

























### HIGHLIGHTS

- Powerful high quality AC drive system
- 4-Way proportional hydraulics to carriage
- On-demand fully hydrostatic power steering (FHPS)
- Integrated side shift
- Intelligent buffering
- Multi-function Eye-Level LCD Display: lifting weight, lifting height, speed, power, steering, fault code, alarm, fuel indicator and more
- Deluxe suspension seat
- Operator presence sensing system.
- ► LED Safety Blue light, rear work light, headlights, and strobe
- Rear grab bar with horn
- Tilt cylinder boots
- Automatic speed reduction in turns
- CAN-bus communications system
- On-board self-diagnostics
- Lithium battery with REMA connector provides multiple shift operation
- Integral 110V built-in charger (external charger optional)
- Fast charging 2-3 hours

# **ALPHA 50-60 Li**

**5,000 - 6,000 lbs. Capacity** Li-ion Pneumatic Forklift

The ALPHA Li Series are highly efficient, durable Lithium forklifts. They are designed for indoor and outdoor applications. The mast system, front/rear axles and chassis are engineered to be tough like an Internal Combustion forklift, but with all the advantages of Lithium. AC drive technology is used to achieve high performance with low operating and maintenance costs. Greatly increase your work productivity with these quiet, very low maintenance, ultrasmooth, lithium forklifts.

#### HIGHLIGHTS

- Powerful Kubota engine 56.2 HP/2,600 rpm
- 4-Way hydraulics to carriage (proportional hydraulics - optional)
- On-demand fully hydrostatic power steering (FHPS)
- Integrated side shift
- Intelligent buffering
- Multi-function Eye-Level LCD Display: lifting weight, lifting height, speed, power, steering, fault code, alarm, fuel indicator and more
- Deluxe suspension seat
- Operator presence sensing system
- ► LED Safety Blue light, rear work light, headlights, and strobe
- Rear grab bar with horn
- ► Tilt cylinder boots
- Swing-out LPG tank
- Meets EPA Tier 2 / CARB Tier 3 and EU Stage V emission regulations for engine exhaust emissions



The ALPHA LPG Series is the same forklift but with a Kubota LPG engine, allowing you to choose the power source that best fits your operation without sacrificing performance, comfort or familiarity. This minimizes spare parts inventory, reducing service and maintenance costs.

Future lithium conversion kits will present the opportunity for ALPHA LPG forklifts to be upgraded to lithium power, extending their operational lifespan.

# **ALPHA 50-60 LPG**

**5,000 - 6,000 lbs. Capacity** LPG Pneumatic Forklift

# GREAT VISIBILITY. ERGONOMIC.





The large, ergonomic cab and user-friendly design ensures operator comfort throughout the entire work shift. Low entrance height provides operator easy and safe access.

Deluxe suspension, fully adjustable seat reduces vibration to the driver to effectively reduce driver fatigue for all sizes of operators.

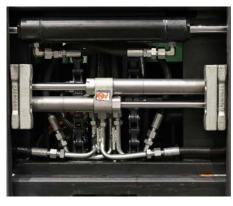


On-Demand Fully Hydrostatic Power Steering (FHPS) guarantees smooth steering, preventing over-run and kickback. Spinner knob allows easier one-handed steering.

# SUPERIOR DESIGN AND PERFORMANCE



Heavy-duty steel chassis, axles, mast and overhead guard deliver high strength and stability for high lifting heights and heavy loads.



Integrated side shift allows for precise movement of the fork carriage without having to move the whole forklift.



Intelligent buffering effectively protects the ground and cargo from damage while forks descend to the ground.



Operator Presence System (OPS) — When operator is not in seat, the hydraulic lift and tilt controls automatically lock out and traveling is disabled.



Large frame-mounted LCD display improves safety and efficiency by placing the screen in the operator's line of sight.



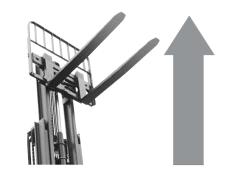
Cast axles increases the bearing load and improves the truck structure, while prolonging vehicle service life.



Travel Speed Up To 12.4 mph



**Gradeability / Full Load** 



Fast Lifting Speed Up To 118 ftm

# SUPERIOR DESIGN AND PERFORMANCE



Tilt cylinder boots protect tilt cylinder and oil seals from the environment, prolonging cylinder life.



An enlarged step allows the operator to safely and easily get on and off the forklift.



