KOMATSU

1.0-3.5 ton
DIESEL and GASOLINE FORKLIFT TRUCKS

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Komatsu Utility Co., Ltd.

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Destined Evolution



Komatsu AX50/BX50 Series that reviewed the performance required from a lift truck has unrivaled performance and functions clearly different from those of competitors. Increased safety, reduced total lifetime costs, high operability with less fatigue, and environmental performance carefully considered.

You will certainly be satisfied with Komatsu's unique benefits. These features will be the true standard for the future, providing increased satisfaction on the job.

AX50 Series Standard model 1.0 ton 1.5 ton 1.75 ton [Diesel] [Gasoline]

Standard model

2.0 ton 2.5 ton 3.0 ton 3.5 ton [Diesel] [Gasoline]



2.0 ton 2.5 ton 3.0 ton [Gasoline]



Satisfying high workability and environmental performance required by the jobsite



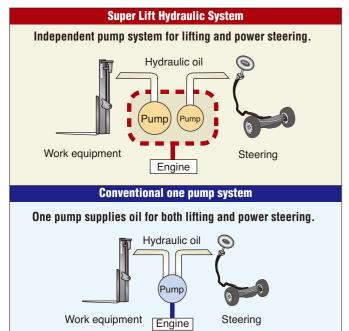
Excellent lifting performance to speed up work



Super Lift Hydraulic System*

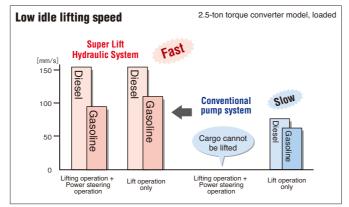
The tandem pump operates the power steering and the lifting equipment independently. Komatsu's hydraulic technology lifts the cargo at about double the lift speed of the previous model when idling. The truck also features fine adjustments for the fork position and superior operability of attachments when idling.

*The Super Lift Hydraulic Systems available on the BX50 Series









Excellent starting performance even at a jobsite Starting while performing stationary steering where stationary steering is often required

Super Lift Hydraulic System* allows operator to perform stationary steering and start the truck smoothly without revving up the engine. Even in that case, the engine does not stall. This system is highly appreciated at jobsites where stationary steering

*The Super Lift Hydraulic Systems available on the BX50 Series.

Lift truck stops





Conventional pump system

Super Lift Hydraulic System

Komatsu Reliability

Komatsu's unique designs have further extended the life span of the truck. Both the new frame structure and changes to the mast improve durability. Improvement of the heat balance also enhances reliability during heavy operations. The meantime between failures (MTBF) has been extended by 40% plus. Maintenance and repair costs are minimized by extensive testing and quality inspections under different operating environments.

Durability improved 40% Up

(Compared with previous model)

Exceptional Heat Balance

The bell-shaped shroud concentrates cooling air into the radiator. The unique shape of the counterweight opening and fan improves cooling performance by increasing the airflow of cooling air. Plus, the Super Lift Hydraulic System (BX50 Series) is designed to reduce oil pressure loss, which also prevents the oil temperature from overheating.

Travel control as intended



Small diameter steering wheel and fully hydrostatic power steering mechanism.

The small diameter steering wheel provides 100% stationary steering and switch backs. The superior responsiveness of the steering wheel optimizes maneuverability even in narrow spaces. Fluctuations during traveling have also been reduced by more than 30% to improve travel performance.



Consideration for Comfortable Operation

Komatsu's Research and Development team considers operators. Every aspect concerning an operator's comfort and ease of use have been thoroughly studied and implemented in each design. For instance, the control indicators and levers have been ergonomically designed and arranged in accessible and visible

Komatsu prides itself on developing products, which are designed to optimize both comfort and productivity.



Combination switch



Electric forward/reverse lever



Control levers designed for fingertip control.



Double-cone synchronized clutch (clutch model)

Pursuing environmental performance



EPA Tier3 and EU Stage IIIA compliant diesel engines

Diesel engines that incorporate Komatsu's advanced engine technologies feature excellent environmental performance and conform to the world latest EPA Tier3 and EU Stage IIIA emission regulations.

The diesel engines mounted on the BX50 Series reduce particulate matter (PM) in the exhaust gases by 30% to reduce environmental load.



Powerful engine with low fuel consumption

Thanks to the EPA Tier3 and EU Stage IIIA compliant engine and the Super Lift Hydraulic System*1, fuel consumption is reduced and powerful performance is realized. Fuel consumption is further improved by 8%*2 and CO2 emissions are also reduced.

- *1 The Super Lift Hydraulic Systems available on the BX50 Series.
- *2 Measurements of test conducted on Komatsu test course, comparison with FD25T-16.

Comfort Safety

Comfort and safe design pursued thoroughly from the viewpoint of operators



Less fatigue even after long work periods



Dual 'Floating' Structure

Komatsu's original suspension cab design has evolved. The wide-set front mounts and high position rear mounts allow the entire cabin to float on the chassis.

The power train floats the engine and transmission on the frame, and a universal joint is used to reduce engine and motion vibrations on the front axle.

The combined technology of both of these Komatsu designed systems further reduce the vibrations transferred to the mast, fork, steering wheel and control lever, as well as the operator's seat. Therefore, ultimately improving operator comfort and cargo



Suspension Cab

The suspension cab design reduces travel vibrations by 30%, compared with the former truck.

Power Train Floating

The power train floating structure cuts operator fatigue substantially, by limiting vibrations from the operation systems.



New Operator's Suspension Seat

The operator's seat is equipped with an all new suspension system and remodeled cushion and damper. The improved seat design holds the operator's body firmly in place for greater comfort and less fatigue during extended operations.

- Six-step reclining backrest
- 170 mm slide distance backward and forward



- Seat cushion adjustment dial
- The retractable seat belt

Wide Floor and Open, Non-Slip Step



The wide, flat floor accommodates the tilt cylinder under the floor. Suspended (type) pedals are used to provide extra foot space, which significantly reduces operator fatique. The new wide-open, non-slip step and spoon-curved fender makes getting in and out easy and safe.

Safe design to prevent careless mistakes



Operator Presence Sensing System (Lifting/Traveling Interlocking Mechanism)

The Operator Presence Sensing System is a safety option that only allows lifting operations while traveling, when the operator is seated. The alarm is activated once the operator leaves the seat. The interlock is a double safety measure and remains activated even when the operator returns to the seat. The interlock can only be released by returning the respective levers to a safe position.

Traveling Interlocking Mechanism cuts power transmission off but does not serve to apply the brake. This mechanism is not installed on the lift truck with a clutch.



The interlock state is also indicated on the meter panel.

Superior Visibility

The mast rail section has been flattened and the inside width expanded for superior front visibility. With the lowered position of 3-stage mast center cylinder and the tilt stay, plus the inclined backrest, front visibility is improved, and blind spots are reduced. The BX50 Series also provides clear fork tip visibility. The size and layout of the dashboard and meter panel are optimized.

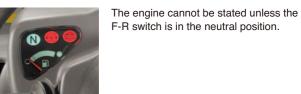


Easy rear confirmation

The wide-angle center mirror providers a greater sight area for safety traveling.



A Neutral Safety Function for Preventing a Sudden Start



at-a-glance information

Parking Brake Alarm



A double caution type brake lever prevents mishandling.

Safe Travel in Reverse

The upper corners of the counterweight are inclined to improve visibility. The edge of the counterweight, which is visible from the operator's seat, is designed to provide better visibility when confirming distances while reversing.

The new counterweight outlets are flow-directional, which are designed to prevent hot air from blowing onto the operator while reversing. The tail pipe has also been repositioned and is now located at the lowest point of the counterweight. This improves driver comfort and prevents stains that are caused by exhaust

