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ISO14001
ISO14001:2015



ISO9001
ISO9001:2015



HANGCHA trucks conform
to the European Safety
Requirements.

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INNOVATIVE LITHIUM-ION

XF SERIES ELECTRIC FORKLIFT TRUCK

with capacities of 2,000 to 3,500kg



The World of Hangcha
SINCE 1956



XF SERIES ELECTRIC FORKLIFT TRUCK

With top-ranking working efficiency, safety, comfort, reliability, maneuverability, XF series electric forklift are high-end models newly developed by Hangcha, which integrate Hangcha's most advanced technology and have the highest level of configuration for models with the same tonnage.

MAXIMUM LOAD CAPACITY

3,500kg

BATTERY LIFE

10-12h

MINIMUM TURNING RADIUS OF 3.5T FORKLIFT

2170mm

MAXIMUM DRIVING SPEED

20km/h

MAXIMUM LIFTING SPEED

690mm/s



High efficiency

- / The integral drive axle integrated with a high-power drive motor has excellent driving performance, high speed, strong climbing ability and extremely high working efficiency.
- / With a large steering angle, the integral cast steering axle is reasonably arranged to enable a smaller truck size, a smaller turning radius and better maneuverability of the truck.
- / A high-powered oil pump motor is used to enable a high lifting speed to still be maintained even under full-load operating conditions and a higher efficiency of lifting operations.
- / Ultra long battery life: No matter whether it is a mechanical multi-way valve or an electromagnetic proportional solenoid valve, it has a load sensing function to enable a higher efficiency of the hydraulic system. Through reasonable structural design, it can be equipped with a large-capacity lead-acid battery or lithium battery.



Steering axle



High-performance axle



Safety

- / For the standard configuration, all forklifts of this series are equipped with electronic handbrakes and an automatic parking function to enable zero-speed automatic parking, automatic parking when the driver leaves the seat and automatic parking on ramps and ensure comprehensive safety protection.
- / On the premise of ensuring the strength of the mast, channel steel of new models is used, the design of the structure is optimized, and the layout of the piping is optimized, so that the view through the mast is improved.
- / With a battery lock detection function, the truck can only be started when the battery baffle is placed in the correct position, in case the battery slides out of the truck body.
- / The mast is designed to have high strength, be less deformed and less wobble when lifted high. A descending buffering function and a triplex mast changed cylinder buffering function are provided to enable higher stability and safety of the truck.



The high-strength battery locking device is safe and secure and can be easily operated.



With all sheet metal parts arranged as much as possible not to obstruct the view, the overhead guard ceiling is designed to enable optimized view.



For the standard configuration, all forklifts of this series are equipped with solid tires with a longer service life to avoid safety problems caused by blowouts of pneumatic tires.



A turning deceleration function is provided for the standard configuration, to prevent lateral tipping during high-speed turning.



No need to pay too much attention to parking braking, the driver can operate easily.

MORE GUARANTEE MORE CONTROL MORE VISION



Emergency Stop Button

Handbrake button

Widened brake pedal



Start key



Code lock(Optional)

Color-screen instrument



Mini-lever operating mode(Optional)



EXCELLENT ERGONOMIC DESIGN

Comfort

- / The steering axle is shock-absorbing and a suspended seat is provided for the standard configuration to reduce the shock and impact of the truck on the driver and improve the driver's comfort.
- / The electronic handbrake can be operated easily by pressing the button.
- / The angle of the steering column is adjustable, and equipped with a hydraulic air cylinder buffering device, it can be locked easily with the joystick.
- / With a novelly designed more ergonomic joystick, a mechanical joystick-equipped multiway valve operating system is provided for the standard configuration. An optional mini-lever multiway valve operating system and an optional fingertip multiway valve operating system are also provided according to European customers' operating habits.
- / Reversing is a very ordinary forklift operation. For the standard configuration, the XF series electric forklift is equipped with a reverse armrest containing a horn button, which makes it easier for the driver to drive the forklift during reversing.

