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ISO14001:2015



ISO9001:2015



HANGCHA trucks conform  
to the European Safety  
Requirements.

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## XF Series Diesel / Gasoline / LPG Counterbalanced Trucks

with capacities of 1,000 to 3,500kg

The World of Hangcha

STAGE V  
CERTIFIED





# HANGCHA be with you at every stage

Efficient, reliable solutions for your demands



**GCT**

Eco-friendly engines compliant with global emission regulations.

Global standard forklift engines with top-class of output and reliability performance.

ENGINE TYPE	Vertical Inline 4-cylinder • Water cooled • OHV
FUEL	Gasoline • LPG
FUEL SYSTEM	Electronic Controlled, Gasoline : Injector • LPG : Injector
EMISSION REGULATION	CARB SIP LSI-1/ EPA Tier2/ EU STAGE V



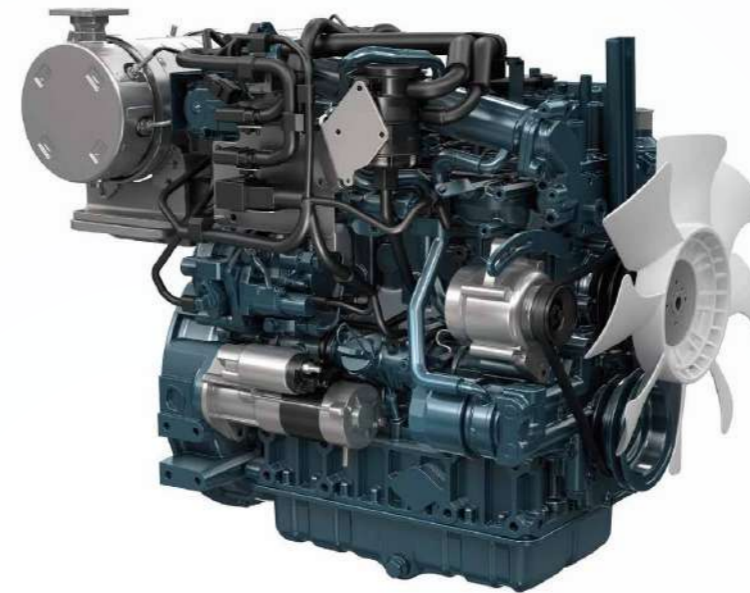
Interactive instrument: The instrument adopts 4.0-inch color LCD display with four interactive buttons, and has one CAN bus communication function. The communication protocol is compatible with CANopen and SAE J1939 standards.

No.	Capacity	Series	Manufacturer	Engine	Drive power	Model	Emission Std.	Transmission	Power (kw/rpm)
1	1.0-1.75t	XF	GCT	GCT GK21LPG EU-StageV CERT	LPG	CPYD15/18-XH1F/B	Stage V	F/OKAMURA	38.4/2700
2	2.0-3.5t	XF	GCT	GCT GK25LPG EU-StageV CERT	LPG	CPYD20/25/30/35-XH3F/B	Stage V	F/OKAMURA	43.4/2700
3	1.5-1.75t	XF	GCT	GCT GK21 LPG 1G001 EKH00	LPG	CPYD15/18-XH23F/B1	CARB SIP LSI-1/ EPA Tier2/ EU STAGE V	F/OKAMURA	43/2700
4	1.5-1.75t	XF	GCT	GCT GK21 DUAL 1G001 ECH00	DUAL LPG/GAS	CPQYD15/18-XH24F/B1		F/OKAMURA	43/2700 40/2700
5	2.0-3.5t	XF	GCT	GCT GK25 LPG 1G001 ELH00	LPG	CPYD20/25/30/35-XH21F/B1		F/OKAMURA	47/2700
6	2.0-3.5t	XF	GCT	GCT GK25 DUAL 1G001 EDH00	DUAL LPG/GAS	CPQYD20/25/30/35-XH22F/B1		F/OKAMURA	47/2700 44.5/2700

Note: Stage V applied for European Union also including Israel and Turkey  
Tier4 Final applied for North American  
F means full floating transmission

# STAGE V & TIER 4F

With Hangcha you can meet all Stage V/Tier 4f emissions standards which provides customer demands for value, innovation and performance. The technologies include common rail fuel systems, diesel oxidation catalysts (DOC) and diesel particulate filters (DPF). Designed and optimised to every engine model, our forklift truck maximises efficiency and reliability.



