



*Note : Picture above is for illustration purpose only. Please contact your local dealer for more information.

Electric Counterbalanced Lift Truck

Capacity 4.0 Tons to 5.5 Tons




POWER UP YOUR DRIVER AND BOOST YOUR BUSINESS



With the power and efficiency to challenge an IC engine lift truck, but no emissions, this range maximises every electric advantage. Enjoy quiet comfort and safer, faster, more agile performance, while reducing your overall operating costs.



- ✓ These environmentally friendly trucks, emitting zero pollution in operation, are more energy-efficient – and quieter by far – than any other in their class. Built for demanding indoor and outdoor applications, they offer you uncompromising power, durability and a lower total cost of operation (TCO).
- ✓ Materials handling is smoother, faster, safer and more precise, thanks to SmoothFlow and other hydraulic technologies which optimise mast and fork movements according to load weights and lift heights. Light yet responsive fingertip levers or joysticks give effortless control.

A yellow CAT 50 forklift is shown in a warehouse setting. The forklift is positioned in the foreground, facing left. A driver is visible through the large glass windows of the cab. The background features high industrial shelving units filled with stacks of white, wrapped materials, likely pallets or bags of goods. The lighting is bright, typical of an indoor industrial facility.

From the spacious, quiet, vibration-free, floating operator compartment, the driver enjoys clear all-round views. Standard equipment levels are generous and weatherproof cabin options are available with additional comforts like air conditioning.

Their exceptional agility gives drivers the feeling of driving a much smaller truck. Dynamic aids include OmniTurn all-wheel steering, RDS (Responsive Drive System) and intelligent curve control. PowerBurst adds extra acceleration or climbing torque when needed, while electric differential locking helps in slippery conditions.