4 The steering wheel and seat can be adjusted in multiple directions



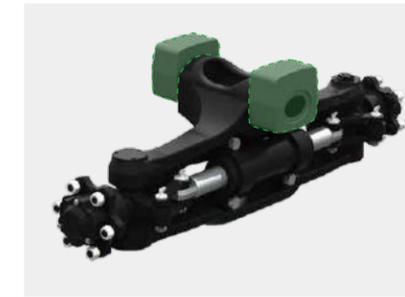
The driver has a wide view

Large driving space

Low boarding step



The suspended shock-absorbing seat improves riding comfort



Shock-absorbing rubber to absorb vibration



A reverse armrest containing a horn button is provided for the standard configuration



Mechanical valve stem operating mode



Mini-lever operating mode(Optional)



Finger-tip operating mode(Optional)

Reliability

- / A maintenance-free wet braking system with a function of automatic compensation during braking interval is provided for the standard configuration.
- / For the standard configuration, all forklifts of this series are equipped with maintenance-free high-efficiency low-noise brushless AC drive motors and oil pump motors and integrated speed and temperature sensors.
- / The imported motor controller has very high control accuracy and very good speed regulation performance. With functions of regenerative braking, protection for preventing sliding down a ramp, etc., it is safe and reliable, has a longer battery life and can realize energy recovery.
- / With good maintainability and high structure strength, the mast is installed with hooks and can be installed and removed easily.



High-performance axle	
• Wet braking	• AC drive motor
• Maintenance free	• Motor power: 20.2kw
• Parking braking of negative hydraulic brake	• Low noise
• Automatic compensation during braking interval	• Mast installation with hooks

FULLY AUTOMATED

Advancement

- / The new instruments with large color LCD screens to clearly display adequate interface information can be operated more easily, can display the rotation angle of the tire in addition to the remaining battery life, speed, operating mode and use time and have the functions of fault diagnosis, parameter setting, etc.
- / An optional mast inclination detection function is provided to realize the forward and backward tilting buffering of the mast and automatic fork leveling.
- / An optional cloud intelligent management system is provided to realize fleet management, remote monitoring, remote setting of parameters, electronic fencing, etc.



Card swiping area

PIN area



- | | |
|--------------------------|-------------------------|
| 1 Remaining battery life | 6 Turn signal indicator |
| 2 Speed | 7 Steering angle |
| 3 Operating mode | 8 Operating time |
| 4 Indicator | 9 Weight Indicator |
| 5 Direction indication | 10 Tilt angle display |



Comprehensive

- / Reserved installation holes are provided on the overhead guard to facilitate the customer to modify it into a cab.
- / Optional cold store truck models are provided to meet the requirements for use in the low-temperature and high-humidity environments of cold stores.
- / The truck has optimized waterproof design and uses waterproof structures and sealing tape to improve the sealing performance, as well as parts of a high water resistance level, so the protection level of the truck reaches IPX4.



Without changing the truck body structure, the battery can be both liftable and laterally-dismounted. Customers can choose the way according to their own needs. (Note: A special box should be used as the battery box to be removed sideways).