Adjustable steering column to ensure operator comfort throughout the entire shift.

- A LED headlights brighten dimly lit areas for optimal visibility.
- Panoramic rear-view mirror gives the operator a wider rear visibility.
- Frame-mounted LCD display mounted in the operator's line of sight.

- LED signal lights improve safety, last a long time and are very durable.
- E LED rear work light provides excellent visibility while backing up.
- LED strobe flashes while operating the vehicle to alert others in the area.
- Blue LED light projects a blue beam onto the floor to warn pedestrians.
- Rear grab bar with horn provides easy horn operation while traveling in reverse.
- Dual wide angle mirrors (optional not shown).



# SUPERIOR DESIGN AND PERFORMANCE



Large diameter, solid pneumatic tires ensure comfortable driving for outdoor and indoor use.



Optimized pedal position gives operator comfort throughout the entire work shift while reducing operator fatigue.



USB connector for charging and powering of additional devices during operations.



Cup and Pen holder provide convenience for operator.



Gain rapid access to engine and other components with an air spring assisted engine cover and integrated hood lock. Hood opens 80 degrees to allow for complete access.

Modular frame is designed based on the same chassis as the NOBLELIFT LPG, Diesel and Electric forklifts. Main components and configurations are the same. Spare parts inventory is minimized to reduce service and maintenance costs.



#### **APPLICATIONS**



#### **ALPHA LI ADVANTAGES**



Automatic decelerating while turning, improves safety and stability, while preventing product damage.



Battery allows for multiple shift operation.



Easily check truck's condition and troubleshoot with CAN-bus technology.

# LONG LASTING AND SAFE LITHIUM POWER

NOBLELIFT uses LiFePO4 chemistry, the longest lasting and safest lithium battery chemistry available. Our lithium batteries are equipped with a Battery Management System (BMS), thermal management system, and an automotive-grade DC high-voltage control system. BMS manages charging and discharging data to ensure safety throughout its life cycle.

ALPHA 50-60 Li forklifts have a 10 year or 20,000 hour warranty on the on the lithium battery cells.



# **ADVANTAGES OF LITHIUM POWER**



Fast-charging maintenance-free Lithium battery can be fully charged in 2-3 hours. Battery can be opportunity charged during user breaks and during shift changes which allows the truck to run continuously through multi-shift operations. No battery changes are necessary.

#### **TOTAL COST OF OWNERSHIP**

**Lead-Acid Battery** 

**Acquisition Cost** 

**Electric Cost** 

**Maintenance Cost** 

**Battery Changing,** 

Extra Batteries,

**Dedicated Battery** 

Room

UP TO
47%
SAVINGS OVER 5 YEARS

Opportunity Charging Increases Productivity

Lithium Battery Acquisition Cost

**Electric Cost** 

Maintenance Cost

Internal Combustion Acquisition Cost

Fuel Cost

**Maintenance Cost** 

#### **LITHIUM BATTERY ADVANTAGES**

#### **Lead-Acid Battery**

Lower fleet availability -Work is interrupted because battery needs to be fully charged before next use Productivity -Memory Effect

100% Fleet availability -Opportunity charging allows battery to be charged in between use

**Lithium Battery** 

Periodic battery replacement

Service Life

Batteries last 3 times longer and do not need to be replaced

Outsourced or in-house maintenance personnel required

Ongoing Maintenance

No maintenance cost

8-10 Hours - 2 or more batteries per lift truck



2-3 Hours - 1 Battery per lift truck

Build an expensive battery room with ventilation



No battery room needed

Releases hydrogen while charging - Can result in explosion - Acid burns can happen during maintenance



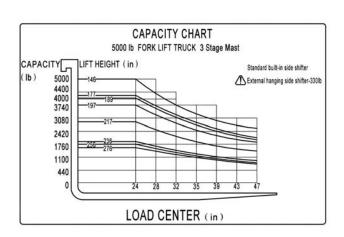
No dangerous substances

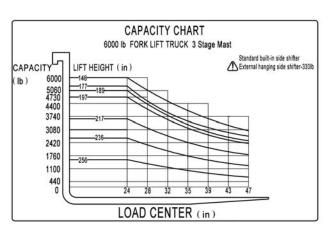
Power loss

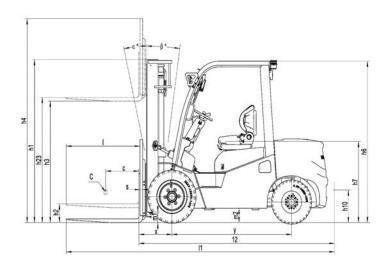


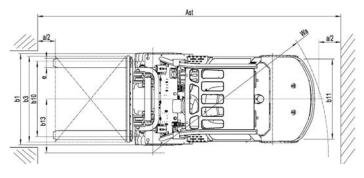
No power loss - Reduces energy consumption by 35%