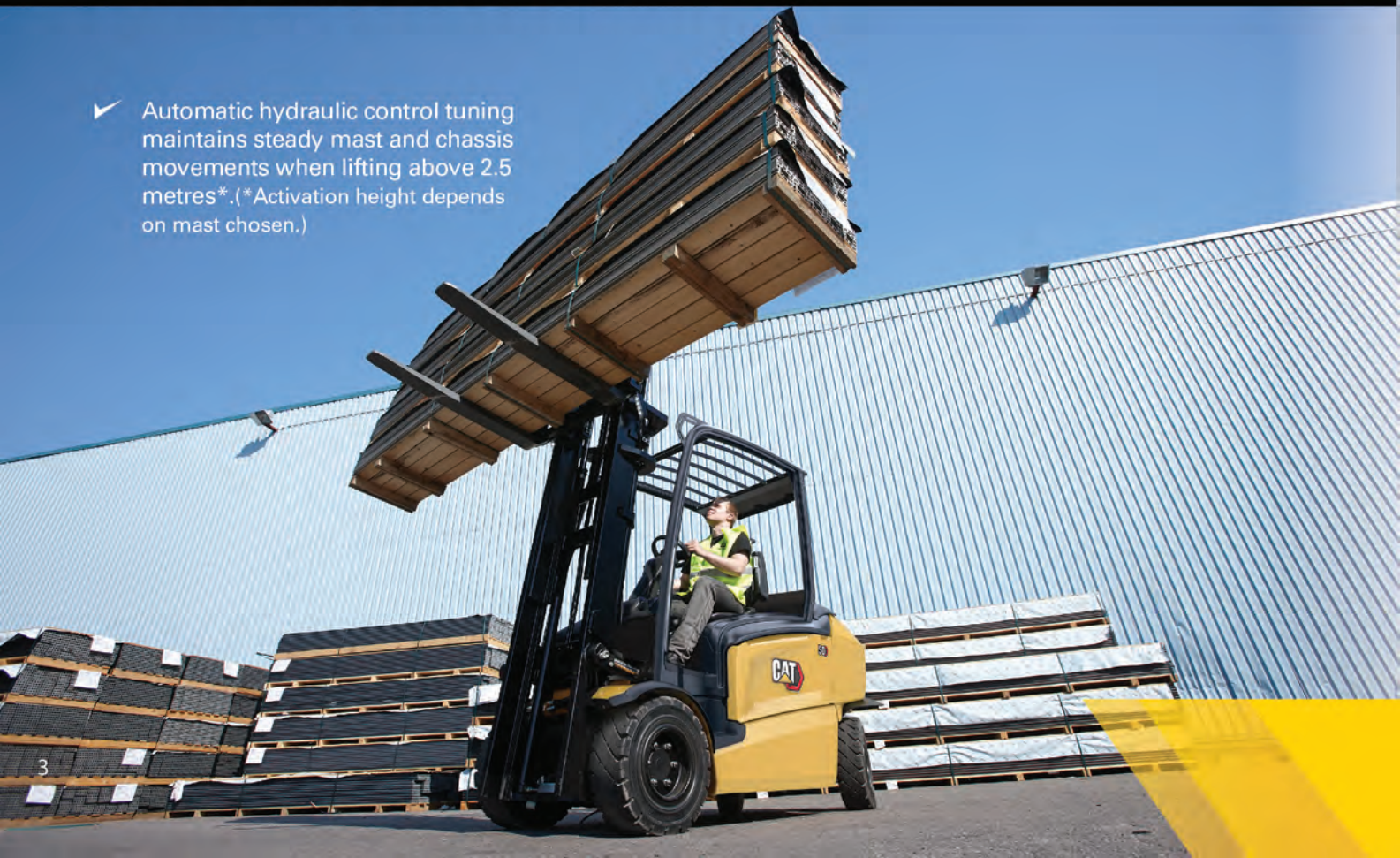
LOWER COST OF OWNERSHIP

- ✓ Best-in-class energy efficiency extends working hours (runtime) per battery charge.
- ✓ ECO mode can be selected to lower electricity bills.
- ✓ Easy access to battery compartment enables quick on-truck servicing and sideways exchange.
- ✓ Battery inspection hatch option allows fast checking and water top-ups for lead-acid batteries.
- ✓ Multi-function display encourages correct use and maintenance of truck.
- ✓ Simple plug-in diagnostics and troubleshooting reduce downtime and maintain efficient performance.
- ✓ Robust construction reduces repair and replacement needs and helps maintain truck's high residual value.



UNMATCHED PRODUCTIVITY

- ✓ Automatic hydraulic control tuning maintains steady mast and chassis movements when lifting above 2.5 metres*.(*Activation height depends on mast chosen.)



- ✓ PowerBurst automatically delivers extra torque to maintain ramp speed or provide strong acceleration, even when carrying heavy loads.
- ✓ Responsive Drive System (RDS) adapts performance rapidly in reaction to speed of pedal and hydraulic control operation, and ensures all movements, stops and starts are smooth.
- ✓ Electric differential lock maximises grip on slippery surfaces by locking front wheels to increase traction (activated automatically at small steering angles or manually via an optional pedal function).
- ✓ Adaptive steering varies steering ratio and force to optimise comfort, control and stability.
- ✓ Intelligent curve control maximises cornering safety by smoothly adjusting truck speed and minimising side forces.
- ✓ SmoothFlow hydraulic system automatically adjusts to load weight, ensuring fast but smooth and precise control of all mast and fork actions - whether individual or simultaneous.
- ✓ Passive sway control allows mast tilting forces to be absorbed by chassis during higher lifts. (Applies mainly above 3.0 metres.)
- ✓ Pre-set ECO and PRO modes can be selected for different drivers and tasks, while customised settings (including lifting and lowering) can be applied by service engineers.



- ✓ OmniTurn all-wheel steering offers better grip, smoother turning and unbeatably agile manoeuvring, aided by a +100° rear turning axle which enables instant side turns with no initial backward movement.



SAFETY AND ERGONOMICS

- ✓ Market-leading SilentRun+ hydraulic pumps, quiet drive units and other low-noise technologies keep driver comfortable and stress-free, increase awareness of surrounding activity and avoid disturbing neighbours and co-workers.
- ✓ Rubber-mounted operator compartment minimises vibration.
- ✓ Obstacle-free design gives a clear all-round view of the truck's surroundings and outer dimensions – from both open and enclosed cabins – with no need to lean.
- ✓ Dark operator compartment materials minimise reflections on inside of windows, for clearer vision.
- ✓ Panel cabin options include acrylic transparent roof, steel doors, windscreen, side and rear windows, and front/rear wipers/washers.

1. Spacious operator compartment offers comfortable, adjustable seat, large, uncluttered floor and plenty of foot room, as well as easy, smooth entry/exit aided by long grab handle and non-slip step.