Options

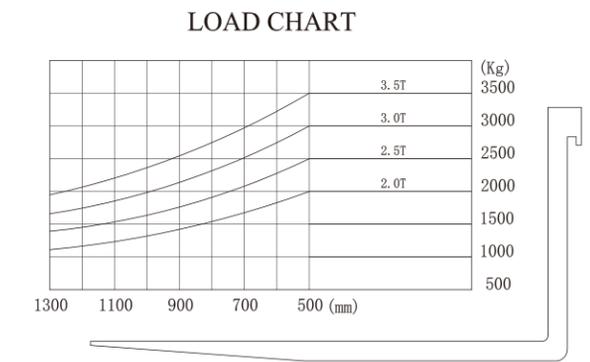
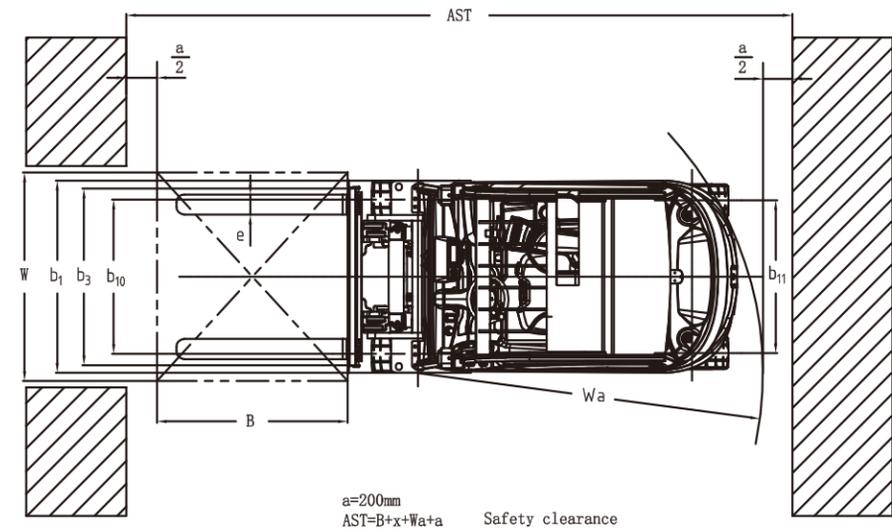
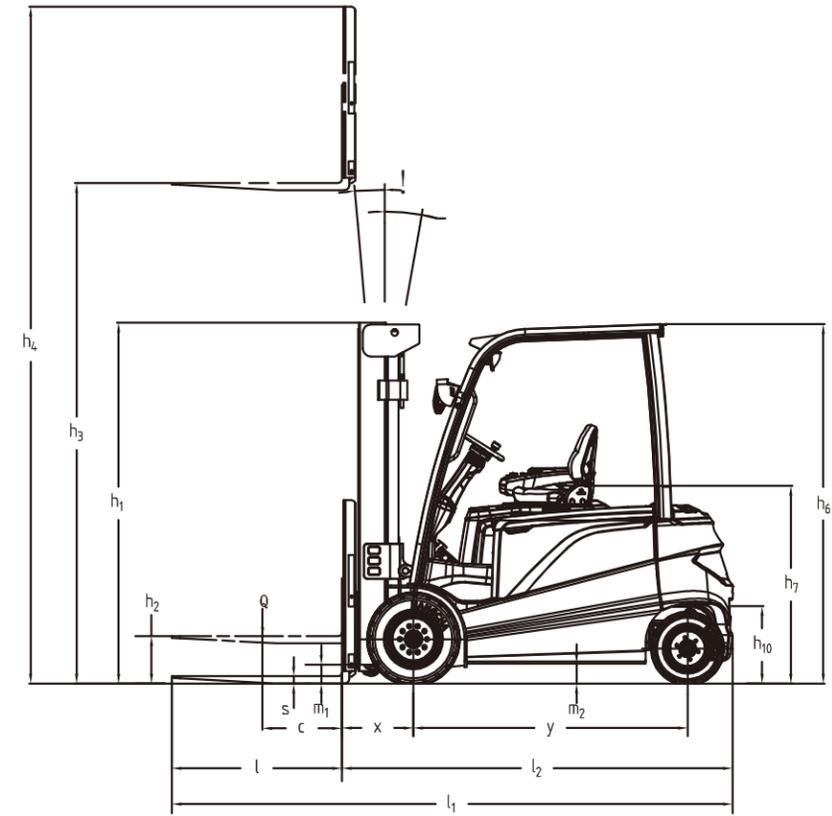
- / Cab
- / Charger
- / Code lock
- / Seamless solid tire
- / Double front wheels
- / Triple and quadruple multiway valves
- / Mini-lever control system
- / Fingertip control system
- / Rear LED operation light
- / Blue light
- / One line laser light
- / Double-blinking alarm light
- / Over speeding alarm
- / Mast inclination display
- / Mast forward and backward tilting buffering
- / Automatic fork leveling
- / 12V socket of cigarette lighter
- / Large-capacity battery
- / Laterally-dismounted battery (shoveled by forklift)
- / Automatic water replenishment of the lead-acid battery
- / Plastic ceiling
- / Front and rear windows and wipers
- / Drive-in overhead guard
- / Guard rails on both sides of the overhead guard
- / Cold storage vehicle
- / Left and right rear view mirrors
- / Free duplex mast
- / Free triplex mast
- / Integrated side shifter
- / Forks of different lengths
- / Widened fork carriage
- / Attachment
- / Weighing system
- / Mast height detection