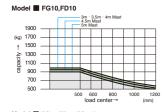


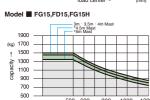
Specifications

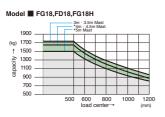
	Model	Manufacturer's Designation Transmission	1	FG10-20 TORQFLOW[Clutcl	FD10-20 h] TORQFLOW[Clutch	FG15-20 i] TORQFLOW[Clutch	FD15-20 n] TORQFLOW[Clutch	FG15H-20 i] TORQFLOW[Clutch	FG18-20 n] TORQFLOW[Clutch	FD18-20 n] TORQFLOW[Clutcl	FG18H-20 TORQFLOW[Clutch	FG20-16 TORQFLOW	FD20-17 TORQFLOW[Clutch	FG20H-16 TORQFLOW	FD20H-17 TORQFLOW	FG25-16 / TORQFLOW	FD25-17 TORQFLOW[Clutch	FG25H-16 TORQFLOW	FD25H-17 TORQFLOW	FG30-16 TORQFLOW	FD30-17 / TORQFLOW[Cluto	FD30H-17 ch] TORQFLOW	FG35AT-16 TORQFLOW	FD35AT-17 TORQFLOW	FG20NT-16 TORQFLOW		FG30NT-16 / TORQFLOW
8 1.3	Power Type	Electric, Diesel, Gasoline, L	.PG	Gasoline	Diesel	Gasoline	Diesel	Gasoline	Gasoline	Diesel	Gasoline	Gasoline	Diesel	Gasoline	Diesel	Gasoline	Diesel	Gasoline	Diesel	Gasoline	Diesel	Diesel	Gasoline	Diesel	Gasoline	Gasoline	Gasoline
1.4	Operation Type			Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting	Sitting
1.5	Rated Capacity	Q Rated Capacity	kg	1000	1000	1500	1500	1500	1750	1750	1750	2000	2000	2000	2000	2500	2500	2500	2500	3000	3000	3000	3500	3500	2000	2500	3000
1.6	Load Center	c Rated Load Center	mm	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
5 1.6.1	Alternative Capacity	Q2 Capacity@600mm Load Cen	nter kg	900	900	1350	1350	1350	1570	1570	1570	1810	1810	1810	1810	2260	2260	2260	2260	2720	2720	2720	3180	3180	1800	2250	2710
1.8	Load Distance	x Front Axle Center to Fork Fac	ce mm	400	400	405	405	405	405	405	405	460	460	460	460	465	465	465	465	490	490	490	505	505	430	435	440
1.9	Wheelbase	у	mm	1400	1400	1400	1400	1400	1400	1400	1400	1650	1650	1650	1650	1650	1650	1650	1650	1700	1700	1700	1700	1700	1400	1400	1450
2.1	Service Weight		kg	2080[2120]	2180[2220]	2450[2490]	2550[2590]	2450[2490]	2645[2685]	2745[2785]	2645[2685]	3220	3305[3345]	3220	3305	3590	3680[3720]	3590	3680	4210	4310[4345]	4310	4910	4950	3230	3630	4070
2.2		Front	kg	2725[2760]	2760[2790]	3500[3335]	3530[3565]	3500[3335]	3870[3905]	3900[3935]	3870[3905]	4670	4710[4735]	4670	4710	5420	5475[5495]	5420	5475	6390	6435[6460]	6435	7440	7430	4600	5350	6250
Meight 2.2.1 2.3.1 2.3.1		Loaded	kg	355[360]	420[430]	450[455]	520[525]	450[455]	525[530]	595[600]	525[530]	550	595[610]	550	595	670	705[725]	670	705	820	875[885]	875	970	1020	630	780	820
Š 2.3	Axle Loading	Front	kg	1065[1100]	1095[1130]	1005[1040]	1035[1070]	1005[1040]	960[995]	990[1025]	960[995]	1480	1520[1545]	1480	1520	1430	1470[1500]	1430	1470	1600	1640[1670]	1640	1820	1810	1250	1140	1260
2.3.1		Unloaded	kg	1015[1020]	1085[1090]	1445[1450]	1515[1520]	1445[1450]	1685[1690]	1755[1760]	1685[1690]	1740	1785[1800]	1740	1785	2160	2210[2220]	2160	2210	2610	2670[2675]	2670	3090	3140	1980	2490	2810
3.1	Tyre Type			Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	SSCT	SSCT	SSCT
3.2		Front		6.50-10-10PR(I) 6.50-10-10PR(I)	6.50-10-10PR(I)) 6.50-10-10PR(I)	6.50-10-10PR(I)) 6.50-10-10PR(I)	6.50-10-10PR(I	6.50-10-10PR(I)		7.00-12-12PR(I	7.00-12-12PR(I	I) 7.00-12-12PR(I	I) 7.00-12-12PR(I	I) 7.00-12-12PR(I)	7.00-12-12PR() 7.00-12-12PR(I)	28x9-15-12PR	(I) 28x9-15-12PR	(I) 28x9-15-12PR((I) 250-15-16PR(I)	250-15-16PR(I)	22 1/4x7 1/2-15/5.50	0 22 1/4x7 1/2-15/5.50) 22 1/4x7 1/2-15/5.50
8 3.3	Tyre Type Tyre Size	Rear		5.00- 8- 8PR(I) 5.00-8-8PR(I)	5.00- 8- 8PR(I)) 5.00-8-8PR(I)	5.00- 8- 8PR(I)) 5.00- 8- 8PR(I)	5.00-8-8PR(I)	5.00- 8- 8PR(I)	6.00-9-10PR(I)	6.00-9-10PR(I)	6.00-9-10PR(I)	6.00-9-10PR(I)	6.00-9-10PR(I)	6.00-9-10PR(I)	6.00-9-10PR(I)	6.00-9-10PR(I)	6.50-10-10PR(l) 6.50-10-10PR((I) 6.50-10-10PR(I	l) 6.50-10-12PR(I	6.50-10-12PR(I)) 17 3/4x6 1/2 -10/5.00	10 17 3/4x6 1/2 -10/5.00	0 17 3/4x6 1/2 -10/5.00
3.5	Number of Wheels	Front/Rear (x=driven)		2×/2	2×/2	2×/2	2×/2	2×/2	2×/2	2×/2	2×/2	2×/2	2×/2	2X/2	2×/2	2×/2	2×/2	2×/2	2×/2	2×/2	2×/2	2×/2	2×/2	2×/2	2×/2	2×/2	2×/2
3.6	Tread, Front	b4	mm	890	890	890	890	890	890	890	890	965	965	965	965	965	965	965	965	1005	1005	1005	1060	1060	900	900	900
3.7	Tread, Rear	b3	mm	895	895	895	895	895	895	895	895	960	960	960	960	960	960	960	960	965	965	965	965	965	885	885	885
4.1	Tilting Angle	α/β Forward/Backward	degree	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/10	6/10	6/10
	Mast Height, Lowered	h1 2-stage Mast	mm	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	2070	2070	2070	2100	2100	1995	1995	2070
	Std. Free Lift	h2 2-stage Std. Mast, from Ground	ıd mm	135	135	140	140	140	140	140	140	150	150	150	150	155	155	155	155	160	160	160	140	145	150	155	160
	Std. Lift Height	h3 2-stage Std. Mast, from Groun		3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
	Mast Height, Extended		mm	3955	3955	3955	3955	3955	3955	3955	3955	4050	4050	4050	4050	4050	4050	4050	4050	4275	4275	4275	4280	4280	4050	4050	4275
	Height, Overhead Guard		mm	2030	2030	2030	2030	2030	2030	2030	2030	2070	2110	2070	2110	2070	2110	2070	2110	2090	2130	2130	2105	2145	2025	2025	2025
	Length, with Std. Forks		mm	2965	2965	3160	3160	3160	3200	3200	3200	3450	3450	3450	3450	3655	3655	3655	3655	3775	3775	3775	3865	3865	3260	3475	3535
<i>o</i>	Length, to Fork Face		mm	2195	2195	2240	2240	2240	2280	2280	2280	2530	2525	2530	2525	2585	2580	2585	2580	2705	2705	2705	2790	2795	2340	2405	2465
	Width, at Tyre	b1 Single	mm	1070	1070	1070	1070	1070	1070	1070	1070	1150	1150	1150	1150	1150	1150	1150	1150	1235	1235	1235	1290	1290	1090	1090	1090
Ψ	Forks	s/e/I Thickness x Width x Lengt		31x100x770	31x100x770	35x100x920	35x100x920	35x100x920	35x100x920	35x100x920	35x100x920	36x122x920	36x122x920		36x122x920		0 40x122x1070										
		37071 THICKHESS X WIGHT X LETIST																									
		ISO 2229 Type A/P/pe																									45x122x1070
	Fork Carriage Class			Class 2,A	Class 2,A	Class 2,A	Class 2,A	Class 2,A	Class 2,A	Class 2,A	Class 2,A	Class 2,A	Class 2,A	Class 2,A	Class 2,A	Class 2,A	Class 2,A	Class 2,A	Class 2,A	Class 3,A	Class 3,A	Class 3,A	Class 3,A	Class 3,A	Class 2,A	Class 2,A	Class 3,A
4.24	Width, Fork Carriage	b2	mm	Class 2,A 970	Class 2,A 970	Class 2,A 970	Class 2,A 970	Class 2,A 970	Class 2,A 970	Class 2,A 970	Class 2,A 970	Class 2,A 1020	Class 2,A 1020	Class 2,A 1020	Class 2,A 1020	Class 2,A 1020	Class 2,A 1020	Class 2,A 1020	Class 2,A 1020	Class 3,A 1060	Class 3,A 1060	Class 3,A 1060	Class 3,A 1060	Class 3,A 1060	Class 2,A 960	Class 2,A 960	Class 3,A 940
4.24		b2 m1 Under Mast	mm mm	Class 2,A 970 120	Class 2,A 970 120	Class 2,A 970 120	Class 2,A 970 120	Class 2,A 970 120	Class 2,A 970 120	Class 2,A 970 120	Class 2,A 970 120	Class 2,A 1020 115	Class 2,A 1020 115	Class 2,A 1020 115	Class 2,A 1020 115	Class 2,A 1020 115	Class 2,A 1020 115	Class 2,A 1020 115	Class 2,A 1020 115	Class 3,A 1060 135	Class 3,A 1060 135	Class 3,A 1060 135	Class 3,A 1060 135	Class 3,A 1060 135	Class 2,A 960 105	Class 2,A 960 105	Class 3,A 940 105
4.24 4.31 4.32	Width, Fork Carriage Ground Clearance	b2 m1 Under Mast m2 at Center of Wheelbase	mm mm	Class 2,A 970 120 130	Class 2,A 970 120 130	Class 2,A 970 120 130	Class 2,A 970 120 130	Class 2,A 970 120 130	Class 2,A 970 120 130	Class 2,A 970 120 130	Class 2,A 970 120 130	Class 2,A 1020 115 160	Class 2,A 1020 115 160	Class 2,A 1020 115 160	Class 2,A 1020 115 160	Class 2,A 1020 115 160	Class 2,A 1020 115 160	Class 2,A 1020 115 160	Class 2,A 1020 115 160	Class 3,A 1060 135 185	Class 3,A 1060 135 185	Class 3,A 1060 135 185	Class 3,A 1060 135 185	Class 3,A 1060 135 185	Class 2,A 960 105 115	Class 2,A 960 105 115	Class 3,A 940 105 115
4.24 4.31 4.32 4.33	Width, Fork Carriage Ground Clearance Bight Angle	b2 m1	mm mm e mm	Class 2,A 970 120 130 3315	Class 2,A 970 120 130 3315	Class 2,A 970 120 130 3360	Class 2,A 970 120 130 3360	Class 2,A 970 120 130 3360	Class 2,A 970 120 130 3395	Class 2,A 970 120 130 3395	Class 2,A 970 120 130 3395	Class 2,A 1020 115 160 3650	Class 2,A 1020 115 160 3650	Class 2,A 1020 115 160 3650	Class 2,A 1020 115 160 3650	Class 2,A 1020 115 160 3775	Class 2,A 1020 115 160 3775	Class 2,A 1020 115 160 3775	Class 2,A 1020 115 160 3775	Class 3,A 1060 135 185 3930	Class 3,A 1060 135 185 3930	Class 3,A 1060 135 185 3930	Class 3,A 1060 135 185 4055	Class 3,A 1060 135 185 4055	Class 2,A 960 105 115 3410	Class 2,A 960 105 115 3555	Class 3,A 940 105 115 3620
4.24 4.31 4.32 4.33 4.34	Width, Fork Carriage Ground Clearance Right Angle Stacking Aisle	b2 m1	mm mm e mm et mm mm	Class 2,A 970 120 130 3315 3515	Class 2,A 970 120 130 3315 3515	Class 2,A 970 120 130 3360 3560	Class 2,A 970 120 130 3360 3560	Class 2,A 970 120 130 3360 3560	Class 2,A 970 120 130 3395 3595	Class 2,A 970 120 130 3395 3595	Class 2,A 970 120 130 3395 3595	Class 2,A 1020 115 160 3650 3850	Class 2,A 1020 115 160 3650 3850	Class 2,A 1020 115 160 3650 3850	Class 2,A 1020 115 160 3650 3850	Class 2,A 1020 115 160 3775 3905	Class 2,A 1020 115 160 3775 3905	Class 2,A 1020 115 160 3775 3905	Class 2,A 1020 115 160 3775 3905	Class 3,A 1060 135 185 3930 4060	Class 3,A 1060 135 185 3930 4060	Class 3,A 1060 135 185 3930 4060	Class 3,A 1060 135 185 4055 4185	Class 3,A 1060 135 185 4055 4185	Class 2,A 960 105 115 3410 3610	Class 2,A 960 105 115 3555 3685	Class 3,A 940 105 115 3620 3750
4.24 4.31 4.32 4.33 4.34	Width, Fork Carriage Ground Clearance Bight Angle	b2 m1 Under Mast m2 at Center of Wheelbase Ast with L1000 x W1200 pallet Ast with L1200 x W800 pallet Wa	mm mm ee mm et mm mm mm	Class 2,A 970 120 130 3315 3515 1915	Class 2,A 970 120 130 3315 3515 1915	Class 2,A 970 120 130 3360 3560 1955	Class 2,A 970 120 130 3360 3560 1955	Class 2,A 970 120 130 3360 3560 1955	Class 2,A 970 120 130 3395 3595 1990	Class 2,A 970 120 130 3395 3595 1990	Class 2,A 970 120 130 3395 3595 1990	Class 2,A 1020 115 160 3650 3850 2190	Class 2,A 1020 115 160 3650 3850 2190	Class 2,A 1020 115 160 3650 3850 2190	Class 2,A 1020 115 160 3650 3850 2190	Class 2,A 1020 115 160 3775 3905 2240	Class 2,A 1020 115 160 3775 3905 2240	Class 2,A 1020 115 160 3775 3905 2240	Class 2,A 1020 115 160 3775 3905 2240	Class 3,A 1060 135 185 3930 4060 2370	Class 3,A 1060 135 185 3930 4060 2370	Class 3,A 1060 135 185 3930 4060 2370	Class 3,A 1060 135 185 4055 4185 2480	Class 3,A 1060 135 185 4055 4185 2480	Class 2,A 960 105 115 3410 3610 1980	Class 2,A 960 105 115 3555 3685 2050	Class 3,A 940 105 115 3620 3750 2110
4.24 4.31 4.32 4.33 4.34	Width, Fork Carriage Ground Clearance Right Angle Stacking Aisle	b2 m1 Under Mast m2 at Center of Wheelbase Ast with L1000 x W1200 pallet Ast with L1200 x W800 pallet Wa Loaded, 1st/2nd	mm mm e mm et mm mm mm km/h	Class 2,A 970 120 130 3315 3515 1915 19.0[9.0/19.0]	Class 2,A 970 120 130 3315 3515 1915 19.0[8.5/19.0]	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5]	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/19.0]	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5]	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5]	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5]	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5]	Class 2,A 1020 115 160 3650 3850 2190 18.5	Class 2,A 1020 115 160 3650 3850 2190 18.5[8.5/18.5	Class 2,A 1020 115 160 3650 3850 2190	Class 2,A 1020 115 160 3650 3850 2190 18.5	Class 2,A 1020 115 160 3775 3905 2240 18.5	Class 2,A 1020 115 160 3775 3905 2240 18.5[8.5/18.5]	Class 2,A 1020 115 160 3775 3905 2240	Class 2,A 1020 115 160 3775 3905 2240 18.5	Class 3,A 1060 135 185 3930 4060 2370 18.5	Class 3,A 1060 135 185 3930 4060 2370 17.0[7.5/17.0	Class 3,A 1060 135 185 3930 4060 2370 0] 18.5	Class 3,A 1060 135 185 4055 4185 2480 18.0	Class 3,A 1060 135 185 4055 4185 2480 18.0	Class 2,A 960 105 115 3410 3610 1980 17.0	Class 2,A 960 105 115 3555 3685 2050 16.5	Class 3,A 940 105 115 3620 3750 2110 16.0
