

Configuration

	Configuration	General forklift
Packaging method	HELI packing	●
	Neutral packing	○
Economic and energy saving	Load sense steering	●
	Double pump confluence	●
	Vacuum-assisted braking(mechanical truck)	●
	Hydraulic power braking(hydrodynamic truck)	●
	Tilting cylinder with self-locking valve	●
Intelligent security	Reversing buzzer	●
	Reversing voice horn	○
	Reverse radar and camera	○
	Overspeed alarm(10km/h)	○
	Overspeed alarm (speed limit value adjustable)	○
	OPS (only for driving)	○
	OPS (Driving and lifting)	○
	Electric power switch	○
	Engine oil pressure alarm	●
	Oil water separator indicator	●
	Charging indicator	●
	Water temperature gauge	●
	Neutral start switch	●
	Fire extinguisher	○
	Spark arrester	○
	Fuel cap with lock	○
	Engine hood locking device	○
Reliability	Drum brake drive axle	●
	Wet-type brake drive axle (mandatory cooling)	○
	Auxiliary tank	○
	Double filter element air filter(with pressure alarm)	●
Comfortable and convenient	Dry-type double air filter	○
	Self discharging ash filter	○
	Mechanical reversing	●
	intelligent gear shift	○
	Steering wheel with knob (HELI packing)	●
	Steering wheel without knob (HELI packing)	○
	Full hydraulic power steering	●
	Mast rear cylinder with lower buffering	●
	Speed limiting valve for lifting oil circuit	●
	Man-machine interactive liquid crystal instrument	●
	Fan	○
	Teacup holder	●
	USB interface	○
	Rear view mirrors at both sides	○
	Get on/off handle	●
	Half enclosed seat	●
	HEAN full suspension seat	○
	Grammer full suspension seat	○
	Rear toolbox	○

	Configuration	General forklift
Top frame options	Standard overhead guard	●
	Low height overhead guard2230mm(120mm lower)	○
Cab/ wind shield	Front windshield (with wiper)	○
	Front heat-resistant windshield (with wiper)	○
	Rear windshield (without wiper)	○
	Glass ceiling	○
	PC Endurance Board Ceiling	○
	Panel mounted cab	○
	Single cooling air conditioner	○
	Cold and warm air conditioner	○
Lifting system	Heater	○
	Basic wide view mast with 3m	●
	The other lifting heights of basic wide view mast	○
	Two stages full free wide view mast	○
Lights	Three stages full free wide view mast	○
	Non standard fork and attachment	○
	LED lamps for whole truck	●
	LED rear working lights	○
	Rear side of blue light	○
	Three sides of blue strip light	○
	Three sides of red strip light	○
	LED flashingwarninglight (assembly type)	○
Tyre	LED rotary warning light (assembly type)	○
	LED rotary buzzerlight (assembly type)	○
Others	Pneumatic tyre	●
	Solid tyre	○
Others	Traceless solid tire	○
	Metric thread	●
	Middle exhaust	●
	High exhaust	○
	Counterweight with protective net	○
	Counterweight and mast sling	○
	Reinforced rollers	○
	Steering cylinder sleeve	●
	Tilting cylinder sleeve	○
	No universal Key	●
	Universal keys (4 pieces)	○
	Traction device	●
	Driver's tool kits	●
	Customized color	○

Note: ●Standard;○Optional

CPCD 40/45/50/55
QC7XK2 M4XK2
CP(Q)YD 40/45/50
KU2XK2 KUXK2



4-5.5 t

K2 series Internal Combustion
Counterbalanced Forklift Truck



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Embracing Timeless Classics Setting Sail on a Brand New Journey



 SAFE AND RELIABLE

01~02

 SMART AND COMFORTABLE 03~04

 ECONOMIC AND ENERGY SAVING 05

 CONVENIENT MAINTENANCE 06

SAFE AND RELIABLE



Rain test



Intensified testing

Test Validation

The performance and body strength of the forklift have been verified through various tests including rain test and Intensified test



