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XF2 Series I.C. Pneumatic Tire Forklift

with capacity of 8,000 to 11,000lbs



Making Material Handling Easier
SINCE 1956



APPEARANCE

Designed specifically for North American industrial environments, the second generation XF2 Series offers enhanced reliability, comfort, and serviceability. It comes equipped with either the KUBOTA WG3800 (LPG or dual fuel) or KUBOTA V3307 diesel engine, paired with a standard Okamura transmission and wet disc brake drive axle for dependable performance. Ideal for warehouses, manufacturing, and outdoor operations, the XF2 Series ensures operator safety and comfort while delivering powerful, efficient material handling.



COMFORTABLE OPERATIONS

In developing the second generation XF2 Series Pneumatic Tire Forklift, ergonomic design, comfort, and ease of operation were prioritized to create a comfortable and productive work space for the operator.

- / The overhead guard, gearbox, and seat are fully-suspended and offer a three-stage vibration reduction to reduce the vibration that the operator feels. The steering axle is also installed using padded mounts to reduce vibration and increase comfort.
- / The XF2 Series can be optioned with a fully-enclosed cab, heater, and air conditioner to ensure operator comfort no matter the outside working conditions.
- / Special sound-absorbing materials are applied to the forklift to decrease noise.
- / The next generation XF2 Series features an optimized ergonomic design, enlarged operator compartment, and a new, optional, next generation fingertip control system.
- / A new interactive instrument display is used to display the operating status of the forklift and provide operators with vital operational information.
- / A new, heavy-duty steering axle increases the maximum internal turning angle allowing operators to maneuver the forklift in narrow spaces.
- / The cabin has been optimized to provide outstanding visibility in all directions.
- / The parking brake requires less force to engage and increases the ease of operation.



Spacious and Ergonomic Operator Compartment



Wide Mast for Increased Visibility

SECURE

Hangcha engineered the XF2 Series Pneumatic Tire Forklift with operator security as a top priority. A low center of gravity chassis enhances stability, while the integrated Operator Presence Sensing (OPS) system and high-output lighting improve overall operational security. These features work together to ensure a confident operating experience.

- / The XF2 Series features a low center of gravity design by positioning the cast steering axle lower in the chassis and updating the counterweight design.
- / An Operator Presence Sensing (OPS) System is provided as a part of the standard configuration to ensure that the operator is seated in the correct position before allowing the forklift to travel forward/reverse, lift materials up/down, or tilt the mast forward/backward.
- / The throttling device locks the mast in place if there is a hydraulic failure, adding to the operational security of the truck.
- / There is a locking mechanism found on the engine hood and parking brake for extra security.
- / The rear reverse grip with a horn button enhances operational awareness while traveling in reverse.



The new LED taillights are designed to be highly efficient and have a long service life when compared to the previous models. Their performance and output have significantly improved, enhancing visibility and promoting operational security.



MORE VISIBILITY MORE CONTROL LESS WORRY

ALL-ROUND VISIBILITY

The XF2 Series Pneumatic Forklift is designed to significantly increase operator visibility by using a new counterweight design, new three-stage full free lift mast, and an updated operator compartment. These changes increase the operators visibility and control of the forklift which allows for a more secure operating environment.

UPGRADED POWER

KUBOTA WG3800 Engine

LPG/Dual Fuel Engines

The XF2 features the well-known and reliable Kubota WG3800 engines, which are EPA compliant and available in either LP Only or Dual Fuel versions. The WG3800 engine features high performance and a diagnostics system that allows for easier and more accurate maintenance. These features ensure that the Kubota WG3800 motors are powerful and reliable enough to get the job done.

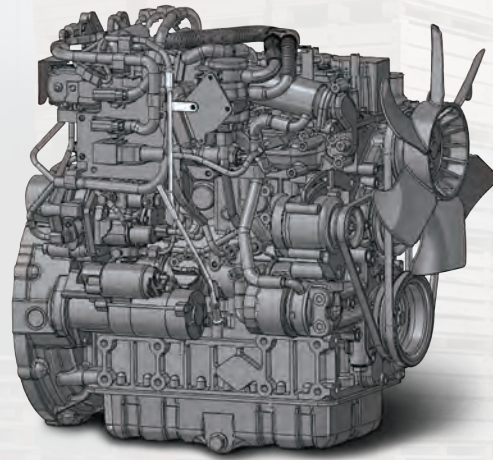


KUBOTA WG3800

KUBOTA V3307 Engine

Diesel Engine

Hangcha uses the powerful Kubota diesel engine in our pneumatic tire forklifts. The Kubota engine is Tier 4F compliant. The engine uses common rail fuel systems, diesel oxidation catalysts (DOC), and diesel particulate filters (DPF) to meet the Tier 4F compliance. This engine helps the Hangcha forklifts maximize their efficiency and reliability for the end-user.



KUBOTA V3307

OKAMURA Transmission

The world-renown OKAMURA transmission comes standard in our second generation XF2 Series Pneumatic Tire Forklift. This transmission was chosen as a part of the forklift's design for its reliability and has an expected service life far longer than 10 years.



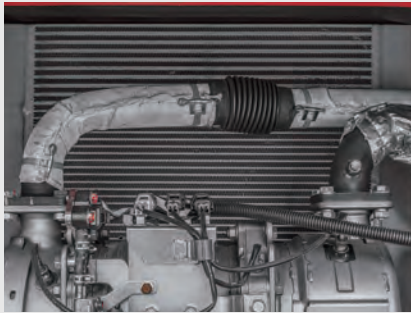
OKAMURA Transmission



RELIABLE & EASY-TO-MAINTAIN

Hangcha designed the XF2 Series Pneumatic Forklift to be reliable and easy to maintain. By using key components and well thought out designs, Hangcha is able to build a reliable forklift that operators can count on.

- / The XF2 Series is manufactured using large plate stamping, molding processes, and automatic welding technology to create a robust and stylish exterior.
- / The forklift’s intelligent controller controls the OPS system, flameout for idle speed time out, and can provide other optional functions including a speed limiter, speed limiter for faults, high idle speed lifting, automatic fork leveling, etc.
- / Wet Brake System features a 10 year service life and is included standard to significantly improve the reliability of the braking system.
- / A high-pressure hydraulic system and load-sensing steering-priority-ensured multiway valves are used to improve system efficiency.
- / The low-noise gear hydraulic pump runs at a reduced noise level and is very reliable. All joints are 24° conic joints and each high-pressure pipe joint has a pressure measuring port that enables better sealing and offers better maintainability.
- / Thanks to the open design of the cast steering axle, the oil cylinder can easily be replaced.
- / The electrical system features waterproof connectors to ensure the system’s reliability when operating in wet applications or weather.