4.24 4.31 4.32 4.33 4.34	Width, Fork Carriage Ground Clearance Right Angle Stacking Aisle Turning Radius	b2 m1 Under Mast m2 at Center of Wheelbase Ast with L1000 x W1200 pallet Ast with L1200 x W800 pallet Wa Loaded, 1st/2nd Unloaded, 1st/2nd	mm mm e mm mm mm km/h km/h	Class 2,A 970 120 130 3315 3515 1915 19.0[9.0/19.0]	Class 2,A 970 120 130 3315 3515 1915 19.0[8.5/19.0] 19.5[8.5/19.5]	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0]	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/19.0] 19.0[8.5/19.5]	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0]	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0]	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[8.5/19.0]	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0]	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0	Class 2,A 1020 115 160 3650 3850 2190 18.5[8.5/18.5 19.0[8.5/19.0	Class 2,A 1020 115 160 3650 3850 2190 19.0	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0	Class 2,A 1020 115 160 3775 3905 2240 18.5[8.5/18.5] 19.0[8.5/19.0]	Class 2,A 1020 115 160 3775 3905 2240 19.0	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0	Class 3,A 1060 135 185 3930 4060 2370 18.5 19.5	Class 3,A 1060 135 185 3930 4060 2370 17.0[7.5/17.0	Class 3,A 1060 135 185 3930 4060 2370 0] 18.5 5] 19.0	Class 3,A 1060 135 185 4055 4185 2480 18.0 19.0	Class 3,A 1060 135 185 4055 4185 2480 18.0 18.5	Class 2,A 960 105 115 3410 3610 1980 17.0 16.5	Class 2,A 960 105 115 3555 3685 2050 16.5	Class 3,A 940 105 115 3620 3750 2110 16.0
4.24 4.31 4.32 4.33 4.34	Width, Fork Carriage Ground Clearance Right Angle Stacking Aisle Turning Radius	b2 m1	mm mm e mm mm mm mm mm km/h km/h mm/s	Class 2,A 970 120 130 3315 3515 1915 19.0[9.0/19.0] 580	Class 2,A 970 120 130 3315 3515 1915 19.0[8.5/19.0] 19.5[8.5/19.5] 620	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 570	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/19.0] 19.0[8.5/19.5] 620	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0]	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 570	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[8.5/19.0] 620	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0]	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 545	Class 2,A 1020 115 160 3650 3850 2190 18.5[8.5/18.5 19.0[8.5/19.0	Class 2,A 1020 115 160 3650 3850 2190 19.0 19.5 620	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 660	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0	Class 2,A 1020 115 160 3775 3905 2240 18.5[8.5/18.5] 19.0[8.5/19.0]	Class 2,A 1020 115 160 3775 3905 2240 19.0 19.5 620	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 660	Class 3,A 1060 135 185 3930 4060 2370 18.5 19.5 515	Class 3,A 1060 135 185 3930 4060 2370 17.0[7.5/17.6 490	Class 3,A 1060 135 185 3930 4060 2370 0] 18.5 5] 19.0 550	Class 3,A 1060 135 185 4055 4185 2480 18.0 19.0	Class 3,A 1060 135 185 4055 4185 2480 18.0 18.5 450	Class 2,A 960 105 115 3410 3610 1980 17.0 16.5 545	Class 2,A 960 105 115 3555 3685 2050 16.5 16.5 545	Class 3,A 940 105 115 3620 3750 2110 16.0 515
4.24 4.31 4.32 4.33 4.34 4.35 5.1	Width, Fork Carriage Ground Clearance Right Angle Stacking Aisle Turning Radius Travel Speed (FWD)	b2 m1	mm mm e mm mm mm mm mm mm mm km/h km/h mm/s	Class 2,A 970 120 130 3315 3515 1915 19.0[9.0/19.0] 580 640	Class 2,A 970 120 130 3315 3515 1915 19.0[8.5/19.0] 620 670	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/19.0] 19.0[8.5/19.5] 620 670	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[8.5/19.0] 620 670	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 545	Class 2,A 1020 115 160 3650 3850 2190 18.5[8.5/18.5 19.0[8.5/19.0 590 630	Class 2,A 1020 115 160 3650 3850 2190 19.0 19.5 620 670	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 660 710	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 545 600	Class 2,A 1020 115 160 3775 3905 2240 18.5[8.5/18.5] 19.0[8.5/19.0] 590	Class 2,A 1020 115 160 3775 3905 2240 19.0 19.5 620 670	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 660 710	Class 3,A 1060 135 185 3930 4060 2370 18.5 19.5 515	Class 3,A 1060 135 185 3930 4060 2370 17.0[7.5/17.0 17.5[8.0/17.5]	Class 3,A 1060 135 185 3930 4060 2370 0] 18.5 5] 19.0 550 595	Class 3,A 1060 135 185 4055 4185 2480 18.0 19.0 410	Class 3,A 1060 135 185 4055 4185 2480 18.0 18.5 450 490	Class 2,A 960 105 115 3410 3610 1980 17.0 16.5 545 600	Class 2,A 960 105 115 3555 3685 2050 16.5 16.5 545 600	Class 3,A 940 105 115 3620 3750 2110 16.0 515 550
4.24 4.31 4.32 4.33 4.34 4.35 5.1	Width, Fork Carriage Ground Clearance Right Angle Stacking Aisle Turning Radius Travel Speed (FWD)	b2 m1 Under Mast m2 at Center of Wheelbase Ast with L1000 x W1200 pallet Ast with L1200 x W800 pallet Wa Loaded, 1st/2nd Unloaded, 1st/2nd Loaded Unloaded Loaded Loaded	mm mm e mm mm e mm mm mm mm km/h km/h mm/s mm/s	Class 2,A 970 120 130 3315 3515 1915 19.0[9.0/19.0] 580 640 500	Class 2,A 970 120 130 3315 3515 1915 19.0[8.5/19.0] 19.5[8.5/19.5] 620 670 500	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/19.0] 19.0[8.5/19.5] 620 670 500	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 500	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[8.5/19.0] 620 670 500	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 500	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 545 600	Class 2,A 1020 115 160 3650 3850 2190 18.5[8.5/18.5 19.0[8.5/19.0 590 630 450	Class 2,A 1020 115 160 3650 3850 2190 19.0 19.5 620 670 450	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 660 710	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 545 600 450	Class 2,A 1020 115 160 3775 3905 2240 18.5[8.5/18.5] 19.0[8.5/19.0] 590 630 450	Class 2,A 1020 115 160 3775 3905 2240 19.0 19.5 620 670 450	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 660 710 450	Class 3,A 1060 135 185 3930 4060 2370 18.5 19.5 515 550 420	Class 3,A 1060 135 185 3930 4060 2370 17.0[7.5/17.0 17.5[8.0/17.5] 490 530	Class 3,A 1060 135 185 3930 4060 2370 0)1 18.5 55] 19.0 550 595	Class 3,A 1060 135 185 4055 4185 2480 18.0 19.0 410 450	Class 3,A 1060 135 185 4055 4185 2480 18.0 18.5 450 490	Class 2,A 960 105 115 3410 3610 1980 17.0 16.5 545 600 450	Class 2,A 960 105 115 3555 3685 2050 16.5 16.5 545 600 450	Class 3,A 940 105 115 3620 3750 2110 16.0 15.0 515 550 420
4.24 4.31 4.32 4.33 4.34 4.35 5.1 5.2	Width, Fork Carriage Ground Clearance Right Angle Stacking Aisle Turning Radius Travel Speed (FWD) Lifting Speed Lowering Speed	b2 m1 Under Mast m2 at Center of Wheelbase Ast with L1000 x W1200 pallet Ast with L1200 x W800 pallet Wa Loaded, 1st/2nd Unloaded, 1st/2nd Loaded Unloaded Unloaded Unloaded	mm mm e mm mm mm km/h km/h mm/s mm/s mm/s	Class 2,A 970 120 130 3315 3515 1915 19.0[9.0/19.0] 580 640 500 550	Class 2,A 970 120 130 3315 3515 1915 19.0[8.5/19.0] 19.5[8.5/19.5] 620 670 500	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640 500	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/19.0] 19.0[8.5/19.5] 620 670 500	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 500 550	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640 500	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[8.5/19.0] 620 670 500	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 500	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 545 600 450	Class 2,A 1020 115 160 3650 3850 2190 18.5[8.5/18.5 19.0[8.5/19.0 630 450	Class 2,A 1020 115 160 3650 3850 2190 19.5 620 670 450	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 660 710 450	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 545 600 450	Class 2,A 1020 115 160 3775 3905 2240 18.5[8.5/18.5] 19.0[8.5/19.0] 590 630 450	Class 2,A 1020 115 160 3775 3905 2240 19.0 19.5 620 670 450 500	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 660 710 450	Class 3,A 1060 135 185 3930 4060 2370 18.5 515 550 420 500	Class 3,A 1060 135 185 3930 4060 2370 17.0[7.5/17.0 17.5[8.0/17.5] 490 530 420 500	Class 3,A 1060 135 185 3930 4060 2370 0) 18.5 50] 19.0 550 595 420 500	Class 3,A 1060 135 185 4055 4185 2480 18.0 19.0 410 450 400	Class 3,A 1060 135 185 4055 4185 2480 18.0 18.5 450 490 420	Class 2,A 960 105 115 3410 3610 1980 17.0 16.5 545 600 450	Class 2,A 960 105 115 3555 3685 2050 16.5 16.5 545 600 450	Class 3,A 940 105 115 3620 3750 2110 16.0 515 550 420 500
4.24 4.31 4.32 4.33 4.34 4.35 5.1 5.2 5.3 5.6	Width, Fork Carriage Ground Clearance Right Angle Stacking Aisle Turning Radius Travel Speed (FWD) Lifting Speed Lowering Speed Max. Drawbar Pull	b2 m1 Under Mast m2 at Center of Wheelbase Ast with L1000 x W1200 pallet Ast with L1200 x W800 pallet Wa Loaded, 1st/2nd Unloaded, 1st/2nd Unloaded Unloaded Unloaded Unloaded Loaded Unloaded Loaded Loaded	mm mm e mm mm mm mm km/h km/h mm/s mm/s mm/s mm/s kN	Class 2,A 970 120 130 3315 3515 1915 19.0[9.0/19.0] 580 640 500 550 10[11]	Class 2,A 970 120 130 3315 3515 1915 19.0[8.5/19.0] 19.5[8.5/19.5] 620 670 500 550 13[14]	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640 500 550 10[11]	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/19.0] 19.0[8.5/19.5] 620 670 500 550	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 500 550 15[14]	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640 500 550 10[11]	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[8.5/19.0] 620 670 500 550 13[14]	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 500 550 15[14]	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 545 600 450 500	Class 2,A 1020 115 160 3650 3850 2190 18.5[8.5/18.5 19.0[8.5/19.0 630 450 500 14[13]	Class 2,A 1020 115 160 3650 3850 2190 19.0 19.5 620 670 450 19	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 660 710 450 500	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 545 600 450 500	Class 2,A 1020 115 160 3775 3905 2240 18.5[8.5/18.5] 19.0[8.5/19.0] 590 630 450 500 14[13]	Class 2,A 1020 115 160 3775 3905 2240 19.0 19.5 620 670 450 500	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 660 710 450 500	Class 3,A 1060 135 185 3930 4060 2370 18.5 19.5 515 550 420 500 18	Class 3,A 1060 135 185 3930 4060 2370 17.0[7.5/17.0 17.5[8.0/17.5] 490 530 420 500 14[14]	Class 3,A 1060 135 185 3930 4060 2370 0] 18.5 5] 19.0 550 595 420 500 17	Class 3,A 1060 135 185 4055 4185 2480 18.0 19.0 410 450 400	Class 3,A 1060 135 185 4055 4185 2480 18.0 18.5 450 490 420 400	Class 2,A 960 105 115 3410 3610 1980 17.0 16.5 545 600 450 500	Class 2,A 960 105 115 3555 3685 2050 16.5 545 600 450 500	Class 3,A 940 105 115 3620 3750 2110 16.0 1515 550 420 500 16
