

INTERNAL COMBUSTION

A series 2,000 - 3,800 kg Capacity



Why choose between price and quality **WHEN YOU CAN HAVE BOTH!**



HIGHLIGHTS

- ▶ Powerful high quality permanent magnet motor
- ▶ 4-Way proportional hydraulics to carriage
- ▶ On-demand fully hydrostatic power steering (FHPS)
- ▶ Integrated side shift optional
- ▶ 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 optional
- ▶ 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
- ▶ 35A built-in charger (external charger optional)
- ▶ Fast charging 2-3 hours optional

A series

1,500 - 3,800 kg Capacity

The A 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. A permanent magnet motor is used to achieve high performance with low operating and maintenance costs. Greatly increase your work productivity with these quiet, very low maintenance, ultra-smooth, lithium forklifts.

HIGHLIGHTS

- ▶ Powerful Doosan/Kubota engine
- ▶ 4-Way hydraulics to carriage (proportional hydraulics - optional)
- ▶ On-demand fully hydrostatic power steering (FHPS)
- ▶ Integrated side shift optional
- ▶ 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 optional
- ▶ 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 EU Stage V emission regulations for engine exhaust emissions

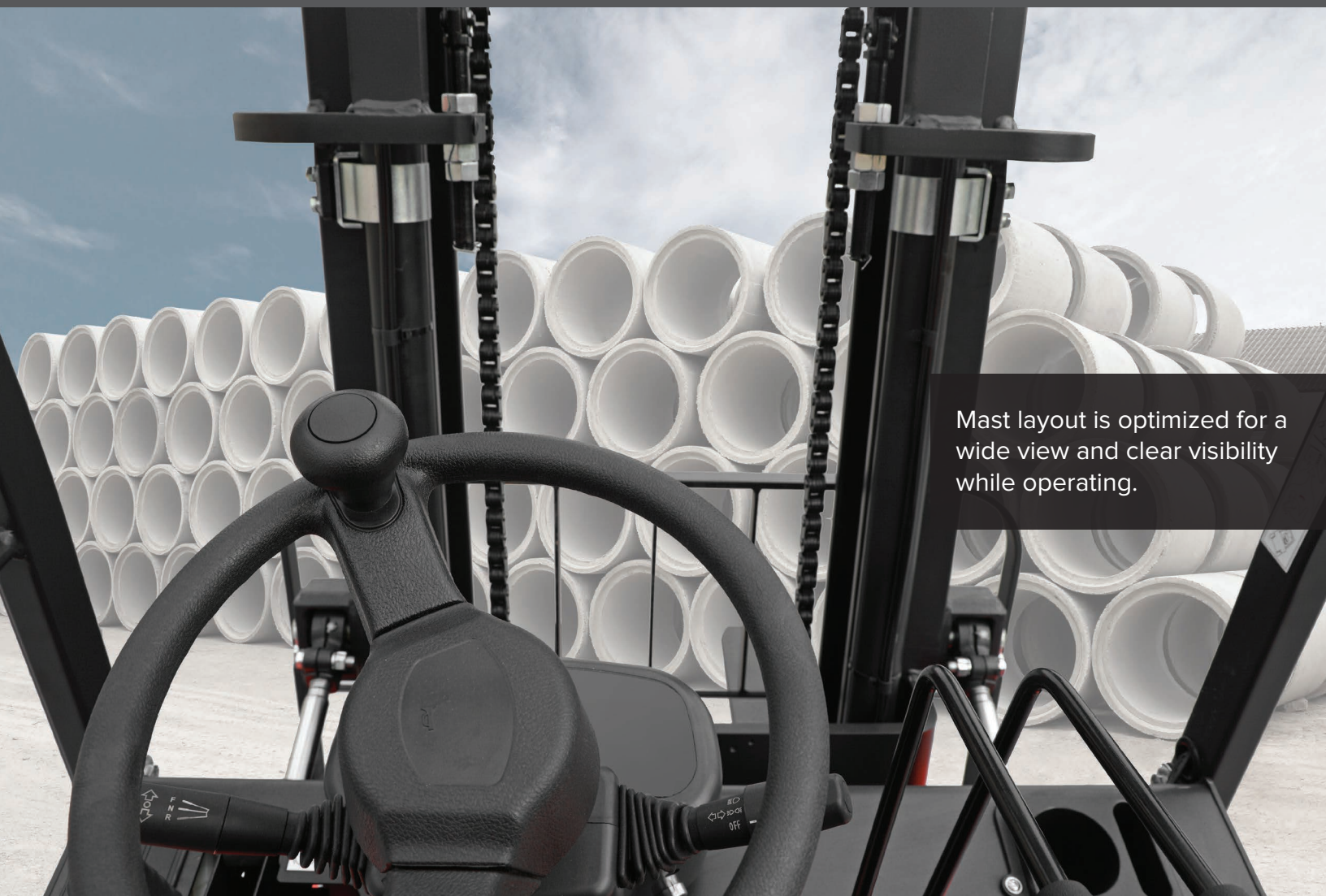