Larger Radiator for more efficient cooling



Improved Steering Axle for better maneuverability

Standard Configuration

Transmission	Steering	Chassis	Overhead Guard	Hydraulic
/ Floating Drivetrain	/ Wet Brake Drive Axle / Open Cast Steering Axle / Fully Hydraulic Power Steering / Adjustable Steering Wheel Column	/ Tow Pin / Counterweight Gaurd / Lockable hood	/ Fully-Suspended Overhead Guard / Right Rear Armrest With Horn Button	/ Electro-Hydraulic Power Steering / Low-Noise Hydraulic Pump / Hydraulic Oil Recycling Filter

Truck	Power	Electronics	Mast
/ Large Plate-Fin Radiator / Mechanical Handbrake / Dynamic Load Sending Control Valve / Double-Layer Soundproof Hood Padding / Reinforced Rims	/ High-Efficiency Air Filter / High-Efficiency Air Intake Silencer / High-Position Exhaust / Fan Gaurd	/ Multifunctional Interactive Instrument Display / Combination LED Lighting System / Integrated Combination Switch / Main Power Switch / Operator Presence Sensing (OPS) System	/ Limited Free Lift 2 Stage Mast / Tilt Cylinder Boots

Options

/ Full Cab / Heater / Front Windshield and Wiper / Solid Pneumatic Tires / Dual Air Filter / Operator Fan / Fully-Suspension Seat	/ Dual Drive Front Wheels / Radiator Grill / Fuel Tank Cap with Lock / Additional L/R Rearview Mirrors / 5th Valve / PVC Roof Rain Gaurd	/ Fingertip System / LED Rear Working Light / Blue Light / Audible Alarm / Multi-Segment Adjustable Speed Limit	/ Scale System / Wider Carriage / Higher Load Backrest / Various Masts / Various Attatchments / Various Fork Lengths
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8,000 - 9,000lb Mast:

Type	Model	Max. Fork Height	Overall Height				Free Lift		Front Overhang	Tilt Range	Capacity			
			Lowered	Extended		Without Backrest	With Backrest	F/R			Load Capacity at 24" (600mm)			
				Without Backrest	With Backrest					Single Tire		Dual Tire		
				8,000/9,000lbs	8,000/9,000lbs					8,000/9,000lbs	8,000/9,000lbs	8,000/9,000lbs	8,000lb	9,000lb
in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	(°)	lb. (kg)	lb. (kg)	lb. (kg)	lb. (kg)			
Limited Free Lift 2 Stage Mast	X2B45M245	96.5 (2450)	77.6 (1970)	128.3 (3260)	142.5 (3620)	5.9 (150)	5.9 (150)	22.0 (560)	6/12	8000 (3630)	9000 (4080)	8000 (3630)	9000 (4080)	
	X2B45M265	104.3 (2650)	81.5 (2070)	136.2 (3460)	150.4 (3820)	5.9 (150)	5.9 (150)	22.0 (560)	6/12	8000 (3630)	9000 (4080)	8000 (3630)	9000 (4080)	
	X2B45M300	118.1 (3000)	88.4 (2245)	150 (3810)	164.2 (4170)	5.9 (150)	5.9 (150)	22.0 (560)	6/12	8000 (3630)	9000 (4080)	8000 (3630)	9000 (4080)	
	X2B45M330	129.9 (3300)	94.3 (2395)	161.8 (4110)	176 (4470)	5.9 (150)	5.9 (150)	22.0 (560)	6/12	8000 (3630)	9000 (4080)	8000 (3630)	9000 (4080)	
	X2B45M350	137.8 (3500)	98.2 (2495)	169.7 (4310)	183.9 (4670)	5.9 (150)	5.9 (150)	22.0 (560)	6/12	8000 (3630)	9000 (4080)	8000 (3630)	9000 (4080)	
	X2B45M360	141.7 (3600)	100.2 (2545)	173.6 (4410)	187.8 (4770)	5.9 (150)	5.9 (150)	22.0 (560)	6/12	8000 (3630)	9000 (4080)	8000 (3630)	9000 (4080)	
	X2B45M370	145.7 (3700)	102.2 (2595)	177.6 (4510)	191.7 (4870)	5.9 (150)	5.9 (150)	22.0 (560)	6/12	8000 (3630)	9000 (4080)	8000 (3630)	9000 (4080)	
	X2B45M400	157.5 (4000)	111 (2820)	189.8 (4820)	203.5 (5170)	5.9 (150)	5.9 (150)	22.0 (560)	6/12	8000 (3630)	9000 (4080)	8000 (3630)	9000 (4080)	
	X2B45M430	169.3 (4300)	116.9 (2970)	201.6 (5120)	215.4 (5470)	5.9 (150)	5.9 (150)	22.0 (560)	6/6	8000 (3630)	9000 (4080)	8000 (3630)	9000 (4080)	