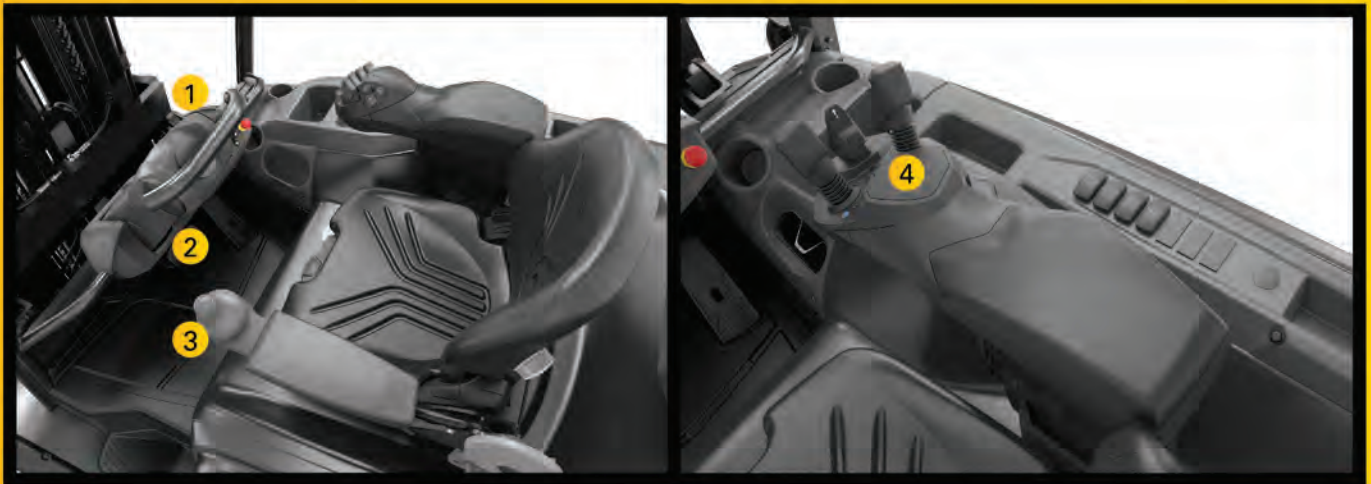
2. Easy-to-read colour display keeps drivers fully informed.

3. Useful storage spaces include suitable pockets for tools, mobile devices, bottles, tape dispensers and pens.



WITH PANEL CABIN

- ✓ Air conditioner option focuses ventilation on footwell and windscreen, and provides additional adjustable front and side vents, for welcome comfort in hot weather – without cold draughts around the neck.
- ✓ Heater option keeps driver warm and windows demisted in cold conditions.
- ✓ Window options are designed for panoramic vision, ventilation, emergency rear escape, and convenient reach (to operate warehouse door-opening string, for example).
- ✓ Panel cabin interior package (optional) includes roof liner, radio, speakers and reading light.



1. Ergonomic steering wheel has a widely adjustable column and a steering knob which automatically returns to the most convenient position after every turn.
2. Pedal design, position and angles reduce fatigue for drivers of any height or foot size.
3. Palm Steering option offers enhanced forward view, relaxed driving position and operation with minimal effort – ideal if driver is seated for long periods.
4. Dual joystick option separates functions such as clamp opening, to avoid accidental moves, and is especially useful if fingertip levers are too small for operation with gloves (or large hands).

- ✓ Spring-force-optimised fingertip hydraulic controls on adjustable, comfortable armrest ensure ergonomically perfect hand positioning, anatomical support and free movement.
- ✓ Safety lights (optional) include red lines, highlighting exclusion boundary around truck, and red or blue spots (front and rear) warning pedestrians of truck's approach.
- ✓ Working lights include mast-mounted floodlights as standard, as well as optional front and rear driving light clusters and rooftop beacons.
- ✓ Standard safety features include hill hold, automatic park brake and wet disc brakes, for added confidence and control.

