



KOMAC
Technology with Passion

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Forklift

Internal Combustion Counterbalanced Forklift Truck

KOMAC

www.komac.co.kr



Small steering wheel

Ergonomically designed tilt angle adjustable small diameter steering wheel (φ300) with good feel and reduced operator fatigue intensity.



Intelligentize

According to the advanced ergonomic design, integrated control valve type operating handle, electrical switches centralized layout, fast and convenient manipulation.



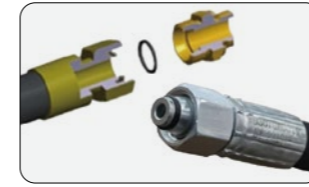
Stamped hood

Adopting pressed hood, the whole vehicle is more solid and reliable.



Central Electric Box

Electrical wiring integrated design, fuses and relays centralized in the electrical box. Spare fuse is inside the hood, with waterproof and dustproof effect, reliable plugging and convenient maintenance.



Hydraulic system

Hydraulic system for engineering vehicle level, the whole vehicle hydraulic pipeline is 24° cone seal. Hydraulic cylinder and oil circuit optimization design, cargo lifting speed increased by 15%, more powerful overload capacity



Ultra high technology

The coating of the overhead guard frame adopts electrophoresis process, robot welding, solid welding seam, the whole machine is more stable and reliable.



Body Appearance

Ensign red appearance design, sheet metal mold once formed, the lines are not only smooth and beautiful, better anticollision and anti-deformation performance. Surface pickling phosphating rust removal, baking paint process, anti-corrosion, rust, anti-oxidation effect, the later higher value retention.



Two-stage air purification

Iron air filter and intake high independent channel two-stage air purification design makes the diesel fuel burn more fully and extends the engine life.

Safe Reliable Energy-saving Efficient

2-4T K-Series

04%

Hydraulic system energy saving

10%

Reduced fuel consumption

15%

Increased viewing range of new mast

75%

Increased brake life

30%

NVH optimization, noise reduction 2DB, vibration reduction

25%

accelerator pedal down

80%

LED lighting energy saving

10%

Increased maintenance space

Internal Combustion Counterbalanced Forklift Truck



Isuzu / Mitsubishi engine

Selected Isuzu Mitsubishi high-pressure common rail engine, strong power, guaranteed quality, cleaner emissions, more efficient fuel.



Side roller wheel

The side roller is above the main roller. When the shelf is raised to a higher position, the left-right shaking amplitude is greatly reduced, which improves the stability of high position operation and reduces the bearing failure rate.



Digital dashboard

Using digital stepping in instrument panel and CAN bus communication technology, display more intuitive, high man-machine interaction, real-time monitoring of the state of the machine.



High visibility mast

The door frame is widened to make the driver's vision more open. The door frame using CJ steel, which is durable and safe for driving

20-40 Internal Combustion Counterbalanced Forklift

BASIC TECHNICAL SPECIFICATIONS

Model		KD/KK20	KD/KK25	KD/KK30	KD/KK35	KD/KK38	KD/KK40	KD/KK50
Power type		diesel/electric	diesel/electric	diesel/electric	diesel/electric	diesel/electric	diesel/electric	diesel/electric
Lift capacity	(kg)	2000	2500	3000	3500	3800	4000	5000
Load center distance	(mm)	500	500	500	500	500	500	500
Battery (Voltage/Capacity)	(V/Ah)	12/80	12/80	12/80	12/80	12/80	12/80	12/120

PERFORMANCE SPECIFICATIONS

			KD/KK20	KD/KK25	KD/KK30	KD/KK35	KD/KK38	KD/KK40	KD/KK50
Max. lift height	H	(mm)	3000	3000	3000	3000	3000	3000	3000
Free lift height	H5	(mm)	130	130	130	130	130	130	160
Mast tilt angle (front/rear)	(α/β)	(°)	6/12	6/12	6/12	6/12	6/12	6/12	6/12
Max. lift speed (full load/no load)		(mm/s)	560/600	560/600	480/510	480/510	420/440	420/440	420/460
Max. lowering speed (full load/no load)		(mm/s)	450/500	450/500	500/450	500/450	330/310	330/310	430/350
Max. travelling speed (full load/no load)		(km/h)	17/19	17/19	18.5/19	18.5/19	18.5/19	19/19.5	18.5/19
Min. turning radius		(mm)	2290	2290	2560	2560	2730	2730	2930
Gradeability (full load/no load)		(%)	15/20	15/20	15/20	15/20	15/20	15/20	20/21
Max. traction force		(KN)	16	16.5	19.5	19.5	23	25	29
Overweight		(kg)	3400	3700	4300	4650	4850	5000	6700

DIMENSIONS

			KD/KK20	KD/KK25	KD/KK30	KD/KK35	KD/KK38	KD/KK40	KD/KK50
Length(without fork)		(mm)	2520	2520	2810	2860	2960	2960	3220
Width	W	(mm)	1170	1170	1230	1230	1230	1230	1500
Height of mast	H1	(mm)	2000	2000	2125	2130	2125	2130	2275
Overall height (overhead guard)	H3	(mm)	2145	2145	2130	2130	2130	2130	2280
Height of load-backrest	H6	(mm)	965	965	1225	1225	1225	1225	1280
Overall height at max. lift	H2	(mm)	4035	4035	4230	4230	4230	4230	4230
Min. ground clearance		(mm)	110	110	130	130	130	140	169
Wheel base	L	(mm)	1650	1650	1750	1800	1900	1900	2100
Front wheel tread	W1	(mm)	970	970	1000	1000	1000	1000	1195
Rear wheel tread	W2	(mm)	980	980	970	970	970	970	1195
Front overhang	L2	(mm)	462	462	480	480	480	480	560
Rear overhang	L3	(mm)	408	408	580	580	580	580	560

OTHER SPECIFICATIONS

Front tires		7.00-12-12PR	7.00-12-12PR	28x9-15-14PR	28x9-15-14PR	28x9-15-14PR	250-15-16PR	300-15-18PR
Rear tires		6.00-9-10PR	6.00-9-10PR	6.50-10-10PR	6.50-10-10PR	6.50-10-10PR	6.50-10-10PR	7.00-12-12PR
Fork size (L*W*H)		1070x125x40	1070x125x40	1220x122x45	1220x122x50	1220x122x50	1220x122x50	1070*150*50