**KUBOTA**

- **Emissions Compliance**  
Meeting rigid emissions regulations can be a challenge for any company. V2607-CR-E5B engines have been designed to comply with stringent regulations: EU StageV EPA/CARB Tier4 F.
- **Advanced DPF Technology**
- **Clean and Quiet Power**
- **Great Flexibility**



**XINCHAI**

No.	Capacity	Series	Manufacturer	Engine	Drive power	Model	Emission Std.	Transmission	Power (kw/rpm)
1	1.5-3.5t	XF	KUBOTA	V2607-CR-E5B	Diesel	CPCD15/18/20/25/30/35-Xw97F/B1	EU StageV EPA/CARB Tier4 F	F/OKAMURA	37.4/2400
2	2.0-3.5t	XF	KUBOTA	V2607-CR-TE5B	Diesel	CPCD20/25/30/35-Xw98F	EU StageV EPA/CARB Tier4 F	F	47.3/2400
3	1.5-1.75t	XF	XINCHAI	3E22YG51P464	Diesel	CPCD15/18/-XH7F/B1	Stage V	F/OKAMURA	34/2400
4	2.0-3.5t	XF	XINCHAI	3E22YG51	Diesel	CPCD20/25/30/35-XH7F/B1	Stage V	F/OKAMURA	44.8/2400

Note: Stage V applied for European Union also including Israel and Turkey  
Tier4 Final applied for North American  
F means full floating transmission





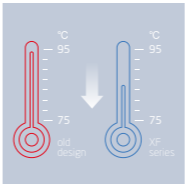
# Productivity

Dynamic load sensing hydraulic steering system, Efficiency lighting system, lower fuel consumption, combine to provide increased productivity and reduced operating costs.

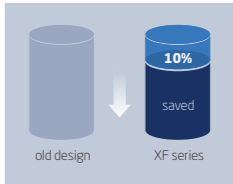
The new Dynamic load sensing hydraulic steering system contributes to reduce loss of hydraulic and improve energy efficiency.

The new efficiency lighting system employs LED illuminant and new type reflector to reduce energy consumption, improve significantly illumination performance and prolong work time.

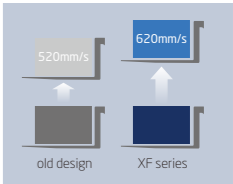
By optimizing transmission design, the power train provides higher efficiency. The fuel consumption is reduced by 10%.



Hydraulic oil balanced temperature (2.5T 4TNE98)



Fuel consumption



Speed at full load (2.5T 4TNE98)

# Comfortable Operation



In developing the new XF Series, comfort and ease of operation is carefully considered, for example, to improve vibration levels, compound engine damper and full floating power train are adopted. Comfortable operating environments for operator also contribute to increased productivity.



In addition to rubber damper between frames and steering axle, compound engine damper and full floating power train achieve flexible connection between frames and driving system, as a result, traveling vibrations and vibrations from the driving system are significantly reduced.



The enlarged capacity of optimized exhaust muffler, the intake muffler and the noise shield technologies provide significantly lower noise levels.