Standard load sensing, giving priority to steering

Large turning angle steering axle, reducing the turning radius of the forklift

Frame-type upper crossbeam structure, with more reasonable stress distribution, enhances rigidity and strength



Standard air filter alarm reminds customers of maintenance and filter element replacement, protects the engine, and improves engine reliability

Standard steering cylinder protective sleeve. Cast steering hub is more reliable under harsh working conditions



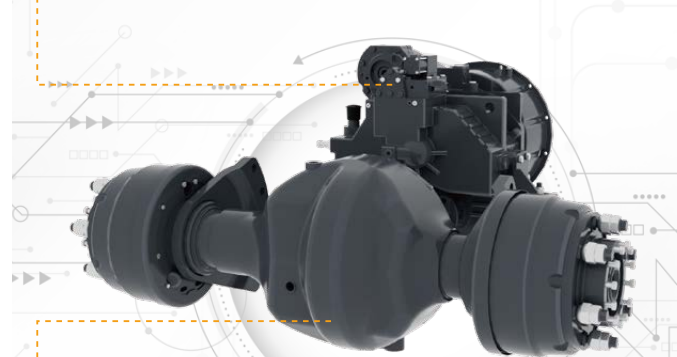
Closed high-displacement hydraulic power-assisted braking system



The whole truck standard LED lamps features longer service life and higher reliability

Dry axle housing

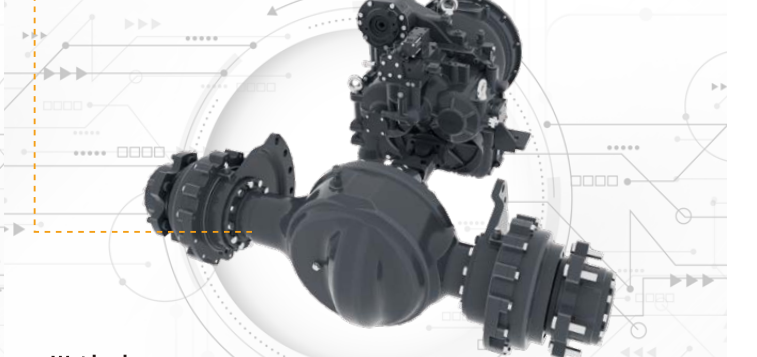
HELI's self-developed transmission has undergone nearly 10 years of technological innovation and rigorous market validation.



Cast iron axle housing, with a more reliable structure; standard drum brakes, and wet axle available as an option.