The A Series IC forklift is the same forklift but with a Doosan/ Kubota engine, allowing you to choose the power source that best fits your operation without sacrificing performance, comfort or familiarity. This minimizes spare parts inventory, reducing service and maintenance costs.

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

A series
2,000 - 3,800 kg Capacity

GREAT VISIBILITY. ERGONOMIC.



Mast layout is optimized for a wide view and clear visibility while operating.



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.

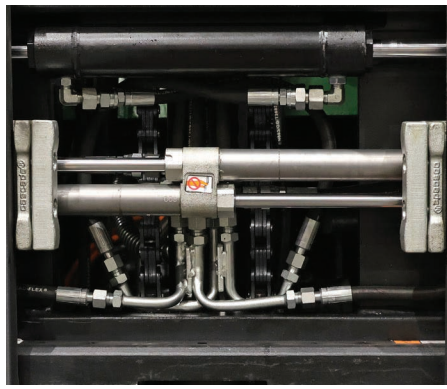


On-Demand Fully Hydrostatic Power Steering (FHPS) guarantees smooth steering, preventing over-run and kick-back. Spinner knob allows easier one-handed steering.

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 19km/h



Gradeability / Full Load



Fast Lifting Speed Up To 420mm/s

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.

B Panoramic rear-view mirror gives the operator a wider rear visibility.

C Frame-mounted LCD display mounted in the operator's line of sight.

D LED signal lights improve safety, last a long time and are very durable.

E LED rear work light provides excellent visibility while backing up.

F LED strobe flashes while operating the vehicle to alert others in the area.

G Blue LED light projects a blue beam onto the floor to warn pedestrians.

H Rear grab bar with horn provides easy horn operation while traveling in reverse.

I 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.