ENGINES

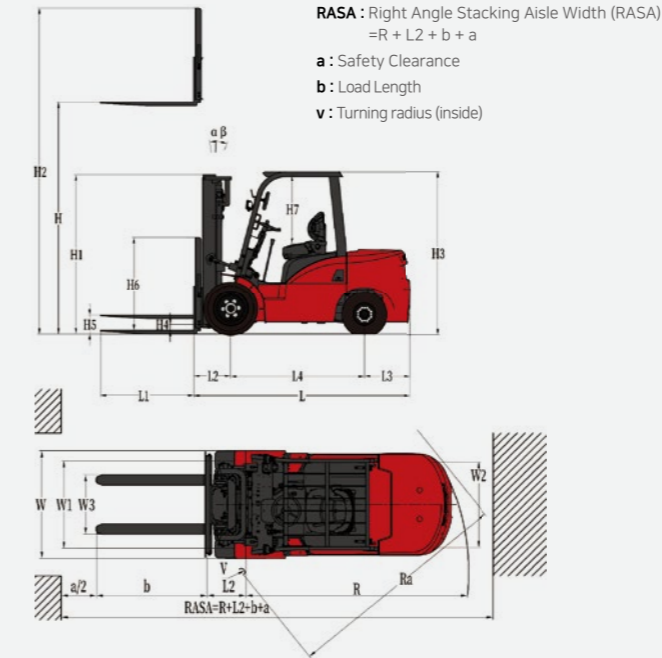
Engine model		ISUZU C240	MITSUBISHI S4S
Rated power	b (kW/r)	34.6/2500	335.3/2250
Rated torque	b (N.m/r)	139.2/1800	1177/1700
Number of cylinders		4	4
Displacement	(L)	2.369	3.331

Due to the continuous updating and improvement of Ensign Heavy Industry products, we reserve the right to change the parameters and design without prior notice. The product configuration and appearance color in the

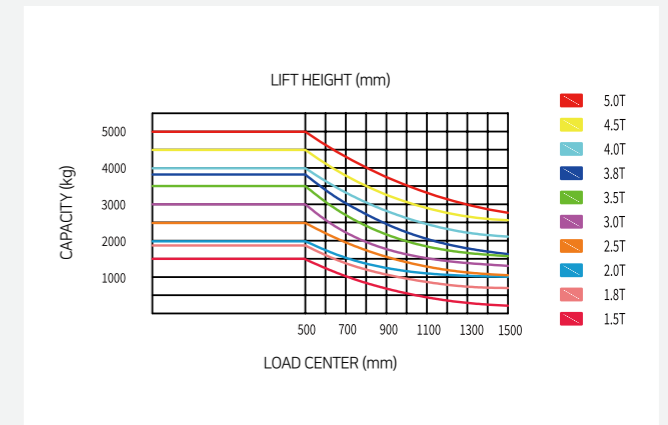
BATTERY

Model Range	80V125AH	80V150AH	80V202AH	80V280AH	80V346AH	80V404AH	80V460AH
Capacity (kWh)	10.0 kWh	12.0	16.16 kWh	22.4 kWh	27.68 kWh	32.32 kWh	36.8 kWh
Weight (kg)	150	180	200	240	270	300	330
Manufacturer (L*W*H)	806*510*478	806*510*478	806*510*478	806*510*478	806*515*647	806*515*647	806*515*647
Warranty	Anhui heding Electromechanical Equipment Co., Ltd 5 years						

CONTOUR



Load Curve



Note

The vertical axis represents the load capacity, and the horizontal axis represents the load center. The load center is calculated from the front of the fork, and the base point of the standard load refers to the center of a cube with a side length of 1000 mm. When the mast is tilted forward, using non-standard forks or loading a load that exceeds the normal width, the load capacity will be reduced. The load curve diagram provides a timely understanding of the load carrying capacity at various load centers.

Standard Configuration

- Awning
- Basic hand tool
- Lift oil speed limit valve
- Cable handbrake
- Pneumatic tire
- Standard overhead guard
- Hydraulic oil scale
- Charge relief valve
- Two-piece multiway valve
- Warning buzzer
- Commode handle
- Wide view duplex mast
- Standard seat
- USB charging connection
- Full Hydraulic Power Steering
- Klaxon
- Standard load-backrest
- LED combination headlights
- Rearview mirror
- Anti-slip boarding pedal
- Tilt oil line self-locking valve
- Joystick
- LED split rear taillight
- Multi-function control instrument
- Standard fork
- Steering wheel adjustable device

Optional Configuration

- Spring-seat chair
- Overhead guard
- Custom Colors
- Fire extinguisher
- Three / four pieces multitandem valve
- Dual air filter
- Panoramic rear view mirror
- LED Rear task light
- Solid tire
- Front windshield (windscreen wiper)
- Driving cab
- High exhaust device
- Tool cabinet

Attachments of FT

- Side shifter
- Roll Clamp
- Rotary holding clamp
- Rotary fork clamp
- Cration Clamp
- Fork Positioner
- Push-puller
- Tilting shifter
- Load stabilizer
- Fork crown cover
- Barrel grab
- Bale Clamp
- Side-shifter
- Cargo boom
- Cargo boom
- Spinner