	X2B45M450	177.2 (4500)	120.9 (3070)	209.4 (5320)	223.2 (5670)	5.9 (150)	5.9 (150)	22.0 (560)	6/6	8000 (3630)	9000 (4080)	8000 (3630)	9000 (4080)	
	X2B45M470	185 (4700)	124.8 (3170)	217.3 (5520)	231.1 (5870)	5.9 (150)	5.9 (150)	22.0 (560)	6/6	7890 (3580)	9000 (4080)	8000 (3630)	9000 (4080)	
	X2B45M480	189 (4800)	129.7 (3295)	224.2 (5695)	235 (5970)	5.9 (150)	5.9 (150)	22.0 (560)	6/6	7890 (3580)	9000 (4080)	7890 (3580)	9000 (4080)	
	X2B45M500	196.9 (5000)	133.7 (3395)	232.1 (5895)	242.9 (6170)	5.9 (150)	5.9 (150)	22.0 (560)	6/6	7805 (3540)	9000 (4080)	7805 (3540)	9000 (4080)	
	X2B45M550	216.5 (5500)	143.5 (3645)	251.8 (6395)	262.6 (6670)	5.9 (150)	5.9 (150)	22.0 (560)	3/6	6660 (3020)	7715 (3500)	7275 (3300)	9000 (4080)	
	X2B45M600	236.2 (6000)	153.3 (3895)	271.5 (6895)	282.3 (7170)	5.9 (150)	5.9 (150)	22.0 (560)	3/6	5445 (2470)	6240 (2830)	7055 (3200)	7650 (3470)	
Full Free Lift 2 Stage Mast	X2B45U245	96.5 (2450)	77.8 (1975)	128.3 (3260)	142.5 (3620)	45.9 (1165)	31.7 (805)	22.8 (579)	6/12	8000 (3630)	9000 (4080)	8000 (3630)	9000 (4080)	
	X2B45U300	118.1 (3000)	88.6 (2250)	150 (3810)	164.2 (4170)	56.7 (1440)	42.5 (1080)	22.8 (579)	6/12	8000 (3630)	9000 (4080)	8000 (3630)	9000 (4080)	
	X2B45U330	129.9 (3300)	94.5 (2400)	161.8 (4110)	176 (4470)	62.6 (1590)	48.4 (1230)	22.8 (579)	6/12	8000 (3630)	9000 (4080)	8000 (3630)	9000 (4080)	
	X2B45U350	137.8 (3500)	98.4 (2500)	169.7 (4310)	183.9 (4670)	66.5 (1690)	52.4 (1330)	22.8 (579)	6/12	8000 (3630)	9000 (4080)	8000 (3630)	9000 (4080)	
	X2B45U370	145.7 (3700)	102.4 (2600)	177.6 (4510)	191.7 (4870)	70.5 (1790)	56.3 (1430)	22.8 (579)	6/12	8000 (3630)	9000 (4080)	8000 (3630)	9000 (4080)	
	X2B45U400	157.5 (4000)	111.2 (2825)	189.4 (4810)	203.5 (5170)	78.7 (2000)	65.2 (1655)	22.8 (579)	6/12	8000 (3630)	9000 (4080)	8000 (3630)	9000 (4080)	
Full Free Lift 3 Stage Mast	X2B45N400	157.5 (4000)	80.7 (2050)	189.4 (4810)	203.5 (5170)	48.8 (1240)	34.6 (880)	22.6 (573)	6/12	8000 (3630)	9000 (4080)	8000 (3630)	9000 (4080)	
	X2B45N430	169.3 (4300)	84.8 (2155)	201.2 (5110)	215.4 (5470)	53 (1345)	38.8 (985)	22.6 (573)	6/6	8000 (3630)	9000 (4080)	8000 (3630)	9000 (4080)	
	X2B45N450	177.2 (4500)	87.6 (2225)	209.1 (5310)	223.2 (5670)	55.7 (1415)	41.5 (1055)	22.6 (573)	6/6	8000 (3630)	9000 (4080)	8000 (3630)	9000 (4080)	
	X2B45N470	185 (4700)	90.2 (2290)	216.9 (5510)	231.1 (5870)	58.3 (1480)	44.1 (1120)	22.6 (573)	6/6	7715 (3500)	9000 (4080)	8000 (3630)	9000 (4080)	
	X2B45N480	189 (4800)	93.5 (2375)	223.4 (5675)	235 (5970)	59.1 (1500)	47.4 (1205)	22.6 (573)	6/6	7715 (3500)	9000 (4080)	7890 (3580)	9000 (4080)	
	X2B45N500	196.9 (5000)	95.5 (2425)	229.3 (5825)	242.9 (6170)	63.6 (1615)	49.4 (1255)	22.6 (573)	6/6	7495 (3400)	9000 (4080)	7495 (3400)	9000 (4080)	
	X2B45N550	216.5 (5500)	101.4 (2575)	248.4 (6310)	262.6 (6670)	69.5 (1765)	55.3 (1405)	22.6 (573)	3/6	6660 (3020)	7715 (3500)	7275 (3300)	9000 (4080)	
	X2B45N600	236.2 (6000)	110.2 (2800)	268.1 (6810)	282.3 (7170)	78.3 (1990)	64.2 (1630)	22.6 (573)	3/6	5025 (2280)	6040 (2740)	7055 (3200)	7650 (3470)	
	X2B45N650	255.9 (6500)	118.9 (3020)	288.2 (7320)	302 (7670)	86.6 (2200)	72.8 (1850)	22.6 (573)	3/6	2515 (1140)	2930 (1330)	5645 (2560)	6040 (2740)	
	X2B45N700	275.6 (7000)	128.9 (3275)	314 (7975)	321.7 (8170)	90.6 (2300)	82.9 (2105)	22.6 (573)	3/6	/	1720 (780)	4235 (1920)	4630 (2100)	