Standard Specification

- / Integral drive axle
- / Wet braking
- / Multi-function instrument cluster
- / Key switch
- / Emergency power off switch
- / Solid tire
- / Electronic handbrake
- / Two-way multi-way valve
- / 3M duplex mast
- / Combination LED headlights
- / Combination LED tail light
- / Panoramic rear view mirror
- / Boarding handles
- / Angle-adjustable steering column
- / Horn, reversing buzzer
- / Fully hydraulic power steering
- / Silent gear pump
- / Mast descending buffering
- / Traction pin
- / Turning deceleration
- / OPS system
- / Seat belt
- / Suspended seat
- / USB charging socket
- / Storage bin, cup holder
- / Reverse armrest (with a horn button)
- / Alarm light

XF Series Electric Forklift Truck Specification

Distinguishing mark	HANGCHA GROUP CO.,LTD.									
	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	1.10
1.1	Manufacturer (abbreviation)									
1.2	Manufacturer's type designation	CPD20-XFD4	CPD25-XFD4	CPD30-XFD4	CPD35-XFD4	CPD20-XFD4-I	CPD25-XFD4-I	CPD30-XFD4-I	CPD35-XFD4-I	
1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas	electric	electric	electric	electric	electric	electric	electric	electric	electric
1.4	Operator type: hand, pedestrian, standing, seated, order-picker	seated	seated	seated	seated	seated	seated	seated	seated	seated
1.5	Load capacity/rated load	Q (kg)	2000	2500	3000	3500	2000	2500	3000	3500
1.6	Load centre distance	c (mm)	500	500	500	500	500	500	500	500
1.7	Load distance, centre of drive axle to fork	x (mm)	420	420	440	445	420	420	440	445
1.8	Wheelbase	y (mm)	1579	1579	1724	1724	1579	1579	1724	1724
2.1	Service Weight	kg	4500	4800	5220	5550	4500	4800	5220	5550
2.2	Axle loading, laden front/rear	kg	5800/700	6580/720	7320/900	8130/920	5800/700	6580/720	7320/900	8130/920
2.3	Axle loading, unladen front/rear	kg	2300/2200	2370/2430	2600/2620	2700/2850	2300/2200	2370/2430	2600/2620	2700/2850
3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		solid							
3.2	Tyre size, front		23-9-10	23-9-10	23-10-12	23-10-12	23-9-10	23-9-10	23-10-12	23-10-12
3.3	Tyre size, rear		18-7-8	18-7-8	18-7-8	200/50-10	18-7-8	18-7-8	18-7-8	200/50-10
3.5	Wheels, number front rear (x = driven wheels)		2x2							
3.6	Tread, front	b10 (mm)	990	990	962	962	990	990	962	962
3.7	Tread, rear	b11 (mm)	960	960	960	950	960	960	960	950
4.1	Tilt of mast/fork carriage forward/backward	Grad	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
4.2	Height, mast lowered	h1 (mm)	2203	2203	2203	2253	2203	2203	2253	2253
4.3	Free lift	h2 (mm)	120	120	125	125	120	120	125	125
4.4	Lift	h3 (mm)	3000	3000	3000	3000	3000	3000	3000	3000
4.5	Height, mast extended	h4 (mm)	4012	4012	4012	4012	2203	2203	2203	2253
4.7	Height of overhead guard (cabin)	h5 (mm)	2240	2240	2240	2240	2240	2240	2240	2240
4.9	Seat height/stand height	h7 (mm)	1198	1198	1198	1198	1198	1198	1198	1198
4.12	Coupling height	h10 (mm)	475	475	475	475	475	475	475	475
4.19	Overall length	l1 (mm)	3368	3368	3519	3524	3368	3368	3519	3524