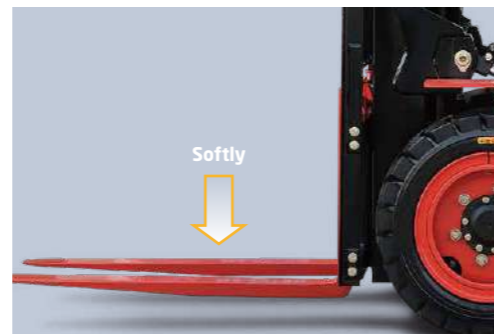
1. The new, relocated easy-to-see LCD meter lets the operator check on all aspects of operational status at a glance.
2. The new automobile-style light/turn-signal lever and forward-reverse lever are ergonomically designed and arranged to improve comfort and productivity.
3. The small diameter steering wheel with tilt adjustment provides the ideal operating position. The superior responsiveness of the steering wheel optimizes maneuverability even in narrow spaces.
4. The parking brake is specially developed. The operational force is reduced by 30%.
5. The automobile-style suspended pedals provide more ergonomic operation.





# Comfortable Operation

Optimal visibility in all directions create the best conditions for high productivity through relaxed and safe working.



The extra foot space is provided to reduce operator fatigue significantly. The new wide-open, non-slip step makes getting in and out easy and safe. The optional Electro-hydraulic proportional control system contributes more sensitive and precise load handling. The easy-to-operate levers provide total load handling operation. An armrest is provided to reduce fatigue.

In addition to the soft landing system, the soft lifting system is adopted (front lifting cylinders of triplex mast and full free duplex mast), as a result, the noise and shock of the mast significantly decreases.

The developed front lifting cylinders with smaller outer diameter give the operator superior forward visibility.

The double lifting cylinders provide better forward visibility.

# Reliability

By focusing on enhancing reliability, reducing downtime, the XF series is able to make the greater productivity for customer.



The new aluminum alloy transmission with full floating structure features excellent heat dissipation capability, more and thicker disc meet the most demanding applications.



The new vehicle controller integrates all electrical components, features excellent durability for temperature, water and vibration for most demanding operation.



The new stamped air cleaner featuring tangential intake, double seal with safety filter is durable, corrosion-free and vibration-resistant, provides better filter efficiency and lower intake resistance than the previous.



XF series features rugged design, stamped frame and engine hood, stamped instrument panel and head guard, heavy profile rail mast combine to provide excellent rigidity, which ensures outstanding reliability even in heavy-duty work.



Extra capacity combined radiator with serpentine wave and optimized heat dissipation channel enhance the heat dissipation capability to keep engine reliability even in heavy-duty applications.

# Easy Maintenance



Careful design facilitates inspection and servicing. Easy maintenance reduces the amount of downtime and helps to reduce cost also.

The cover on the Panel can be lifted up simply to check the brake fluid.

The two-piece design makes the floorboard easy to lift and remove for access to the power train.

The easy-to-operate latch provides quick access to the engine compartment.

The fasteners of the radiator cover can be turned easily by hand to enable quick inspections or servicing.

# Safety

A wide range of technologies are applied to ensure absolute safety for both the operator and those in the surrounding.



1. The operator presence sensing system incorporates lifting/tilting and traveling locking function. When the operator leaves the seat, the system automatically locks lifting / tilting and disables traveling to ensure safety.
2. A throttling device is adopted to avoid the mast being out of control even some pipes are broken.



The locking device of the engine hood damper and parking brake help add to safety.



An optional rear-pillar assist grip with a horn button enhances safety of operator while traveling in reverse.