2-4t Wide View Duplex Mast

Max. lift height	Overall height at max. lift																	
	Landing height of mast						Overall height at max. lift											
							with load-backrest						Overall height at max. lift					
2t	2.5t	3t	3.5t	3.8t	4t	2t	2.5t	3t	3.5t	3.8t	4t	2t	2.5t	3t	3.5t	3.8t	4t	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
2000	1530	1530	1570	1625	1625	1625	3035	3035	3175	3175	3180	3180	2620	2620	2715	2715	2720	2720
2500	1780	1780	1820	1875	1875	1875	3535	3535	3675	3675	3680	3680	3120	3120	3215	3215	3220	3220
2700	1880	1880	1920	1975	1975	1975	3735	3735	3875	3875	3880	3880	3320	3320	3415	3415	3420	3420
3000	2030	2030	2070	2125	2125	2125	4035	4035	4175	4175	4180	4180	3620	3620	3715	3715	3720	3720
3300	2180	2180	2220	2275	2275	2275	4335	4335	4475	4475	4480	4480	3920	3920	4015	4015	4020	4020
3500	2280	2280	2320	2375	2375	2375	4535	4535	4675	4675	4680	4680	4120	4120	4215	4215	4220	4220
3800	2380	2380	2470	2525	2525	2525	4735	4735	4975	4975	4980	4980	4320	4320	4515	4515	4520	4520
4000	2580	2580	2620	2675	2675	2675	5135	5135	5175	5175	5180	5180	4720	4720	4715	4715	4720	4720
4250	2705	2705	2745	2800	2800	2800	5385	5385	5425	5425	5430	5430	4970	4970	4965	4965	4970	4970
4500	2830	2830	2870	2925	2925	2925	5635	5635	5675	5675	5680	5680	5220	5220	5215	5215	5220	5220
4750	2955	2955	2995	3050	3050	3050	5885	5885	5925	5925	5930	5930	5470	5470	5465	5465	5470	5470
5000	3080	3080	3120	3175	3175	3175	6135	6135	6175	6175	6180	6180	5720	5720	5715	5715	5720	5720
5500	3380	3380	3420	3475	3475	3475	6735	6735	6675	6675	6680	6680	6320	6320	6215	6215	6220	6220
6000	3630	3630	3670	3725	3725	3725	7235	7235	7175	7175	7180	7180	6820	6820	6715	6715	6720	6720

Note:Ⓢ The lifting weight is reduced by 100KG when equipped with built-in side shifter, and 200KG when equipped with external side shifter; Ⓣ Be matched with 7.5m and 8m mast.

2-4t Wide View Full Free Duplex Mast

Max. lift height	Overall height at max. lift																	
	Landing height of mast						Overall height at max. lift											
							with load-backrest						Overall height at max. lift					
2t	2.5t	3t	3.5t	3.8t	4t	2t	2.5t	3t	3.5t	3.8t	4t	2t	2.5t	3t	3.5t	3.8t	4t	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
2000	1530	1530	1605	1605	/	/	2985	2985	3260	3257.5	/	/	2570	2570	2670	2672	/	/
2500	1780	1780	1855	1855	1990	1990	3485	3485	3760	3757.5	3655	3655	3070	3070	3170	3172	3355	3355
2700	1880	1880	1955	1955	2090	2090	3685	3685	3960	3957.5	3855	3855	3270	3270	3370	3372	3555	3555
3000	2030	2030	2105	2105	2190	2190	3985	3985	4260	4257.5	4145	4145	3570	3570	3670	3672	3845	3845
3300	2180	2180	2255	2255	2390	2390	4285	4285	4560	4557.5	4455	4455	3870	3870	3970	3972	4155	4155
3500	2280	2280	2355	2355	2550	2550	4485	4485	4760	4757.5	4755	4755	4070	4070	4170	4172	4455	4455
3700	2380	2380	2455	2455	/	/	4685	4685	4960	4957.5	/	/	4270	4270	4370	4372	/	/
3750	2405	2405	2555	2555	/	/	4735	4735	5010	5007.5	/	/	4320	4320	4420	4422	/	/
4000	2480	2480	2655	2655	2750	2750	4985	4985	5250	5253.5	5155	5155	4570	4570	4670	4668	4855	4855

Note:Ⓢ The lifting weight is reduced by 100KG when equipped with built-in side shifter, and 200KG when equipped with external side shifter; Ⓣ Be matched with 7.5m and 8m mast.

2-4t Wide View Duplex Mast

Max. lift height	Overall height at max. lift																	
	Landing height of mast						Overall height at max. lift											
							with load-backrest						Overall height at max. lift					
2t	2.5t	3t	3.5t	3.8t	4t	2t	2.5t	3t	3.5t	3.8t	4t	2t	2.5t	3t	3.5t	3.8t	4t	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
3600	4415	4415	1870	1870	1850	1850	4710	4710	4775	4774	4770	4770	4320	4320	4190	4188.5	4185	4185
4000	4735	4735	1995	1995	1975	1975	5030	5030	5175	5174	5170	5170	4640	4640	4590	4588.5	4585	4585
4350	5085	5085	2120	2120	2100	2100	5380	5380	5525	5524	5520	5520	4990	4990	4940	4938.5	4935	4935
4500	5235	5235	2170	2170	2150	2150	5530	5530	5675	5674	5670	5670	5140	5140	5090	5088.5	5085	5085
4700	5430	5430	2240	2240	2215	2215	5725	5725	5875	5874	5870	5870	5335	5335	5290	5288.5	5285	5285
4800	5535	5535	2270	2270	2250	2250	5830	5830	5975	5974	5970	5970	5440	5440	5390	5388.5	5385	5385
5000	5735	5735	2420	2420	2350	2350	6030	6030	6175	6174	6170	6170	5640	5640	5590	5588.5	5585	5585
5400	6135	6135	2570	2570	2475	2475	6430	6430	6575	6574	6571	6570	6040	6040	5990	5988.5	5985	5990
5500	6235	6235	2770	2770	2700	2700	6530	6530	7175	7174	7170	7170	6140	6140	6590	6588.5	6585	6585
6000	6735	6735	2920	2920	2865	2865	7030	7030	7675	7674	7670	7670	6640	6640	7090	7088.5	7085	7085
6500	7235	7235	3080	3080	3035	3035	7530	7530	8170	8170	8170	8170	7140	7140	7585	7584.5	7585	7590

Note:Ⓢ The lifting weight is reduced by 100KG when equipped with built-in side shifter, and 200KG when equipped with external side shifter; Ⓣ Be matched with 7.5m and 8m mast.