4.24 4.31 4.32 4.33 4.34 4.35 5.1 5.2 5.3 5.6 5.8	Width, Fork Carriage Ground Clearance Right Angle Stacking Aisle Turning Radius Travel Speed (FWD) Lifting Speed Lowering Speed Max. Drawbar Pull Max. Gradeability	b2 m1 Under Mast m2 at Center of Wheelbase Ast with L1000 x W1200 pallet Ast with L1200 x W800 pallet Wa Loaded, 1st/2nd Unloaded, 1st/2nd Loaded Unloaded Unloaded Loaded Unloaded Loaded Loaded Loaded Loaded	mm mm e mm mm mm km/h km/h mm/s mm/s mm/s	Class 2,A 970 120 130 3315 3515 1915 19.0[9.0/19.0] 19.0[9.0/19.0] 580 640 500 550 10[11] 34[38]	Class 2,A 970 120 130 3315 3515 1915 19.0[8.5/19.0] 19.5[8.5/19.5] 620 670 500 550 13[14] 49[41]	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640 500 550 10[11] 26[27]	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/19.0] 19.0[8.5/19.5] 620 670 500 550 13[14] 33[31]	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 500 550 15[14] 37[35]	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640 500 550 10[11] 25[24]	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[8.5/19.0] 620 670 500 550 13[14] 29[28]	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 500 550 15[14] 33[32]	Class 2,A 1020 115 160 3850 3850 2190 18.5 19.0 545 600 450 500 14	Class 2,A 1020 115 160 3650 3850 2190 18.5[8.5/18.5 19.0[8.5/19.0 630 450 500 14[13] 28[26]	Class 2,A 1020 115 160 3650 3850 2190 19.0 19.5 620 670 450 500 19 38	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 660 710 450 500 18	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 545 600 450 500 14	Class 2,A 1020 115 160 3775 3905 2240 18.5[8.5/18.5] 19.0[8.5/19.0] 630 450 500 14[13] 23[22]	Class 2,A 1020 115 160 3775 3905 2240 19.0 19.5 620 670 450 500 19	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 660 710 450 500 18	Class 3,A 1060 135 185 3930 4060 2370 18.5 19.5 515 550 420 500 18	Class 3,A 1060 135 185 3930 4060 2370 17.0[7.5/17.0 17.5[8.0/17.5 490 530 420 500 14[14] 20[20]	Class 3,A 1060 135 185 3930 4060 2370 0] 18.5 5] 19.0 550 595 420 500 17	Class 3,A 1060 135 185 4055 4185 2480 18.0 19.0 410 450 400 17 20	Class 3,A 1060 135 185 4055 4185 2480 18.0 18.5 450 490 420 400 17 21	Class 2,A 960 105 115 3410 3610 1980 17.0 16.5 545 600 450 500 14	Class 2,A 960 105 115 3555 3685 2050 16.5 16.5 545 600 450 500 14	Class 3,A 940 105 115 3620 3750 2110 16.0 16.0 550 420 500 16 24
4.24 4.31 4.32 4.33 4.34 4.35 5.1 5.2 5.3 5.6 6.5 8.5 5.10	Width, Fork Carriage Ground Clearance Right Angle Stacking Aisle Turning Radius Travel Speed (FWD) Lifting Speed Lowering Speed Max. Drawbar Pull Max. Gradeability Service Brake	b2 m1 Under Mast m2 at Center of Wheelbase Ast with L1000 x W1200 pallet Ast with L1200 x W800 pallet Wa Loaded, 1st/2nd Unloaded, 1st/2nd Loaded Unloaded Unloaded Loaded Unloaded Loaded Unloaded Loaded Operation/Control	mm mm e mm mm mm mm km/h km/h mm/s mm/s mm/s mm/s kN	Class 2,A 970 120 130 3315 3515 1915 19.0[9.0/19.0] 19.0[9.0/19.0] 580 640 500 550 10[11] 34[38] Foot/Hydraulic	Class 2,A 970 120 130 3315 3515 1915 19.0[8.5/19.0] 19.5[8.5/19.5] 620 670 500 550 13[14] 49[41] Foot/Hydraulic	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640 500 550 10[11] 26[27] Foot/Hydraulic	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/19.0] 19.0[8.5/19.5] 620 670 500 550 13[14] 33[31] Foot/Hydraulic	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 500 550 15[14] 37[35] Foot/Hydraulic	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640 500 550 10[11] 25[24] Foot/Hydraulic	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[8.5/19.0] 620 670 500 550 13[14] 29[28] Foot/Hydraulic	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 550 15[14] 33[32] Foot/Hydraulic	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 545 600 450 500 14 28 Foot/Hydraulic	Class 2,A 1020 115 160 3650 3850 2190 18.5[8.5/18.5 19.0[8.5/19.0 590 630 450 500 14[13] 28[26] Foot/Hydraulic	Class 2,A 1020 115 160 3650 3850 2190 19.0 19.5 620 670 450 500 19 38 Foot/Hydraulic	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 660 710 450 500 18 37 Foot/Hydraulic	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 545 600 450 500 14 23	Class 2,A 1020 115 160 3775 3905 2240 18.5[8.5/18.5] 19.0[8.5/19.0] 590 630 450 500 14[13] 23[22] FOOU/Hydraulic	Class 2,A 1020 115 160 3775 3905 2240 19.0 19.5 620 670 450 500 19 32 Foot/Hydraulic	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 660 710 450 500 18 31	Class 3,A 1060 135 185 3930 4060 2370 18.5 19.5 515 550 420 500 18 26 Foot/Hydraulic	Class 3,A 1060 135 185 3930 4060 2370 17.0[7.5/17.0 490 530 420 500 14[14] 20[20]	Class 3,A 1060 135 185 3930 4060 2370 0] 18.5 5] 19.0 550 420 500 17 25 c Foot/Hydraulic	Class 3,A 1060 135 185 4055 4185 2480 18.0 19.0 410 450 400 17 20 Foot/Hydraulic	Class 3,A 1060 135 185 4055 4185 2480 18.0 18.5 450 490 420 400 17 21 Foot/Hydraulic	Class 2,A 960 105 115 3410 3610 1980 17.0 16.5 545 600 450 500 14 27 Foot/Hydraulic	Class 2,A 960 105 115 3555 3685 2050 16.5 16.5 545 600 450 500 14 23 c Foot/Hydraulic	Class 3,A 940 105 115 3620 3750 2110 16.0 16.0 515 550 420 500 16 24 Foot/Hydraulic
4.244 4.31 4.32 4.33 4.34 4.35 5.1 5.2 5.3 5.6 6.6 6.8 6.10 5.11	Width, Fork Carriage Ground Clearance Right Angle Stacking Aisle Turning Radius Travel Speed (FWD) Lifting Speed Lowering Speed Max. Drawbar Pull Max. Gradeability Service Brake Parking Brake	b2 m1 Under Mast m2 at Center of Wheelbase Ast with L1000 x W1200 pallet Ast with L1200 x W800 pallet Wa Loaded, 1st/2nd Unloaded, 1st/2nd Loaded Unloaded Unloaded Loaded Unloaded Loaded Operation/Control Operation/Control	mm mm e mm mm mm mm km/h km/h mm/s mm/s mm/s mm/s kN	Class 2,A 970 120 130 3315 3515 1915 19.0[9.0/19.0] 19.0[9.0/19.0] 580 640 500 550 10[11] 34[38] Foot/Hydraulic	Class 2,A 970 120 130 3315 3515 1915 19.0[8.5/19.0] 19.5[8.5/19.5] 620 670 550 13[14] 49[41] Foot/Hydraulic	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640 500 550 10[11] 26[27] Foot/Hydraulic	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/19.0] 19.0[8.5/19.5] 620 670 500 550 13[14] 33[31] Foot/Hydraulic	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 500 550 15[14] 37[35] Foot/Hydraulic	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640 500 550 10[11] 25[24] Foot/Hydraulic	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[8.5/19.0] 620 670 500 550 13[14] 29[28] Foot/Hydraulic	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 550 15[14] 33[32] Foot/Hydraulic Hand/Mechanical	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 545 600 450 500 14 28 Foot/Hydraulic Hand/Mechanical	Class 2,A 1020 115 160 3650 3850 2190 18.5[8.5/18.5 19.0[8.5/19.0 590 630 450 500 14[13] 28[26] Foot/Hydraulic	Class 2,A 1020 115 160 3650 3850 2190 19.0 19.5 620 670 450 500 19 38 Foot/Hydraulic	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 660 710 450 500 18 37 Foot/Hydraulic J Hand/Mechanica	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 545 600 450 500 14 23 Foot/Hydraulic Il Hand/Mechanical	Class 2,A 1020 115 160 3775 3905 2240 18.5[8.5/18.5] 19.0[8.5/19.0] 590 630 450 500 14[13] 23[22] Foot/Hydraulic I Hand/Mechanical	Class 2,A 1020 115 160 3775 3905 2240 19.0 19.5 620 670 450 500 19 32 Foot/Hydraulic	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 660 710 450 500 18 31 : Foot/Hydraulic	Class 3,A 1060 135 185 3930 4060 2370 18.5 19.5 515 550 420 500 18 26 Foot/Hydraulic	Class 3,A 1060 135 185 3930 4060 2370 17.0[7.5/17.0 490 530 420 500 14[14] 20[20] Foot/Hydraulid	Class 3,A 1060 135 185 3930 4060 2370 0] 18.5 5] 19.0 550 595 420 500 17 25 c Foot/Hydraulic al Hand/Mechanical	Class 3,A 1060 135 185 4055 4185 2480 18.0 19.0 410 450 400 17 20 Foot/Hydraulic I Hand/Mechanical	Class 3,A 1060 135 185 4055 4185 2480 18.0 18.5 450 490 420 400 17 21 Foot/Hydraulic	Class 2,A 960 105 115 3410 3610 1980 17.0 16.5 545 600 450 500 14 27 Foot/Hydraulic	Class 2,A 960 105 115 3555 3685 2050 16.5 16.5 545 600 450 500 14 23 c Foot/Hydraulic	Class 3,A 940 105 115 3620 3750 2110 16.0 16.0 515 550 420 500 16 24 Foot/Hydraulic al Hand/Mechanical
4.24 4.31 4.32 4.33 4.34 4.35 5.1 5.2 5.3 5.6 6.6 8.8 5.10 5.11 5.12	Width, Fork Carriage Ground Clearance Right Angle Stacking Aisle Turning Radius Travel Speed (FWD) Lifting Speed Lowering Speed Max. Drawbar Pull Max. Gradeability Service Brake Parking Brake Steering	b2 m1 Under Mast m2 at Center of Wheelbase Ast with L1000 x W1200 pallet Ast with L1200 x W800 pallet Wa Loaded, 1st/2nd Unloaded, 1st/2nd Loaded Unloaded Unloaded Loaded Unloaded Loaded Operation/Control Type	mm mm e mm mm mm mm km/h km/h mm/s mm/s mm/s mm/s mm/s mm/s mm/s m	Class 2,A 970 120 130 3315 3515 1915 19.0[9.0/19.0] 19.0[9.0/19.0] 580 640 500 550 10[11] 34[38] Foot/Hydraulic Hand/Mechanica	Class 2,A 970 120 130 3315 3515 1915 19.0[8.5/19.0] 19.5[8.5/19.5] 620 670 550 13[14] 49[41] Foot/Hydraulic I Hand/Mechanical FHPS	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640 550 10[11] 26[27] Foot/Hydraulic Hand/Mechanical	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/19.0] 19.0[8.5/19.5] 620 670 550 13[14] 33[31] Foot/Hydraulic I Hand/Mechanical	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 500 550 15[14] 37[35] Foot/Hydraulic Hand/Mechanical	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640 500 550 10[11] 25[24] Foot/Hydraulic I Hand/Mechanical	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[8.5/19.0] 620 670 550 13[14] 29[28] Foot/Hydraulic Hand/Mechanica	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 550 15[14] 33[32] Foot/Hydraulic Hand/Mechanical FHPS	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 545 600 450 500 14 28 Foot/Hydraulic Hand/Mechanical FHPS	Class 2,A 1020 115 160 3650 3850 2190 18.5[8.5/18.5 19.0[8.5/19.0 590 630 450 500 14[13] 28[26] Foot/Hydraulic Hand/Mechanical	Class 2,A 1020 115 160 3650 3850 2190 19.0 19.5 620 670 450 500 19 38 Foot/Hydraulic Hand/Mechanical	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 660 710 450 500 18 37 Foot/Hydraulic I Hand/Mechanica	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 545 600 450 500 14 23 FOOt/Hydraulic Hand/Mechanica	Class 2,A 1020 115 160 3775 3905 2240 18.5[8.5/18.5] 19.0[8.5/19.0] 590 630 450 500 14[13] 23[22] Foot/Hydraulic I Hand/Mechanical	Class 2,A 1020 115 160 3775 3905 2240 19.0 19.5 620 670 450 500 19 32 Foot/Hydraulic Hand/Mechanica	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 660 710 450 500 18 31 Foot/Hydraulic I Hand/Mechanical	Class 3,A 1060 135 185 3930 4060 2370 18.5 19.5 515 550 420 500 18 26 Foot/Hydraulic Hand/Mechanica	Class 3,A 1060 135 185 3930 4060 2370 17.0[7.5/17.0] 490 530 420 500 14[14] 20[20] Foot/Hydraulic Hand/Mechanics	Class 3,A 1060 135 185 3930 4060 2370 0] 18.5 5] 19.0 550 595 420 500 17 25 c Foot/Hydraulic al Hand/Mechanical FHPS	Class 3,A 1060 135 185 4055 4185 2480 18.0 19.0 410 450 400 17 20 Foot/Hydraulic Hand/Mechanical FHPS	Class 3,A 1060 135 185 4055 4185 2480 18.0 18.5 450 490 420 400 17 21 Foot/Hydraulic Hand/Mechanical	Class 2,A 960 105 115 3410 3610 1980 17.0 16.5 545 600 450 500 14 27 Foot/Hydraulic Hand/Mechanica	Class 2,A 960 105 115 3555 3685 2050 16.5 16.5 545 600 14 23 C Foot/Hydraulic al Hand/Mechanical FHPS	Class 3,A 940 105 115 3620 3750 2110 16.0 16.0 515 550 420 500 16 24 FFOV/Hydraulic al Hand/Mechanical FHPS