# Standards

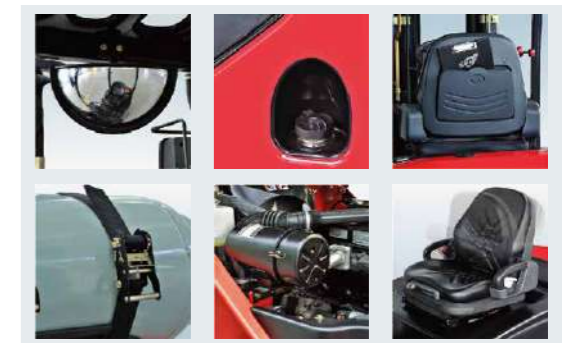
Transmission	Steering	Chassis	Control	Hydraulic
<ul style="list-style-type: none"> <li>/ Suspended transmission</li> <li>/ Oil filter</li> <li>/ Dipstick</li> <li>/ Oil cooler</li> <li>/ Non-asbestos brake</li> <li>/ MS transmission with wet brake</li> </ul>	<ul style="list-style-type: none"> <li>/ Full hydraulic power steering</li> <li>/ Smaller diameter steering wheel</li> <li>/ Adjuster of steering wheel</li> </ul>	<ul style="list-style-type: none"> <li>/ Skidproof pedal</li> <li>/ Rubber pedal</li> <li>/ Engine hood spring</li> </ul>	<ul style="list-style-type: none"> <li>/ Power steering</li> <li>/ Suspension pedal</li> <li>/ Integrated combination switch</li> <li>/ Cable parking brake</li> </ul>	<ul style="list-style-type: none"> <li>/ Dynamic load sensing control valve ( Diesel IC )</li> <li>/ Hydraulic oil filter</li> <li>/ Tilt cylinder self-locking valve</li> <li>/ Hydraulic oil dipstick</li> </ul>
Truck	Power	Electronics	Mast	
<ul style="list-style-type: none"> <li>/ Traction device</li> <li>/ Handhilds</li> <li>/ Standard seat</li> <li>/ Standard overhead guard</li> <li>/ Waterproof cover on the guard</li> <li>/ Back view mirror</li> <li>/ Pneumatic tyres</li> </ul>	<ul style="list-style-type: none"> <li>/ Big capacity aluminum radiator</li> <li>/ Little tank</li> <li>/ Whirlwind air cleaner</li> <li>/ Safety filter</li> <li>/ High-efficient intake muffler</li> <li>/ High-efficient exhaust muffler</li> </ul>	<ul style="list-style-type: none"> <li>/ High-efficient front lights</li> <li>/ High-efficient LED rear lights</li> <li>/ Service-free start battery</li> <li>/ Combination controller</li> <li>/ LCD display</li> <li>/ Neutral switch</li> <li>/ Time meter</li> <li>/ Fuel gauge</li> <li>/ Water temperature gauge</li> <li>/ Pre-heat indicator</li> <li>/ Charging indicator</li> <li>/ Engine fuel pressure warning</li> <li>/ Transmission oil pressure warning</li> <li>/ Horn</li> <li>/ Reversing buzzer</li> <li>/ Power off</li> </ul>	<ul style="list-style-type: none"> <li>/ Standard wide view duplex mast</li> <li>/ Standard forks</li> <li>/ Standard fork carriage</li> <li>/ Standard load back rest</li> <li>/ Mast speed limiting valve</li> <li>/ Load safety valve</li> <li>/ Mast down buffer device</li> <li>/ Mast up buffer device</li> <li>/ Side roller</li> </ul>	

# Options

Truck	Transmission	Power	Hydraulic	Electronics	Mast
<ul style="list-style-type: none"> <li>/ Cabin</li> <li>/ Cabin heater</li> <li>/ Front window</li> <li>/ Super elastic tyre</li> <li>/ No-mark tyre (white/green)</li> <li>/ Suspension seat</li> <li>/ Extinguisher</li> <li>/ Cover of tilt cylinder</li> <li>/ Heightening overhead guard</li> <li>/ Reversing assist grip</li> <li>/ Special given color</li> <li>/ Seat with sensing system</li> <li>/ Boot for tilt cylinder</li> <li>/ Counter weight net</li> <li>/ Toolbox</li> </ul>	<ul style="list-style-type: none"> <li>/ 2-D wheel</li> </ul>	<ul style="list-style-type: none"> <li>/ Dual fuel LPG system</li> <li>/ Big capacity copper radiator</li> <li>/ High-positioned exhaust system</li> <li>/ Middle-positioned exhaust system</li> <li>/ Air pre-cleaner</li> <li>/ Net cover of radiator</li> <li>/ Sparkle arrester</li> <li>/ Purified exhaust system</li> <li>/ Swivel LPG bottle support</li> <li>/ Downward LPG bottle support</li> <li>/ Fan protector</li> </ul>	<ul style="list-style-type: none"> <li>/ Auxiliary hydraulic valve</li> <li>/ Electro-hydraulic proportional control system</li> <li>/ Return oil filter</li> </ul>	<ul style="list-style-type: none"> <li>/ OBD</li> <li>/ Front working light</li> <li>/ Rear working light</li> <li>/ Warning lamp</li> <li>/ Oil-water separator warning</li> </ul>	<ul style="list-style-type: none"> <li>/ Duplex wide view free-lift mast</li> <li>/ Triplex wide view free-lift mast</li> <li>/ Triplex wide view 4-cylinder free-lift mast</li> <li>/ Special forks</li> <li>/ Wider fork carriage</li> <li>/ Wider load back rest</li> </ul>

