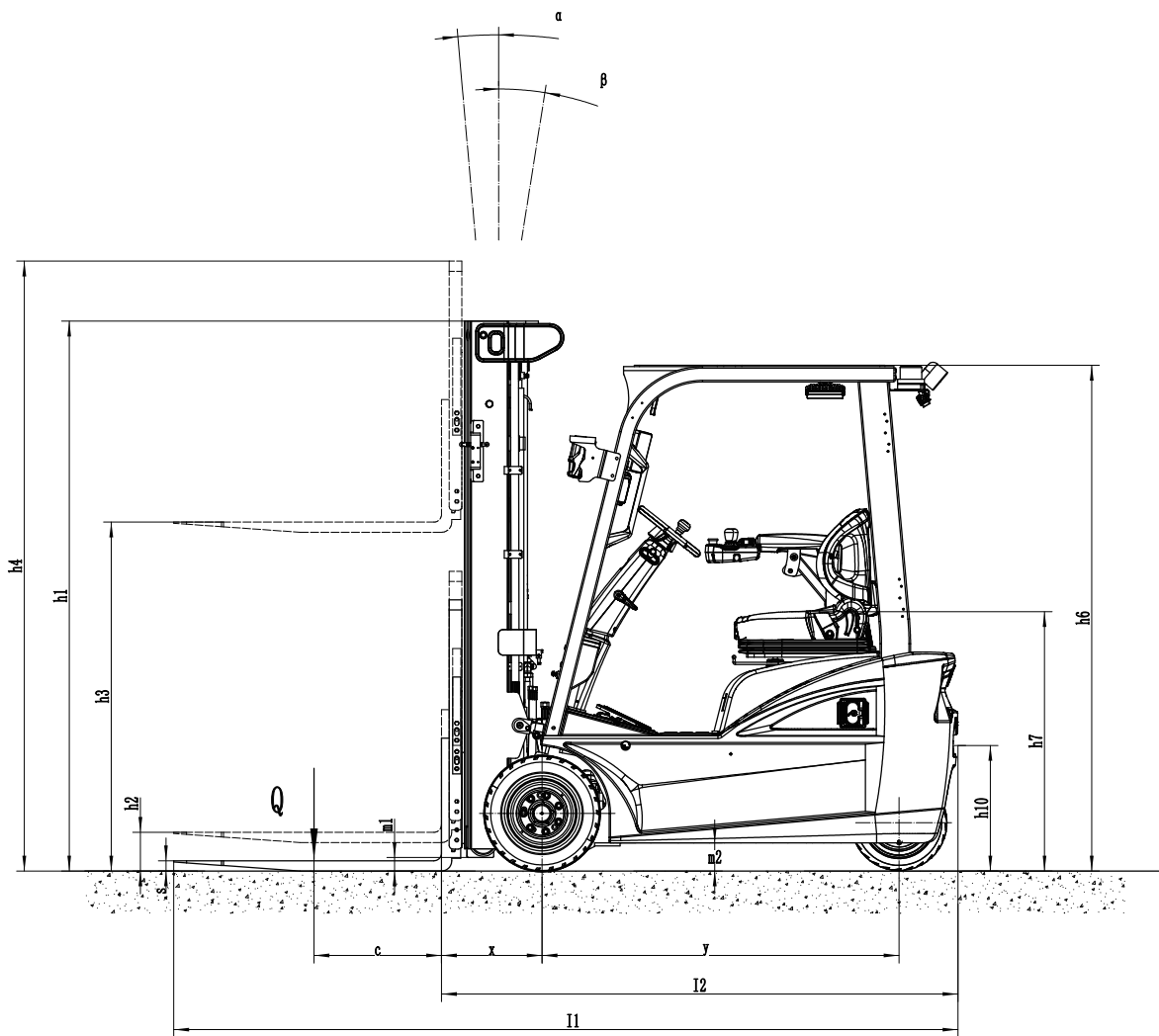


80V Dual-drive Three-wheel Counterbalance Forklift with Integral Cast Chassis 1800-2000kg