4.24 4.31 4.32 4.33 4.34 4.35 5.1 5.2 5.3 5.10 5.10 5.11 5.12	Width, Fork Carriage Ground Clearance Right Angle Stacking Aisle Turning Radius Travel Speed (FWD) Lifting Speed Lowering Speed Max. Drawbar Pull Max. Gradeability Service Brake Parking Brake Steering Battery	b2 m1 Under Mast m2 at Center of Wheelbase Ast with L1000 x W1200 pallet Ast with L1200 x W800 pallet Wa Loaded, 1st/2nd Unloaded, 1st/2nd Loaded Unloaded Unloaded Loaded Unloaded Loaded Operation/Control Operation/Control	mm mm e mm mm mm mm km/h km/h mm/s mm/s mm/s mm/s mm/s mm/s mm/s m	Class 2,A 970 120 130 3315 3515 1915 19.0[9.0/19.0] 580 640 500 550 10[11] 34[38] Foot/Hydraulic Hand/Mechanica FHPS 12/33	Class 2,A 970 120 130 3315 3515 1915 19.0[8.5/19.0] 19.5[8.5/19.5] 620 670 500 550 13[14] 49[41] Foot/Hydraulic Hand/Mechanical FHPS 12/64	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640 500 550 10[11] 26[27] Foot/Hydraulic Hand/Mechanical FHPS 12/33	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/19.0] 19.0[8.5/19.5] 620 670 500 550 13[14] 33[31] Foot/Hydraulic Hand/Mechanical FHPS 12/64	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 500 550 15[14] 37[35] Foot/Hydraulic Hand/Mechanical FHPS 12/33	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640 500 550 10[11] 25[24] Froot/Hydraulic Hand/Mechanical FHPS 12/33	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[8.5/19.0] 620 670 500 550 13[14] 29[28] Foot/Hydraulic Hand/Mechanica FHPS 12/64	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 500 550 15[14] 33[32] FOot/Hydraulic Hand/Mechanical FHPS 12/33	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 545 600 450 500 14 28 FOot/Hydraulic Hand/Mechanical FHPS 12/33	Class 2,A 1020 115 160 3650 3850 2190 18.5[8.5/18.5 19.0[8.5/19.0 590 630 450 500 14[13] 28[26] Foot/Hydraulic Hand/Mechanical FHPS 12/64	Class 2,A 1020 115 160 3650 3850 2190 19.5 620 670 450 500 19 38 Foot/Hydraulic Hand/Mechanical FHPS 12/33	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 660 710 450 500 18 37 Foot/Hydraulic Hand/Mechanica FHPS 12/64	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 545 600 450 500 14 23 5 Foot/Hydraulic Hand/Mechanical FHPS 12/33	Class 2,A 1020 115 160 3775 3905 2240 18.5[8.5/18.5] 19.0[8.5/19.0] 590 630 450 500 14[13] 23[22] 5700/Hydraulic HandMechanical FHPS 12/64	Class 2,A 1020 115 160 3775 3905 2240 119.0 19.5 620 670 450 500 19 32 Foot/Hydraulic Hand/Mechanica FHPS 12/33	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 660 710 450 500 18 31 FOOt/Hydraulic Hand/Mechanical FHPS 12/64	Class 3,A 1060 135 185 3930 4060 2370 18.5 19.5 515 550 420 500 18 26 Foot/Hydraulic Hand/Mechanica FHPS 12/33	Class 3,A 1060 135 185 3930 4060 2370 17.0[7.5/17.0 17.5[8.0/17.8 490 530 420 500 14[14] 20[20] 5 Foot/Hydraulid Hand/Mechanics FHPS 12/64	Class 3,A 1060 135 185 3930 4060 2370 0] 18.5 55] 19.0 550 595 420 500 17 25 c Foot/Hydraulic al Hand/Mechanical FHPS 12/64	Class 3,A 1060 135 185 4055 4185 2480 18.0 19.0 410 450 400 400 17 20 Foot/Hydraulic Hand/Mechanical FHPS 12/33	Class 3,A 1060 135 185 4055 4185 2480 18.5 450 490 420 400 17 21 Foot/Hydraulic Hand/Mechanical FHPS 12/64	Class 2,A 960 105 115 3410 3610 1980 17.0 16.5 545 600 450 500 14 27 Foot/Hydraulic Hand/Mechanica FHPS	Class 2,A 960 105 115 3555 3685 2050 16.5 16.5 545 600 450 500 14 23 c Foot/Hydraulic al Hand/Mechanical FHPS 12/33	Class 3,A 940 105 115 3620 3750 2110 16.0 16.0 515 550 420 500 16 24 25 Foot/Hydraulic Hand/Mechanical FHPS 12/33
4.24 4.31 4.32 4.33 4.34 4.35 5.1 5.2 5.3 5.10 5.10 5.12 6.4 7.1	Width, Fork Carriage Ground Clearance Right Angle Stacking Aisle Turning Radius Travel Speed (FWD) Lifting Speed Lowering Speed Max. Drawbar Pull Max. Gradeability Service Brake Parking Brake Steering Battery Maker Model	b2 m1 Under Mast m2 at Center of Wheelbase Ast with L1000 x W1200 pallet Ast with L1200 x W800 pallet Wa Loaded, 1st/2nd Unloaded, 1st/2nd Loaded Unloaded Unloaded Loaded Unloaded Loaded Operation/Control Type	mm mm mm mm mm mm km/h km/h mm/s mm/s mm/s KN %	Class 2,A 970 120 130 3315 3515 1915 1915 19.0[9.0/19.0] 580 640 500 550 10[11] 34[38] Foot/Hydraulic Hand/Mechanica FHPS 12/33 NISSAN K15	Class 2,A 970 120 130 3315 3515 1915 1915 19.0[8.5/19.0] 620 670 500 550 13[14] 49[41] Foot/Hydraulic I Hand/Mechanical FHPS 12/64 Komatsu 4D92E	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640 500 10[11] 26[27] Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K15	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/19.0] 19.0[8.5/19.5] 620 670 500 13[14] 33[31] Foot/Hydraulic I Hand/Mechanical FHPS 12/64 Komatsu 4D92E	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 500 550 15[14] 37[35] Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K21	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640 500 10[11] 25[24] Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K15	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[8.5/19.0] 620 670 500 13[14] 29[28] Foot/Hydraulic Hand/Mechanica FHPS 12/64 Komatsu 4D92E	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 500 550 15[14] 33[32] Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K21	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 545 600 450 500 14 28 Froot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K21	Class 2,A 1020 115 160 3650 3850 2190 18.5[8.5/18.5 19.0[8.5/19.0 590 630 450 500 14[13] 28[26] Foot/Hydraulic Hand/Mechanical FHPS 12/64 Komatsu 4D94L	Class 2,A 1020 115 160 3650 3850 2190 119.5 620 670 450 500 19 38 FOOU'Hydraulic Hand/Mechanical FHPS 12/33 ENISSAN K25	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 660 710 450 500 18 37 : Foot/Hydraulic J Hand/Mechanica FHPS 12/64 i Komatsu 4D98E	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 545 600 450 500 14 23 2 Foot/Hydraulic al Hand/Mechanical FHPS 12/33 E NISSAN K21	Class 2,A 1020 115 160 3775 3905 2240 18.5[8.5/18.5] 19.0[8.5/19.0] 590 630 450 500 14[13] 23[22] 2 Foot/Hydraulic I Hand/Mechanical FHPS 12/64 Komatsu 4D94LE	Class 2,A 1020 115 160 3775 3905 2240 19.9 19.5 620 670 450 500 19 32 Froot/Hydraulic Hand/Mechanica FHPS 12/33 E NISSAN K25	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 660 710 450 500 18 31 : Foot/Hydraulic I Hand/Mechanical FHPS 12/64 Komatsu 4D98E	Class 3,A 1060 135 185 3930 4060 2370 18.5 19.5 515 550 420 500 18 26 FHPS 12/33 E NISSAN K25	Class 3,A 1060 135 185 3930 4060 2370 17.0[7.5/17.0 17.5[8.0/17.5 490 530 420 500 14[14] 20[20] : Foot/Hydraulic Hand/Mechanics FHPS 12/64 i Komatsu 4D94L	Class 3,A 1060 135 185 3930 4060 2370 0) 18.5 5) 19.0 550 595 420 500 17 25 c Foot/Hydraulic al Hand/Mechanical FHPS 12/64 E Komatsu 4D98	Class 3,A 1060 135 185 4055 4185 2480 18.0 19.0 410 450 400 17 20 Foot/Hydraulic Hand/Mechanical FHPS 12/33 E NISSAN K25	Class 3,A 1060 135 185 4055 4185 2480 18.5 450 490 420 400 17 21 Foot/Hydraulic Hand/Mechanical FHPS 12/64 Komatsu 4D98E	Class 2,A 960 105 115 3410 3610 1980 17.0 16.5 545 600 450 500 14 27 Foot/Hydraulic FHPS 12/33 NISSAN K21	Class 2,A 960 105 115 3555 3685 2050 16.5 16.5 545 600 450 500 14 23 c Foot/Hydraulic al Hand/Mechanical FHPS 12/33 1 NISSAN K21	Class 3,A 940 105 115 3620 3750 2110 16.0 515 550 420 500 16 24 5 Foot/Hydraulic al Hand/Mechanical FHPS 12/33 NISSAN K25
4.24 4.31 4.32 4.33 4.34 4.35 5.1 5.2 5.3 5.6 6.8 5.10 5.11 6.4 7.1 7.2	Width, Fork Carriage Ground Clearance Right Angle Stacking Aisle Turning Radius Travel Speed (FWD) Lifting Speed Lowering Speed Max. Drawbar Pull Max. Gradeability Service Brake Parking Brake Steering Battery Maker Model Rated Output, SAE net	b2 m1 Under Mast m2 at Center of Wheelbase Ast with L1000 x W1200 pallet Ast with L1200 x W800 pallet Wa Loaded, 1st/2nd Unloaded, 1st/2nd Loaded Unloaded Unloaded Loaded Unloaded Loaded Operation/Control Type	mm mm e mm mm mm km/h km/h mm/s mm/s KN %	Class 2,A 970 120 130 3315 3515 1915 190[9.0/19.0] 19.0[9.0/19.0] 580 640 500 550 10[11] 34[38] Foot/Hydraulic Hand/Mechanica FHPS 12/33 NISSAN K15 27.2@2500	Class 2,A 970 120 130 3315 3515 1915 1915 19.0[8.5/19.0] 620 670 500 13[14] 49[41] Foot/Hydraulic Hand/Mechanical FHPS 12/64 Komatsu 4D92E 34.6@2450	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640 500 550 10[11] 26[27] Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K15 27.2@2500	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/19.0] 19.0[8.5/19.5] 620 670 500 13[14] 33[31] Foot/Hydraulic Hand/Mechanical FHPS 12/64 Komatsu 4D92E 34.6@2450	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 500 550 15[14] 37[35] Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K21 34.6@2450	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640 500 550 10[11] 25[24] Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K15 27.2@2500	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[8.5/19.0] 620 670 500 13[14] 29[28] Foot/Hydraulic Hand/Mechanica FHPS 12/64 Komatsu 4D92E 34.6@2450	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 500 15[14] 33[32] Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K21 34.6@2450	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 545 600 450 500 14 28 Foot/Hydraulic HandMechanical FHPS 12/33 NISSAN K21 34.6@2450	Class 2,A 1020 115 160 3650 3850 2190 18.5[8.5/18.5 19.0[8.5/19.0 590 630 450 500 14[13] 28[26] Foot/Hydraulic Hand/Mechanical FHPS 12/64	Class 2,A 1020 115 160 3650 3850 2190 19.5 620 670 450 500 19 38 Foot/Hydraulic Hand/Mechanical FHPS 12/33	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 660 710 450 500 18 37 Foot/Hydraulic Hand/Mechanica FHPS 12/64	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 545 600 450 500 14 23 5 Foot/Hydraulic Hand/Mechanical FHPS 12/33	Class 2,A 1020 115 160 3775 3905 2240 18.5[8.5/18.5] 19.0[8.5/19.0] 590 630 450 500 14[13] 23[22] 5700/Hydraulic HandMechanical FHPS 12/64	Class 2,A 1020 115 160 3775 3905 2240 119.0 19.5 620 670 450 500 19 32 Foot/Hydraulic Hand/Mechanica FHPS 12/33	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 660 710 450 500 18 31 FOOt/Hydraulic Hand/Mechanical FHPS 12/64	Class 3,A 1060 135 185 3930 4060 2370 18.5 19.5 515 550 420 500 18 26 Foot/Hydraulic Hand/Mechanica FHPS 12/33	Class 3,A 1060 135 185 3930 4060 2370 17.0[7.5/17.0 17.5[8.0/17.8 490 530 420 500 14[14] 20[20] 5 Foot/Hydraulid Hand/Mechanics FHPS 12/64	Class 3,A 1060 135 185 3930 4060 2370 0) 18.5 5) 19.0 550 595 420 500 17 25 c Foot/Hydraulic al Hand/Mechanical FHPS 12/64 E Komatsu 4D98	Class 3,A 1060 135 185 4055 4185 2480 18.0 19.0 410 450 400 400 17 20 Foot/Hydraulic Hand/Mechanical FHPS 12/33	Class 3,A 1060 135 185 4055 4185 2480 18.5 450 490 420 400 17 21 Foot/Hydraulic Hand/Mechanical FHPS 12/64	Class 2,A 960 105 115 3410 3610 1980 17.0 16.5 545 600 450 500 14 27 Foot/Hydraulic FHPS 12/33 NISSAN K21	Class 2,A 960 105 115 3555 3685 2050 16.5 16.5 545 600 450 500 14 23 c Foot/Hydraulic al Hand/Mechanical FHPS 12/33 1 NISSAN K21 34.6@2450	Class 3,A 940 105 115 3620 3750 2110 16.0 15.5 550 420 500 16 24 25 Foot/Hydraulic 1 Hand/Mechanical FHPS 12/33