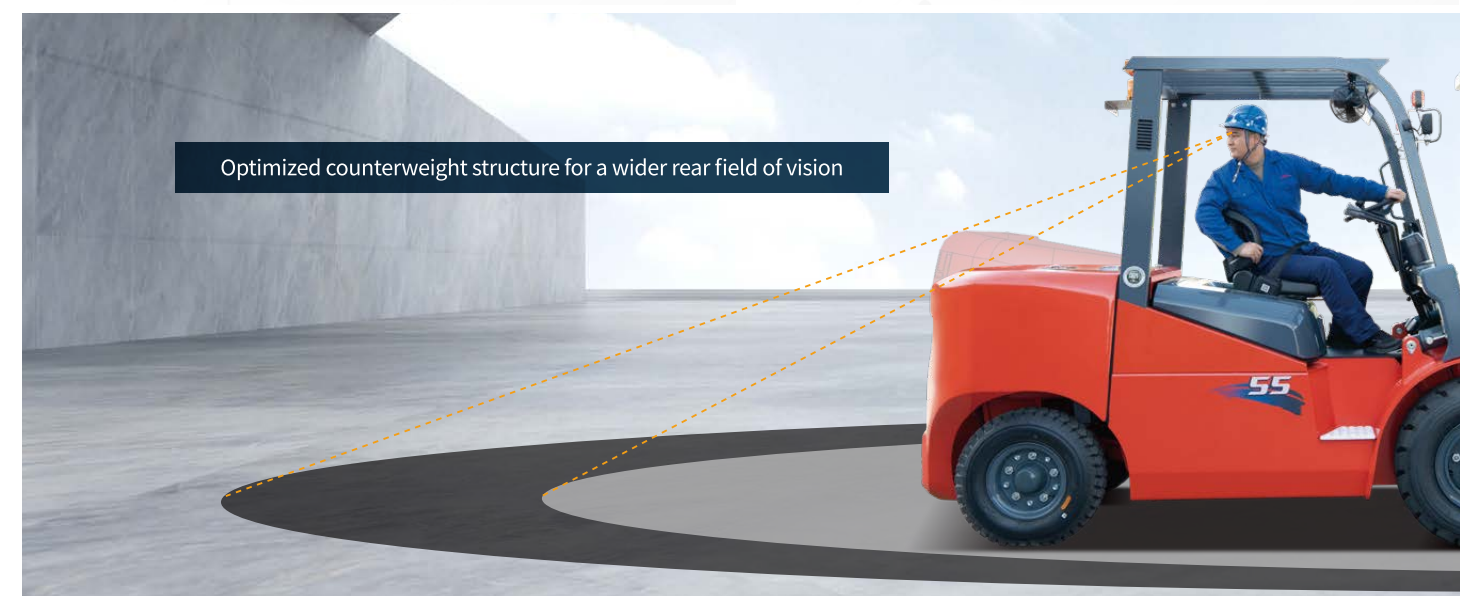
Wet axle housing (optional)

HELI's self-developed wet axle the integrated casting process, coupled with ultra-high durability and reliability, enables it to withstand high-frequency usage and long-duration operations, ensuring stable performance of the forklift under various working conditions.



Wet brakes:
The wet brake system incorporates a circulating water tank cooling system, ensuring that the gear oil temperature does not exceed limits during frequent braking conditions. This guarantees stable operation and extended service life of the wet brakes. It offers significant advantages in short-distance transportation and high-ambient temperature work environments such as ports and docks.

Optimized counterweight structure for a wider rear field of vision



SMART AND COMFORTABLE

Two-stages opening cabin door (optional)



Standard electric fan for cab



Cab lock

Pushing and Pulling mechanism

Gas spring support

RELIABLE SPECIAL DESIGNED INSTRUMENT

Regeneration status light
Maintenance indicator
Water temperature indicator/high water temperature alarm
Seat indicator
Charge indicator
Left turn indicator light
Parking brake indicator
Low oil pressure indicator
Seat belt indicator*
Water temperature indicator
Air filter alarm indicator
Oil water separation indicator



High temperature exhaust light
Neutral position indicator
Fuel level gauge/Low fuel indicator
Controller shut down indicator
Controller warning indicator
Right turn indicator
Preheating or start waiting indicator
Card swiped area*
LPG pressure alarm*
Main hydraulic blocking indicator
Low brake pressure indicator*
The key area

Reliable special meter displays the whole truck's working condition, error code and other important information completely which makes the operator master the whole truck condition directly and conveniently.
*:Some model options.



Enlarged panoramic rearview mirror

Front electric fan (optional)

Enlarged boarding handrail

The rubber hose is hidden behind the chain to achieve good front view.

