

**NSP10N2**  
**NSP12N2(I)**  
**NSP12N2(I)R**  
**NSP14N2(I)**  
**NSP14N2(I)R**  
**NSP16N2(I)**  
**NSP16N2(I)R**  
**NSP16N2S**  
**NSP16N2SR**

Specifications

**Pedestrian and  
Stand-on Stackers**  
1.0 - 1.6 tonnes



Characteristics			Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks
1.01	Manufacturer (abbreviation)		<b>NSP10N2</b>	<b>NSP12N2(I)</b>	<b>NSP14N2(I)</b>
1.02	Manufacturer's model designation		Battery	Battery	Battery
1.03	Power source (battery, diesel, LP gas, petrol)		Pedestrian	Pedestrian	Pedestrian
1.04	Operator type: pedestrian, (operator)-standing, -seated				
1.05	Load capacity	Q (kg)	1000	1200	1400
1.06	Load centre distance	c (mm)	600	600	600
1.08	Load wheel axle to fork face (forks lowered)	x (mm)	625	625 (925)	625 (925)
1.09	Wheelbase	y (mm)	1141	1205 (1615)	1205 (1615)
Weight					
2.01	Truck weight with maximum battery weight	kg	820	1205(1350)	1220 (1395)
2.02	Axle loadings with nominal load & maximum battery weight, drive/load side	kg	740/1080	830 (1180) / 1575 (1370)	835 (1240) / 1785 (1555)
2.03	Axle loadings without load & with maximum battery weight, drive/load side	kg	605/215	820 (955) / 385 (395)	825 (970) / 395 (425)
Wheels, Drive Train					
3.01	Tyres: PT=Power Thane, Vul=Vulkollan, drive/load side		Vul / Vul	Vul / Vul	Vul / Vul
3.02	Tyre dimensions, drive side	(mm)	230 x 70	230 x 70	230 x 70
3.03	Tyre dimensions, load side	(mm)	85 x 90	85 x 90	85 x 75
3.04	Castor wheel dimensions (diameter x width)	(mm)	125 x 60	125 x 60	125 x 60
3.05	Number of the wheels, drive/load side (x=driven)	(mm)	1 + 1x/2	1 + 1x/2	1 + 1x/4
3.06	Track width (centre of tyres), drive side	b10 (mm)	517	517	517
3.07	Track width (centre of tyres), load side	b11 (mm)	385	385	385
Dimensions					
4.02	Height with mast lowered	h1 (mm)	see tables	see tables	see tables
4.03	Free lift	h2 (mm)	see tables	see tables	see tables
4.04	Lift height	h3+h13 (mm)	see tables	see tables	see tables
4.05	Overall height with mast raised	h4 (mm)	see tables	see tables	see tables
4.06	Initial lift	h5 (mm)	-	- (115)	- (115)
4.09	Height of tiller arm/steering console (min./max.)	h14 (mm)	1050 / 1372	1050 / 1372	1050 / 1372
4.15	Fork height, fully lowered	h13 (mm)	90	90	90
4.19	Overall length, platform up/down	l1 (mm)	1836	1900 (2007)	1900 (2007)
4.20	Length to fork face, platform up/down	l2 (mm)	686	750 (857)	750 (857)
4.21	Overall width	b1/b2 (mm)	800	800	800
4.22	Fork dimensions (thickness,width,length)	s/e/l (mm)	56 / 186 / 1150	56 / 186 / 1150	56 / 186 / 1150
4.24	Fork carriage width	b3 (mm)	752	752	752
4.25	Outside width over forks	b5 (mm)	570	570	570
4.26	Innerwidth of load legs	b4 (mm)	-	-	-
4.32	Ground clearance at center of wheelbase, (forks lowered)	m2 (mm)	20	20	20
4.33a	Working aisle width (Ast) with 1000 x1200 mm pallets, load crosswise, platform up/down	Ast (mm)	2291	2355 (2653)	2355 (2653)
4.33b	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast3 (mm)	1958	2022 (2123)	2022 (2123)
4.34a	Working aisle width (Ast) with 800 x1200 mm pallets, load lengthwise, platform up/down	Ast (mm)	2283	2347 (2533)	2347 (2533)
4.34b	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast3 (mm)	2158	2222 (2323)	2222 (2323)
4.35	Turning circle radius	Wa (mm)	1383	1447 (1848)	1447 (1848)
Performance					
5.01	Travel speed with/without load	km/h	6.0 / 6.0	6.0 / 6.0	6.0 / 6.0
5.02	Lifting speed with/without load	m/ s	0.12 / 0.26	0.12 / 0.26	0.12 / 0.26
5.03	Lowering speed with/without load	m/s	0.35 / 0.40	0.35 / 0.40	0.35 / 0.40
5.08	Maximum gradeability, with/without load	%	8 / 15	8 / 15	8 / 15
5.10	Service brakes (mechanical/hydraulic/electric/pneumatic)	s	Electric	Electric	Electric
Motors					
6.01	Drive motor capacity (60 min. short duty)	kW	1.0	1.0	1.0
6.02	Lift motor output at 15% duty factor	kW/%	2.2	2.2	2.2
6.04	Battery voltage / capacity at 5-hour discharge	V/Ah	24 / 150	24 / 150-250	24 / 250
6.05	Battery weight	kg	151	151-212	212
Miscellaneous					
8.01	Type of drive control		Stepless	Stepless	Stepless
8.04	Noise level (EN 12 053)	dB(A)	60 / 60 / 41	60 / 60 / 41	60 / 60 / 41
	Body vibration (EN 13 059)	m/s <sup>2</sup>	-	-	-
	Hand-arm vibration (EN 13 059)	m/s <sup>2</sup>	< 2.5	< 2.5	< 2.5