4.244 4.31 4.32 4.33 4.34 4.35 5.1 5.2 5.3 5.6 6.4 7.1 7.2 7.3 7.3	Width, Fork Carriage Ground Clearance Right Angle Stacking Aisle Turning Radius Travel Speed (FWD) Lifting Speed Lowering Speed Max. Drawbar Pull Max. Gradeability Service Brake Parking Brake Steering Battery Maker Model Rated Output, SAE net Rated RPM	b2 m1 Under Mast m2 at Center of Wheelbase Ast with L1000 x W1200 pallet Ast with L1200 x W800 pallet Wa Loaded, 1st/2nd Unloaded, 1st/2nd Loaded Unloaded Unloaded Loaded Unloaded Loaded Operation/Control Type	mm mm mm mm mm mm km/h km/h mm/s mm/s mm/s KN %	Class 2,A 970 120 130 3315 3515 1915 1915 19.0[9.0/19.0] 580 640 500 550 10[11] 34[38] Foot/Hydraulic Hand/Mechanica FHPS 12/33 NISSAN K15	Class 2,A 970 120 130 3315 3515 1915 1915 19.0[8.5/19.0] 620 670 500 550 13[14] 49[41] Foot/Hydraulic I Hand/Mechanical FHPS 12/64 Komatsu 4D92E	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640 500 10[11] 26[27] Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K15	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/19.0] 19.0[8.5/19.5] 620 670 500 13[14] 33[31] Foot/Hydraulic I Hand/Mechanical FHPS 12/64 Komatsu 4D92E	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 500 550 15[14] 37[35] Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K21	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640 500 10[11] 25[24] Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K15	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[8.5/19.0] 620 670 500 13[14] 29[28] Foot/Hydraulic Hand/Mechanica FHPS 12/64 Komatsu 4D92E	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 500 550 15[14] 33[32] Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K21	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 545 600 450 500 14 28 Froot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K21	Class 2,A 1020 115 160 3650 3850 2190 18.5[8.5/18.5 19.0[8.5/19.0 590 630 450 500 14[13] 28[26] Foot/Hydraulic Hand/Mechanical FHPS 12/64 Komatsu 4D94L	Class 2,A 1020 115 160 3650 3850 2190 119.5 620 670 450 500 19 38 FOOU'Hydraulic Hand/Mechanical FHPS 12/33 ENISSAN K25	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 660 710 450 500 18 37 : Foot/Hydraulic J Hand/Mechanica FHPS 12/64 i Komatsu 4D98E	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 545 600 450 500 14 23 2 Foot/Hydraulic al Hand/Mechanical FHPS 12/33 E NISSAN K21	Class 2,A 1020 115 160 3775 3905 2240 18.5[8.5/18.5] 19.0[8.5/19.0] 590 630 450 500 14[13] 23[22] 2 Foot/Hydraulic I Hand/Mechanical FHPS 12/64 Komatsu 4D94LE	Class 2,A 1020 115 160 3775 3905 2240 19.9 19.5 620 670 450 500 19 32 Froot/Hydraulic Hand/Mechanica FHPS 12/33 E NISSAN K25	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 660 710 450 500 18 31 : Foot/Hydraulic I Hand/Mechanical FHPS 12/64 Komatsu 4D98E	Class 3,A 1060 135 185 3930 4060 2370 18.5 19.5 515 550 420 500 18 26 FHPS 12/33 E NISSAN K25	Class 3,A 1060 135 185 3930 4060 2370 17.0[7.5/17.0 17.5[8.0/17.5 490 530 420 500 14[14] 20[20] : Foot/Hydraulic Hand/Mechanics FHPS 12/64 i Komatsu 4D94L	Class 3,A 1060 135 185 3930 4060 2370 0) 18.5 5) 19.0 550 595 420 500 17 25 c Foot/Hydraulic al Hand/Mechanical FHPS 12/64 E Komatsu 4D98	Class 3,A 1060 135 185 4055 4185 2480 18.0 19.0 410 450 400 17 20 Foot/Hydraulic Hand/Mechanical FHPS 12/33 E NISSAN K25	Class 3,A 1060 135 185 4055 4185 2480 18.5 450 490 420 400 17 21 Foot/Hydraulic Hand/Mechanical FHPS 12/64 Komatsu 4D98E	Class 2,A 960 105 115 3410 3610 1980 17.0 16.5 545 600 450 500 14 27 Foot/Hydraulic FHPS 12/33 NISSAN K21	Class 2,A 960 105 115 3555 3685 2050 16.5 16.5 545 600 450 500 14 23 c Foot/Hydraulic al Hand/Mechanical FHPS 12/33 1 NISSAN K21	Class 3,A 940 105 115 3620 3750 2110 16.0 15.5 550 420 500 16 24
4.24 4.31 4.32 4.33 4.34 4.35 5.1 5.2 5.3 5.6 5.8 5.10 5.11 5.12 7.7 7.7 7.3 7.3	Width, Fork Carriage Ground Clearance Right Angle Stacking Aisle Turning Radius Travel Speed (FWD) Lifting Speed Lowering Speed Max. Drawbar Pull Max. Gradeability Service Brake Parking Brake Steering Battery Maker Model Rated Output, SAE net Rated RPM Max. Torque, SAE net	b2 m1 Under Mast m2 at Center of Wheelbase Ast with L1000 x W1200 pallet Ast with L1200 x W800 pallet Wa Loaded, 1st/2nd Unloaded, 1st/2nd Loaded Unloaded Unloaded Loaded Unloaded Loaded Operation/Control Type	mm mm e mm mm mm km/h km/h mm/s mm/s KN %	Class 2,A 970 120 130 3315 3515 1915 190[9.0/19.0] 19.0[9.0/19.0] 580 640 500 550 10[11] 34[38] Foot/Hydraulic Hand/Mechanica FHPS 12/33 NISSAN K15 27.2@2500	Class 2,A 970 120 130 3315 3515 1915 19.0[8.5/19.0] 620 670 500 550 13[14] 49[41] Foot/Hydraulic Hand/Mechanical FHPS 12/64 Komatsu 4D92E 34.6@2450 2450 142@1800	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640 500 550 10[11] 26[27] Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K15 27.2@2500	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/19.0] 19.0[8.5/19.5] 620 670 500 13[14] 33[31] Foot/Hydraulic Hand/Mechanical FHPS 12/64 Komatsu 4D92E 34.6@2450	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 500 550 15[14] 37[35] Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K21 34.6@2450 2450 152@1600	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640 500 550 10[11] 25[24] Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K15 27.2@2500	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[8.5/19.0] 620 670 500 13[14] 29[28] Foot/Hydraulic Hand/Mechanica FHPS 12/64 Komatsu 4D92E 34.6@2450	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 500 15[14] 33[32] Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K21 34.6@2450	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 545 600 450 500 14 28 Foot/Hydraulic HandMechanical FHPS 12/33 NISSAN K21 34.6@2450	Class 2,A 1020 115 160 3650 3850 2190 18.5[8.5/18.5 19.0[8.5/19.0 590 630 450 500 14[13] 28[26] Foot/Hydraulic Hand/Mechanical FHPS 12/64 Komatsu 4D94L 34.2@2200	Class 2,A 1020 115 160 3650 3850 2190 119.5 620 670 450 500 19 38 Foot/Hydraulic Hand/Mechanical FHPS 12/33 ENISSAN K25 42.6@2400	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 660 710 450 500 18 37 Foot/Hydraulic Hand/Mechanica FHPS 12/64 Komatsu 4D98E 44.1@2450	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 545 600 450 500 14 23 Foot/Hydraulical Hand/Mechanical FHPS 12/33 ENISSAN K21 34.6@2450	Class 2,A 1020 115 160 3775 3905 2240 18.5[8.5/18.5] 19.0[8.5/19.0] 590 630 450 500 14[13] 23[22] 5 Foot/Hydraulic 1 Hand/Mechanical FHPS 12/64 Komatsu 4D94L8 34.2@2200	Class 2,A 1020 115 160 3775 3905 2240 19.9 19.5 620 670 450 500 19 32 Foot/Hydraulic FHPS 12/33 E NISSAN K25 42.6@2400	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 660 710 450 500 18 31 Foot/Hydraulic Hand/Mechanical FHPS 12/64 Komatsu 4D98E 44.1@2450	Class 3,A 1060 135 185 3930 4060 2370 18.5 19.5 515 550 420 500 18 26 Foot/Hydraulic Hand/Mechanica FHPS 12/33 E NISSAN K25 42.6@2400	Class 3,A 1060 135 185 3930 4060 2370 17.0[7.5/17.0 17.5[8.0/17.5 490 530 420 500 14[14] 20[20] 5 Foot/Hydraulid Hand/Mechanics FHPS 12/64 Komatsu 4D94L 34.2@2200	Class 3,A 1060 135 185 3930 4060 2370 0)1 18.5 50 19.0 550 595 420 500 17 25 c Foot/Hydraulical Hand/Mechanical FHPS 12/64 E Komatsu 4D98l	Class 3,A 1060 135 185 4055 4185 2480 18.0 19.0 410 450 400 17 20 Foot/Hydraulic J Hand/Mechanical FHPS 12/33 E NISSAN K25 42.6@2400	Class 3,A 1060 135 185 4055 4185 2480 18.0 18.5 450 490 420 400 17 21 Foot/Hydraulic Hand/Mechanical FHPS 12/64 Komatsu 4D98E 44.1 @2450	Class 2,A 960 105 115 3410 3610 1980 17.0 16.5 545 600 450 500 14 27 Foot/Hydraulic Hand/Mechanica FHPS 12/33 NISSAN K21 34.6@2450	Class 2,A 960 105 115 3555 3685 2050 16.5 16.5 545 600 450 500 14 23 c Foot/Hydraulic al Hand/Mechanical FHPS 12/33 1 NISSAN K21 34.6@2450	Class 3,A 940 105 115 3620 3750 2110 16.0 16.0 515 550 420 500 16 24 Foot/Hydraulic al Hand/Mechanical FHPS 12/33 NISSAN K25 42.6@2400
4.24 4.31 4.32 4.33 4.34 4.35 5.1 5.2 5.3 5.6 5.8 5.10 5.11 5.12 7.7 7.7 7.3 7.3	Width, Fork Carriage Ground Clearance Right Angle Stacking Aisle Turning Radius Travel Speed (FWD) Lifting Speed Lowering Speed Max. Drawbar Pull Max. Gradeability Service Brake Parking Brake Steering Battery Maker Model Rated Output, SAE net Rated RPM	b2 m1 Under Mast m2 at Center of Wheelbase Ast with L1000 x W1200 pallet Ast with L1200 x W800 pallet Wa Loaded, 1st/2nd Unloaded, 1st/2nd Loaded Unloaded Unloaded Loaded Unloaded Loaded Operation/Control Type	mm mm mm mm mm mm km/h km/h mm/s mm/s mm/s KN %	Class 2,A 970 120 130 3315 3515 1915 1915 19.0[9.0/19.0] 580 640 500 550 10[11] 34[38] Foot/Hydraulic Hand/Mechanica FHPS 12/33 NISSAN K15 27.2@2500	Class 2,A 970 120 130 3315 3515 1915 19.0[8.5/19.0] 19.5[8.5/19.5] 620 670 500 13[14] 49[41] Foot/Hydraulic Hand/Mechanical FHPS 12/64 Komatsu 4D92E 34.6@2450 2450	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640 500 550 10[11] 26[27] Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K15 27.2@2500	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/19.0] 19.0[8.5/19.5] 620 670 500 550 13[14] 33[31] Foot/Hydraulic Hand/Mechanical FHPS 12/64 Komatsu 4D92E 34.6@2450 2450	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 500 550 15[14] 37[35] Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K21 34.6@2450 2450	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640 500 550 10[11] 25[24] FooVHydraulic HandMechanical FHPS 12/33 NISSAN K15 27.2@2500	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[8.5/19.0] 620 670 500 550 13[14] 29[28] Foot/Hydraulic Hand/Mechanica FHPS 12/64 Komatsu 4D92E 34.6@2450 2450	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 500 550 15[14] 33[32] Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K21 34.6@2450	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 545 600 450 500 14 28 Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K21 34.6@2450 2450	Class 2,A 1020 115 160 3650 3850 2190 18.5[8.5/18.5 19.0[8.5/19.0 590 630 450 500 14[13] 28[26] Foot/Hydraulic Hand/Mechanical FHPS 12[64 Komatsu 4D94L 34.2@2200 2200	Class 2,A 1020 115 160 3650 3850 2190 19.5 620 670 450 500 19 38 Foot/Hydraulic Hand/Mechanical FHPS 12/33 ENISSAN K25 42.6@2400 2400	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 660 710 450 500 18 37 : Foot/Hydraulic I Hand/Mechanica FHPS 12/64 Komatsu 4D98E 44.1@2450 