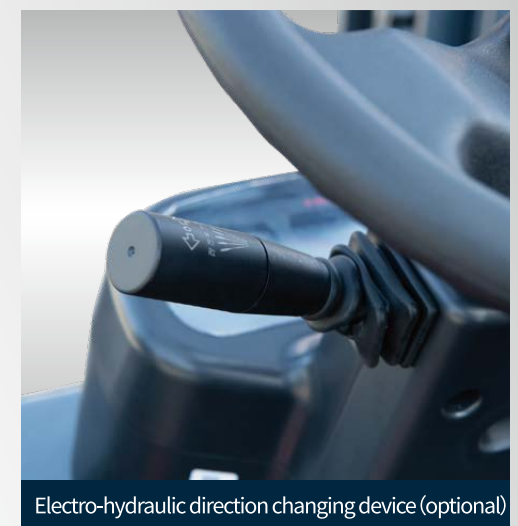
Standard cup holder
optional USB port



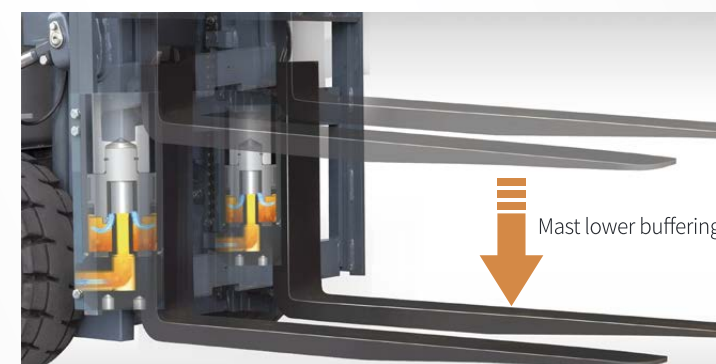
Ratchet type hand brake



Integrated light switch



Electro-hydraulic direction changing device (optional)



Standard mast lower buffering, while lift buffering is fitted for full free mast to achieve better operation experience

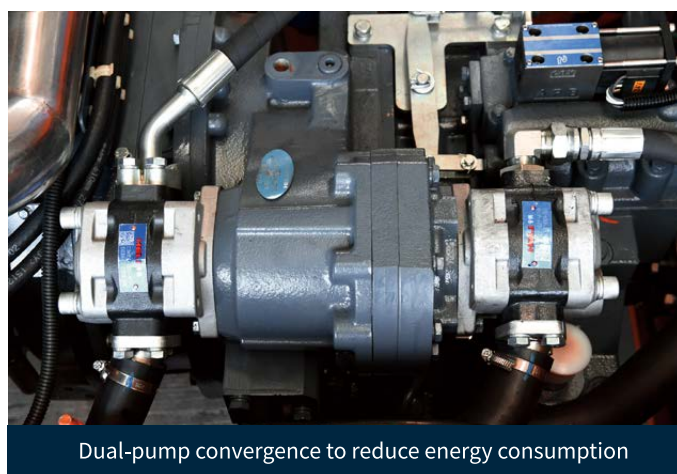


Standard semi-enclosed seat, which is more comfortable for drivers

ECONOMIC AND ENERGY SAVING



Enlarging pipe diameter to decrease pressure loss



Dual-pump convergence to reduce energy consumption



CONVENIENT MAINTENANCE



Large opening
angle hood

80°

Removable triangular side cover



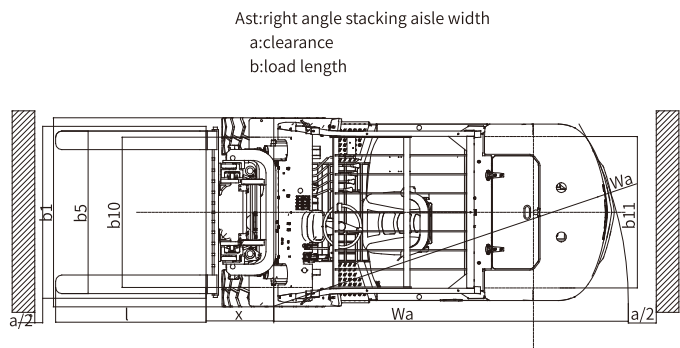
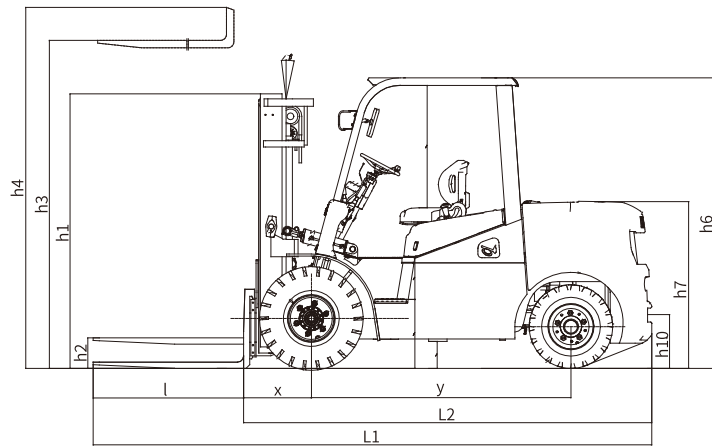
The diesel filter and engine oil filter of the engine are placed in front for easy daily maintenance