With a sideshifter, subtract 440lbs. With an integral sideshifter, subtract 220lbs.

10,000 - 11,000lb Mast:

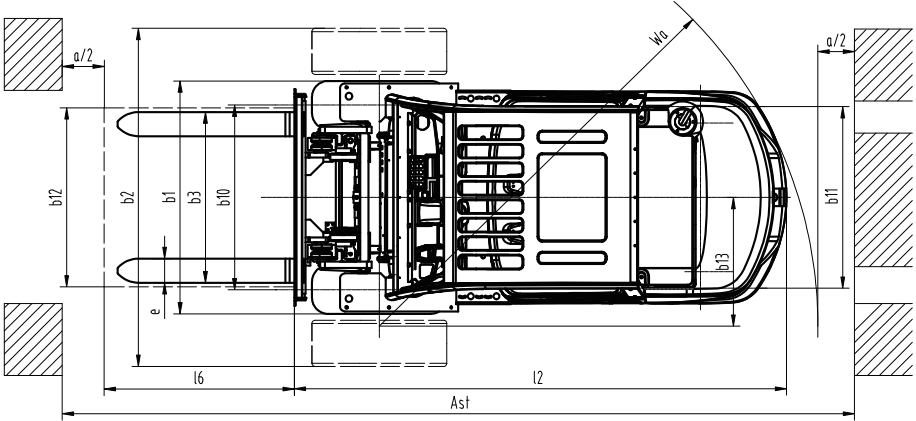
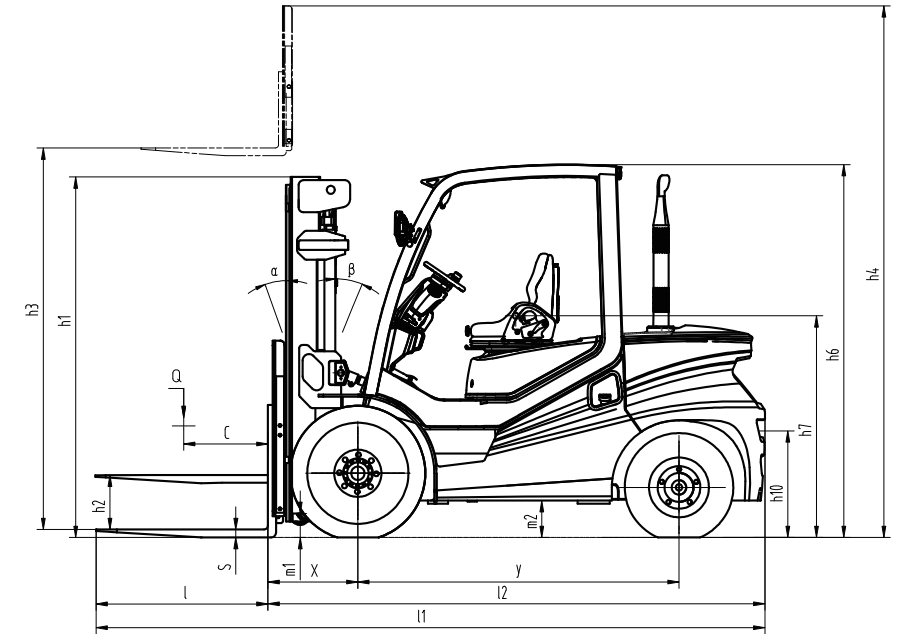
Type	Model	Max. Fork Height	Overall Height								Free Lift				Front Overhang		Tilt Range	Capacity			
			Lowered		Extended				Without Backrest		With Backrest		Load Capacity at 24" (600mm)								
					Without Backrest		With Backrest								Without Backrest			With Backrest			
			10,000lb	11,000lb	10,000lb	11,000lb	10,000lb	11,000lb	10,000lb	11,000lb	10,000lb	11,000lb	10,000lb	11,000lb	10,000lb	11,000lb		F/R	Single Tire	Dual Tire	
		in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	(°)	lb (kg)	lb (kg)	lb (kg)	lb (kg)			
Limited Free Lift 2 Stage Mast	X2BX50/X2BX55M245	96.5 (2450)	77.6 (1970)	81.5 (2070)	128.3 (3260)	129.7 (3295)	150.8 (3830)	150.8 (3830)	5.9 (150)	6.3 (160)	5.9 (150)	6.3 (160)	22 (560)	22.4 (570)	6/12	10000 (4540)	11000 (5000)	10000 (4540)	11000 (5000)		
	X2BX50/X2BX55M265	104.3 (2650)	81.5 (2070)	85.4 (2170)	136.2 (3460)	137.6 (3495)	158.7 (4030)	158.7 (4030)	5.9 (150)	6.3 (160)	5.9 (150)	6.3 (160)	22 (560)	22.4 (570)	6/12	10000 (4540)	11000 (5000)	10000 (4540)	11000 (5000)		
	X2BX50/X2BX55M300	118.1 (3000)	88.4 (2245)	92.3 (2345)	150 (3810)	151.4 (3845)	172.4 (4380)	172.4 (4380)	5.9 (150)	6.3 (160)	5.9 (150)	6.3 (160)	22 (560)	22.4 (570)	6/12	10000 (4540)	11000 (5000)	10000 (4540)	11000 (5000)		
	X2BX50/X2BX55M330	129.9 (3300)	94.3 (2395)	98.2 (2495)	161.8 (4110)	163.2 (4145)	184.3 (4680)	184.3 (4680)	5.9 (150)	6.3 (160)	5.9 (150)	6.3 (160)	22 (560)	22.4 (570)	6/12	10000 (4540)	11000 (5000)	10000 (4540)	11000 (5000)		
	X2BX50/X2BX55M350	137.8 (3500)	98.2 (2495)	102.2 (2595)	169.7 (4310)	171.1 (4345)	192.1 (4880)	192.1 (4880)	5.9 (150)	6.3 (160)	5.9 (150)	6.3 (160)	22 (560)	22.4 (570)	6/12	10000 (4540)	11000 (5000)	10000 (4540)	11000 (5000)		
	X2BX50/X2BX55M360	141.7 (3600)	100.2 (2545)	104.1 (2645)	173.6 (4410)	175 (4445)	196.1 (4980)	196.1 (4980)	5.9 (150)	6.3 (160)	5.9 (150)	6.3 (160)	22 (560)	22.4 (570)	6/12	10000 (4540)	11000 (5000)	10000 (4540)	11000 (5000)		
	X2BX50/X2BX55M370	145.7 (3700)	102.2 (2595)	106.1 (2695)	177.6 (4510)	178.9 (4545)	200 (5080)	200 (5080)	5.9 (150)	6.3 (160)	5.9 (150)	6.3 (160)	22 (560)	22.4 (570)	6/12	10000 (4540)	11000 (5000)	10000 (4540)	11000 (5000)		
	X2BX50/X2BX55M400	157.5 (4000)	111 (2820)	115 (2920)	189.8 (4820)	193.7 (4920)	211.8 (5380)	211.8 (5380)	5.9 (150)	6.3 (160)	5.9 (150)	6.3 (160)	22 (560)	22.4 (570)	6/12	10000 (4540)	11000 (5000)	10000 (4540)	11000 (5000)		
	X2BX50/X2BX55M430	169.3 (4300)	116.9 (2970)	120.9 (3070)	201.6 (5120)	205.5 (5220)	223.6 (5680)	223.6 (5680)	5.9 (150)	6.3 (160)	5.9 (150)	6.3 (160)	22 (560)	22.4 (570)	6/6	10000 (4540)	11000 (5000)	10000 (4540)	11000 (5000)		
	X2BX50/X2BX55M450	173.2 (4500)	120.9 (3070)	124.8 (3170)	209.4 (5320)	213.4 (5420)	231.5 (5880)	231.5 (5880)	5.9 (150)	6.3 (160)	5.9 (150)	6.3 (160)	22 (560)	22.4 (570)	6/6	10000 (4540)	11000 (5000)	10000 (4540)	11000 (5000)		
	X2BX50/X2BX55M470	185 (4700)	124.8 (3170)	128.7 (3270)	217.3 (5520)	221.3 (5620)	239.4 (6080)	239.4 (6080)	5.9 (150)	6.3 (160)	5.9 (150)	6.3 (160)	22 (560)	22.4 (570)	6/6	9680 (4390)	10495 (4760)	10000 (4540)	11000 (5000)		
	X2BX50/X2BX55M480	189 (4800)	129.7 (3295)	133.7 (3395)	224.2 (5695)	228.1 (5795)	243.3 (6180)	243.3 (6180)	5.9 (150)	6.3 (160)	5.9 (150)	6.3 (160)	22 (560)	22.4 (570)	6/6	9460 (4290)	9875 (4480)	9965 (4520)	10890 (4940)		
X2BX50/X2BX55M500	196.9 (5000)	133.7 (3395)	137.6 (3495)	232.1 (5895)	236 (5995)	251.2 (6380)	251.2 (6380)	5.9 (150)	6.3 (160)	5.9 (150)	6.3 (160)	22 (560)	22.4 (570)	6/6	9060 (4110)	9680 (4390)	9875 (4480)	10690 (4850)			
X2BX50/X2BX55M550	216.5 (5500)	143.5 (3645)	147.4 (3745)	251.8 (6395)	255.7 (6495)	270.9 (6880)	270.9 (6880)	5.9 (150)	6.3 (160)	5.9 (150)	6.3 (160)	22 (560)	22.4 (570)	3/6	8265 (3750)	9085 (4120)	9260 (4200)	9680 (4390)			