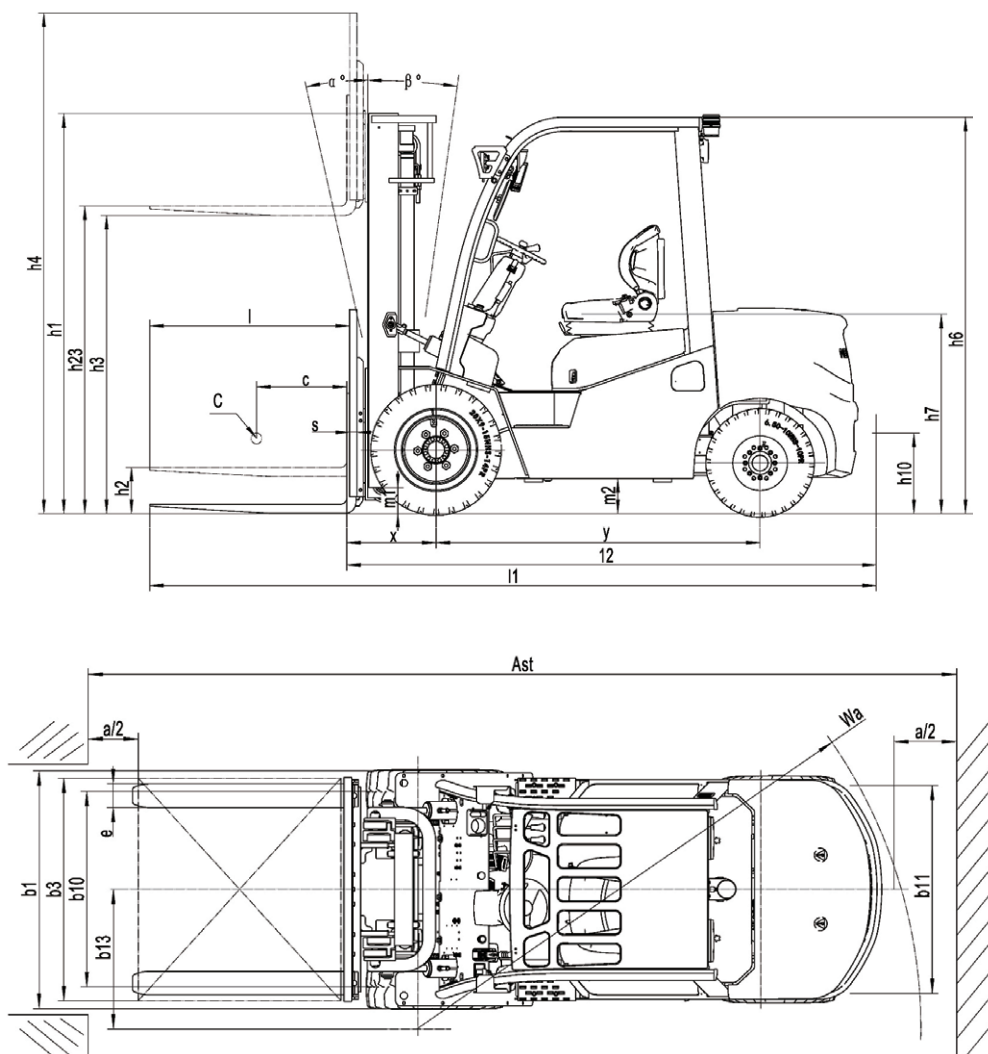
Standard configuration

- | | | | |
|---------------------------------|----------------------------|---------------------------------|----------------------------|
| ■ Load backrest | ■ 2-stage 3m Mast | ■ 1.07-meter hook-mounted forks | ■ Fork descent cushioning |
| ■ Full vehicle LED lighting | ■ Cup holder | ■ Pin code Panel | ■ Rearview mirror |
| ■ Standard with Lithium Battery | ■ Pneumatic Tires (single) | ■ Emergency Power Off Switch | ■ Color Display instrument |
| ■ Two-spool multi-way valve | ■ Overhead guard | ■ Rain cover | ■ Onboard tool kit |

Optional configuration

- | | | | |
|------------------------|---------------------------|--|----------------------------|
| ■ Tilt cylinder cover | ■ Radiator grille | ■ 3rd/4th/5th Function Valve (Multi-way Valve) | ■ Dual Front Tires |
| ■ Solid tires | ■ Fire extinguisher | ■ Big Capacity Lithium Battery | ■ Cabin |
| ■ Non-marking tire | ■ Rear handrail with horn | ■ Electric fan | ■ Welded Metal Roof |
| ■ lowered overhead | ■ Rear working light | ■ Customer-specified Color | ■ Warning light |
| ■ Front wind-shield | ■ Cabin heater | ■ Cabin ac+heater | ■ Semi-enclosed Seat |
| ■ Full suspension seat | ■ External side shifter | ■ Integrated Side Shifter | ■ External Fork Positioner |