4.20	Length to face of forks	l2 (mm)	2298	2298	2449	2454	2298	2298	2449	2454
4.21	Overall width	b1 (mm)	1195	1195	1195	1195	1195	1195	1195	1195
4.22	Fork dimensions ISO2331	s/e/l (mm)	40*122*1070	40*122*1070	45*125*1070	50*122*1070	40*122*1070	40*122*1070	45*125*1070	50*122*1070
4.23	Fork carriage DIN 15 173 --- ISO 2328, class/type A,B		2A	2A	3A	3A	2A	2A	3A	3A
4.24	Fork-carriage width	b3 (mm)	1100	1100	1100	1100	1100	1100	1100	1100
4.31	Ground clearance, laden, below mast	m1 (mm)	117	117	117	117	117	117	117	117
4.32	Ground clearance, centre of wheelbase	m2 (mm)	125	125	125	125	125	125	125	125
4.33	Aisle width for pallets 1000 x 1200 crossways	As1 (mm)	3645	3645	3810	3815	3645	3645	3810	3815
4.34	Aisle width for pallets 800 x 1200 crossways	As2 (mm)	3845	3845	4010	4015	3845	3845	4010	4015
4.35	Turning radius	Wa (mm)	2025	2025	2170	2170	2025	2025	2170	2170
4.36	Internal turning radius	bs (mm)	550	550	600	600	550	550	600	600
5.1	Travel speed, laden/unladen	km/h	19/20	19/20	19/20	19/20	19/20	19/20	19/20	19/20
5.2	Lift speed, laden/unladen	mm/s	575/695	550/695	485/610	415/480	575/695	550/695	485/610	415/480
5.3	Lowering speed, laden/unladen	mm/s	530/480	550/480	550/450	520/430	530/480	550/480	550/450	520/430
5.5	Drawbar pull, laden/unladen	N	9400/10000	9300/10000	9200/9900	9000/9800	9400/10000	9300/10000	9200/9900	9000/9800
5.6	Max. Drawbar pull, laden/unladen	N	19500/20000	19300/20000	19000/19800	18500/19500	19500/20000	19300/20000	19000/19800	18500/19500
5.7	Gradeability, laden/unladen	%	19/29	16/27	14/23	12/21	19/29	16/27	14/23	12/21
5.8	Max. gradeability, laden/unladen	%	27/32	24/31	21/29	19/27	27/32	24/31	21/29	19/27
5.9	Acceleration time, laden/unladen (0-10m)	s	4.6/4.4	4.8/4.5	5.0/4.6	5.1/4.7	4.6/4.4	4.8/4.5	5.0/4.6	5.1/4.7
5.10	Service brake		Hydraulic							
5.11	Parking brake		Hydraulic							
6.1	Drive motor rating S2 60 min	kW	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
6.2	Lift motor rating at S3 15%	kW	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
6.3	Battery acc. to DIN 43 531/35/36 A,B,C, no		DIN 43536 A	DIN 43536 A	DIN 43536 A	DIN 43536 A	NO	NO	NO	NO
6.4	Battery voltage, nominal capacity K5	V/Ah	80/560	80/560	80/700	80/700	80/456	80/456	80/604	80/604
6.5	Battery weight	kg	1558	1558	1863	1863	370	370	465	465
6.6	Battery dimensions	l/b/h (mm)	1028/711/784	1028/711/784	1028/855/784	1028/855/784	1028/710/580	1028/710/580	1028/854/580	1028/854/580
6.7	Energy consumption acc. to VDI cycle	kWh/h	7.5	8.5	9.5	10.5	7.5	8.5	9.5	10.5
6.8	Min. battery weight	kg	1480	1480	1770	1770	370	370	450	450
6.9	Max. battery weight	kg	1636	1636	1956	1956	520	520	610	610
8.1	Manufacturer of controller		Inmotion							
8.2	Operating pressure for attachments	bar	185	185	185	185	185	185	185	185
8.3	Oil volume for attachments	l/min	40	40	40	40	40	40	40	40
8.4	Sound level at the driver's ear according to EN / DIN 12 053	dB (A)	69	69	69	69	69	69	69	69
8.5	Towing coupling, type DIN 15170		PIN							