2450	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 545 600 450 500 14 23 FOOL/Hydraulic II Hand/Mechanical FHPS 12/33 E NISSAN K21 34.6@2450 2450	Class 2,A 1020 115 160 3775 3905 2240 18.5[8.5/18.5] 19.0[8.5/19.0] 590 630 450 500 14[13] 23[22] Foot/Hydraulic I Hand/Mechanical FHPS 12/64 Komatsu 4D94L8 34.2@2200 2200	Class 2,A 1020 115 160 3775 3905 2240 19.0 19.5 620 670 450 500 19 32 Foot/Hydraulic Hand/Mechanica FHPS 12/33 E NISSAN K25 42.6@2400 2400	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 660 710 450 500 18 31 Foot/Hydraulic Hand/Mechanical FHPS 12/64 Komatsu 4D98E 44.1@2450 2450	Class 3,A 1060 135 185 3930 4060 2370 18.5 19.5 515 550 420 500 18 26 Foot/Hydraulic Hand/Mechanica FHPS 12/33 E NISSAN K25 42.6@2400 2400	Class 3,A 1060 135 185 3930 4060 2370 17.0[7.5/17.0 490 530 420 500 14[14] 20[20] Foot/Hydraulid Hand/Mechanice FHPS 12/64 Komatsu 4D94L 34.2@2200 2200	Class 3,A 1060 135 185 3930 4060 2370 0)1 8.5 55 19.0 550 595 420 500 17 25 6 Foot/Hydraulic al Hand/Mechanical FHPS 12/64 E Komatsu 4D88 44.1@2450 2450	Class 3,A 1060 135 185 4055 4185 2480 18.0 19.0 410 450 400 17 20 Foot/Hydraulic Hand/Mechanical FHPS 12/33 E NISSAN K25 42.6@2400 2400	Class 3,A 1060 135 185 4055 4185 2480 18.0 18.5 450 490 420 400 17 21 Foot/Hydraulic Hand/Mechanical FHPS 12/64 Komatsu 4D98E 44.1 @ 2450 2450	Class 2,A 960 105 115 3410 3610 1980 17.0 16.5 545 600 450 500 14 27 Foot/Hydraulic Hand/Mechanica FHPS 12/33 NISSAN K21 34.6@2450 2450	Class 2,A 960 105 115 3555 3685 2050 16.5 16.5 545 600 450 500 14 23 6 Foot/Hydraulic al Hand/Mechanical FHPS 12/33 1 NISSAN K21 34.6@2450 2450	Class 3,A 940 105 115 3620 3750 2110 16.0 515 550 420 500 16 24 FOOt/Hydraulic all Hand/Mechanical FHPS 12/33 NISSAN K25 42.6@2400 2400
4.24 4.31 4.32 4.33 4.34 4.35 5.1 5.2 5.3 5.6 5.10 5.11 5.12 7.7 7.7 7.3 7.3 7.3	Width, Fork Carriage Ground Clearance Right Angle Stacking Aisle Turning Radius Travel Speed (FWD) Lifting Speed Lowering Speed Max. Drawbar Pull Max. Gradeability Service Brake Parking Brake Steering Battery Maker Model Rated Output, SAE net Rated RPM Max. Torque, SAE net	b2 m1 Under Mast m2 at Center of Wheelbase Ast with L1000 x W1200 pallet Ast with L1200 x W800 pallet Wa Loaded, 1st/2nd Unloaded, 1st/2nd Loaded Unloaded Unloaded Loaded Unloaded Loaded Operation/Control Type	mm mm mm mm mm mm km/h km/h km/h mm/s mm/s mm/s kN % % KN % KN % KN % KN % KW min-1 Nm@min-	Class 2,A 970 120 130 3315 3515 1915 19.0[9.0/19.0] 580 640 500 550 10[11] 34[38] FootHydraulic Hand/Mechanica FHPS 12/33 NISSAN K15 27.2@2500 2500 113@1600	Class 2,A 970 120 130 3315 3515 1915 19.0[8.5/19.0] 620 670 500 550 13[14] 49[41] Foot/Hydraulic Hand/Mechanical FHPS 12/64 Komatsu 4D92E 34.6@2450 2450 142@1800	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640 500 550 10[11] 26[27] Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K15 27.2@2500 2500 113@1600	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/19.0] 19.0[8.5/19.5] 620 670 500 550 13[14] 33[31] Foothlydraulic Hand/Mechanical FHPS 12/64 Komatsu 4D92E 34.6@2450 2450	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 500 550 15[14] 37[35] Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K21 34.6@2450 2450 152@1600	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640 500 550 10[11] 25[24] Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K15 27.2@2500 2500 113@1600	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[8.5/19.0] 620 670 500 550 13[14] 29[28] FootHydraulic HandMechanica FHPS 12/64 Komatsu 4D92E 34.6@2450 2450 142@1800	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 500 550 15[14] 33[32] Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K21 34.6@2450 2450 152@1600	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 545 600 450 500 14 28 Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K21 34.6@2450 2450 152@1600	Class 2,A 1020 115 160 3650 3850 2190 18.5[8.5/18.5 19.0[8.5/19.0 590 630 450 500 14[13] 28[26] FootHydraulic HandMechanical FHPS 12/64 Komatsu 4D94L 34.2@2200 2200 162@1500	Class 2,A 1020 115 160 3650 3850 2190 119.5 620 670 450 500 19 38 Foot/Hydraulic Hand/Mechanical FHPS 12/33 ENISSAN K25 42.6@2400 2400 186@1600	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 660 710 450 500 18 37 Foot/Hydraulic I Hand/Mechanica FHPS 12/64 Is Komatsu 4D98E 44.1@2450 2450 183@1500	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 545 600 450 500 14 23 FOOVHydraulic II Hand/Mechanical FHPS 12/33 E NISSAN K21 34.6@2450 2450 152@1600	Class 2,A 1020 115 160 3775 3905 2240 18.5[8.5/18.5] 19.0[8.5/19.0] 590 630 450 500 14[13] 23[22] FootHydraulic I HandlMechanical FHPS 12/64 Komatsu 4D94L8 34.2@2200 2200 162@1500	Class 2,A 1020 115 160 3775 3905 2240 19.0 19.5 620 670 450 500 19 32 Foot/Hydraulic Hand/Mechanica FHPS 12/33 E NISSAN K25 42.6@2400 2400 186@1600	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 660 710 450 500 18 31 FOOt/Hydraulic Hand/Mechanical FHPS 12/64 Komatsu 4D98E 44.1@2450 2450 183@1500	Class 3,A 1060 135 185 3930 4060 2370 18.5 515 550 420 500 18 26 Foot/Hydraulic Hand/Mechanica FHPS 12/33 E NISSAN K25 42.6@2400 2400 186@1600	Class 3,A 1060 135 185 3930 4060 2370 17.0[7.5/17.0 17.5[8.0/17.5 490 530 420 500 14[14] 20[20] Foot/Hydraulic Hand/Mechanics FHPS 12/64 5 Komatsu 4D94L 34.2@2200 2200 162@1500	Class 3,A 1060 135 185 3930 4060 2370 0] 18.5 55] 19.0 550 595 420 500 17 25 C Foot/Hydraulic al Hand/Mechanical FHPS 12/64 E Komatsu 4D98l 44.1@2450 2450 183@1500	Class 3,A 1060 135 185 4055 4185 2480 18.0 19.0 410 450 400 17 20 FOOt/Hydraulic I Hand/Mechanical FHPS 12/33 E NISSAN K25 42.6@2400 2400 186@1600	Class 3,A 1060 135 185 4055 4185 2480 18.0 18.5 450 490 420 400 17 21 Foot/Hydraulic Hand/Mechanical FHPS 12/64 Komatsu 4D98E 44.1@2450 2450 183@1500	Class 2,A 960 105 115 3410 3610 1980 17.0 16.5 545 600 450 500 14 27 Foot/Hydraulic Hand/Mechanica FHPS 12/33 NISSAN K21 34.6@2450 2450 152@1600	Class 2,A 960 105 115 3555 3685 2050 16.5 16.5 545 600 450 500 14 23 C Foot/Hydraulic al Hand/Mechanical FHPS 12/33 1 NISSAN K21 34.6@2450 2450 152@1600	Class 3,A 940 105 115 3620 3750 2110 16.0 16.0 515 550 420 500 16 24 FOOt/Hydraulic al Hand/Mechanical FHPS 12/33 NISSAN K25 42.6@2400 2400 186@1600
4.24 4.31 4.32 4.33 4.34 4.35 5.1 5.2 5.3 5.6 5.10 5.11 5.12 7.2 7.3 7.3 7.3 7.4	Width, Fork Carriage Ground Clearance Right Angle Stacking Aisle Turning Radius Travel Speed (FWD) Lifting Speed Lowering Speed Max. Drawbar Pull Max. Gradeability Service Brake Parking Brake Steering Battery Maker Model Rated Output, SAE net Rated RPM Max. Torque, SAE net No. of Cylinders/Displacement	b2 m1 Under Mast m2 at Center of Wheelbase Ast with L1000 x W1200 pallet Ast with L1200 x W800 pallet Wa Loaded, 1st/2nd Unloaded, 1st/2nd Loaded Unloaded Unloaded Loaded Unloaded Loaded Operation/Control Type	mm mm mm mm mm mm mm/s mm/s mm/s mm/s m	Class 2,A 970 120 130 3315 3515 1915 19.0[9.0/19.0] 580 640 500 550 10[11] 34[38] FootHydraulic Hand/Mechanica FHPS 12/33 NISSAN K15 27.2@2500 2500 113@1600	Class 2,A 970 120 130 3315 3515 1915 19.0[8.5/19.0] 19.5[8.5/19.5] 620 670 500 550 13[14] 49[41] Foot/Hydraulic Hand/Mechanical FHPS 12/64 Komatsu 4D92E 34.6@2450 2450 142@1800 4-2659	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640 500 550 10[11] 26[27] Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K15 27.2@2500 2500 113@1600 4-1486	Class 2,A 970 120 130 3360 3360 1955 18.5[8.5/19.0] 19.0[8.5/19.5] 620 670 500 550 13[14] 33[31] Foot/Hydraulic I Hand/Mechanical FHPS 12/64 Komatsu 4D92E 34.6@2450 2450 142@1800 4-2659	Class 2,A 970 120 130 3360 3560 1955 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 500 550 15[14] 37[35] Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K21 34.6@2450 2450 152@1600 4-2065	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 570 640 500 550 10[11] 25[24] Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K15 27.2@2500 2500 113@1600 4-1486	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[8.5/19.0] 620 670 500 550 13[14] 29[28] Foot/Hydraulic Hand/Mechanica FHPS 12/64 Komatsu 4D92E 34.6@2450 2450 142@1800 4-2659	Class 2,A 970 120 130 3395 3595 1990 18.5[8.5/18.5] 19.0[9.0/19.0] 590 640 500 550 15[14] 33[32] Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K21 34.6@2450 2450 152@1600 4-2065	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 545 600 450 500 14 28 Foot/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K21 34.6@2450 2450 152@1600 4-2065	Class 2,A 1020 115 160 3650 3850 2190 18.5[8.5/18.5 19.0[8.5/19.0 590 630 450 500 14[13] 28[26] Foot/Hydraulic Hand/Mechanical FHPS 12/64 Komatsu 4094L 34.2@2200 2200 162@1500 4-3052	Class 2,A 1020 115 160 3650 3850 2190 119.5 620 670 450 500 19 38 Foot/Hydraulic Hand/Mechanical FHPS 12/33 ENISSAN K25 42.6@2400 2400 186@1600 4-2488	Class 2,A 1020 115 160 3650 3850 2190 18.5 19.0 660 710 450 500 18 37 Foot/Hydraulic Hand/Mechanica FHPS 12/64 is Komatsu 4098E 44.1@2450 2450 183@1500 4-3318	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 545 600 450 500 14 23 FOOVHydraulic II Hand/Mechanical FHPS 12/33 ENISSAN K21 34.6@2450 2450 152@1600 4-2065	Class 2,A 1020 115 160 3775 3905 2240 18.5[8.5/18.5] 19.0[8.5/19.0] 590 630 450 500 14[13] 23[22] FOOU'Hydraulic I Hand/Mechanical FHPS 12/64 Komatsu 4D94L8 34.2@2200 2200 162@1500 4-3052	Class 2,A 1020 115 160 3775 3905 2240 19.0 19.5 620 670 450 500 19 32 Foot/Hydraulic Hand/Mechanica FHPS 12/33 E NISSAN K25 42.6@2400 2400 186@1600 4-2488	Class 2,A 1020 115 160 3775 3905 2240 18.5 19.0 660 710 450 500 18 31 FOOV!Hydraulic Hand/Mechanical FHPS 12/64 Komatsu 4D98E 44.1@2450 2450 183@1500 4-3318	Class 3,A 1060 135 185 3930 4060 2370 18.5 19.5 515 550 420 500 18 26 Foot/Hydraulic Hand/Mechanica FHPS 12/33 2 ENISSAN K25 42.6@2400 2400 186@1600 4-2488	Class 3,A 1060 135 185 3930 4060 2370 17.0[7.5/17.0 17.5[8.0/17.5 490 530 420 500 14[14] 20[20] Foot/Hydraulic Hand/Mechanics FHPS 12/64 6 Komatsu 4D94L 34.2@2200 2200 162@1500 4-3052	Class 3,A 1060 135 185 3930 4060 2370 0] 18.5 5] 19.0 550 595 420 500 17 25 c Foot/Hydraulic al Hand/Mechanical FHPS 12/64 E Komatsu 4D98! 44.1@2450 2450 183@1500 4-3318	Class 3,A 1060 135 185 4055 4185 2480 18.0 19.0 410 450 400 17 20 FOOt/Hydraulic Hand/Mechanical FHPS 12/33 E NISSAN K25 42.6@2400 2400 186@1600 4-2488	Class 3,A 1060 135 185 4055 4185 2480 18.0 18.5 450 490 420 400 17 21 Foot/Hydraulic Hand/Mechanical FHPS 12/64 Komatsu 4D98E 44.1@2450 2450 183@1500 4-3318	Class 2,A 960 105 115 3410 3610 1980 17.0 16.5 545 600 450 500 14 27 Foot/Hydraulic Hand/Mechanica FHPS 12/33 NISSAN K21 34.6@2450 2450 152@1600 4-2065	Class 2,A 960 105 115 3555 3685 2050 16.5 16.5 545 600 450 500 14 23 C FOOt/Hydraulic al Hand/Mechanical FHPS 12/33 1 NISSAN K21 34.6@2450 2450 152@1600 4-2065	Class 3,A 940 105 115 3620 3750 2110 16.0 16.0 515 550 420 500 16 24 FOV/Hydraulic Hand/Mechanical FHPS 12/33 NISSAN K25 42.6@2400 2400 186@1600 4-2488