X2BX50/X2BX55M600	236.2 (6000)	153.3 (3895)	157.3 (3995)	271.5 (6895)	275.4 (6995)	290.6 (7380)	290.6 (7380)	5.9 (150)	6.3 (160)	5.9 (150)	6.3 (160)	22 (560)	22.4 (570)	3/6	6660 (3020)	7055 (3200)	8860 (4020)	9280 (4210)			
Full Free Lift 2 Stage Mast	X2BX50/X2BX55U245	96.5 (2450)	77.8 (1975)	81.7 (2075)	128.3 (3260)	129.9 (3300)	150.8 (3830)	150.8 (3830)	45.9 (1165)	47.2 (1200)	23.4 (595)	27.4 (695)	22.8 (579)	23 (584)	6/12	10000 (4540)	11000 (5000)	10000 (4540)	11000 (5000)		
	X2BX50/X2BX55U300	118.1 (3000)	88.6 (2250)	92.5 (2350)	150 (3810)	151.6 (3850)	172.4 (4380)	172.4 (4380)	56.7 (1440)	59.1 (1500)	34.3 (870)	38.2 (970)	22.8 (579)	23 (584)	6/12	10000 (4540)	11000 (5000)	10000 (4540)	11000 (5000)		
	X2BX50/X2BX55U330	129.9 (3300)	94.5 (2400)	98.4 (2500)	161.8 (4110)	163.4 (4150)	184.3 (4680)	184.3 (4680)	62.6 (1590)	65.0 (1650)	40.2 (1020)	44.1 (1120)	22.8 (579)	23 (584)	6/12	10000 (4540)	11000 (5000)	10000 (4540)	11000 (5000)		
	X2BX50/X2BX55U350	137.8 (3500)	98.4 (2500)	102.4 (2600)	169.7 (4310)	171.3 (4350)	192.1 (4880)	192.1 (4880)	66.5 (1690)	68.9 (1750)	44.1 (1120)	48 (1220)	22.8 (579)	23 (584)	6/12	10000 (4540)	11000 (5000)	10000 (4540)	11000 (5000)		
	X2BX50/X2BX55U370	145.7 (3700)	102.4 (2600)	106.3 (2700)	177.6 (4510)	179.1 (4550)	200 (5080)	200 (5080)	70.5 (1790)	72.8 (1850)	48 (1220)	52 (1320)	22.8 (579)	23 (584)	6/12	10000 (4540)	11000 (5000)	10000 (4540)	11000 (5000)		
	X2BX50/X2BX55U400	157.5 (4000)	111.2 (2825)	115.2 (2925)	190 (4825)	190 (4825)	211.8 (5380)	211.8 (5380)	78.7 (2000)	78.7 (2000)	56.9 (1445)	56.9 (1445)	22.8 (579)	23 (584)	6/12	10000 (4540)	11000 (5000)	10000 (4540)	11000 (5000)		
Full Free Lift 3 Stage Mast	X2BX50/X2BX55N400	157.5 (4000)	80.7 (2050)	84.6 (2150)	189.4 (4810)	189.4 (4810)	211.8 (5380)	211.8 (5380)	48.8 (1240)	52.4 (1330)	26.4 (670)	30.3 (770)	22.6 (573)	23 (583)	6/12	10000 (4540)	11000 (5000)	10000 (4540)	11000 (5000)		
	X2BX50/X2BX55N430	169.3 (4300)	84.8 (2155)	88.8 (2255)	201.2 (5110)	201.2 (5110)	223.6 (5680)	223.6 (5680)	53.0 (1345)	56.9 (1445)	30.5 (775)	34.4 (875)	22.6 (573)	23 (583)	6/6	10000 (4540)	11000 (5000)	10000 (4540)	11000 (5000)		
	X2BX50/X2BX55N450	177.2 (4500)	87.6 (2225)	91.5 (2325)	209.1 (5310)	209.1 (5310)	231.5 (5880)	231.5 (5880)	55.7 (1415)	59.1 (1500)	33.3 (845)	37.2 (945)	22.6 (573)	23 (583)	6/6	10000 (4540)	11000 (5000)	10000 (4540)	11000 (5000)		
	X2BX50/X2BX55N470	185 (4700)	90.2 (2290)	94.1 (2390)	216.9 (5510)	216.9 (5510)	239.4 (6080)	239.4 (6080)	58.3 (1480)	61.8 (1570)	35.8 (910)	39.8 (1010)	22.6 (573)	23 (583)	6/6	9460 (4290)	10075 (4570)	10000 (4540)	11000 (5000)		
	X2BX50/X2BX55N480	189 (4800)	93.5 (2375)	97.4 (2475)	220.9 (5610)	220.9 (5610)	243.3 (6180)	243.3 (6180)	59.1 (1500)	59.1 (1500)	39.2 (995)	43.1 (1095)	22.6 (573)	23 (583)	6/6	9260 (4200)	9680 (4390)	9875 (4480)	10495 (4760)		
	X2BX50/X2BX55N500	196.9 (5000)	95.5 (2425)	99.4 (2525)	228.7 (5810)	228.7 (5810)	251.2 (6380)	251.2 (6380)	63.6 (1615)	66.9 (1700)	41.1 (1045)	45.1 (1145)	22.6 (573)	23 (583)	6/6	9060 (4110)	9480 (4300)	9680 (4390)	10075 (4570)		
	X2BX50/X2BX55N550	216.5 (5500)	101.4 (2575)	105.3 (2675)	248.4 (6310)	248.4 (6310)	270.9 (6880)	270.9 (6880)	69.5 (1765)	70.9 (1800)	47 (1195)	51 (1295)	22.6 (573)	23 (583)	3/6	7850 (3560)	8665 (3930)	9260 (4200)	9680 (4390)		
	X2BX50/X2BX55N600	236.2 (6000)	110.2 (2800)	114.2 (2900)	268.1 (6810)	268.1 (6810)	290.6 (7380)	290.6 (7380)	78.3 (1990)	78.7 (2000)	55.9 (1420)	59.8 (1520)	22.6 (573)	23 (583)	3/6	6435 (2920)	7055 (3200)	8860 (4020)	9280 (4210)		
	X2BX50/X2BX55N650	255.9 (6500)	118.9 (3020)	124 (3150)	287.8 (7310)	287.8 (7310)	310.2 (7880)	310.2 (7880)	86.6 (2200)	86.6 (2200)	65.7 (1670)	69.7 (1770)	22.6 (573)	23 (583)	3/6	3330 (1510)	4630 (2100)	6435 (2920)	7055 (3200)		
	X2BX50/X2BX55N700	275.6 (7000)	128.9 (3275)	132.9 (3375)	307.5 (7810)	307.5 (7810)	329.9 (8380)	329.9 (8380)	90.6 (2300)	90.6 (2300)	74.6 (1895)	78.5 (1995)	22.6 (573)	23 (583)	3/6	2005 (910)	3640 (1650)	4940 (2240)	5335 (2420)		