XF Series 2.0-2.5t Electric Forklift Truck Mast Specification

Type	Model	Lifting height	Lowered height	Extended height		Free lift height		Tilt range		Capacity (Mast vertical to ground)			
				With backrest	Without backrest	With backrest	Without backrest	F	R	Load center@500mm Single Tire		Load center@500mm Front Dual Tire	
				mm	mm	mm	mm	(°)	(°)	2.0t	2.5t	2.0t	2.5t
2-stage wide view mast	M250	2500	1953	3546	3163	125	125	5	8	2000	2500	2000	2500
	M270	2700	2053	3746	3363	125	125	5	8	2000	2500	2000	2500
	M300	3000	2203	4046	3663	125	125	5	8	2000	2500	2000	2500
	M330	3300	2353	4346	3963	125	125	5	8	2000	2500	2000	2500
	M350	3500	2453	4546	4163	125	125	5	8	2000	2500	2000	2500
	M370	3700	2603	4746	4413	125	125	5	8	2000	2500	2000	2500
	M400	4000	2803	5046	4763	125	125	5	8	2000	2500	2000	2500
	M430	4300	2953	5346	5063	125	125	5	6	2000	2500	2000	2500
2-stage full-free lifting mast	M450	4500	3053	5546	5263	125	125	5	6	2000	2500	2000	2500
	U250	2500	1930	3556	3171	884	1252	5	8	2000	2500	2000	2500
	U270	2700	2030	3756	3371	984	1352	5	8	2000	2500	2000	2500
	U300	3000	2203	4056	3671	1157	1525	5	8	2000	2500	2000	2500
	U330	3300	2330	4356	3971	1284	1652	5	8	2000	2500	2000	2500
	U350	3500	2430	4556	4171	1384	1752	5	8	2000	2500	2000	2500
	U370	3700	2580	4756	4390	1534	1900	5	8	2000	2500	2000	2500
	U400	4000	2780	5056	4740	1734	2050	5	8	2000	2500	2000	2500
3-stage full-free lifting mast	N400	4000	2003	5046	4673	997	1370.5	5	6	2000	2500	2000	2500
	N430	4300	2103	5346	4973	1097	1470.5	5	6	2000	2450	2000	2500
	N450	4500	2153	5546	5173	1147	1520.5	5	6	2000	2350	2000	2450
	N470	4700	2253	5746	5373	1247	1620.5	5	6	1950	2250	2000	2350
	N480	4800	2303	5846	5473	1297	1670.5	5	6	1950	2250	2000	2350
	N500	5000	2403	6046	5673	1397	1770.5	5	6	1850	2150	1950	2250
	N550	5500	2603	6546	6173	1597	1970.5	3	6	1750	2050	1900	2100
	N600	6000	2853	7046	6703	1847	2190	3	6	1650	1850	1800	1950
	N650	6500	3103	7546	7253	2097	2390	3	6	1300	1600	1550	1800
	N700	7000	3353	8046	7853	2347	2540	3	6	1000	1300	1250	1500