■ AX50 Series Standard Model

Load capacity curve 2-stage free view mast







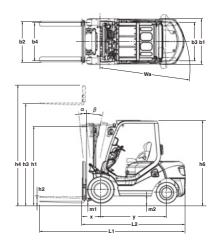
Note 1:Load capacity at other than the 500mm load center reference only.

Note 2:*Values when double front tyres are installed.

■ BX50 109 Series Load capacity curve 2-stage free view mast Model ■ FG20NT Model ■ FG30NT -4.5m Mast -4.7m Mast -3.000 -4.7m Mast -4.7m Mast

Note:Load capacity at other than the 500mm load center reference only.

Dimensions



8

Major equipment

							●: Standard	○:Option ◎:Stand	dard for BX50 —: N/		
		Vehicle type			3X50 Series rd model	109 Series	109 Series High performance model (
		Engine	Ga	soline		iesel	Gasoline	Gasoline	Diesel		
		Transmission	Clutch	TORQFLOW	Clutch	TORQFLOW	TORQFLOW	TORQFLOW	TORQFLOW		
1		Dual floating structure	•	•	•	•	•	•	•		
		New operator's seat with suspension	•	•	•	•	•	•	•		
		Small-sized steering wheel	•	•	•	•	•	•	•		
	u	Tiltable steering column	•	•	•	•	•	•	•		
1	Driving/operation	Electric forward/reverse lever (TORQFLOW model)	_	•	_	•	•	•	•		
	obe	Double-cone synchronized clutch (clutch model)	•	_	•	_	_	_	_		
	ng/	Combination switch (turn signal light and light switch)	•	•	•	•	•	•	•		
	⋛	Indicator auto-return mechanism	•	•	•	•	•	•	•		
1	0	Full-open step	•	•	•	•	•	•	•		
		Under-floor tilt cylinder	•	•	•	•	•	•	•		
		Paper binder	•	•	•	•	•	•	•		
_		Glove box	•	•	•	•	•	•	•		
		Meter panel	•	•	•	•	•	•	•		
	ers	Hourmeter	•	•	•	•	•	•	•		
	Meters	Engine water temperature gauge	•	0	•	•	0	•	•		
		Torque converter oil temperature gauge	_	0	_	0	0	0	0		
-		Fuel gauge	•	•	•	•	•	•	•		
		Engine oil pressure warning lamp	•								
	ပ္	Charge warning lamp	0		0	0	0	0	0		
	ato	Air cleaner element warning lamp Fuel level warning lamp	0		0	0	0	0	0		
	indicators	Radiator cooling water level warning lamp	0		0		0	0	0		
	<u>-</u>	Battery electrolyte level warning lamp	0		0		0	0			
	Safety	Neutral indicator	•		•	•	•	•	•		
(S	Sedimenter warning lamp	_	_	•	•	_	_	•		
		Glow indicator	_	_	•	•	_	_	•		
-		Full-transistor-type IC distributor	•	•	_	_	•	•	_		
		Alternator with built-in IC regulator	•	•	•	•	•	•	•		
	uts	Quick auto glow system	_	_	•	•	_	_	•		
	components	Neutral safety mechanism	•	•	•	•	•	•	•		
	m D	Auto fuse	•	•	•	•	•	•	•		
	8	Low maintenance battery	•	•	•	•	•	•	•		
	ectric	Engine key stop mechanism	_	_	•	•	_	_	•		
i	<u>E</u>	Halogen headlight	•	•	•	•	•	•	•		
		Rear combination light	•	•	•	•	•	•	•		
		Back-up buzzer	•	•	•	•	•	•	•		
		Operator Presence Sensing System	0	0	0	0	0	0	0		
		Auto choke	•	•	_	_	•	•	_		
		Super Lift Hydraulic System	0	0	0	0	0	0	0		
	_	Self-adjustment clutch	•	_	•		_	_	_		
	isu	Sedimentary with priming pump	_		•	•	_	_	•		
	han	Cyclone air cleaner	•	•	•	•	•	•	•		
١.	Mechanism	Parking brake with release button Fully hydrostatic power steering*	•		•		•		•		
		Soft landing mast system	•	•	•				•		
		Non-asbestos brake linings	•	•							
		Non-asbestos clutch disk	•	-					_		
		Easy replacement hydraulic oil filter	0		0	0	0	0	0		
-		Floor mat	•	•	•	•	•	•	•		
		Assist grips	•	•	•	•	•	•	•		
		Head guard with front/rear conduits	•	•	•	•	•	•	•		
		Wide angle center mirror	•	•	•	•	•	•	•		
		Full shield solid-state engine hood	•	•	•	•	•	•	•		
	ō	One-touch open floor panel	•	•	•	•	•	•	•		
	Exterior	One-touch removable radiator cover	•	•	•	•	•	•	•		
1	ũ	Engine hood stopper	•	•	•	•	•	•	•		
		Engine hood lock	•	•	•	•	•	•	•		
		Radiator reservoir tank	•	•	•	•	•	•	•		
		Wide fork carriage	•	•	•	•	•	•	•		
		Resin dashboard cover	•	•	•	•	•	•	•		
		Jacking points	•	•	•	•	•	•	•		
	0.										

Optional Specification Truck

■LPG Specification truck

Komatsu offers both single fuel (LPG) and dual fuel (LPG and Gasoline) systems for the LPG Specification truck. The truck has superior fuel consumption, the service life of the engine oil, filters, and plugs are extended, and the engine delivers clean combustion exhaust gases. Cold starts are possible even in temperatures as low as -5°C.



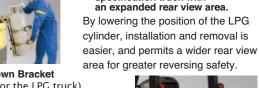
■Dust Proof Specification

This truck is reliable for the handling of powdered products such as concrete, secondary products, ceramics and flour millings, or for operations in similar dusty conditions.



Swing-down Bracket (optional for the LPG truck)

The LPG cylinder is easily installed and removed in a lower position with minimal effort. In addition to the normal counterweight, this is also applicable for both the 2.5t and 3t trucks with sunken counterweights.



The sunken counterweight*

specification truck with

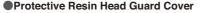
■Fishery Specification

Waterproofing, sealing, and anticorrosion coatings significantly improve the durability of the exterior, parts, and the brake system under salt-water conditions.

Options

●Steel Cabin*

The steel cabin provides superior comfort and protection from severe cold or very noisy environments. Heaters and air conditioners are also available.



The resin cover resists stains and provides protection from the rain.



Digital Load Checker

Loads are measured and displayed in 10 kg units.

Operator Presence Sensing System

●Easy-Replacement Oil Filter

This simple design enables easier and timely maintenance.

■Mast Tilt Angle Meter

The pointer on the meter indicates the mast tilt angle. Once the mast reaches a preset angle, the lamp will light. When there is no load on the lift, the Auto Stop Function stops the tilt operation once the mast reaches the preset position. This is especially convenient for loading operations on inclined surfaces.

Engine and Operation

- ■Three-Way Catalytic System for Gasoline and LPG Trucks
- Spark arrester
- Upward exhaust pipe
- Radiator screen
- Large capacity alternator (for the diesel truck only)
- Pre-cleaner

Exterior parts

- Power steering cylinder boots
- Fuelcap with key
- Fire extinguisher
- Yellow strobe light
- Red strobe light

- Front working light

- Tilt cylinder boots

Electrical Equipment

- Rear working light
- Back-up chime
- Ammeter
- ■Torque converter oil temperature gauge

Meters and Gauges

- Speedometer (with alarm)
- Mast tilt angle meter Traveling speed limiter
- Fork positioning sensor

Tyres

Color tyres

*except for the 109 Series

Attachments











■ Roll clamp

■Side shifter

■ Bale clamp

■Rotating fork

■ Fork clamp

*1 Steering synchronizer function is available as on option

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[•] Although specifications are provided for attachments, some attachments cannot be installed on specific masts depending on their types. For details, please contact Komatsu Forklift's dealers.