Mast Table ALPHA 50-60 Li												
Designation Lift height h3 (in)		_	Free lift h2 (in)		Closed mast height h1 (in)		Extended mast height h4 (in)		Tilt forward / backward a/b (°)		Capacity table (lb) C=24in without attachment	
	ALPHA 50 Li	ALPHA 60 Li	ALPHA 50 Li	ALPHA 60 Li	ALPHA 50 Li	ALPHA 60 Li	ALPHA 50 Li	ALPHA 60 Li	ALPHA 50 Li	ALPHA 60 Li	ALPHA 50 Li	ALPHA 60 Li
	79	79	5.5	5.7	64	61	120	122	6 / 12	6 / 12	5,000	6,000
	98	98	5.5	5.7	69	71	140	142	6 / 12	6 / 12	5,000	6,000
	106	106	5.5	5.7	73	75	147	150	6 / 12	6 / 12	5,000	6,000
	118	118	5.5	5.7	79	81	159	162	6 / 12	6 / 12	5,000	6,000
	130	130	5.5	5.7	84	87	171	173	6 / 12	6 / 12	5,000	6,000
	138	138	5.5	5.7	88	91	179	181	6 / 12	6 / 12	5,000	6,000
	142	142	5.5	5.7	92	95	183	185	6 / 12	6 / 12	5,000	6,000
Two-stage ZT	146	146	5.5	5.7	94	97	187	189	6 / 12	6 / 12	5,000	6,000
Two-stage ZT	150	150	5.5	5.7	96	99	191	193	6 / 12	6 / 12	5,000	6,000
	157	157	5.5	5.7	102	105	199	201	6 / 12	6 / 12	5,000	6,000
	169	169	5.5	5.7	108	110	210	213	6/6	6/6	4,620	6,000
	177	177	5.5	5.7	112	114	218	221	6/6	6/6	4,400	6,000
	189	189	5.5	5.7	118	120	230	232	6/6	6/6	3,960	5,940
	197	197	5.5	5.7	122	124	238	240	6/6	6/6	3,740	5,610
	217	217	5.5	5.7	132	134	258	260	3/6	3/6	3,300	4,950
	236	236	5.5	5.7	142	144	277	280	3/6	3/6	2,530	3,410
	98	98	30	33	71	78	140	143	6 / 12	6 / 12	5,000	6,000
	106	106	34	37	75	82	147	150	6 / 12	6 / 12	5,000	6,000
T	118	118	38	41	79	86	159	162	6 / 12	6 / 12	5,000	6,000
Two-stage FFL	130	130	44	49	85	94	171	174	6 / 12	6 / 12	5,000	6,000
	142	142	50	55	91	100	183	186	6 / 12	6 / 12	5,000	6,000
	157	157	59	63	101	108	199	202	6 / 12	6 / 12	5,000	6,000
	157	157	36	38	77	83	199	202	6/6	6/6	4,840	5,940
	169	169	40	42	81	82	211	213	6/6	6/6	4,620	5,720
	177	177	43	44	84	86	221	223	6/6	6/6	4,290	5,280
Three-stage FFL	189	189	46	48	88	94	231	233	6/6	6/6	4,070	5,060
	197	197	49	51	90	96	238	241	6/6	6/6	3,740	4,730
	217	217	56	57	97	103	258	261	3/6	3/6	2,860	3,630
	236	236	64	64	105	109	278	280	3/6	3/6	1,870	2,640