SPECIFICATIONS

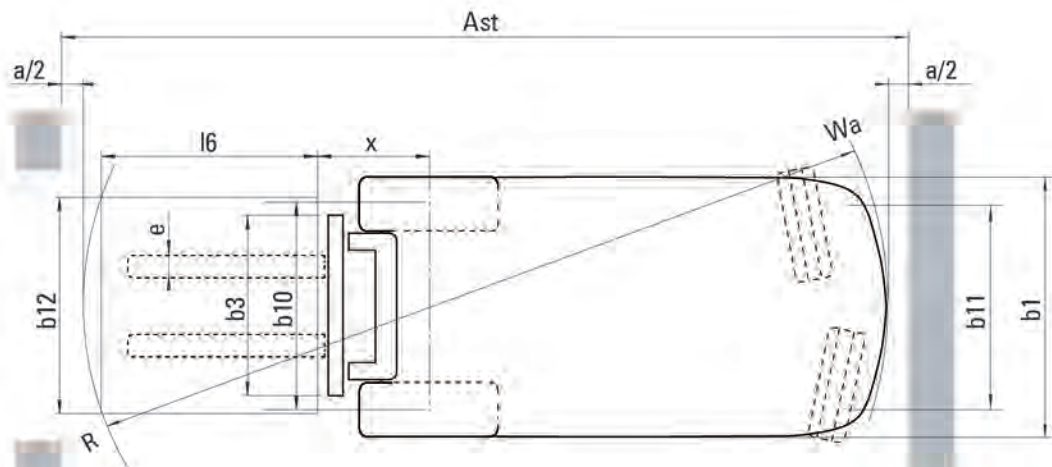
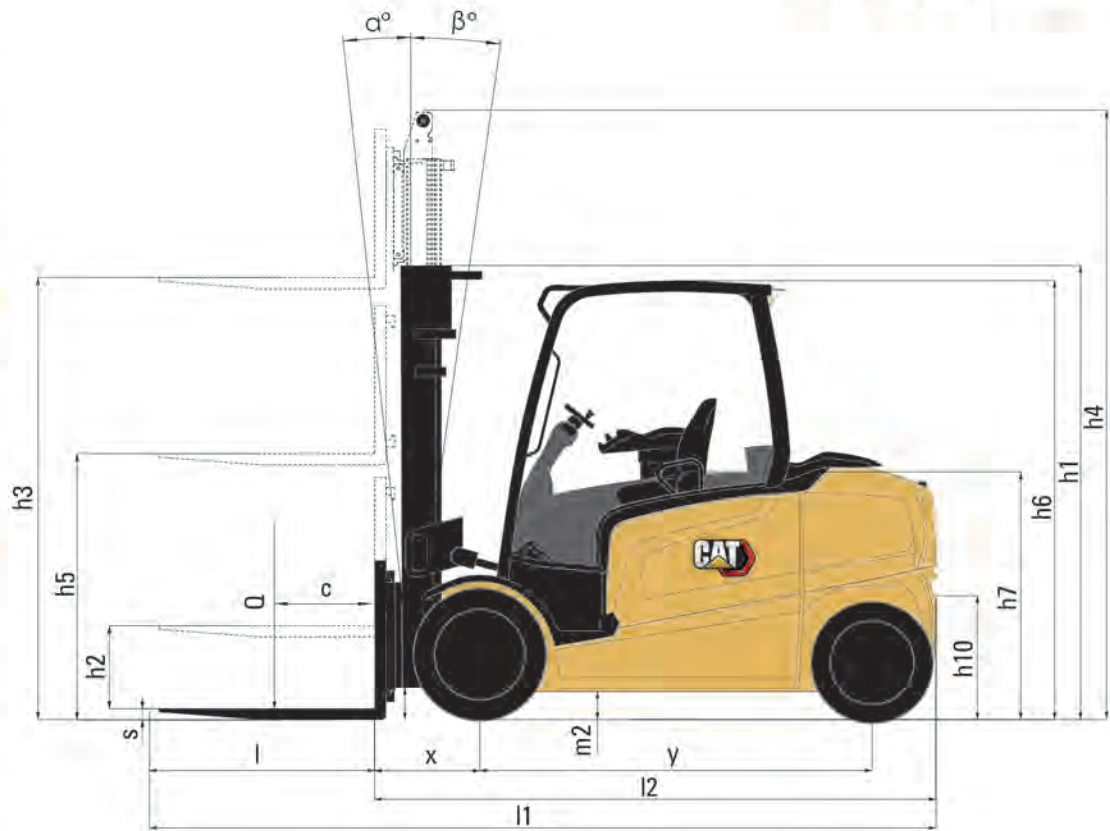
Characteristics		
1.1	Manufacturer (abbreviation)	
1.2	Manufacturer's model designation	
1.3	Power source: (battery, diesel, LPG, petrol)	
1.4	Operator type: pedestrian, (operator) - standing, - seated	
1.5	Load capacity	Q (kg)
1.6	Load centre distance	c (mm)
1.7	Load distance, axle to fork face	x (mm)
1.8	Wheelbase	y (mm)
Weight		
2.1	Truck weight, without load / including battery (simplex mast, lowest lift height)	kg
2.2	Axle loading with maximum load, front/rear (simplex mast, lowest lift height)	kg
2.3	Axle loading without load, front/rear (simplex mast, lowest lift height)	kg
Wheels, Drive Train		
3.1	Tyres: V = solid, L = pneumatic, SE = solid pneumatic - front/rear	
3.2	Tyre dimensions, front	
3.3	Tyre dimensions, rear	
3.4	Number of wheels, front/rear (x = driven)	
3.5	Track width (centre of tyres), front	b10 (mm)
3.6	Track width (centre of tyres), rear	b11 (mm)
Dimensions		
4.1	Mast tilt, forwards/backwards	α/β °
4.2	Height with mast lowered (see tables)	h1 (mm)
4.3	Free lift (see tables)	h2 (mm)
4.4	Lift height (see tables)	h3 (mm)
4.5	Overall height with mast raised	h4 (mm)
4.6	Height to top of overhead guard	h6 (mm)
4.7	Seat height	h7 (mm)
4.8	Tow coupling height	h10 (mm)
4.9	Overall length	l1 (mm)
4.10	Length to fork face (includes fork thickness)	l2 (mm)
4.11	Overall width	b1 / b2 (mm)
4.12	Fork dimensions (thickness, width, length)	s / e / l (mm)
4.13	Fork carriage to DIN 15 173 A / B / no	
4.14	Fork carriage width	b3 (mm)
4.15	Ground clearance under mast, with load	m1 (mm)
4.16	Ground clearance at centre of wheelbase, with load (forks lowered)	m2 (mm)
4.17	Working aisle width with 1000 x 1200 mm pallets, crosswise	Ast (mm)
4.18	Working aisle width with 800 x 1200 mm pallets, crosswise	Ast (mm)
4.19	Working aisle width with 800 x 1200 mm pallets, lengthwise	Ast (mm)
4.20	Turning circle radius	Wa (mm)
4.21	Minimum distance between centres of rotation	b13 (mm)
Performance		
5.1	Travel speed, with/without load	km / h
5.2	Lifting speed, with/without load	m / s
5.3	Lowering speed, with/without load	m / s
5.4	Rated drawbar pull, with/without load	N
5.5	Maximum drawbar pull, with/without load (5 min short duty)	N
5.6	Gradeability, with/without load	%
5.7	Maximum gradeability with/without load	%
5.8	Acceleration time (10 metres) with/without load	s
5.9	Service brakes (mechanical/hydraulic/electric/pneumatic)	
Electric motor		
6.1	Drive motor capacity (60 min short duty)	kW
6.2	Lift motor output at 15% duty factor	kW
6.3	Battery to DIN 43 531 / 35 / 36 A / B / C / no	
6.4	Battery voltage/capacity at 5-hour discharge	V / Ah
6.5	Battery weight	kg
6.6	Energy consumption according to EN 16796 (60 cycle)	kWh / h
Miscellaneous		
7.1	Type of drive control	
7.2	Maximum operating pressure for attachments	bar
7.3	Oil flow for attachments	l / min
7.4	Noise level, value at operator's ear (EN 12053)	dB (A)
7.5	Towing coupling, DIN type, ref	

Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks
EP40N	EP45N	EP50CN	EP50N
Electric	Electric	Electric	Electric
Seated	Seated	Seated	Seated
4000	4500	4990	4990
500	500	500	500
540	540	540	540
1946	1946	1946	2090
7290	7648	7991	8347
10040 / 1250	10795 / 1353	11574 / 1417	11563 / 1784
3902 / 3388	3890 / 3758	3902 / 4089	4075 / 4272
SE	SE	SE	SE
250x15 (710)	250x15 (710)	355/50-15 (710)	355/50-15 (710)
7.00x12 (650)	7.00x12 (650)	7.00x12 (650)	7.00x12 (650)
2X / 2	2X / 2	2X / 2	2X / 2
1143	1143	1154	1154
1169	1169	1169	1189
6 / 8	6 / 8	6 / 8	6 / 8
2420	2420	2420	2420
150	150	150	150
3300	3300	3300	3300
4205	4205	4205	4205
2340	2340	2340	2340
1320	1320	1320	1320
675	675	675	675
4025	4025	4025	4170
2825	2825	2825	2970
1370	1370	1450	1450
50 / 150 / 1200	50 / 150 / 1200	50 / 150 / 1200	50 / 150 / 1200
3A	3A	3A	3A
1190	1190	1190	1190
150	150	150	150
150	150	150	150
4125	4125	4125	4273
3938	3938	3938	4086
4264	4264	4264	4412
2289	2289	2289	2434
49	49	49	49
18 / 20	18 / 20	18 / 20	18 / 20
0.41 / 0.53	0.38 / 0.53	0.35 / 0.53	0.35 / 0.53
0.53 / 0.51	0.52 / 0.51	0.52 / 0.51	0.52 / 0.51
16000 / 16400	16800 / 17700	16800 / 17700	17600 / 18100
17300 / 18400	17300 / 18400	17300 / 18400	21500 / 22600
15 / 23	15 / 23	14 / 22	14 / 22
15.8 / 26.6	15.6 / 23.7	14.6 / 22.6	16.6 / 28.7
4.6 / 3.9	4.7 / 3.9	4.8 / 4.0	4.6 / 4.1
Hydraulic	Hydraulic	Hydraulic	Hydraulic
2x16	2x16	2x16	2x16
34	34	34	34
DIN 43 536/A	DIN 43 536/A	DIN 43 536/A	DIN 43 536/A
80 / 775	80 / 775	80 / 775	80 / 930
1863	1863	1863	2178
10.2 ¹⁾	10.6 ¹⁾	11.0 ¹⁾	11.2 ¹⁾
AC	AC	AC	AC
210	210	210	210
45	45	45	45
65	65	65	65
15 170	15 170	15 170	15 170