XF2 Series I.C. Pneumatic Forklift with 8,000-11,000lb Load Capacity

Distinguishing Marks	1.0	Manufacturer[abbreviation]		HANGCHA GROUP CO., LTD.							
	1.1	HCFA Type Designation		FD40B	FD45B	FD50BS	FD55B	FP40B	FP45B	FP50BS	FP55B
	1.2	Manufacturer's type designation		CPCD40-X2W99BN	CPCD45-X2W99BN	CPCD50-X2XW99BN	CPCD55-X2XW99BN	CPYD40-X2H11BN	CPYD45-X2H11BN	CPYD50-X2XH11BN	CPYD55-X2XH11BN
	1.3	Drive: electric (battery type, mains, ...), diesel, petrol, fuel gas		Diesel	Diesel	Diesel	Diesel	LPG	LPG	LPG	LPG
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated	Seated	Seated	Seated	Seated	Seated	Seated	Seated
	1.5	Rated capacity/rated load	Q lb (kg)	8,000 [4000]	9,000 [4500]	10,000 [5000]	11,000 [5500]	8,000 [4000]	9,000 [4500]	10,000 [5000]	11,000 [5500]
	1.6	Load centre distance	c in. (mm)	24 [600]	24 [600]	24 [600]	24 [600]	24 [600]	24 [600]	24 [600]	24 [600]
	1.8	Load distance, centre of drive axle to fork	x in. (mm)	22.0 [560]	22.0 [560]	22.0 [560]	22.4 [570]	22.0 [560]	22.0 [560]	22.0 [560]	22.4 [560]
Weight	1.9	Wheelbase	y in. (mm)	78.7 [2000]	78.7 [2000]	82.7 [2100]	82.7 [2100]	78.7 [2000]	78.7 [2000]	82.7 [2100]	82.7 [2100]
	2.1	Service weight	lb (kg)	14,100 [6400]	14,500 [6600]	15,210 [6900]	16,090 [7300]	14,100 [6400]	14,500 [6600]	15,210 [6900]	16,090 [7300]
	2.2	Axle loading, laden front/rear	lb (kg)	18,979/3,131 [8610/1420]	20,520/3,031 [9305/1375]	21,971/3,241 [9970/1470]	23,787/3,307 [10800/1500]	18,979/3,131 [8610/1420]	20,520/3,031 [9305/1375]	21,971/3,241 [9970/1470]	23,787/3,307 [10800/1500]
Tires & Chassis	2.3	Axle loading, unladen front/rear	lb (kg)	6,283/7,826 [2850/3550]	6,284/8,267 [2850/3750]	6,393/8,818 [2900/4000]	6,614/9,480 [3000/4300]	6,283/7,826 [2850/3550]	6,284/8,267 [2850/3750]	6,393/8,818 [2900/4000]	6,614/9,480 [3000/4300]
	3.1	Tires: solid rubber, superelastic, pneumatic, polyurethane		Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic
	3.2	Tire size, front		8.25-15-14PR	300-15-18PR	300-15-18PR	300-15-18PR	8.25-15-14PR	300-15-18PR	300-15-18PR	300-15-18PR
	3.3	Tire size, rear		7.00-12-12PR	7.00-12-12PR	7.00-12-12PR	7.00-12-14PR	7.00-12-12PR	7.00-12-12PR	7.00-12-12PR	7.00-12-14PR
	3.5	Wheels, number front/rear[=*driven wheels]		2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2
Dimensions	3.6	Tread, front	b10 in. (mm)	45.7 [1160]	45.3 [1150]	45.3 [1150]	45.3 [1150]	45.7 [1160]	45.3 [1150]	45.3 [1150]	45.3 [1150]
	3.7	Tread, rear	b11 in. (mm)	44.5 [1130]	44.5 [1130]	44.5 [1130]	44.5 [1130]	44.5 [1130]	44.5 [1130]	44.5 [1130]	44.5 [1130]
	4.1	Tilt of mast/fork carriage forward/backward	a/b (°)	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12
	4.2	Height, mast lowered	h1 in. (mm)	88.4 [2245]	88.4 [2245]	88.4 [2245]	92.5 [2345]	88.4 [2245]	88.4 [2245]	88.4 [2245]	92.5 [2345]
	4.3	Free lift	h2 in. (mm)	5.9 [150]	5.9 [150]	5.9 [150]	6.3 [160]	5.9 [150]	5.9 [150]	5.9 [150]	6.3 [160]
	4.4	Lift	h3 in. (mm)	118.1 [3000]	118.1 [3000]	118.1 [3000]	118.1 [3000]	118.1 [3000]	118.1 [3000]	118.1 [3000]	118.1 [3000]
	4.5	Height, mast extended	h4 in. (mm)	164.6 [4170]	164.6 [4170]	172.4 [4380]	172.4 [4380]	164.6 [4170]	164.6 [4170]	172.4 [4380]	172.4 [4380]
	4.7	Height of overhead guard (cabin)	h6 in. (mm)	91.3 [2320]	91.3 [2320]	91.3 [2320]	91.3 [2320]	91.3 [2320]	91.3 [2320]	91.3 [2320]	91.3 [2320]
	4.8	Seat height relating to SIP/stand height	h7 in. (mm)	54.3 [1380]	54.3 [1380]	54.3 [1380]	54.3 [1380]	54.3 [1380]	54.3 [1380]	54.3 [1380]	54.3 [1380]
	4.12	Coupling height	h10 in. (mm)	26.6 [675]	26.6 [675]	26.6 [675]	26.6 [675]	26.6 [675]	26.6 [675]	26.6 [675]	26.6 [675]
	4.19	Overall length	l1 in. (mm)	162.6 [4130]	163.8 [4160]	167.3 [4250]	170.1 [4320]	162.6 [4130]	163.8 [4160]	167.3 [4250]	170.1 [4320]
	4.20	Length to face of forks	l2 in. (mm)	120.5 [3060]	121.7 [3090]	125.2 [3180]	127.9 [3250]	120.5 [3060]	121.7 [3090]	125.2 [3180]	127.9 [3250]