Free lift height														Front overhang			mast tilt angle			Rated load (single wheel)					
with load-backrest						Free lift height																			
2t	2.5t	3t	3.5t	3.8t	4t	2t	2.5t	3t	3.5t	3.8t	4t	2/2.5t	3/3.5t	3.8/4t	front/Back	load center distance 500mm									
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	(°)	(°)	(°)	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)		
135	135	130	130	130	130	135	135	130	130	130	130	455	480	490	6°/10°	6°/12°	6°/12°	2000	2500	3000	3500	3800	3800		
135	135	130	130	130	130	135	135	130	130	130	130	455	480	490	6°/10°	6°/12°	6°/12°	2000	2500	3000	3500	3800	3800		
135	135	130	130	130	130	135	135	130	130	130	130	455	480	490	6°/10°	6°/12°	6°/12°	2000	2500	3000	3500	3800	3800		
135	135	130	130	130	130	135	135	130	130	130	130	455	480	490	6°/10°	6°/12°	6°/12°	2000	2500	3000	3500	3800	3800		
135	135	130	130	130	130	135	135	130	130	130	130	455	480	490	6°/10°	6°/12°	6°/12°	2000	2500	3000	3500	3800	3800		
135	135	130	130	130	130	135	135	130	130	130	130	455	480	490	6°/10°	6°/12°	6°/12°	2000	2500	3000	3500	3800	3800		
135	135	130	130	130	130	135	135	130	130	130	130	455	480	490	6°/10°	6°/12°	6°/12°	2000	2500	3000	3500	3800	3800		
135	135	130	130	130	130	135	135	130	130	130	130	455	480	490	6°/10°	6°/12°	6°/12°	2000	2500	3000	3500	3800	3800		
135	135	130	130	130	130	135	135	130	130	130	130	455	480	490	6°/10°	6°/12°	6°/12°	2000	2500	3000	3500	3800	3800		
135	135	130	130	130	130	135	135	130	130	130	130	455	480	490	6°/10°	6°/12°	6°/12°	2000	2500	3000	3500	3800	3800		
135	135	130	130	130	130	135	135	130	130	130	130	455	480	490	6°/10°	6°/12°	6°/12°	2000	2500	3000	3500	3800	3800		
135	135	130	130	130	130	135	135	130	130	130	130	455	480	490	6°/10°	6°/12°	6°/12°	2000	2500	3000	3500	3800	3800		
135	135	130	130	130	130	135	135	130	130	130	130	455	480	490	6°/10°	6°/12°	6°/12°	2000	2500	3000	3500	3800	3800		
135	135	130	130	130	130	135	135	130	130	130	130	455	480	490	6°/10°	6°/12°	6°/12°	2000	2500	3000	3500	3800	3800		
135	135	130	130	130	130	135	135	130	130	130	130	455	480	490	6°/10°	6°/12°	6°/12°	2000	2500	3000	3500	3800	3800		
135	135	130	130	130	130	135	135	130	130	130	130	455	480	490	6°/10°	6°/12°	6°/12°	2000	2500	3000	3500	3800	3800		
135	135	130	130	130	130	135	135	130	130	130	130	455	480	490	6°/10°	6°/12°	6°/12°	2000	2500	3000	3500	3800	3800		
135	135	130	130	130																					



Reinforced wide view mast

The widened design of the mast makes the driver's vision wider. The mast is made of CJ steel, with solid structure, high bearing strength, and safe and reliable operation.



Intelligentize

According to the advanced ergonomic design, integrated control valve type operating handle, electrical switches centralized layout, fast and convenient manipulation.



Stamped hood

Adopting pressed hood, the whole vehicle is more solid and reliable.



Small steering wheel

The small diameter steering wheel can be adjusted according to the angle of inclination designed by ergonomics(φ 300), good hand feel, and reduces the fatigue strength of the operator.



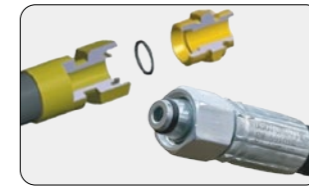
Digital instrument cluster

The digital stepping dashboard and CAN bus communication technology are adopted to make the display more intuitive, with high human-computer interaction, real-time monitoring of the whole machine status.



High strength cast steel bridge+wide base tire

The axle housing is made of cast steel, with a more solid structure and stronger bearing capacity. Front double wheels are equipped as standard, with wider section and more stable operation.



Load sensing hydraulic system

Iron air filter and intake high independent channel two-stage air purification design makes the diesel fuel burn more fully and extends the engine life.



Central electrical box

Integrated design of electrical circuit, fuses and relays are concentrated in the electrical box, and there are backup fuses; Located inside the hood, it is waterproof and dust-proof, with reliable connection and convenient maintenance.

Safe Reliable Energy-saving Efficient

5-12T K-Series

04%

Hydraulic system energy saving

10%

Reduced fuel consumption

15%

Increased viewing range of new mast

75%

Increased brake life

30%

NVH optimization, noise reduction 2DB, vibration reduction

25%

accelerator pedal down

80%

LED lighting energy saving

10%

Increased maintenance space

Internal Combustion Counterbalanced Forklift Truck



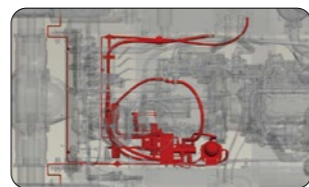
Common rail supercharged intercooled engine+split radiator

85KW high-power engine is selected, with strong power and guaranteed quality. Large diameter fan+large wave distance radiator, with higher heat dissipation efficiency.



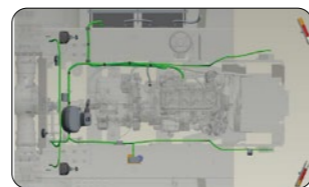
Duplex air purification

Duplex air purification design of iron air filter+independent high intake channel makes diesel fuel burn more fully and extends engine life.



Full hydraulic braking system

Full hydraulic power-assisted braking system with strong braking capacity; High capacity bladder accumulator with excellent performance is selected to ensure high reliability of emergency braking.



Electrical System H-Layout

The harness layout is neat and beautiful, and the maintenance is convenient; The vehicle body at both sides of the electrical parts is fixed and balanced firmly; The harness is shorter, without unnecessary bending, and the conductivity is higher.



H-type layout of electrical system

Wiring harness layout neat and beautiful, convenient maintenance; Electrical parts on both sides of the car body fixed, balanced and firm; wiring harness becomes shorter, no excess bending, higher conductivity.



High efficiency hydraulic transmission

With large capacity torque converter, the bearing torque is larger, the internal reinforced design of the gearbox has stronger bearing capacity, higher transmission efficiency, improved operation efficiency and longer service life.