# Optional Attachments

- / Paper roll clamp
- / Rotating bale clamp
- / Load stabilizer
- / Multi-drum clamp
- / Bale clamp
- / Drum clamp
- / Dumping clamp
- / Crane arm
- / String Pole
- / Sideshifter
- / Rotating forks
- / Fork extensioner
- / Load release device
- / Carton clamp
- / Push-pull device
- / Bucket
- / Hook
- / Lengthened fork









## 1.0~1.75t XF series mast: (pneumatic)

Type	Model	Max. fork height	Overall height				Free lift		Front Overhang		Tilt range		Capacity										
			Lowered	Extended		Without backrest	With backrest	Without backrest	With backrest	1 / 1.5	1.75t	FWD	BWD	Load capacity at 500mm									
				Without backrest	With backrest									1t	1.5t	1.75t	Single tire			Dual tire			
													kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg
Wide view mast	X15M200	2000	1495	2565	2955	155	155	405	410	6	12	1000	1500	1750	1000	1500	1750						
	X15M250	2500	1745	3065	3455	155	155	405	410	6	12	1000	1500	1750	1000	1500	1750						
	X15M270	2700	1845	3265	3655	155	155	405	410	6	12	1000	1500	1750	1000	1500	1750						
	X15M300	3000	1995	3565	3955	155	155	405	410	6	12	1000	1500	1750	1000	1500	1750						
	X15M330	3300	2145	3865	4255	155	155	405	410	6	12	1000	1500	1750	1000	1500	1750						
	X15M350	3500	2245	4065	4455	155	155	405	410	6	12	1000	1500	1750	1000	1500	1750						
	X15M370	3700	2395	4265	4655	155	155	405	410	6	12	1000	1500	1750	1000	1500	1750						
	X15M400	4000	2595	4600	4955	155	155	405	410	6	12	1000	1500	1650	1000	1500	1700						
	X15M430	4300	2745	4900	5255	155	155	405	410	6	6	950	1450	1600	1000	1450	1650						
	X15M450	4500	2845	5100	5455	155	155	405	410	6	6	900	1400	1550	950	1400	1600						
	X15M470	4700	2945	5300	5655	155	155	405	410	6	6	850	1350	1500	900	1350	1550						
	X15M500	5000	3095	5600	5955	155	155	405	410	6	6	800	1300	1450	850	1300	1500						
	X15M550	5500	3345	6100	6455	155	155	405	410	6	6	/	/	/	750	1150	1300						
X15M600	6000	3595	6600	6955	155	155	405	410	6	6	/	/	/	700	1050	1150							
Wide view full free duplex mast	X15U200	2000	1560	2585	2945	975	615	405	410	6	12	1000	1500	1750	1000	1500	1750						
	X15U250	2500	1810	3085	3445	1225	865	405	410	6	12	1000	1500	1750	1000	1500	1750						
	X15U270	2700	1910	3285	3645	1325	965	405	410	6	12	1000	1500	1750	1000	1500	1750						
	X15U300	3000	2010	3490	3850	1425	1065	405	410	6	12	1000	1500	1750	1000	1500	1750						
	X15U330	3300	2160	3795	4155	1525	1165	405	410	6	12	1000	1500	1750	1000	1500	1750						
	X15U350	3500	2260	4005	4415	1625	1265	405	410	6	12	1000	1500	1750	1000	1500	1750						
	X15U370	3700	2360	4215	4625	1725	1365	405	410	6	12	1000	1500	1750	1000	1500	1750						
Wide view full free triplex mast	X15N400	4000	2560	4585	4945	1975	1615	405	410	6	12	1000	1500	1650	1000	1500	1700						
	X15N430	4300	2660	4795	5155	2075	1715	420	425	6	6	900	1400	1550	950	1400	1600						
	X15N450	4500	2760	4905	5365	2175	1815	420	425	6	6	850	1350	1500	900	1350	1550						
	X15N470	4700	2860	5115	5575	2275	1915	420	425	6	6	800	1300	1450	850	1300	1500						
	X15N500	5000	2960	5325	5785	2375	2015	420	425	6	6	750	1250	1400	800	1250	1450						
	X15N550	5500	3270	5945	6305	2685	2325	420	425	6	6	700	1200	1350	750	1200	1300						
	X15N600	6000	3580	6565	6925	2995	2635	420	425	3	6	650	950	1050	700	750	1150						
	X15N650	6500	3890	7185	7565	3305	2945	420	425	3	6	600	700	750	550	600	900						
	X15N700	7000	4200	7805	8185	3615	3255	420	425	3	6	/	/	/	400	550	650						