XF Series 3.0-3.5t Electric Forklift Truck Mast Specification

Type	Model	Lifting height	Lowered height		Extended height				Free lift height				Tilt range		Capacity (Mast vertical to ground)			
			3.0t	3.5t	With backrest		Without backrest		With backrest		Without backrest		F	R	Load center@500mm Single Tire		Load center@500mm Front Dual Tire	
			mm	mm	3.0t	3.5t	3.0t	3.5t	3.0t	3.5t	3.0t	3.5t	3.0t	3.5t	(°)	(°)	3.0t	3.5t
2-stage wide view mast	M250	2500	1953	2003	3645	3645	3202	3277	125	125	125	125	5	8	3000	3500	3000	3500
	M270	2700	2053	2103	3845	3845	3402	3477	125	125	125	125	5	8	3000	3500	3000	3500
	M300	3000	2203	2253	4145	4145	3702	3777	125	125	125	125	5	8	3000	3500	3000	3500
	M330	3300	2353	2403	4445	4445	4002	4077	125	125	125	125	5	8	3000	3500	3000	3500
	M350	3500	2453	2503	4645	4645	4202	4277	125	125	125	125	5	8	3000	3500	3000	3500
	M370	3700	2603	2603	4845	4845	4413	4477	125	125	125	125	5	8	3000	3500	3000	3500
	M400	4000	2803	2853	5145	5145	4763	4803	125	125	125	125	5	8	3000	3500	3000	3500
	M430	4300	2953	3003	5445	5445	5063	5103	125	125	125	125	5	6	3000	3500	3000	3500
2-stage full-free lifting mast	M450	4500	3053	3103	5645	5645	5263	5303	125	125	125	125	5	6	3000	3500	3000	3500
	U250	2500	1953	1953	3645	3655	3226	3326	808	808	1227	1137	5	8	3000	3500	3000	3500
	U270	2700	2053	2053	3845	3855	3426	3526	908	908	1327	1237	5	8	3000	3500	3000	3500
	U300	3000	2203	2203	4145	4155	3726	3826	1058	1058	1477	1387	5	8	3000	3500	3000	3500
	U330	3300	2353	2353	4445	4455	4026	4126	1208	1208	1627	1537	5	8	3000	3500	3000	3500
	U350	3500	2453	2453	4645	4655	4226	4326	1308	1308	1727	1637	5	8	3000	3500	3000	3500
	U370	3700	2603	2603	4845	4855	4426	4526	1458	1458	1877	1787	5	8	3000	3500	3000	3500
	U400	4000	2803	2803	5145	5155	4773	4826	1658	1658	2030	1987	5	8	3000	3500	3000	3500
3-stage full-free lifting mast	N400	4000	2003	2103	5145	5145	4743	4818	903	1008	1305	1335	5	6	3000	3400	3000	3500
	N430	4300	2103	2203	5445	5445	5043	5118	1003	1108	1405	1435	5	6	3000	3300	3000	3400
	N450	4500	2153	2303	5645	5645	5243	5318	1053	1208	1455	1535	5	6	3000	3200	3000	3300
	N470	4700	2253	2403	5845	5845	5443	5518	1153	1308	1555	1635	5	6	2900	3100	2950	3200
	N480	4800	2303	2453	5945	5945	5543	5653	1203	1358	1605	1650	5	6	2900	3100	2950	3200
	N500	5000	2403	2603	6145	6145	5743	5818	1303	1508	1705	1835	5	6	2850	3100	2900	3200
	N550	5500	2603	2653	6645	6645	6243	6353	1503	1758	1905	2050	3	6	2670	3000	2750	3100
	N600	6000	2853	3103	7145	7145	6743	6903	1753	2008	2155	2250	3	6	2350	2650	2500	2800
	N650	6500	3103	3353	7645	7645	7243	7353	2003	2258	2405	2550	3	6	2000	2250	2200	2400
	N700	7000	3353	3603	8145	8145	7743	7903	2253	2508	2655	2750	3	6	1600	1800	1800	1950