Notes: Values in brackets () are for initial lift versions.

All values are measured with standard configuration. Values can vary with different masts.



	Cat Lift Trucks <b>NSP16N2(I)</b>	Cat Lift Trucks <b>NSP12N2(I)R</b>	Cat Lift Trucks <b>NSP14N2(I)R</b>	Cat Lift Trucks <b>NSP16N2(I)R</b>	Cat Lift Trucks <b>NSP16N2S</b>	Cat Lift Trucks <b>NSP16N2SR</b>
	Battery	Battery	Battery	Battery	Battery	Battery
	Pedestrian	Pedestrian/Stand-on	Pedestrian/Stand-on	Pedestrian/Stand-on	Pedestrian	Pedestrian/Stand-on
	1600	1200	1400	1600	1600	1600
	600	600	600	600	600	600
	625 (925)	625 (925)	625 (925)	625 (925)	650	650
	1205 (1615)	1205 (1615)	1205 (1615)	1205 (1615)	1295	1295
	1225 (1400)	1245 (1390)	1260 (1435)	1265 (1440)	1397	1437
	835 (1275) / 1990 (1725)	870 (1220) / 1575 (1370)	875 (1280) / 1785 (1555)	875 (1315) / 1990 (1725)	1941 / 1056	1981 / 1056
	825 (970) / 400 (430)	860 (995) / 385 (395)	865 (1010) / 395 (425)	865 (1010) / 400 (430)	945 / 452	985 / 452
	Vul / Vul	Vul / Vul	Vul / Vul	Vul / Vul	Vul / Vul	Vul / Vul
	230 x 70	230 x 70	230 x 70	230 x 70	230 x 70	230 x 70
	85 x 75	85 x 90	85 x 75	85 x 75	85 x 75	85 x 75
	125 x 60	125 x 60	125 x 60	125 x 60	125 x 60	125 x 60
	1 + 1x/4	1 + 1x/2	1 + 1x/4	1 + 1x/4	1 + 1x/4	1 + 1x/4
	517	517	517	517	517	517
	385	385	385	385	1025-1425	1025-1425
	see tables	see tables	see tables	see tables	see tables	see tables
	see tables	see tables	see tables	see tables	see tables	see tables
	see tables	see tables	see tables	see tables	see tables	see tables
	see tables	see tables	see tables	see tables	see tables	see tables
	- (115)	- (115)	- (115)	- (115)	-	-
	1050 / 1372	1150 / 1350	1150 / 1350	1150 / 1350	1150/1350	1150 / 1350
	90	90	90	90	85	85
	1900 (2007)	2020 (2127) / 2500 (2607)	2020 (2127) / 2500 (2607)	2020 (2127) / 2500 (2607)	1967	2087 / 2567
	750 (857)	870(977)/1350(1457)	870(977)/1350(1457)	870(977)/1350(1457)	817	937 / 1417
	800	800	800	800	800 / 1140-1575	800 / 1140-1575
	56 / 186 / 1150	56 / 186 / 1150	56 / 186 / 1150	56 / 186 / 1150	40 / 100 / 1150	40 / 100 / 1150
	752	752	752	752	980	980
	570	570	570	570	260-900	260-900
	-	-	-	-	1015-1450	1015-1450
	20	20	20	20	20	20
	2355 (2653)	2475 (2773) / 2955 (3253)	2475 (2773) / 2955 (3253)	2475 (2773) / 2955 (3253)	2430	2550 / 3030
	2022 (2123)	2142 (2243) / 2622 (2723)	2142 (2243) / 2622 (2723)	2142 (2243) / 2622 (2723)	2085	2205 / 2685
	2347 (2533)	2467 (2653) / 2947 (3133)	2467 (2653) / 2947 (3133)	2467 (2653) / 2947 (3133)	2415	2535 / 3015
	2222 (2323)	2342 (2443) / 2822 (2923)	2342 (2443) / 2822 (2923)	2342 (2443) / 2822 (2923)	2285	2405 / 2885
	1447 (1848)	1567 (1968) / 2047 (2448)	1567 (1968) / 2047 (2448)	1567 (1968) / 2047 (2448)	1535	1655 / 2135
	6,0 / 6,0	6,0 / 6,0	6,0 / 6,0	6,0 / 6,0	6,0 / 6,0	6,0 / 6,0
	0,14 / 0,27	0,12 / 0,26	0,12 / 0,26	0,14 / 0,27	0,14 / 0,27	0,14 / 0,27
	0,35 / 0,40	0,35 / 0,40	0,35 / 0,40	0,35 / 0,40	0,35 / 0,40	0,35 / 0,40
	8 / 15	8 / 15	8 / 15	8 / 15	8 / 15	8 / 15
	Electric	Electric	Electric	Electric	Electric	Electric
	1.0	1.0	1.0	1.0	1.0	1.0
	3.2	2.2	2.2	3.2	3.2	3.2
	24 / 250-375	24 / 150-250	24 / 250	24 / 250-375	24 / 250-375	24 / 250-375
	212-294	151-212	212	212-294	212-294	212-294
	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless
	70 / 72 / 41	60 / 60 / 41	60 / 60 / 41	70 / 72 / 41	70 / 72 / 41	70 / 72 / 41
	-	0.8	0.8	0.8	-	0.8
	< 2,5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5