Identi	fication					
1.1	Manufacturer		NOBL	ELIFT		
1.2	Model		ALPHA 50 Li	ALPHA 60 Li		
1.3	Drive (electric – battery or mains, diesel, petrol, gas, manual)		Lith			
1.4	Type of operation (hand, pedestrian, standing, seated, order picker)			l forklift		
1.5	Load capacity / rated load	Q (lb)	5,000	6,000		
1.6	Load center distance	C (in)	2,000	· · · · · · · · · · · · · · · · · · ·		
1.8	Load distance, center of drive axle to fork	x (in)	18.3	18.9		
1.9	Wheel base	y (in)	65	69		
Weigh		y (111)	03	03		
2.1	Service weight including engine	lb	8,250	9,460		
2.2	Axle loading, laden front / rear	lb	12,100 / 1,650	14,340 / 1,720		
2.3	Axle loading, unladen front / rear	lb	3,080 / 5,170	3,630 / 5,830		
Whee	ls, Chassis					
3.1	Tires (solid rubber, superelastic, pneumatic, polyurethane)		Solid pr	neumatic		
3.2	Tire size, front		7-12-12PR	28x9-15-14PR		
3.3	Tire size, rear		6-9-10PR	6.50-10-10PR		
3.5	Wheels, number front / rear (x = driven wheels)		2x / 2			
3.6	Track width, front	b10 (in)	38	39		
3.7	Track width, rear	b11 (in)	3	9		
	Dimensions					
4.1	Mast / fork carriage tilt forward / backward	a/b (°)	6 /	12		
4.2	Lowered mast height	h1 (in)	79	81		
4.3	Free lift	h2 (in)	5.5	5.9		
4.4	Lift height	h3 (in)	11	18		
4.5	Extended mast height	h4 (in)	158	162		
4.7	Overhead load guard (cab) height	h6 (in)	84	85		
4.8	Seat height / standing height	h7 (in)	4	1		
4.12	Coupling height	h10 (in)	16	17		
4.19	Overall length	l1 (in)	151	157		
4.20	Length to face of forks	I2 (in)	103	109		
4.21	Overall width	b1 (in)	45 / 46	47 / 48		
4.22	Fork Dimensions	s/e/l (in)	1.6 / 4.7 / 48	1.8 / 4.8 / 48		
4.24	Fork carriage width	b3 (in)	41	43		
4.31	Ground clearance, under mast, laden	m1 (in)	4.7	5.5		
4.32	Ground clearance, center of wheelbase	m2 (in)	6.7	7.5		
4.33	Right angle stack with 40x48 pallet	Ast (in)	146.1	155.1		
4.34	Right angle stack with 32x48 pallet	Ast (in)	154.1	162.1		
4.35	Turning radius	Wa (in)	89	96		
	mance Data					
5.1	Travel speed, laden / unladen	mph	11.2 / 11.8	11.8 / 11.8		
5.2	Lift speed, laden / unladen	fpm	98 / 114	102 / 110		
5.3	Lowering speed, laden / unladen	fpm	79 / 83	75 / 81		
5.5	Max. Drawbar pull, laden / unladen	lbf	3,372 / 2,697	4,720 / 3,372		
5.7	Max. Gradient performance, laden / unladen	%		/ 20		
5.10	Service brake		Hyd	raulic		
E-Mot						
6.1	Battery voltage, nominal capacity K5	V/Ah	76.8/150	76.8/205		
6.2	Battery weight	lb	240	290		
6.7	Battery charger	V		le phase 110		
7.1	Drive motor rating S2 60 min	HP	20	27		
7.2	Lift motor rating S3 15 min	HP	32	38		
7.3	Drive motor control mode		MOSFE			
7.4	Lifting motor control mode			T/PMSM		
7.5	Controller type		ACM80R350-CE	SZ8744-DDNLZN-ZC02-UL		
Other 10.1		nci	2.0	92		
10.1	Operating pressure for attachments  Oil volume for attachments	psi in3/min	2,6			
10.2	Hydraulic oil capacity	in3/min	3,660	4,270		
		dB	72	73		
10.7	Sound level at driver's ear according to EN 12 053	ub	12	/3		



# **Kubota Engine**

56.2 HP/2,600 rpm

#### **High Power Engine - Kubota WG Series**

High performance, durability and excellent fuel efficiency.

Type: Inline 4

Model: WG2503-L-E3 Number of cylinders: 4

Bore x Stroke: 88mm x 102.4mm Displacement: 2.491L / 152cu in

Rated output: 41.3(55.4hp)/2600kw/rpm Rated torque: 178 Nm @ 2000 rpm

Powerful high-output engine provides excellent acceleration, gradeability and fast travel speed.



# **ENVIRONMENTALLY FRIENDLY**

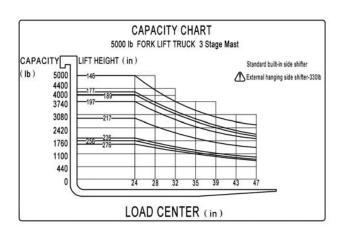


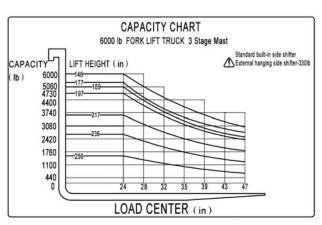
KUBOTA LPG engines meet the EPA Tier 2 / CARB Tier 3 and EU Stage V emission regulations for engine exhaust emissions.