The counterweight cover has a large opening angle, which facilitates the inspection of the radiator

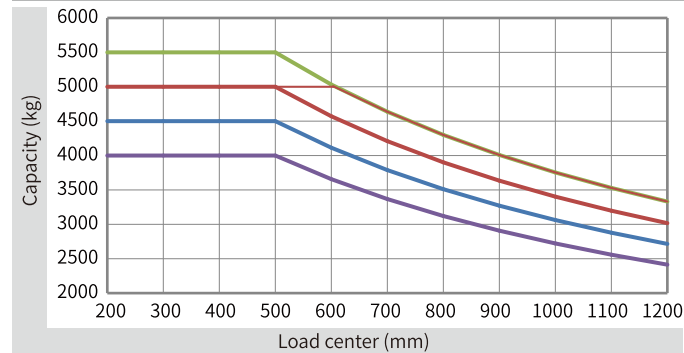
Manufacturer and Technical Data

Manufacturer				HELI											
Model				CPCD40	CP (Q) YD40		CPCD45	CP (Q) YD45		CPCD50	CP (Q) YD50		CPC55	CPCD55	
Characteristics															
1.01	Rated capacity		kg	4000			4500			5000			5500		
1.02	Load center distance		mm	500			500			500	600		500		
1.03	Power mode			Diesel	LPG	Gasoline	Diesel	LPG	Gasoline	Diesel	LPG	Gasoline	Diesel	Diesel	
1.04	Driving mode			Seat-type											
1.05	Front overhang	x	mm	560											
1.06	Wheelbase	y	mm	2100											
1.07	Weight		kg	6460			6660			6750	6920	7260	7130	7260	
Dimension parameter															
2.01	Mast tilt angle (forward/backward)	α/β	°	6/12											
2.02	Height (mast lowered)	h1	mm	2225								2275			
2.03	Free lifting height	h2	mm	155											
2.04	Lifting height (standard)	h3	mm	3000											
2.05	Max. height,extended (with backrest)	h4	mm	4240								4390			
2.06	Height of overhead guard	h6	mm	2350											
2.07	Seat height relating to SIP (to ground)	h7	mm	1270											
2.08	Towing coupling height	h10	mm	295											
2.09	Ground clearance (between mast)	m1	mm	150											
2.10	Overall length (with fork)	L1	mm	4320			4320			4320		4520			
2.11	Overall length (without fork)	L2	mm	3250								3300			
2.12	Overall width	b1	mm	1530											
2.13	Distance across fork-arms, Max./Min.	b5	mm	300-1374											
2.14	Fork size:thickness x width x length	s/e/l	mm	50x150x1070			50x150x1070			50x150x1070		55x150x1220			
2.15	Tread, front	b10	mm	1230											
2.16	Tread, rear	b11	mm	1190											
2.17	Right angle stacking aisle width for pallet 1000 x1200mm crossways	Ast	mm	4690								4730			
2.18	Min. outside turning radius	Wa	mm	2930								2970			
Tyres															
3.01	Wheels,number front/rear (x=driven wheels)			2X/2											
3.02	Tyre type front/rear			Pneumatic-tyre											
3.03	Tyre size,front			8.25-15-14PR			300-15-18PR								
3.04	Tyre size,rear			7.00-12-14PR											
3.05	Double-tyre size,front/rear			8.25-15-14PR/7.00-12-14PR											
other															
4.01	Service brake			Vacuum assisted braking-pedal type (mechanical truck)/hydraulic assisted braking-pedal type(hydrodynamic truck)											
4.02	Parking brake			Mechanical-hand lever											
4.03	Operating pressure for attachments		mpa	20.5						23.5					
4.04	Fuel tank capacity		L	120											