With sideshifter minus 150kg, with integral sideshifter minus 100kg.

## 2.0~2.5t XF series mast: (pneumatic)

Type	Model	Max. fork height	Overall height				Free lift		Front Overhang		Tilt range		Capacity			
			Lowered	Extended		Without backrest	With backrest	Without backrest	With backrest	FWD	BWD	Load capacity at 500 mm				
				Without backrest	With backrest							2.0t	2.5t	2.0t	2.5t	
													kg	kg	kg	kg
Wide view mast	X25M200	2000	1535	2660	3045	140	140	465	465	6	12	2000	2500	2000	2500	
	X25M250	2500	1785	3160	3545	140	140	465	465	6	12	2000	2500	2000	2500	
	X25M270	2700	1885	3360	3745	140	140	465	465	6	12	2000	2500	2000	2500	
	X25M300	3000	2035	3660	4045	140	140	465	465	6	12	2000	2500	2000	2500	
	X25M330	3300	2185	3960	4345	140	140	465	465	6	12	2000	2500	2000	2500	
	X25M350	3500	2285	4160	4545	140	140	465	465	6	12	2000	2500	2000	2500	
	X25M370	3700	2435	4360	4745	140	140	465	465	6	12	2000	2500	2000	2500	
	X25M400	4000	2635	4660	5045	140	140	465	465	6	12	2000	2500	2000	2500	
	X25M430	4300	2785	4960	5345	140	140	465	465	6	6	1950	2400	2000	2450	
	X25M450	4500	2885	5160	5545	140	140	465	465	6	6	1950	2300	1950	2350	
	X25M470	4700	2985	5360	5745	140	140	465	465	6	6	1850	2250	1900	2300	
	X25M500	5000	3135	5660	6045	140	140	465	465	6	6	1800	2150	1850	2100	
	X25M550	5500	3385	6160	6545	140	140	465	465	3	6	/	/	1600	1900	
X25M600	6000	3635	6660	7045	140	140	465	465	3	6	/	/	1400	1750		
Wide view full free duplex mast	X25U200	2000	1560	2685	3045	880	510	465	465	6	12	2000	2500	2000	2500	
	X25U250	2500	1810	3180	3545	1130	760	465	465	6	12	2000	2500	2000	2500	
	X25U270	2700	1910	3380	3745	1230	860	465	465	6	12	2000	2500	2000	2500	
	X25U300	3000	2010	3580	4045	1330	960	465	465	6	12	2000	2500	2000	2500	
	X25U330	3300	2160	3880	4345	1480	1110	465	465	6	12	2000	2500	2000	2500	
	X25U350	3500	2260	4080	4545	1580	1210	465	465	6	12	2000	2500	2000	2500	
	X25U370	3700	2360	4280	4745	1680	1310	465	465	6	12	2000	2500	2000	2500	
Wide view full free triplex mast	X25N400	4000	2560	4680	5045	1980	1510	465	465	6	12	2000	2450	2000	2500	
	X25N430	4300	2660	4790	5045	1980	955	480	480	6	6	1950	2450	1950	2500	
	X25N450	4500	2760	5000	5345	1980	1055	480	480	6	6	1900	2400	1950	2450	
	X25N470	4700	2860	5200	5545	1980	1155	480	480	6	6	1850	2300	1850	2300	
	X25N500	5000	2960	5380	5745	1980	1255	480	480	6	6	1800	2250	1800	2200	
	X25N550	5500	3270	5965	6365	2290	1510	480	480	3	6	1450	1600	1600	1900	
	X25N600	6000	3580	6545	6925	2600	1765	480	480	3	6	1000	1050	1400	1700	
	X25N650	6500	3890	7130	7515	2910	1995	480	480	3	6	/	/	1200	1450	
	X25N700	7000	4200	7715	8100	3220	2245	480	480	3	6	/	/	1000	1150	