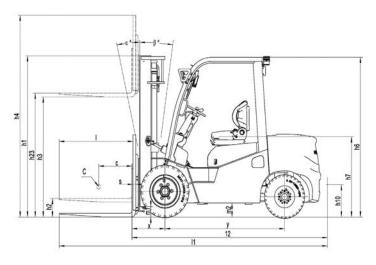
NOBLELIFT has used environment friendly materials when possible — Including non-asbestos brake shoes and a new type of sealing gasket. We are committed to pursuing a clean environment.

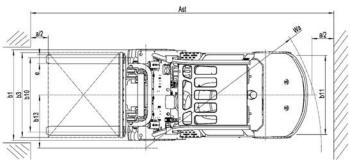


Mast Table	ALPHA 50	0-60 LPG										
Designation	gnation Lift height h3 (in)		Free lift h2 (in)		Closed mast height h1 (in)		Extended mast height h4 (in)		Tilt forward / backward a/b (°)		Capacity table (lb) C=24in without attachment	
	ALPHA 50 LPG	ALPHA 60 LPG	ALPHA 50 LPG	ALPHA 60 LPG	ALPHA 50 LPG	ALPHA 60 LPG	ALPHA 50 LPG	ALPHA 60 LPG	ALPHA 50 LPG	ALPHA 60 LPG	ALPHA 50 LPG	ALPHA 60 LPG
	79	79	5.5	5.7	64	61	120	122	6 / 12	6 / 12	5,000	6,000
	98	¦ 98	5.5	¦ 5.7	69	71	140	142	6 / 12	6/12	5,000	6,000
	106	106	5.5	5.7	73	75	147	150	6 / 12	6/12	5,000	6,000
	118	118	5.5	5.7	79	81	159	162	6 / 12	6 / 12	5,000	6,000
	130	130	5.5	5.7	84	87	171	173	6 / 12	6 / 12	5,000	6,000
	138	¦ 138	5.5	5.7	88	91	179	l 181	6 / 12	6/12	5,000	6,000
	142	142	5.5	5.7	92	95	183	185	6 / 12	6 / 12	5,000	6,000
Tt 7T	146	146	5.5	5.7	94	97	187	189	6 / 12	6 / 12	5,000	6,000
Two-stage ZT	150	150	5.5	5.7	96	99	191	193	6 / 12	6 / 12	5,000	6,000
	157	¦ 157	5.5	5.7	102	105	199	201	6 / 12	6 / 12	5,000	6,000
	169	169	5.5	5.7	108	110	210	213	6/6	6/6	4,620	6,000
	177	177	5.5	5.7	112	114	218	221	6/6	6/6	4,400	6,000
	189	189	5.5	5.7	118	120	230	232	6/6	6/6	3,960	5,940
	197	¦ 197	5.5	5.7	122	124	238	240	6/6	6/6	3,740	5,610
	217	217	5.5	5.7	132	134	258	260	3/6	3/6	3,300	4,950
	236	236	5.5	5.7	142	144	277	280	3/6	3/6	2,530	3,410
	98	98	30	¦ 33	71	78	140	143	6 / 12	6 / 12	5,000	6,000
	106	106	34	37	75	82	147	150	6 / 12	6/12	5,000	6,000
T EEI	118	118	38	41	79	86	159	162	6 / 12	6 / 12	5,000	6,000
Two-stage FFL	130	130	44	49	85	94	171	174	6 / 12	6 / 12	5,000	6,000
	142	142	50	55	91	100	183	186	6 / 12	6 / 12	5,000	6,000
	157	¦ 157	59	¦ 63	101	108	199	202	6 / 12	6 / 12	5,000	6,000
	157	157	36	38	77	83	199	202	6/6	6/6	4,840	5,940
Three-stage FFL	169	169	40	42	81	82	211	213	6/6	6/6	4,620	5,720
	177	¦ 177	43	44	84	86	221	223	6/6	6/6	4,290	5,280
	189	189	46	48	88	94	231	233	6/6	6/6	4,070	5,060
	197	197	49	51	90	96	238	241	6/6	6/6	3,740	4,730
	217	217	56	57	97	103	258	261	3/6	3/6	2,860	3,630
	236	236	64	<u> </u> 64	105	109	278	280	3/6	3/6	1,870	2,640