Structure diagram



Paramter table				NO.20260209			
Identificat	1.1	Manufacture(abbreviation)		NOBLELIFT	NOBLELIFT	NOBLELIFT	NOBLELIFT
	1.2	Manufacturer's type designation		CPQYD20-A2J1	CPCD20-A2S1	CPYD25-A2J2	CPCD25-A2S1
	1.3	Drive:electric(battery or mains),diesel,petrol gas>manual)		LPG / LPG+Gas	Diesel	LPG / LPG+Gas	Diesel
	1.4	Type of operation(hand,pedestrian,standing,seated,order-picker)		Seated	Seated	Seated	Seated
	1.5	Load capacity/rated load	Q(kg)	2000	2000	2500	2500
	1.6	Load centre distance	C(mm)	600	600	600	600
	1.8	Load distance,centre of drive axle to fork	x(mm)	465	465	465	465
	1.9	wheelbase	y(mm)	1660	1660	1660	1660
Weights	2.1	Service weight incl. battery(see line 6.5)	kg	3500	3500	3800	3800
	2.2	Axle loading ,laden front/rear	kg	4870/630	4870/630	5570/730	5570/730
	2.3	Axle loading,unladen front/rear	kg	1400/2100	1400/2100	1400/2400	1400/2400
Wheels, Chassis	3.1	Type:solid rubber,superelastic,pneumatic,polyurethane		Pneumatic tire	Pneumatic tire	Pneumatic tire	Pneumatic tire
	3.2	Tyres size,front		7.00-12-12PR	7.00-12-12PR	7.00-12-12PR	7.00-12-12PR
	3.3	Tyres size,rear		6.00-9-10PR	6.00-9-10PR	6.00-9-10PR	6.00-9-10PR
	3.5	Wheels,number front/rear(×=driven wheels)		2X/2	2X/2	2X/2	2X/2
	3.6	Track width,front	b10 (mm)	973	973	973	973
	3.7	Track width,rear	b11 (mm)	980	980	980	980
Basic Dimemsions	4.1	Mast/fork carriage tilt forward/backward	α/β(°)	6/12	6/12	6/12	6/12
	4.2	lowered mast height	h1(mm)	1995	1995	1995	1995
	4.3	Free lift	h2(mm)	140	140	140	140
	4.4	Lift height	h3(mm)	3000	3000	3000	3000
	4.4a	Lift height (Including cargo fork)	h23(mm)	3040	3040	3040	3040
	4.5	Extended mast height	h4(mm)	4025	4025	4025	4025
	4.7	Overhead load guardheight	h6(mm)	2130	2130	2130	2130
	4.8	Seat height/standing height	h7(mm)	1030	1030	1030	1030
	4.12	Coupling height	h10(mm)	400	400	400	400
	4.19	Overall length (Including cargo fork)	l1(mm)	3698	3698	3698	3698
	4.20	Overall length	l2(mm)	2628	2628	2628	2628
	4.21	Overall width (Frame/tires)	b1(mm)	1150/1163	1150/1163	1150/1163	1150/1163
	4.22	Fork dimensions	s/e/l(mm)	1070/120/40	1070/120/40	1070/120/40	1070/120/40
	4.23	Fork mounting grade		2A	2A	2A	2A
	4.24	Width of fork rack	b3(mm)	1040	1040	1040	1040
	4.31	Ground clearance ,laden,under mast	m1(mm)	120	120	120	120
	4.32	Ground clearance,centre of wheelbase	m2(mm)	170	170	170	170
	4.34.1	Aisle width for pallets 1000×1200 crossways	Ast(mm)	3935	3935	3935	3935
	4.34.2	Aisle width for pallets 800×1200 lengthways	Ast(mm)	4135	4135	4135	4135
Performance Data	4.35	Turning radius	Wa (mm)	2270	2270	2270	2270
	4.36	Inside turning radius	b13(mm)	615	615	615	615
	5.1	Lift speed,laden/unladen Two stage gantry	km/h	18/18	18/18	18/18	18/18
	5.2	Lift speed,laden/unladen Two stage gantry	mm/s	560/600	560/600	560/600	560/600
	5.3	lowering speed,laden/unladen Two stage gantry	mm/s	400/420	400/420	400/420	400/420
	5.6	Max.Drawbar pull ,laden/unladen mechanical drive	kN	/	/	/	/
	5.6a	Max.Drawbar pull ,laden/unladen hydrodynamic drive	kN	20/13	20/13	20/13	20/13
	5.7	Max.Gradient performance,laden/unladen S2 mechanical drive	%	/	/	/	/
engine	5.7a	Max.Gradient performance,laden/unladen S2 hydrodynamic drive	%	20/20	20/20	20/20	20/20
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic
	7.1	Engine builder		Xinchai Kubota / GCT	Xinchai / Quanchai ISUZU / Doosan Mitsubishi / Cummins	Xinchai Kubota / GCT	Xinchai / Quanchai ISUZU / Doosan Mitsubishi / Cummins
	7.2	Engine power rating ISO1585	kW	41.3	35.3	41.3	35.3
	7.3	Rated speed	rpm	2600	2250	2600	2250
	7.4	Number of cylinders/displacement	cm3	4/2491	4/3331	4/2491	4/3331
	7.5a	Maximum torque	N.m/rpm	171/1800	170/1700	171/1800	170/1700
	7.9	Nominal voltage	V	12	12	12	12
transmission	7.10	Battery capacity	V/Ah	12/80	12/80	12/80	12/80
	8.1	Transmission type		Hydrodynamic	Hydrodynamic	Hydrodynamic	Hydrodynamic
	8.2	Gear forward/backward		1/1	1/1	1/1	1/1
Other Details	8.3	Shifting mode		Hydraulic	Hydraulic	Hydraulic	Hydraulic
	10.1	Type of drive control	Mpa	18.5	18.5	18.5	18.5
	10.2	Oil volume for attachments	L/min	50	50	50	50
	10.4	Fuel tank volume	L	60	60	60	60
	10.8	Traction pin specification DIN 15170		30	30	30	30