Ast:right angle stacking aisle width
a:clearance
b:load length

Load Curve



CPCP40 CPCD45
CPCD50 CPCD55

Note: The vertical axis stands for load capacity and the horizontal axis stands for load center which is calculated from the front surface of the forks to the gravity of the standard load.The standard load means a cubic with 1200mm edge length.When mast is tilted forward,using non-standard forks or loading large goods, the load capacity will be reduced.The load capacity of standard mast at different load center can be known from this load chart.

Performance parameters

Model		CPCD40/45/50/55	CP (Q) YD40	CP (Q) YD45	CP (Q) YD50	CP (Q) YD50
Configuration number		QC7XK2/M4XK2	KU2XK2/KUXK2			
Transmission gears (front/rear)		Forward 2 backward 1				
Travel speed (laden/unladen)	km/h	24/25				
Lift speed (laden/unladen)	mm/s	530/560				
Max.drawbar pull (laden/unladen)	kN	33				
Max.gradeability (laden/unladen)	%	26/20				

Optional engine model and truck main specifications

Engine model	Truck model	Rated power/speed (Kw/rpm)	Rated torque/speed (Nm/rpm)	Engine displacement(L)	Engine cylinder number-cylinder borexstroke	Emission standard
Quanchai 4C6-88C41	CPCD40/45/50/55-QC7XK2	65/2200	350/1800	3.47	4-98X115	China III
Mitsubishi S6S	CPCD40/45/50/55-M4XK2	52/2300	248/1700	4.996	6-94X115	China III/Euro IIIA
KUBOTA WG3800	CPYD40/45-KUXK2/CPYD50-KUXK2-06	54.6/2400	271/1200	3.77	4-100X120	Certification type
KUBOTA WG3800	CPQYD40/45-KUXK2/CPQYD50-KUXK2-06	54.6/2400	271 (LPG) /1200 247(GAS)/1400	3.77	4-100X120	Certification type
KUBOTA WG3800	CPYD40/45-KU2XK2/CPYD50-KU2XK2-06	63.2/2400	282/1200	3.77	4-100X120	Non certified type
KUBOTA WG3800	CPQYD40/45-KU2XK2/CPQYD50-KU2XK2-06	59.9(LPG)/2400 56.8(GAS)/2400	271 (LPG) /1200 247(GAS)/1400	3.77	4-100X120	Non certified type