50-120 Internal Combustion Counterbalanced Forklift

BASIC TECHNICAL SPECIFICATIONS

Model		KD50	KD60	KD/KK70	KD/KK80	KD/KK100	KD120
Power type		diesel	diesel	diesel/electric	diesel/electric	diesel/electric	diesel
Lift capacity	(kg)	5000	6000	7000	8000	10000	12000
Load center distance	(mm)	500	600	600	600	600	600
Battery (Voltage/Capacity)	(V/Ah)	12/120	24/100	24/100	24/100	24/100	24/100

PERFORMANCE SPECIFICATIONS

Parameter	Unit	KD50	KD60	KD/KK70	KD/KK80	KD/KK100	KD120
Max. lift height	H (mm)	3000	3000	3000	3000	3000	3000
Free lift height	H5 (mm)	160	190	195	195	195	195
Mast tilt angle (front/rear)	α/β (°)	6/12	6/12	6/12	6/12	6/12	6/12
Max. lift speed (full load/no load)	(mm/s)	420/460	500/520	500/520	442/484	350/390	350/390
Max. lowering speed (full load/no load)	(mm/s)	430/350	360/400	360/400	400/360	370/350	370/350
Max. travelling speed (full load/no load)	(km/h)	18.5/19	25/30	25/30	25/30	25/30	23/28
Min. turning radius	r (mm)	2930	3320	3400	3700	4100	4300
Gradeability (full load/no load)	(%)	20/21	20/25	20/25	20/25	20/25	20/25
Max. traction force	(kN)	29	70	70	70	70	70
Overweight	(kg)	6700	8800	9550	9900	12900	14000

DIMENSIONS

Parameter	Unit	KD50	KD60	KD/KK70	KD/KK80	KD/KK100	KD120
Length (without fork)	(mm)	3220	3480	3580	3830	4340	4540
Width	W (mm)	1500	2000	2000	2000	2200	2200
Height of mast	H1 (mm)	2275	2500	2500	2560	2850	2850
Overall height (overhead guard)	H3 (mm)	2280	2450	2450	2510	2560	2560
Height of load-backrest	H6 (mm)	1280	1440	1440	1500	/	/
Overall height at max. lift	H2 (mm)	4230	4430	4430	4490	4325	4325
Min. ground clearance	(mm)	169	200	200	260	250	250
Wheel base	L (mm)	2100	2250	2250	2500	2800	3000
Front wheel tread	W1 (mm)	1195	1470	1470	1470	1600	1600
Rear wheel tread	W2 (mm)	1195	1710	1710	1710	1725	1725
Front overhang	L2 (mm)	560	590	590	650	740	740
Rear overhang	L3 (mm)	560	640	740	740	800	800

OTHER SPECIFICATIONS

Parameter	Unit	KD50	KD60	KD/KK70	KD/KK80	KD/KK100	KD120
Front tires		300-15-18PR	8.25-15-14PR	8.25-15-14PR	8.25-20-14PR	9.00-20-14PR	9.00-20-14PR
Rear tires		7.00-12-12PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	9.00-20-14PR	9.00-20-14PR
Fork size(L*W*H)	b (mm)	1070*150*50	1220*150*60	1220*150*65	1220*150*70	1220*180*75	1520*180*100

ENGINES

Engine model		mitsubishi S4S	mitsubishi S6S	mitsubishi S6S-T	isuzu 6BG1QC-02
Rated power	(kw/rpm)	335.3/2250	52/2300	65.5/2250	82.4/2000
Rated torque	(N.m/rpm)	1177/1700	248/1700	303/1700	416.8/2000
Number of cylinders		4	4	-	-
Displacement	(L)	3.331	4.996	4.966	6.494

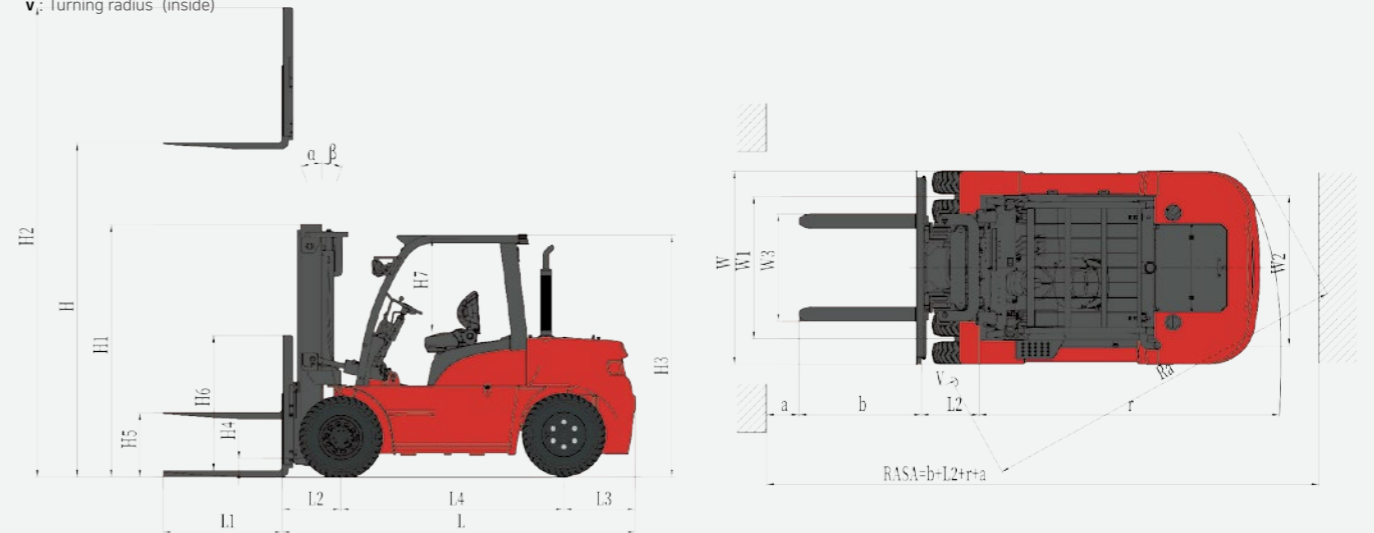
Due to the continuous updating and improvement of Ensign Heavy Industry products, we reserve the right to change the parameters and design without prior notice. The product configuration and appearance color in the photos may be different from the actual model, please refer to the actual product.