Paramter table				NO.20260209					
Identificat	1.1	Manufacture(abbreviation)		NOBLELIFT	NOBLELIFT	NOBLELIFT	NOBLELIFT	NOBLELIFT	NOBLELIFT
	1.2	Manufacturer's type designation		CPYD30-A2J2	CPCD30-A2S1	CPYD35-A2J2	CPCD35-A2S1	CPYD38-A2J2	CPCD38-A2S1
	1.3	Drive:electric(battery or mains),diesel,petrol gas,manual)		LPG	Diesel	LPG	Diesel	LPG	Diesel
	1.4	Type of operation(hand,pedestrian,standing,seated,order-picker)		Seated	Seated	Seated	Seated	Seated	Seated
	1.5	Load capacity/rated load	Q(kg)	3000	3000	3500	3500	3800	3800
	1.6	Load centre distance	C(mm)	600	600	600	600	600	600
	1.8	Load distance,centre of drive axle to fork	x(mm)	480	480	485	485	485	485
	1.9	wheelbase	y(mm)	1760	1760	1760	1760	1760	1760
Weights	2.1	Service weight incl. battery(see line 6.5)	kg	4350	4350	4700	4700	4850	4850
	2.2	Axle loading ,laden front/rear	kg	6550/800	6550/800	7360/840	7360/840	7780/870	7780/870
	2.3	Axle loading,unladen front/rear	kg	1750/ 2600	1750/ 2600	1800/ 2900	1800/ 2900	1750/ 3100	1750/ 3100
Wheels, Chassis	3.1	Type:solid rubber,superelastic,pneumatic,polyurethane		Pneumatic tire	Pneumatic tire	Pneumatic tire	Pneumatic tire	Pneumatic tire	Pneumatic tire
	3.2	Tyres size,front		28x9-15-14PR	28x9-15-14PR	28x9-15-14PR	28x9-15-14PR	28x9-15-14PR	28x9-15-14PR
	3.3	Tyres size,rear		6.50-10-10PR	6.50-10-10PR	6.50-10-10PR	6.50-10-10PR	6.50-10-10PR	6.50-10-10PR
	3.5	Wheels,number front/rear(×=driven wheels)		2X/2	2X/2	2X/2	2X/2	2X/2	2X/2
	3.6	Track width,front	b10 (mm)	1000	1000	1000	1000	1000	1000
	3.7	Track width,rear	b11 (mm)	980	980	980	980	980	980
Basic Dimemsions	4.1	Mast/fork carriage tilt forward/backward	α/β(°)	6/12	6/12	6/12	6/12	6/12	6/12
	4.2	lowered mast height	h1(mm)	2055	2055	2170	2170	2170	2170
	4.3	Free lift	h2(mm)	145	145	150	150	150	150
	4.4	Lift height	h3(mm)	3000	3000	3000	3000	3000	3000
	4.4a	Lift height (Including cargo fork)	h23(mm)	3045	3045	3050	3050	3050	3050
	4.5	Extended mast height	h4(mm)	4105	4105	4105	4105	4105	4105
	4.7	Overhead load guardheight	h6(mm)	2150	2150	2150	2150	2150	2150
	4.8	Seat height/standing height	h7(mm)	1050	1050	1050	1050	1050	1050
	4.12	Coupling height	h10(mm)	420	420	420	420	420	420
	4.19	Overall length (Including cargo fork)	l1(mm)	3840	3840	3905	3905	3945	3945
	4.20	Overall length	l2(mm)	2270	2270	2835	2835	2875	2875
	4.21	Overall width (Frame/tires)	b1(mm)	1195/1228	1195/1228	1195/1228	1195/1228	1195/1228	1195/1228