Ast = Working aisle width  
 Ast3 = Working aisle width (b12 < 1000 mm)  
 $Ast = Wa + \sqrt{(l6 - x)^2 + (b12 / 2)^2} + a$   
 $Ast3 = Wa + l6 - x + a$   
 Wa = Turning radius  
 l6 = Pallet length (800 or 1000 mm)  
 x = Load wheel axle to fork face  
 b12 = Pallet width (1200 mm)  
 a = Safety clearance = 2 x 100 mm





## Lower Cost of Ownership

- Latest AC technology keeps energy consumption and maintenance costs to bare minimum.
- Sturdy chassis construction and endurance-tested forks provide enhanced robustness and reliability in even the toughest conditions.
- Closed chassis and waterproof electrics resist moisture, dirt and corrosion - increasing uptime, cutting maintenance costs and prolonging truck life.
- Easy access to critical truck components allows faster fault diagnosis and speedier maintenance, squeezing downtime still further.
- Integrated drive and lift system features fewer components than previous models, reducing scope for breakdown.
- Closed compartment with steel cover protects battery against impact, postponing costly battery replacement.
- Standard battery size allows interchangeability with other brands.

## Unmatched Productivity

- AC motor results in very precise drive control, making life easier for truck operators.
- Ergonomic tiller arm helps keep operators fresh with comfortable, easy to use controls.
- Excellent drive and traction characteristics suit intensive work over short and medium distances.
- Advanced programmable controller lets users prioritise between faster performance and smoother handling with lower energy consumption, prolonging shift life.
- Tapered fork tips make for accurate and effortless pallet entry, speeding up handling cycles and preventing pallet or load damage.
- Truck can be driven with tiller arm in vertical position in ultra-low-speed 'tortoise' mode to maximise manoeuvrability in tight spaces.
- Narrower truck body makes handling operations in confined areas much easier.
- N2R models feature fold-down driver platform that prevents operator fatigue over longer distances.
- N2R models' folding platform stays down when lowered, saving time when operators go to remount.
- N2I initial lift models let operator raise mast and forks, increasing ground clearance to protect truck and load when working on ramps.
- N2S straddle models allow wider loads and bottom boarded pallets to be handled with ease.