BATTERY

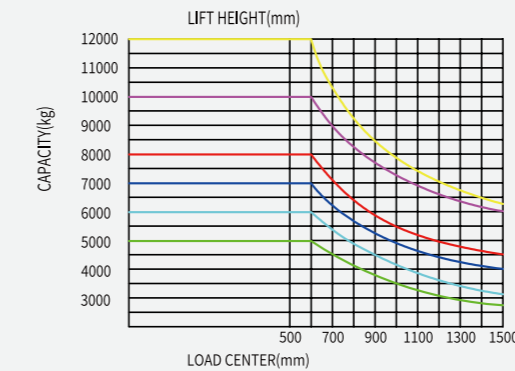
Model Range	80V500AH	80V620AH	326V150AH	326V202AH
Capacity (kWh)	40.0 kWh	49.6 kWh	48.9 kWh	65.85 kWh
Weight (kg)	400	530	615	740
Manufacturer (L*W*H)	860*545*650 860*545*750 960*810*925 960*810*925			
Warranty	Anhui heding Electromechanical Equipment Co., Ltd 5 years			

CONTOUR

RASA : Right Angle Stacking Aisle Width (RASA)= R + L2 + b + a
 a : Safety Clearance
 b : Load Length
 v : Turning radius (inside)



Load Curve



Note: The vertical axis represents the load capacity, and the horizontal axis represents the load center. The load center is calculated from the front of the fork, and the base point of the standard load refers to the center of a cube with a side length of 1000 mm. When the mast is tilted forward, using non-standard forks or loading a load that exceeds the normal width, the load capacity will be reduced. The load curve diagram provides a timely understanding of the load carrying capacity at various load centers.

Standard Configuration

- Full Hydraulic Power Steering
- Basic hand tool
- Lift oil speed limit valve
- wide view duplex mast
- standard load-backrest
- Standard fork
- Cable handbrake
- Standard overhead guard
- Pneumatic tire
- Commode handle
- Standard seat
- Anti-slip boarding pedal
- LED split rear taillight
- Two-piece multiway valve
- Charge relief valve
- Joystick
- Hydraulic oil scale
- Tilt oil line self-locking valve
- Warning buzzer
- Klaxon
- earview mirror
- Awning
- Steering wheel adjustable device
- LED combination headlights
- USB charging connection
- Multi-function control instrument

Optional Configuration

- Spring-seat chair
- Panoramic rear view mirror
- Fire extinguisher
- Driving cab
- Custom Colors
- Overhead guard
- Dual air filter
- Three /four pieces multitandem valve
- High exhaust device
- Tool cabinet
- Front windshield[windscreen wiper]
- LED Rear task light
- Solid tire

Attachments of FT

- Side shifter
- Load stabilizer
- Craton Clamp
- Side-shifter
- Roll Clamp
- Fork crown cover
- Fork Positioner
- Cargo boom
- Rotary holding clamp
- Rotary fork clamp
- Barrel grab
- Bale Clamp
- Push-puller
- Tilting shifter
- Cargo boom
- Spinner

Special Options for Mast

- Full free duplex mast
- Full free triplex mast
- Widen fork
- Extended load-backrest
- Extended fork
- Special fork

5-7t Wide View Duplex Mast

Max. lift height	Overall height at max. lift								
	Landing height of mast			Overall height at max. lift					
	5t	6t	7t	Overall height at max. lift(with load-backrest)			Overall height at max. lift		
5t				6t	7t	5t	6t	7t	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
2500	2250	2250	2310	3915	3915	3920	3430	3430	3440
2700	2350	2350	2410	4115	4115	4120	3630	3630	3640
2750	2375	2375	2435	4165	4165	4170	3680	3680	3690
3000	2500	2500	2560	4415	4415	4420	3930	3930	3940
3250	2625	2625	2685	4665	4665	4670	4180	4180	4190
3300	2650	2650	2710	4715	4715	4720	4230	4230	4240
3500	2750	2750	2810	4915	4915	4920	4430	4430	4440
3750	2875	2875	2935	5165	5165	5170	4680	4680	4690
4000	3050	3050	3110	5415	5415	5520	4930	4930	5040
4250	3175	3175	3235	5665	5665	5770	5180	5180	5290
4500	3425	3425	3485	5915	5915	6020	5430	5430	5540
4750	3550	3550	3610	6165	6165	6270	5680	5680	5790
5000	3750	3750	3810	6415	6415	6520	5930	5930	6040
5300	3850	/	/	6815	/	/	6330	/	/
6000	4100	4100	4160	7415	7415	7620	6930	6930	7140
6500	4350	4350	4660	7915	7915	8220	7430	7430	7740

Note: ① The lifting weight is reduced by 100KG when equipped with built-in side shifter, and 200KG when equipped with external side shifter; ② Be matched with 7.5m and 8m mast.

5-7t Wide View Full Free Duplex Mast

Max. lift height	Overall height at max. lift								
	Landing height of mast			Overall height at max. lift					
	5t	6t	7t	Overall height at max. lift(with load-backrest)			Overall height at max. lift		
5t				6t	7t	5t	6t	7t	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
2500	2250	2250	2250	4635	4635	4635	3270	3270	3270
2500	2500	2500	2500	5135	5135	5135	3770	3770	3770
3300	2650	2650	2650	5435	5435	5435	4070	4070	4070
3500	2750	2750	2750	5635	5635	5635	4270	4270	4270
3750	2875	2875	2875	5885	5885	5885	4520	4520	4520
4000	3050	3050	3050	6060	6060	6060	4695	4695	4695
4250	3175	3175	3175	6185	6185	6185	4820	4820	4820
4500	3300	3300	3300	6310	6310	6310	4945	4945	4945

Note: ①The lifting weight is reduced by 100KG when equipped with built-in side shifter, and 200KG when equipped with external side shifter; ②Be matched with 7.5m and 8m mast.

5-7t Wide View Full Free Triplex Mast

Max. lift height	Overall height at max. lift								
	Landing height of mast			Overall height at max. lift					
	5t	6t	7t	Overall height at max. lift(with load-backrest)			Overall height at max. lift		
5t				6t	7t	5t	6t	7t	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
3600	2340	2340	2340	5005	5005	5005	4520	4520	4520
4000	2475	2475	2475	5405	5405	5405	4920	4920	4920
4350	2590	2590	2590	5750	5750	5750	5270	5270	5270
4500	2640	2640	2640	5900	5900	5900	5420	5420	5420
4800	2745	2745	2745	6215	6215	6215	5730	5735	5735
5000	2810	2810	2810	6415	6415	6415	5930	5935	5935
5400	2945	2945	2945	6815	6815	6815	6330	6335	6335
5500	2975	2975	2975	6915	6915	6915	6430	6435	6435
6000	3145	3145	3145	7415	7415	7415	6930	6935	6935
6300	3245	3245	3245	7715	7715	7715	7230	7235	7235
6500	3310	3310	3310	7915	7915	7915	7430	7435	7435
7000	3480	3480	3480	8415	8415	8415	7930	7935	7935

Note: ①The lifting weight is reduced by 100KG when equipped with built-in side shifter, and 200KG when equipped with external side shifter; ②Be matched with 7.5m and 8m mast.