	4.21	Overall width	b1/b2 in. (mm)	55.9/76.4 [1420/1940]	55.9/57.1 [1450/1940]	55.9/57.1 [1450/1940]	55.9/57.1 [1450/1940]	55.9/76.4 [1420/1940]	55.9/57.1 [1450/1940]	55.9/57.1 [1450/1940]	55.9/57.1 [1450/1940]
	4.22	Fork dimensions DIN ISO 2331	s / e / l in. (mm)	50/150/1070	50/150/1070	50/150/1070	60/150/1070	50/150/1070	50/150/1070	50/150/1070	60/150/1070
	4.23	Fork carriage ISO 2328, class/type A,B		IIIA	IIIA	IIIA	IV A	IIIA	IIIA	IIIA	IV A
	4.24	Fork-carriage width	b3 in. (mm)	49.2 [1250]	49.2 [1250]	49.2 [1250]	49.2 [1250]	49.2 [1250]	49.2 [1250]	49.2 [1250]	49.2 [1250]
	4.31	Ground clearance, laden, below mast	m1 in. (mm)	5.7 [145]	5.7 [145]	5.7 [145]	5.7 [145]	5.7 [145]	5.7 [145]	5.7 [145]	5.7 [145]
	4.32	Ground clearance, centre of wheelbase	m2 in. (mm)	9.1 [230]	9.1 [230]	9.1 [230]	9.1 [230]	9.1 [230]	9.1 [230]	9.1 [230]	9.1 [230]
	4.34.1	Aisle width for pallets 1000 - 1200 crossways	Ast in. (mm)	173.6 [4390]	174.8 [4420]	177.6 [4510]	180.3 [4580]	173.6 [4390]	174.8 [4420]	177.6 [4510]	180.3 [4580]
	4.34.2	Aisle width for pallets 800 - 1200 lengthways	Ast in. (mm)	180.7 [4590]	181.1 [4620]	185.0 [4710]	188.2 [4780]	180.7 [4590]	181.1 [4620]	185.0 [4710]	188.2 [4780]
Performance Data	4.35	Turning radius	Wa in. (mm)	103.5 [2630]	104.7 [2660]	108.3 [2750]	110.6 [2810]	103.5 [2630]	104.7 [2660]	108.3 [2750]	110.6 [2810]
	4.36	Internal turning radius	b13 in. (mm)	27.3 [692]	27.3 [692]	29.5 [749]	29.5 [749]	27.3 [692]	27.3 [692]	29.5 [749]	29.5 [749]
	5.1	Travel speed, laden/unladen	mph (km/h)	14.6/14.9 [23.5/24]	14.6/14.9 [23.5/24]	14.6/14.9 [23.5/24]	14.6/14.9 [23.5/24]	14.6/14.9 [23.5/24]	14.6/14.9 [23.5/24]	14.6/14.9 [23.5/24]	14.6/14.9 [23.5/24]
	5.2	Lift speed, laden/unladen	fpm (m/s)	114.2/120.1 [0.58/0.61]	114.2/120.1 [0.58/0.61]	98.4/102.4 [0.50/0.52]	98.4/102.4 [0.50/0.52]	120.1/126 [0.61/0.64]	120.1/126 [0.61/0.64]	102.4/108.3 [0.52/0.55]	102.4/108.3 [0.52/0.55]
	5.3	Lowering speed, lade/unladen	fpm (m/s)	88.6/98.4 [0.45/0.5]	88.6/98.4 [0.45/0.5]	88.6/98.4 [0.45/0.5]	88.6/98.4 [0.45/0.5]	88.6/98.4 [0.45/0.5]	88.6/98.4 [0.45/0.5]	88.6/98.4 [0.45/0.5]	88.6/98.4 [0.45/0.5]
	5.6	Max. drawbar pull, laden/unladen	ft lb	38500/21000	38500/21000	38500/21000	38500/21000	38600/21000	38600/21000	38600/21000	38600/21000
	5.8	Max. gradeability, laden/unladen	%	30/23	28/23	26/20	25/20	30/23	28/23	26/20	25/20
Combustion Engine	5.10	Service brake		Wet Disc	Wet Disc	Wet Disc	Wet Disc	Wet Disc	Wet Disc	Wet Disc	Wet Disc
		Parking brake		Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
	7.1	Engine manufacturer/type		KUBOTA/V3307-CR-TIE5B				KUBOTA/WG3800-L-E5C			
		Emission standard		EPA Tier 4F				EPA Tier 2/CARB Tier 3			
	7.2	Engine power according to ISO 1585	hp (kW)	73.2 [54.6]	73.2 [54.6]	73.2 [54.6]	73.2 [54.6]	82.6 [61.6]	82.6 [61.6]	82.6 [61.6]	82.6 [61.6]
	7.3	Rated speed	RPM (	2200	2200	2200	2200	2300	2300	2300	2300
	7.4	Number of cylinders/displacement	(-)/[cm³]	4/3331	4/3331	4/3331	4/3331	4/3769	4/3769	4/3769	4/3769
Drive Unit	7.10	Battery voltage/nominal capacity	[V]/[Ah]	12/105	12/105	12/105	12/105	12/90	12/90	12/90	12/90
		Rated torque	ft lb/[r/min]	243.4/1400	243.4/1400	243.4/1400	243.4/1400	208.3/1200	208.3/1200	208.3/1200	208.3/1200
	8.1	Type of drive unit		Powershift	Powershift	Powershift	Powershift	Powershift	Powershift	Powershift	Powershift
		Speeds FWD/RVS		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
Data	10.1	Operating pressure for attachments	PSI (MPa)	2,320.6 [16]	2,320.6 [16]	2,320.6 [16]	2,320.6 [16]	2,320.6 [16]	2,320.6 [16]	2,320.6 [16]	2,320.6 [16]
	10.2	Oil volume for attachments	gal(ℓ)/min	10.6 [40]	10.6 [40]	10.6 [40]	10.6 [40]	10.6 [40]	10.6 [40]	10.6 [40]	10.6 [40]
	10.4	Fuel tank capacity	gal(ℓ)	23.8 [90]	23.8 [90]	26.4 [100]	26.4 [100]	/	/	/	/