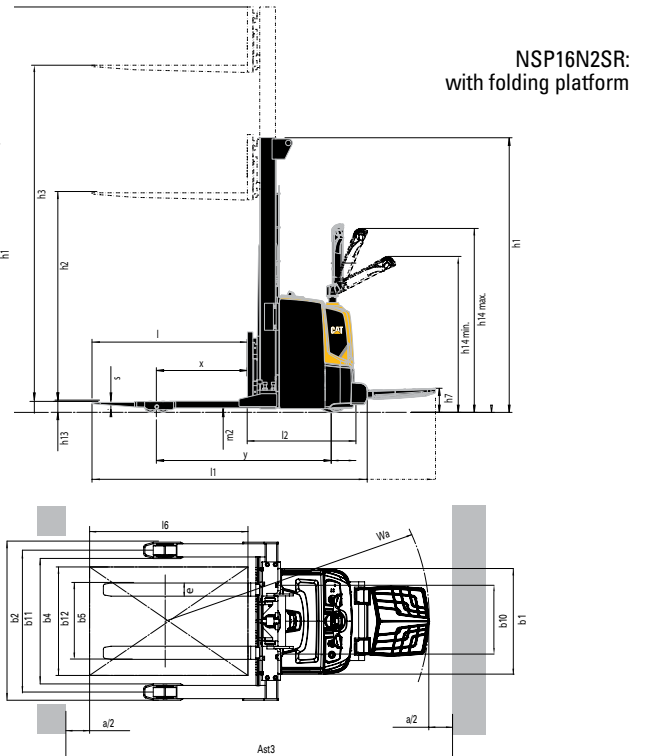
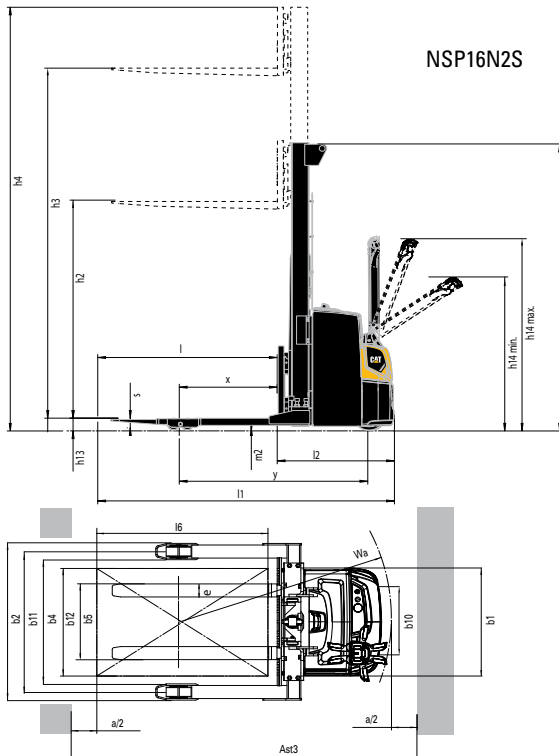
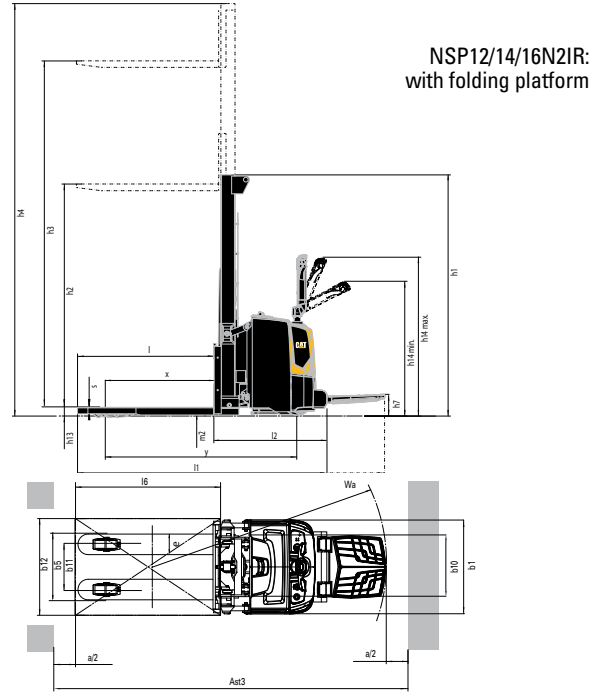