Free lift height		Front overhang			mast tilt angle	Rated load (single wheel)			
Free lift height (with load-backrest)	Free lift height	load center distance 500mm							
5t	6t	7t	5t	6t	7t	front/Back	5t	6t	7t
mm	mm	mm	mm	mm	mm	(°)	(kg)	(kg)	(kg)
200	200	590	590	595	595	6°/12°	5000	6000	7000
200	200	590	590	595	595	6°/12°	5000	6000	7000
200	200	590	590	595	595	6°/12°	5000	6000	7000
200	200	590	590	595	595	6°/12°	5000	6000	7000
200	200	590	590	595	595	6°/12°	5000	6000	7000
200	200	590	590	595	595	6°/12°	5000	6000	7000
200	200	590	590	595	595	6°/12°	5000	6000	7000
200	200	590	590	595	595	6°/12°	5000	6000	7000
200	200	590	590	595	595	6°/12°	5000	6000	7000
200	200	590	590	595	595	6°/12°	5000	6000	7000
200	200	590	590	595	595	6°/12°	5000	6000	7000
200	200	590	590	595	595	6°/6°	5000	6000	7000
200	200	590	590	595	595	6°/6°	5000	6000	7000
200	200	590	/	/	/	6°/6°	4750	/	/
200	200	590	590	595	595	3°/6°	4400	5400	6400
200	200	590	590	595	595	3°/6°	/	/	/

Free lift height		Front overhang			mast tilt angle	Rated load (single wheel)			
Free lift height (with load-backrest)	Free lift height	load center distance 500mm							
5t	6t	7t	5t	6t	7t	front/Back	5t	6t	7t
mm	mm	mm	mm	mm	mm	(°)	(kg)	(kg)	(kg)
815	1298	590	590	595	595	6°/12°	5000	6000	7000
1065	1548	590	590	595	595	6°/12°	5000	6000	7000
1215	1698	590	590	595	595	6°/12°	5000	6000	7000
1315	1798	590	590	595	595	6°/12°	5000	6000	7000
1440	1923	590	590	595	595	6°/12°	5000	6000	7000
1565	2048	590	590	595	595	6°/12°	4800	6000	7000
1690	2173	590	590	595	595	6°/12°	4700	6000	7000
1815	2298	590	590	595	595	6°/12°	4600	6000	7000

Free lift height		Front overhang			mast tilt angle	Rated load (single wheel)			
Free lift height (with load-backrest)	Free lift height	load center distance 500mm							
5t	6t	7t	5t	6t	7t	front/Back	5t	6t	7t
mm	mm	mm	mm	mm	mm	(°)	(kg)	(kg)	(kg)
900	1383	620	620	620	620	6°/6°	4500	5600	6200
1035	1518	620	620	620	620	6°/6°	4500	5600	6200
1150	1633	620	620	620	620	6°/6°	4500	5600	6200
1200	1683	620	620	620	620	6°/6°	4500	5600	6200
1305	1788	620	620	620	620	6°/6°	4500	5600	6200
1370	1853	620	620	620	620	3°/6°	4500	5600	6200
1505	1988	620	620	620	620	3°/6°	4200	5300	6000
1535	2018	620	620	620	620	3°/6°	4100	5200	5800
1705	2188	620	620	620	620	3°/6°	4000	5000	5500
1805	2288	620	620	620	620	3°/6°	3800	4650	5000
1870	2353	620	620	620	620	3°/6°	3600	4300	4500
2040	2523	620	620	620	620	3°/6°	2800	3500	3700

8-12t Wide View Standard Duplex Mast

Max Lift Height	Landing height of mast				Free Lift Height (No Load Backrest)			
	8t	9t	10t	12t	8t	9t	10t	12t
mm	mm	mm	mm	mm	mm	mm	mm	mm
2200	2147	/	/	/	170	/	/	/
2500	2297	2450	2600	2600	170	190	200	200
2700	2397	2550	2700	2700	170	190	200	200
3000	2547	2700	2850	2850	170	190	200	200
3300	2697	2800	3000	3000	170	190	200	200
3500	2797	2950	3100	3100	170	190	200	200
3750	2922	3075	3225	3225	170	190	200	200
4000	3097	3250	3400	3400	170	190	200	200
4250	3222	3375	3525	3525	170	190	200	200
4500	3347	3500	3650	3650	170	190	200	200
4750	3472	3625	3775	3775	170	190	200	200
5000	3597	3750	3900	3900	170	190	200	200
5300	3797	/	/	/	170	/	/	/
5500	3897	4050	4200	4200	170	190	200	200
6000	4147	4300	4450	4450	170	190	200	200

Truck Weight				Mast Tilt Angle (α/β)				Rated load load center distance 600mm			
8t	9t	10t	12t	8t	9t	10t	12t	8t	9t	10t	12t
kg	kg	kg	kg	(°)	(°)	(°)	(°)	kg	kg	kg	kg
9936	/	/	/	6°/12°	/	/	/	8000	/	/	/
9974	10771	12179	12179	6°/12°	6°/12°	6°/12°	6°/12°	8000	9000	10000	10000
10001	10825	12219	12219	6°/12°	6°/12°	6°/12°	6°/12°	8000	9000	10000	10000
10040	11450	12300	12300	6°/12°	6°/12°	6°/12°	6°/12°	8000	9000	10000	10000
10079	11551	12348	12348	6°/12°	6°/12°	6°/12°	6°/12°	8000	9000	10000	10000
10105	11696	12393	12393	6°/12°	6°/12°	6°/12°	6°/12°	8000	9000	10000	10000
10138	11776	12443	12443	6°/12°	6°/12°	6°/12°	6°/12°	8000	9000	10000	10000
10271	11951	12583	12583	6°/12°	6°/12°	6°/12°	6°/12°	8000	9000	10000	10000
10303	12106	12638	12638	6°/12°	6°/12°	6°/12°	6°/12°	8000	9000	10000	10000
10336	12226	12688	12688	6°/12°	6°/12°	6°/12°	6°/12°	8000	9000	10000	10000
10369	12351	12745	12745	6°/6°	6°/6°	6°/6°	6°/6°	7850	8800	9500	9500
10402	12486	12800	12800	6°/6°	6°/6°	6°/6°	6°/6°	7700	8500	9000	9000
10453	/	/	/	6°/6°	/	/	/	7500	/	/	/
10566	12808	13101	13101	6°/6°	6°/6°	6°/6°	6°/6°	7300	8000	8500	8500
10632	13011	13151	13151	6°/6°	6°/6°	6°/6°	6°/6°	7000	7500	7800	7800