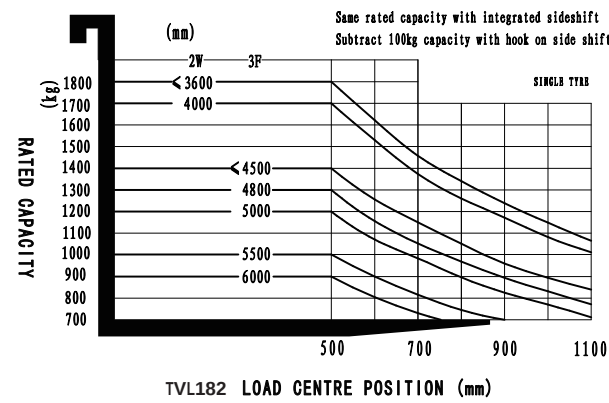
TVL182/202

Distinguishing mark	1.1	Manufacturer			ALVOX	ALVOX
	1.2	Model designation			TVL182	TVL202
	1.3	Drive			Electric	Electric
	1.4	Operator type	Q	kg	Seated	Seated
	1.5	Load capacity	c	mm	1800	2000
	1.6	Load center distance	x	mm	500	500
	1.8	Load distance, centre of drive axle to fork	y	mm	382	382
	1.9	Wheelbase		kg	1400	1400
Service weight	2.1	Service weight		kg	3306	3520
	2.2	Axle loading, laden front/rear		kg	4551/555	4889/631
	2.3	Axle loading, unladen front/rear			1617/1689	1629/1891
Tyres/ chassis	3.1	Tyre type			Solidrubber	Solidrubber
	3.2	Tyre size, front			18X7-8	200/50-10
	3.3	Tyre size, rear		mm	140/55-9	140/55-9
	3.5	Wheels, number front/rear (x=drive wheels)	b ₁₀	mm	2X/2	2X/2
	3.6	Tread width, front	b ₁₁	mm	905	931
	3.7	Tread width, rear	a/β	°	210	210
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	h ₁	mm	5/5	5/5
	4.2	Retracted mast height	h ₂	mm	1995	1995
	4.3	Free lift	h ₃	mm	100	100
	4.4	Lift height	h ₄	mm	3000	3000
	4.5	Height, mast extended	h ₆	mm	4054	4054
	4.7	Height of overhead guard (cabin)	h ₇	mm	1984	1984
	4.8	Seat height/standing height	h ₁₀	mm	1017	1017
	4.12	Tow coupling height	l ₁	mm	492	492
	4.19	Overall length	l ₂	mm	3063	3063
	4.20	Length to face of forks	b ₁ /b ₂	mm	2013	2013
	4.21	Overall width	s×e×l	mm	1062	1062
	4.22	Fork dimensions			40X100X920	40X122X1070
	4.23	A,B Fork carriage class/type A, B	b ₃	mm	2A	2A
	4.24	Fork carriage width	m ₁	mm	1040	1040
	4.31	Ground clearance, laden, below mast	m ₂	mm	90	90
	4.32	Ground clearance, center of wheelbase	Ast	mm	110	110
	4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	3320	3320
	4.34.2	Aisle width for pallets 800×1200 lengthways	Wa	mm	3446	3446
	4.35	Turning radius		km/h	1641	1641
Performance data	5.1	Travel speed, laden/unladen		m/s	13/14	13/14
	5.2	Lifting speed, laden/unladen		m/s	0.35/0.40	0.35/0.40
	5.3	Lowering speed, laden/unladen		%	0.45/0.42	0.45/0.42
	5.8	Max. gradeability, laden/unladen			15/17	15/17
	5.10	Service brake			Electromagnetic	Electromagnetic
	5.11	Parking brake		kW	Electromagnetic	Electromagnetic
Electric -engine	6.1	Drive motor rating S2 60 min		kW	5X2	5X2
	6.2	Lift motor rating at S3 15%		V/Ah	16	16
	6.4	Battery voltage/nominal capacity			80V/150AH	80V/150AH
Drive/lift mechanism	8.1	Type of drive control			PMSM	PMSM
	10.5	Steering design		dB(A)	Hydraulic	Hydraulic
	10.7	Sound pressure level at the driver's ear		A	65	65
	15.1	Charger output current			35	35

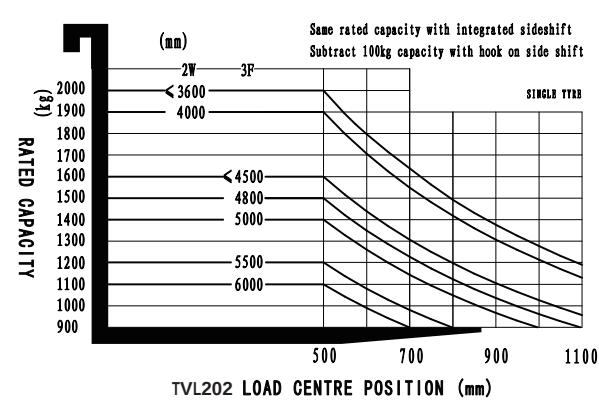
If there are improvements of technical parameters or configurations, no further notice will be given.
The diagram shown may contain non-standard configurations.