	4.22	Fork dimensions	s/e/l(mm)	1070/122/45	1070/122/45	1070/122/50	1070/122/50	1070/122/50	1070/122/50
	4.23	Fork mounting grade		3A	3A	3A	3A	3A	3A
	4.24	Width of fork rack	b3(mm)	1100	1100	1100	1100	1100	1100
	4.31	Ground clearance ,laden,under mast	m1(mm)	140	140	140	140	140	140
	4.32	Ground clearance,centre of wheelbase	m2(mm)	190	190	190	190	190	190
	4.34.1	Aisle width for pallets 1000×1200 crossways	Ast(mm)	4130	4130	4195	4195	4225	4225
	4.34.2	Aisle width for pallets 800×1200 lengthways	Ast(mm)	4330	4330	4395	4395	4425	4425
	4.35	Turning radius	Wa (mm)	2450	2450	2510	2510	2540	2540
	4.36	Inside turning radius	b13(mm)	715	715	715	715	715	715
Performance Data	5.1	Lift speed,laden/unladen Two stage gantry	km/h	19/20	19/20	19/20	19/20	19/20	19/20
	5.2	Lift speed,laden/unladen Two stage gantry	mm/s	460/480	460/480	380/410	380/410	380/410	380/410
	5.3	lowering speed,laden/unladen Two stage gantry	mm/s	410/430	410/430	410/430	410/430	410/430	410/430
	5.6	Max.Drawbar pull ,laden/unladen mechanical drive	kN	/	/	/	/	/	/
	5.6a	Max.Drawbar pull ,laden/unladen hydrodynamic drive	kN	23/17	23/17	23/17	23/17	23/17	23/17
	5.7	Max.Gradient performance,laden/unladen S2 mechanical drive	%	/	/	/	/		/
	5.7a	Max.Gradient performance,laden/unladen S2 hydrodynamic drive	%	25/20	25/20	25/20	25/20	23/20	23/20
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
engine	7.1	Engine builder		Xinchai Kubota / GCT	Xinchai / Cummins Quanchai / Doosan Mitsubishi / ISUZU	Xinchai Kubota / GCT	Xinchai / Cummins Quanchai / Doosan Mitsubishi / ISUZU	Xinchai Kubota / GCT	Xinchai / Cummins Quanchai / Doosan Mitsubishi / ISUZU
	7.2	Engine power rating ISO1585	kW	41.3	35.3	41.3	35.3	41.3	41.3
	7.3	Rated speed	rpm	2600	2250	2600	2250	2600	2600
	7.4	Number of cylinders/displacement	cm3	4/2491	4/3331	4/2491	4/3331	4/2491	4/3331
	7.5a	Maximum torque	N.m/rpm	171/1800	170/1700	171/1800	170/1700	171/1800	170/1700
	7.9	Nominal voltage	V	12	12	12	12	12	12
	7.10	Battery capacity	V/Ah	12/80	12/80	12/80	12/80	12/80	12/80
transmission	8.1	Transmission type		Hydrodynamic	Hydrodynamic	Hydrodynamic	Hydrodynamic	Hydrodynamic	Hydrodynamic
	8.2	Gear forward/backward		1/1	1/1	1/1	1/1	1/1	1/1
	8.3	Shifting mode		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Other Details	10.1	Type of drive control	Mpa	18.5	18.5	18.5	18.5	18.5	18.5
	10.2	Oil volume for attachments	L/min	50	50	50	50	50	50
	10.4	Fuel tank volume	L	70	70	70	70	70	70
	10.8	Traction pin specification DIN 15170		30	30	30	30	30	30