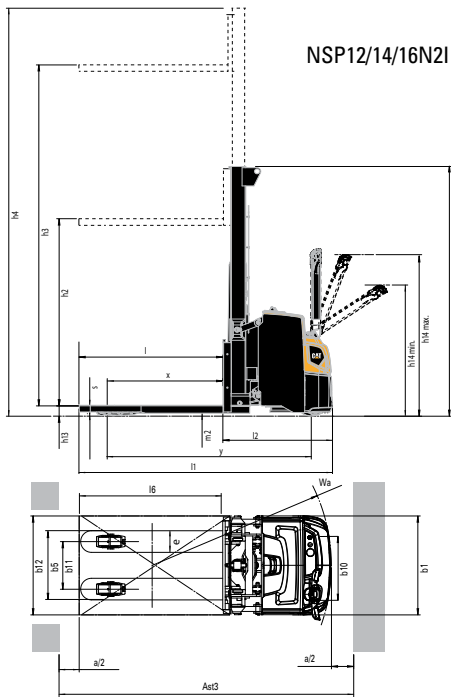
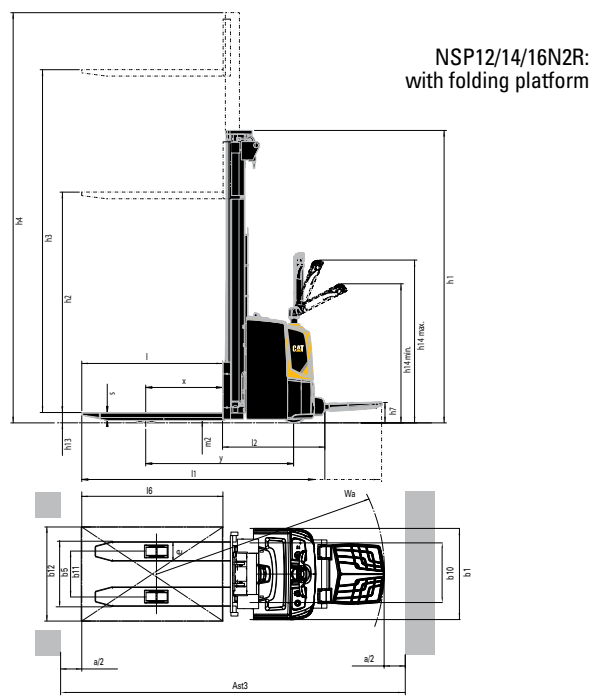
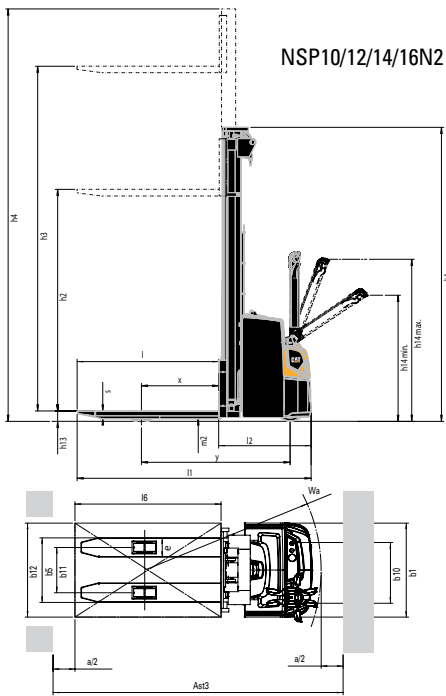
## Safety and Ergonomics