Identi	fication					
1.1	Manufacturer		NOBL	ELIFT		
1.2	Model		ALPHA 50 LPG	ALPHA 60 LPG		
1.3	Drive (electric – battery or mains, diesel, petrol, gas, manual)		LF			
1.4	Type of operation (hand, pedestrian, standing, seated, order picker)			l forklift		
1.5	Load capacity / rated load	Q (lb)	5,000	6,000		
1.6	Load center distance	C (in)	2	4		
1.8	Load distance, center of drive axle to fork	x (in)	18.3	18.5		
1.9	Wheel base	y (in)	65.4	69.3		
Weigh		, , ,				
2.1	Service weight including engine	lb	8,370	9,360		
2.2	Axle loading, laden front / rear	lb	11,761 / 1,609	13,596 / 1,764		
2.3	Axle loading, unladen front / rear	lb	3,520 / 4,850	3,850 / 5,510		
Wheel	ls, Chassis	'				
3.1	Tires (solid rubber, superelastic, pneumatic, polyurethane)		Solid pr	eumatic		
3.2	Tire size, front		7-12-12PR	28x9-15-14PR		
3.3	Tire size, rear		6-9-10PR	6.50-10-10PR		
3.5	Wheels, number front / rear (x = driven wheels)		2x	/ 2		
3.6	Track width, front	b10 (in)	38.3 39.4			
3.7	Track width, rear	b11 (in)	38.6			
Basic	Dimensions					
4.1	Mast / fork carriage tilt forward / backward	a/b (°)		12		
4.2	Lowered mast height	h1 (in)	78.5	80.9		
4.3	Free lift	h2 (in)	5.5	5.7		
4.4	Lift height	h3 (in)		8.1		
4.5	Extended mast height	h4 (in)	158.5	161.6		
4.7	Overhead load guard (cab) height	h6 (in)	83.9	84.6		
4.8	Seat height / standing height	h7 (in)	40.6	41.3		
4.12	Coupling height	h10 (in)	15.7	16.5		
4.19	Overall length	l1 (in)	145.6	151.2		
4.20	Length to face of forks	I2 (in)	103.5	109.1		
4.21	Overall width	b1 (in)	45.3 / 45.8	47.1 / 48.4		
4.22	Fork Dimensions	s/e/l (in)	1.6 / 4.7 / 48	1.8 / 4.8 / 48		
4.24	Fork carriage width	b3 (in)	41	43.3		
4.31	Ground clearance, under mast, laden	m1 (in)	4.7	5.5		
4.32	Ground clearance, center of wheelbase	m2 (in)	6.7	7.5		
4.33	Right angle stack with 40x48 pallet	Ast (in)	147.1	154.7		
4.34	Right angle stack with 32x48 pallet	Ast (in)	155.1	163.1		
4.35	Turning radius	Wa (in)	89.4	96.5		
5.1	Travel speed, laden / unladen	manah	11.2 / 11.2	11.0 / 10.4		
	1 '	mph		11.8 / 12.4		
5.2 5.3	Lift speed, laden / unladen Lowering speed, laden / unladen	fpm	114 / 118 78.7 / 82.7	90 / 94		
5.5	Max. Drawbar pull, laden / unladen	fpm lbf	4,946 / 2,923	80.7 / 84.7 5,171 / 3,830		
5.5	Max. Gradient performance, laden / unladen					
5.7	Service brake	%		/ 20 raulic		
			⊓yū	raunc		
Engine 7.1	Model		Kubota W	IG2503-I		
7.1	Engine power rating ISO1585	HP		5.2		
7.2	Rated speed	rpm		00		
7.3	Number of cylinders / displacement	in3	4 /			
7.4	Max. torque	ft-lb/rpm	126 / 1,800			
7.9	Nominal voltage	V	12			
7.10	Battery capacity	V/Ah		80		
	nission	*/Pill	127			
8.1	Transmission type		Hydrod	ynamic		
8.2	Gear forward / backward		1/1			
8.3	Shifting mode			aulic		
Other						
10.1	Operating pressure for attachments	psi	2,6	80		
10.2	Oil volume for attachments	in3/min		)51		
10.4	Fuel tank volume	in3	3,661	4,271		
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# A GLOBAL LEADER

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