A SERIES - HIGH EFFICIENCY AND PERFORMANCE

High Power Engine

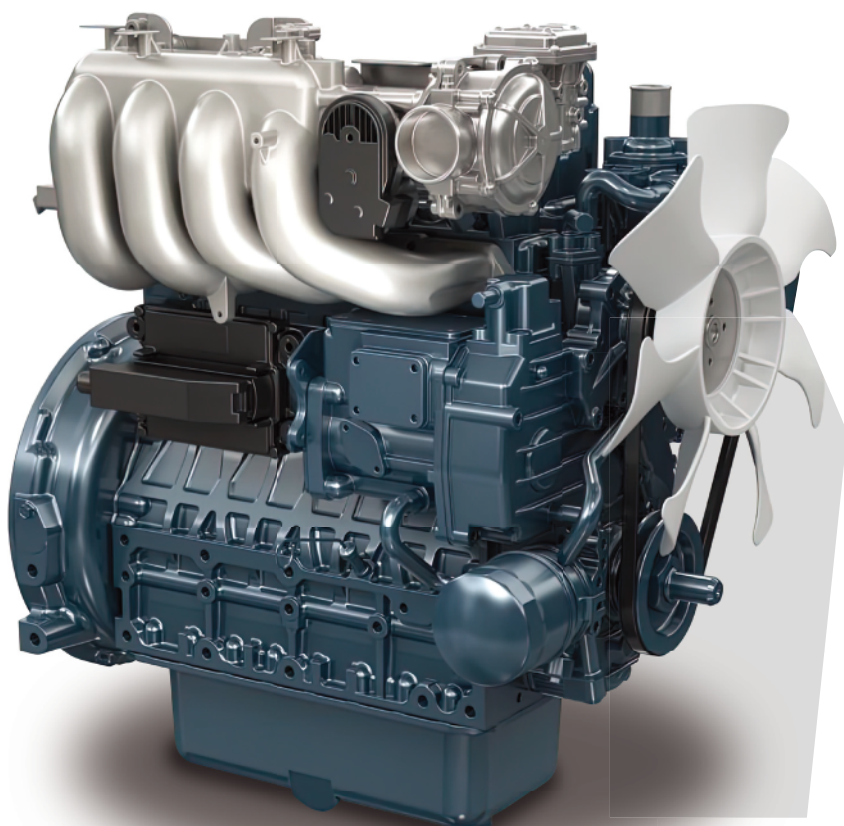
High performance, durability and excellent fuel efficiency.

Engine Configuration to Optional

Diesel

XINCHAI 3E22YG51 (Euro V)

HYUNDAI DN02 (Euro V)



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