XF2 Series Dual Fuel Pneumatic Forklift with 8,000-11,000lb Load Capacity

Distinguishing Marks	1.0	Manufacturer[abbreviation]		HANGCHA GROUP CO., LTD.			
	1.1	HCFA Type Designation		FPG40B	FPG45B	FPG50BS	FPG55B
	1.2	Manufacturer's type designation		CPYD40-X2H12BN	CPYD45-X2H12BN	CPYD50-X2XH12BN	CPYD55-X2XH12BN
	1.3	Drive: electric, diesel, petrol, fuel gas		LPG/GAS	LPG/GAS	LPG/GAS	LPG/GAS
	1.4	Operator type:		Seated	Seated	Seated	Seated
	1.5	Rated capacity/ rated load	Q lb (kg)	8,000 [4000]	9,000 [4500]	10,000 [5000]	11,000 [5500]
	1.6	Load centre distance	c in. (mm)	24 [600]	24 [600]	24 [600]	24 [600]
	1.8	Load distance, centre of drive axle to fork	x in. (mm)	22.0 [560]	22.0 [560]	22.0 [560]	22.4 [560]
	1.9	Wheelbase	y in. (mm)	78.7 [2000]	78.7 [2000]	82.7 [2100]	82.7 [2100]
Weight	2.1	Service weight	lb (kg)	14,100 [6400]	14,500 [6600]	15,210 [6900]	16,090 [7300]
	2.2	Axle loading, laden front/rear	lb (kg)	18,979/3,131 [8610/1420]	20,520/3,031 [9305/1375]	21,971/3,241 [9970/1470]	23,787/3,307 [10800/1500]
	2.3	Axle loading, unladen front/rear	lb (kg)	6,283/7,826 [2850/3550]	6,284/8,267 [2850/3750]	6,393/8,818 [2900/4000]	6,614/9,480 [3000/4300]
Tires & Chassis	3.1	Tires:		Pneumatic	Pneumatic	Pneumatic	Pneumatic
	3.2	Tire size, front		8.25-15-14PR	300-15-18PR	300-15-18PR	300-15-18PR
	3.3	Tire size, rear		7.00-12-12PR	7.00-12-12PR	7.00-12-12PR	7.00-12-14PR
	3.5	Wheels, number front/rear(*=driven wheels)		2/2	2/2	2/2	2/2
	3.6	Tread, front	b10 in. (mm)	45.7 [1160]	45.3 [1150]	45.3 [1150]	45.3 [1150]
	3.7	Tread, rear	b11 in. (mm)	44.5 [1130]	44.5 [1130]	44.5 [1130]	44.5 [1130]
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	a/b (°)	6/12	6/12	6/12	6/12
	4.2	Height, mast lowered	h1 in. (mm)	88.4 [2245]	88.4 [2245]	88.4 [2245]	92.5 [2345]
	4.3	Free lift	h2 in. (mm)	5.9 [150]	5.9 [150]	5.9 [150]	6.3 [160]
	4.4	Lift	h3 in. (mm)	118.1 [3000]	118.1 [3000]	118.1 [3000]	118.1 [3000]
	4.5	Height, mast extended	h4 in. (mm)	164.6 [4170]	164.6 [4170]	172.4 [4380]	172.4 [4380]
	4.7	Height of overhead guard (cabin)	h6 in. (mm)	91.3 [2320]	91.3 [2320]	91.3 [2320]	91.3 [2320]
	4.8	Seat height relating to SIP/stand height	h7 in. (mm)	54.3 [1380]	54.3 [1380]	54.3 [1380]	54.3 [1380]
	4.12	Coupling height	h10 in. (mm)	26.6 [675]	26.6 [675]	26.6 [675]	26.6 [675]
	4.19	Overall length	l1 in. (mm)	162.6 [4130]	163.8 [4160]	167.3 [4250]	170.1 [4320]
	4.20	Length to face of forks	l2 in. (mm)	120.5 [3060]	121.7 [3090]	125.2 [3180]	127.9 [3250]
	4.21	Overall width	b1/b2 in. (mm)	55.9/76.4 [1420/1940]	55.9/57.1 [1450/1940]	55.9/57.1 [1450/1940]	55.9/57.1 [1450/1940]
	4.22	Fork dimensions DIN ISO 2331	s / e / l in. (mm)	50/150/1070	50/150/1070	50/150/1070	60/150/1070
	4.23	Fork carriage ISO 2328, class/type A,B		IIIA	IIIA	IIIA	IV A
	4.24	Fork-carriage width	b3 in. (mm)	49.2 [1250]	49.2 [1250]	49.2 [1250]	49.2 [1250]
	4.31	Ground clearance, laden, below mast	m1 in. (mm)	5.7 [145]	5.7 [145]	5.7 [145]	5.7 [145]
	4.32	Ground clearance, centre of wheelbase	m2 in. (mm)	9.1 [230]	9.1 [230]	9.1 [230]	9.1 [230]
	4.34.1	Aisle width for pallets 1000 × 1200 crossways	Ast in. (mm)	173.6 [4390]	174.8 [4420]	177.6 [4510]	180.3 [4580]
	4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast in. (mm)	180.7 [4590]	181.1 [4620]	185.0 [4710]	188.2 [4780]
	4.35	Turning radius	Wa in. (mm)	103.5 [2630]	104.7 [2660]	108.3 [2750]	110.6 [2810]
	4.36	Internal turning radius	b13 in. (mm)	27.3 [692]	27.3 [692]	29.5 [749]	29.5 [749]
Performance Data	5.1	Travel speed, laden/unladen	mph (km/h)	14.6/14.9 [23.5/24]	14.6/14.9 [23.5/24]	14.6/14.9 [23.5/24]	14.6/14.9 [23.5/24]
	5.2	Lift speed, laden/unladen	fpm (m/s)	120.1/126 [0.61/0.64]	120.1/126 [0.61/0.64]	102.4/108.3 [0.52/0.55]	102.4/108.3 [0.52/0.55]
	5.3	Lowering speed, lade/unladen	fpm (m/s)	88.6/98.4 [0.45/0.5]	88.6/98.4 [0.45/0.5]	88.6/98.4 [0.45/0.5]	88.6/98.4 [0.45/0.5]
	5.6	Max. drawbar pull, laden/unladen	ft lb	36500/21000	36500/21000	36500/21000	36500/21000
	5.8	Max. gradeability, laden/unladen	%	24/23	23/23	22/20	21/20
	5.10	Service brake		Wet Disc	Wet Disc	Wet Disc	Wet Disc
Combustion Engine		Parking brake		Mechanical	Mechanical	Mechanical	Mechanical
	7.1	Engine manufacturer /type		KUBOTA/WG3800-GL-E3C			
		Emission standard		EPA Tier 2 /CARB Tier 3			
	7.2	Engine power according to ISO 1585	hp (kW)	G:73 [54.4]/LP:73.2[54.6]	G:73 [54.4]/LP:73.2[54.6]	G:73 [54.4]/LP:73.2[54.6]	G:73 [54.4]/LP:73.2[54.6]
	7.3	Rated speed	min ⁻¹	2300	2300	2300	2300
	7.4	Number of cylinders/displacement	(-)/[cm³]	4/3769	4/3769	4/3769	4/3769
Drive Unit	7.10	Battery voltage/nominal capacity	(V)/(Ah)	12/90	12/90	12/90	12/90
		Rated torque	ft lb/[r/min]	G:183.3[1400] LP:201.43[1200]	G:183.3[1400] LP:201.43[1200]	G:183.3[1400] LP:201.43[1200]	G:183.3[1400] LP:201.43[1200]
Data	8.1	Type of drive unit		Powershift	Powershift	Powershift	Powershift
		Speeds FWD/RVS		1/1	1/1	1/1	1/1
	10.1	Operating pressure for attachments	PSI (MPa)	2,320.6 [16]	2,320.6 [16]	2,320.6 [16]	2,320.6 [16]
	10.2	Oil volume for attachments	gal(ℓ)/min	10.6 [40]	10.6 [40]	10.6 [40]	10.6 [40]
Data	10.4	Fuel tank capacity	gal(ℓ)	23.8 [90]	23.8 [90]	26.4 [100]	26.4 [100]



AST=l6+x+Wa+a L6: load length a=200 mm safety clearance