8-12t Wide View Full Free Duplex Mast

Max Lift Height	Landing height of mast				Free Lift Height (No Load Backrest)			
	8t	9t	10t	12t	8t	9t	10t	12t
mm	mm	mm	mm	mm	mm	mm	mm	mm
2500	2277	2450	2600	2600	1020	1250	1215	1215
2700	2377	2550	2700	2700	1120	1350	1315	1315
3000	2527	2700	2850	2850	1270	1500	1465	1465
3300	2677	2800	2975	2975	1420	1650	1615	1615
3500	2777	2950	3100	3100	1520	1750	1715	1715
3750	2902	3075	3225	3225	1645	1875	1840	1840
4000	3077	3250	3400	3400	1820	2050	2015	2015
4250	3202	3375	3525	3525	1945	2175	2140	2140
4500	3327	3500	3650	3650	2070	2300	2265	2265
4750	3452	3625	3775	3775	2195	2425	2390	2390
5000	3577	3750	3900	3900	2320	2550	2515	2515
5500	3877	4050	4200	4200	2620	2850	2815	2815
6000	4127	4300	4450	4450	2870	3100	3065	3065
5500	3897	4050	4200	4200	170	190	200	200
6000	4147	4300	4450	4450	170	190	200	200

Truck Weight				Mast Tilt Angle (α/β)				Rated load load center distance 600mm			
8t	9t	10t	12t	8t	9t	10t	12t	8t	9t	10t	12t
kg	kg	kg	kg	(°)	(°)	(°)	(°)	kg	kg	kg	kg
9896	11497	12179	12179	6°/12°	6°/12°	6°/12°	6°/12°	8000	9000	10000	10000
9911	11523	12219	12219	6°/12°	6°/12°	6°/12°	6°/12°	8000	9000	10000	10000
9941	11565	12300	12300	6°/12°	6°/12°	6°/12°	6°/12°	8000	9000	10000	10000
9966	11606	12348	12348	6°/12°	6°/12°	6°/12°	6°/12°	8000	9000	10000	10000
9996	11661	12393	12393	6°/12°	6°/12°	6°/12°	6°/12°	8000	9000	10000	10000
10006	11669	12443	12443	6°/12°	6°/12°	6°/12°	6°/12°	8000	9000	10000	10000
10111	11806	12583	12583	6°/12°	6°/12°	6°/12°	6°/12°	8000	9000	10000	10000
10136	11840	12638	12638	6°/12°	6°/12°	6°/12°	6°/12°	8000	9000	10000	10000
10171	11875	12688	12688	6°/12°	6°/12°	6°/12°	6°/12°	8000	9000	10000	10000
10191	11910	12745	12745	6°/6°	6°/6°	6°/6°	6°/6°	7850	8800	10000	10000
10211	12015	12800	12800	6°/6°	6°/6°	6°/6°	6°/6°	7700	8500	10000	10000
10361	12117	13101	13101	6°/6°	6°/6°	6°/6°	6°/6°	7300	8000	9000	9000
10401	12186	13151	13151	6°/6°	6°/6°	6°/6°	6°/6°	7000	7500	8000	8000
10566	12808	13101	13101	6°/6°	6°/6°	6°/6°	6°/6°	7300	8000	8500	8500
10632	13011	13151	13151	6°/6°	6°/6°	6°/6°	6°/6°	7000	7500	7800	7800

8-12t Wide View Full Free Triplex Mast

Max Lift Height	Landing height of mast				Free Lift Height (No Load Backrest)			
	8t	9t	10t	12t	8t	9t	10t	12t
mm	mm	mm	mm	mm	mm	mm	mm	mm
3600	2402	2450	2570	2570	1100	1200	1150	1150
4000	2527	2575	2700	2700	1225	1330	1280	1280
4350	2652	2700	2820	2820	1350	1450	1400	1400
4500	/	2750	2870	2870	/	1500	1450	1450
4800	2807	2850	2970	2970	1505	1600	1550	1550
5000	2872	2950	3035	3035	1570	1700	1615	1615
5400	3007	3075	3225	3225	1705	1830	1805	1805
6000	3202	3375	3425	3425	1900	2130	2005	2005
6500	3472	3600	3590	3590	2170	2350	2170	2170
7000	3577	3750	3855	3855	2275	2500	2435	2435

Truck Weight				Mast Tilt Angle (α/β)				Rated load load center distance 600mm			
8t	9t	10t	12t	8t	9t	10t	12t	8t	9t	10t	12t
kg	kg	kg	kg	(°)	(°)	(°)	(°)	kg	kg	kg	kg
10578	12091	13036	13036	6°/6°	6°/12°	6°/12°	6°/12°	6700	7500	8500	8500
10637	12162	13128	13128	6°/6°	6°/12°	6°/12°	6°/12°	6700	7500	8500	8500
10692	12236	13208	13208	6°/6°	6°/12°	6°/12°	6°/12°	6700	7500	8500	8500
/	12263	13248	13248	/	6°/6°	6°/6°	6°/6°	/	7500	8200	8200
10767	12324	13316	13316	6°/6°	6°/6°	6°/6°	6°/6°	6700	7500	8000	8000
10795	12380	13362	13362	6°/6°	6°/6°	6°/6°	6°/6°	6700	7500	7700	7700
10860	12454	13496	13496	6°/6°	6°/6°	6°/6°	6°/6°	6500	6800	7000	7000
11043	12625	13636	13636	6°/6°	6°/6°	6°/6°	6°/6°	6100	6100	6300	6300
11154	12755	13754	13754	6°/6°	6°/6°	6°/6°	6°/6°	5500	5400	5600	5600
11205	12843	13932	13932	6°/6°	6°/6°	6°/6°	6°/6°	5000	4600	4800	4800