1) Measured with 60 cycles test
2) Measured with 45 cycles test

EP40-55(C)N(H)

Cat Lift Trucks	Cat Lift Trucks
EP50NH	EP55NH
Electric	Electric
Seated	Seated
5000	5500
600	600
560	560
2090	2090
8472	8711
12009 / 1463	12799 / 1412
4234 / 4238	4246 / 4465
SE	SE
355/50-15 (710)	355/50-15 (710)
7.00x12 (650)	7.00x12 (650)
2X / 2	2X / 2
1154	1154
1169	1169
6 / 8	6 / 8
2420	2420
160	160
3300	3300
4345	4345
2340	2340
1320	1320
675	675
4190	4190
2990	2990
1450	1450
60 / 150 / 1200	60 / 150 / 1200
4A	4A
1190	1190
150	150
150	150
4291	4291
4104	4104
4439	4439
2434	2434
49	49
18 / 20	18 / 20
0.35 / 0.53	0.32 / 0.53
0.52 / 0.51	0.51 / 0.51
17500 / 17700	17600 / 18000
21500 / 22600	21500 / 22600
13.5 / 21.5	13 / 21
16.5 / 28.2	16.4 / 27.3
4.7 / 4.1	4.8 / 4.1
Hydraulic	Hydraulic
2x16	2x16
34	34
DIN 43 536/A	DIN 43 536/A
80 / 930	80 / 930
2178	2178
7.8°	8.2°
AC	AC
210	210
45	45
65	65
15 170	15 170



Ast = Working aisle width with load

$$Ast = Wa + \sqrt{(l6 + x)^2 + \left(\frac{b12}{2} - b13\right)^2} + a$$

Wa = Turning radius

x = Load distance, axle to fork face

l6 = Pallet length (800 or 1000 mm)

a = Safety clearance

b12 = Pallet width



Cat Lift Trucks offer a complete range of durable lift trucks, from gasoline, LPG, diesel-powered and electric counterbalance lift trucks to warehouse equipment designed to handle your toughest applications. We know you demand uncompromising quality from lift trucks that maximize uptime and get the job done efficiently. Our rugged machines deliver day after day by providing you with all the life-cycle cost of ownership benefits you've come to expect from Cat Lift Trucks.

LET'S DO THE WORK.™

**TOTAL MACHINE
SATISFACTION.**



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