RATED CAPACITIES AND LOAD CENTERES GRAPH



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Mast Option

Mast types	Lift height (h3)	Height, Mast			Height,Free lift(h2)	
		Height, mast lowered(h1)	Height, mast extended(h4)		No backrest	With backrest
			No backrest	No backrest		
	mm	mm	mm	mm	mm	mm
2-Standard Mast	3000	1995	3665	4054	100	100
	3600	2295	4265	4654	100	100
	4000	2545	4665	5054	100	100
3-Free Mast	4000	1860	4665	5054	1225	835
	4350	2010	5015	5404	1375	985
	4500	2060	5165	5554	1425	1035
	4800	2160	5465	5854	1525	1135
	5000	2225	5665	6054	1590	1200
	5500	2395	6165	6554	1760	1370
	6000	2610	6665	7054	1975	1585

Option

Optional items	TVL182	TVL202
Fork dimension	●100*40*920 ○100*40*1070 ○100*40*1150 ○100*40*1200 ○100*40*1220 ○100*40*1370	●122*40*1070○122*40*920 ○122*40*1150○100*40*1200 ○122*40*1220○122*40*1370 ○122*40*1500○122*40*1600 ○122*40*1700○122*40*1820 ○122*40*1900○122*40*2000 ○122*40*2200
Front wheel material	●Normal solid ○Traceless solid	●Normal solid ○Traceless solid
Rear wheel material	●Normal solid ○Traceless solid	●Normal solid ○Traceless solid
Battery capacity	○80V-150AH○80V-230AH	○80V-150AH○80V-230AH
Charger	○80V-35A Internal ○80V-100A External	○80V-35A Internal ○80V-100A External
Battery display indicator (BDI)	●With hourmeter (Bluetooth) without PSE	●With hourmeter (Bluetooth) without PSE
Seat type	●Comfortable seat with armrest ○Suspension seat with armrest	●Comfortable seat with armrest ○Suspension seat with armrest
Attachments	●No ○Built-in sideshifter ○External shifter ○Fork positioner with sideshift	●No ○Built-in sideshifter ○External shifter ○Fork positioner with sideshift
Traction pin	●Yes and not customized	●Yes and not customized
Anti-static chain	●Yes and not customized	●Yes and not customized
Front lamp	●LED	●LED
Rear lamp	●No○LED	●No○LED
Warning lamp	●Yes and not customized	●Yes and not customized
Blue lamp	●No○Front○Rear ○Front and rear	●No○Front○Rear ○Front and rear
Area warning lamp	●No○Both side○Both side and rear	●No○Both side○Both side and rear
Rearview mirror	●One in front ○Two on side and one in front	●One in front ○Two on side and one in front
Buzzer	●Yes and not customized	●Yes and not customized
OPS system	●Yes and not customized	●Yes and not customized
USB interface	●Cigarette lighter socket ○USB dual port	●Cigarette lighter socket ○USB dual port
Telematics	●Yes and not customized	●Yes and not customized
Speed reduction for elevated mast- Australian standard	●No ○Yes and not customized (only for Australia standard)	●No ○Yes and not customized (only for Australia standard)
Turn speed control	●Yes and not customized	●Yes and not customized
Operator identification device	●No ○Card reader ○Fingerprint lock	●No ○Card reader ○Fingerprint lock
Lifting electronic limit	●No ○Yes and not customized	●No ○Yes and not customized
Hydraulic operating system	●Joystick ○Fingertip	●Joystick ○Fingertip
Rear armrest horn	●No ○Yes and not customized	●No ○Yes and not customized
Cabin	●No ○Basic half cabin ○Upgrade half cabin○Full cabin	●No ○Basic half cabin ○Upgrade half cabin○Full cabin
Overhead guard	●Yes and not customized	●Yes and not customized
Wiper water unit	●No ○Yes, only with cabin and not customized	●No ○Yes, only with cabin and not customized
Note: ●Standard ○ Optional - Inconformity		