- Latest tiller arm design provides comfortable operating position.
- High-strength masts reduce load movement to a minimum.
- Slim mast profiles and careful hydraulic hose arrangements make for excellent forward visibility.
- Super-quiet oil-filled transmission helps keep noise levels low.
- Height-adjustable castor wheel eliminates play and raises load stability.
- Large lift and lower levers allow easy, one-handed control, even with gloves.

## Options

- Load backrest.
- Multifunction display including hour meter.
- Equipment holder for A4-size list bracket, computer rack, bottle holder and pen holder.
- Cold store modification class III for environments down to -35°C.

*\* For a complete list of options, please contact your nearest dealer.*



# Cat® Lift Trucks.

## Your partner in materials handling.

NSP10N2				
Mast type	h3+h13	h1	h4	h2+h13
	mm	mm	mm	mm
Simplex	1500	1980	1980	1500
Duplex	2500	1775	3000	195
	2900	1975	3400	195
	3300	2175	3800	195

NSP12/14/16N2 / NSP12/14/16N2R				
Mast type	h3+h13	h1	h4	h2+h13
	mm	mm	mm	mm
Simplex	1500	1950	1950	1500
	2500	1835	3000	200
	2900	2035	3400	200
	3300	2235	3800	200
	3600	2385	4100	200
	4300	2735	4800	200
Duplex Free-lift	2500	1775	2940	1355
	2900	1975	3340	1555
	3300	2235	3800	1755
	3600	2385	4100	1905
Triplex	4300	2735	4800	2255
	4100	1955	4640	
	4300	2020	4840	
	4700	2153	5250	
Triplex Free-lift	5400*	2385	5940	
	4100	1955	4640	1475
	4300	2020	4840	1540
	4700	2153	5250	1673
	5400*	2385	5940	1905

NSP12/14/16N2I / NSP12/14/16N2IR				
Mast type	h3+h13	h1	h4	h2+h13
	mm	mm	mm	mm
Simplex	1500	2055	2055	1505
	2500	1940	3105	200
	2900	2140	3505	200
	3300	2340	3905	200
	3600	2490	4205	200
	4300	2840	4905	200
Duplex Free-lift	2500	1940	3105	1360
	2900	2140	3505	1560
	3300	2340	3905	1760
	3600	2490	4205	1910
	4300	2840	4905	2260
Triplex	4100	2060	4745	
	4300	2125	4945	
	4700	2260	5345	
	5400*	2490	6045	
Triplex Free-lift	4100	2060	4745	1480
	4300	2125	4945	1545
	4700	2260	5345	1673
	5400*	2490	6045	1910

NSP16N2S / NSP16N2SR				
Mast type	h3+h13	h1	h4	h2+h13
	mm	mm	mm	mm
Simplex	1500	2030	2030	1500
	2500	1915	3080	195
	2900	2115	3480	195
	3300	2315	3880	195
	3600	2465	4180	195
	4300	2815	4880	195
Duplex Free-lift	2500	1915	3080	1355
	2900	2115	3480	1555
	3300	2315	3880	1755
	3600	2465	4180	1905
	4300	2815	4880	2255
Triplex	4100	2035	4720	
	4300	2100	4920	
	4700	2233	5320	
	5400*	2465	6020	
Triplex Free-lift	4100	2035	4720	1475
	4300	2100	4920	1540
	4700	2233	5320	1753
	5400*	2465	6020	1905

### Mast Performance and Capacity

- \* = only NSP14-16N2R & NSP14-16N2IR
- S = Simplex
- DS = Duplex with clear view mast
- DEV = Duplex with full free lift
- TR = Triplex with clear view mast
- TREV = Triplex with full free lift
- h3+h13 = Lifting height
- h1 = Lowered mast height
- h4 = Raised mast height
- h2+h13 = Free lift

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NOTE: Performance specifications may vary depending on standard manufacturing tolerances, vehicle condition, types of tyres, floor or surface conditions, applications, or operating environment. Trucks may be shown with non-standard options. Specific performance requirements and locally available configurations should be discussed with your Cat lift trucks Dealer. Cat Lift Trucks follows a policy of continual product improvement. For this reason, some materials, options and specifications could change without notice.

Since the 1960's we have been producing lift trucks designed to last and built to perform in some of the toughest environments in the world.

Today those brand values of ruggedness, durability and serviceability are at the core of our complete range of lift truck and warehouse equipment.

Together with our dealer network we are dedicated to providing customers with comprehensive materials handling solutions and cost-effective machine selection.

Our 'off the shelf' parts availability in excess of 95% is the highest in the industry and is supported by online access to our other centralized departments in the USA, Singapore and Japan to provide a truly global service.

We offer a variety of warranties and maintenance contracts tailored to your specific needs. Factory-trained service technicians respond quickly and efficiently when required, to keep your materials handling operation running smoothly and profitably.

To help spread the cost of ownership we also provide a full range of finance and rental options.

For customers with continental operations our 'International Fleet Sales & Services' department delivers the benefits of the global Cat Lift Trucks network, through a single point of contact.

For cost-effective solutions, or to find your nearest dealer, contact Cat Lift Trucks, your partner in materials handling.