With sideshifter minus 150kg, with integral sideshifter minus 100kg.

## 3.0~3.5t XF series mast: (pneumatic)

Type	Model	Max. fork height	Overall height						Free lift				Front Overhang		Tilt range		Capacity								
			Lowered	Extended		Without backrest	With backrest	Without backrest	With backrest	Without backrest	With backrest	FWD	BWD	Load capacity at 500 mm											
				3.0t	3.5t									3.0t	3.5t	3.0t	3.5t	3.0t	3.5t	3.0t	3.5t				
																		kg	kg	kg	kg	kg	kg	kg	kg
Wide view mast	X30/35M200	2000	1550	1665	2735	2815	3145	3145	145	145	145	145	480	485	6	12	3000	3500	3000	3500					
	X30/35M250	2500	1800	1915	3235	3315	3645	3645	145	145	145	145	480	485	6	12	3000	3500	3000	3500					
	X30/35M270	2700	1900	2015	3435	3515	3845	3845	145	145	145	145	480	485	6	12	3000	3500	3000	3500					
	X30/35M300	3000	2050	2165	3735	3815	4145	4145	145	145	145	145	480	485	6	12	3000	3500	3000	3500					
	X30/35M330	3300	2200	2315	4035	4115	4445	4445	145	145	145	145	480	485	6	12	3000	3500	3000	3500					
	X30/35M350	3500	2300	2415	4235	4315	4645	4645	145	145	145	145	480	485	6	12	3000	3500	3000	3500					
	X30/35M370	3700	2450	2565	4435	4515	4845	4845	145	145	145	145	480	485	6	12	3000	3500	3000	3500					
	X30/35M400	4000	2650	2775	4735	4815	5145	5145	145	145	145	145	480	485	6	12	3000	3500	3000	3500					
	X30/35M430	4300	2800	2885	5035	5115	5445	5445	145	145	145	145	480	485	6	6	3000	3500	3000	3500					
	X30/35M450	4500	2900	2965	5235	5315	5645	5645	145	145	145	145	480	485	6	6	3000	3500	3000	3500					
X30/35M470	4700	3000	3065	5435	5515	5845	5845	145	145	145	145	480	485	6	6	2850	3350	2900	3350						
X30/35M500	5000	3135	3215	5735	5815	6145</																			