Mast parameters

Mast type	Mast model	Max.lifting height (mm)	Load capacity (lode center 500mm)(kg)				Height (mast lowered)(mm)		Free lift height (with backrest)(mm)		Service weight (kg)				Mast tilt angle α/β(°)
			CPCD40	CPCD45	CPCD50	CPCD55	CPCD40/45/50	CPCD55	CPCD40/45/50	CPCD55	CPCD40	CPCD45	CPCD50	CPCD55	
Wide View Standard Mast	M250	2500	4000	4500	5000	5500	1975	2025	150	155	6125	6435	6845	7195	6°/12°
	M275	2750	4000	4500	5000	5500	2115	2165	150	155	6175	6485	6895	7230	6°/12°
	M300	3000	4000	4500	5000	5500	2225	2275	150	155	6200	6510	6920	7260	6°/12°
	M330	3300	4000	4500	5000	5500	2375	2425	150	155	6235	6545	6955	7300	6°/12°
	M350	3500	4000	4500	5000	5500	2475	2525	150	155	6260	6570	6980	7325	6°/12°
	M370	3700	4000	4500	5000	5500	2575	2625	150	155	6280	6590	7000	7350	6°/12°
	M400	4000	4000	4500	5000	5500	2825	2825	150	155	6405	6715	7125	7465	6°/6°
	M425	4250	4000	4500	5000	5500	2950	2950	150	155	6435	6745	7155	7500	6°/6°
	M450	4500	3800 *4000	4300 *4500	4700 *5000	5200 *5500	3075	3075	150	155	6460	6770	7180	7530	6°/6°
	M475	4750	3700 *4000	4200 *4500	4500 *5000	5000 *5500	3200	3200	150	155	6490	6800	7210	7565	6°/6°
	M500	5000	3800 *3700	4300 *4200	4700 *4600	5200 *5000	3325	3325	150	155	6520	6830	7240	7595	6°/6°
M550	5500	3200 *3400	3600 *4000	4000 *4200	4200 *4500	3625	3625	150	155	6590	6900	7310	7670	6°/6°	
M600	6000	*3200	*3600	*3800	*4000	3875	3875	150	155	6645	6955	7365	7735	6°/6°	
Full Free 2-Stage Mast	ZM250	2500	4000	4500	5000	5500	1990	1990	780	630	6215	6525	6935	7315	6°/12°
	ZM275	2750	4000	4500	5000	5500	2130	2130	920	770	6260	6570	6980	7355	6°/12°
	ZM300	3000	4000	4500	5000	5500	2240	2240	1030	880	6285	6595	7005	7390	6°/12°
	ZM330	3300	4000	4500	5000	5500	2390	2390	1180	1030	6330	6640	7050	7435	6°/12°
	ZM350	3500	4000	4500	5000	5500	2490	2490	1280	1130	6355	6665	7075	7465	6°/12°
	ZM370	3700	4000	4500	5000	5500	2590	2590	1380	1230	6385	6695	7105	7495	6°/12°
	ZM400	4000	4000	4500	5000	5500	2790	2790	1580	1430	6505	6815	7225	7620	6°/6°
Full Free 3-Stage Mast	ZSM360	3600	3800 *4000	4350 *4500	4800 *5000	5300 *5500	1940	1990	730	630	6535	6845	7255	7660	6°/6°
	ZSM400	4000	3800 *4000	4350 *4500	4800 *5000	5300 *5500	2080	2130	870	770	6590	6900	7310	7715	6°/6°
	ZSM435	4350	3800 *4000	4350 *4500	4800 *5000	5300 *5500	2190	2240	980	880	6630	6940	7350	7760	6°/6°
	ZSM450	4500	3800 *4000	4350 *4500	4800 *5000	5300 *5500	2240	2290	1030	930	6655	6965	7375	7785	6°/6°
	ZSM470	4700	3500 *3800	4000 *4200	4500 *4800	5000 *5200	2305	2355	1095	995	6695	7005	7415	7810	6°/6°
	ZSM500	5000	3350 *3500	3800 *4000	4200 *4500	4500 *4800	2440	2490	1230	1130	6735	7045	7455	7865	6°/6°
	ZSM540	5400	3250 *3400	3400 *3700	3800 *4200	4200 *4500	2590	2640	1380	1280	6795	7105	7515	7925	6°/6°
	ZSM600	6000	*3200	*3400	*3800	*4000	2790	2840	1580	1480	6940	7250	7660	8075	6°/6°
	ZSM650	6500	*2500	*2800	*3200	*3500	2990	3040	1780	1680	7015	7325	7735	8150	3°/3°
	ZSM700	7000	*1800	*2000	*2500	*2800	3165	3215	1955	1855	7080	7390	7800	8215	3°/3°