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ISO45001  
ISO45001:2018



ISO14001  
ISO14001:2015



ISO9001  
ISO9001:2015



HANGCHA trucks conform  
to the European Safety  
Requirements.



# XE SERIES

DIESEL / GASOLINE / LPG  
COUNTERBALANCED TRUCKS

With capacities of 1,000 to 3,500kg



# HANGCHA be with you at every stage

Efficient, reliable solutions for your demands



## 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

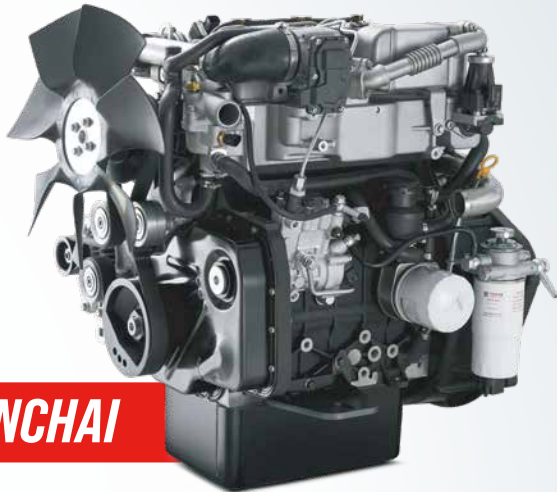
#### ► Emissions Compliance

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   | 1.5-3.5t  | XF     | KUBOTA       | WG2503-GL-E3-HCF-1 | DUAL(GAS/LPG) | /                              | Stage V/ EPA Tier 2/CARB Tier3 | F/OKAMURA    | 43.5/2600                   |
| 4   | 1.5-3.5t  | XF     | KUBOTA       | WG2503-L-E3-HCF-1  | LPG           | /                              | Stage V/ EPA Tier 2/CARB Tier3 | F/OKAMURA    | LPG:43.5/2600 GAS:42.8/2600 |
| 5   | 1.5-1.75t | XF     | XINCHAI      | 3E22YG51P464       | Diesel        | CPCD15/18/-XH7F/B1             | Stage V                        | F/OKAMURA    | 34/2400                     |
| 6   | 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

### 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                       |

| No. | Capacity  | Series | Manufacturer | Engine                     | Drive power  | Model                     | Emission Std.                               | Transmission | Power (kw/rpm)         |
|-----|-----------|--------|--------------|----------------------------|--------------|---------------------------|---------------------------------------------|--------------|------------------------|
| 1   | 1.5-1.75t | 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 16001 EKH00   | LPG          | CPYD15/18-XH23F/B1        | CARB SIP LSI-1/<br>EPA Tier2/<br>EU STAGE V | F/OKAMURA    | 43/2700                |
| 4   | 1.5-1.75t | XF     | GCT          | GCT GK21 DUAL 16001 ECH00  | DUAL LPG/GAS | CPQYD15/18-XH24F/B1       |                                             | F/OKAMURA    | LP:43/2700 G:40/2700   |
| 5   | 2.0-3.5t  | XF     | GCT          | GCT GK25 LPG 16001 ELH00   | LPG          | CPYD20/25/30/35-XH21F/B1  |                                             | F/OKAMURA    | 47/2700                |
| 6   | 2.0-3.5t  | XF     | GCT          | GCT GK25 DUAL 16001 EDH00  | DUAL LPG/GAS | CPQYD20/25/30/35-XH22F/B1 |                                             | F/OKAMURA    | LP:47/2700 G: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



# COMFORTABLE OPERATION

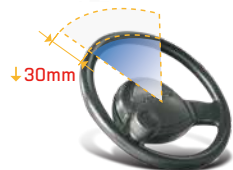
Optimal visibility in all directions create the best conditions for high productivity through relaxed and safe working.



► The new, relocated easy- to-see LCD meter lets the operator check on all aspects of operational status at a glance.



► The new automobile-style light/turn-signal lever and forward-reverse lever are ergonomically designed and arranged to improve comfort and productivity.



► 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.



► The parking brake is specially developed. The operational force is reduced by 30%.



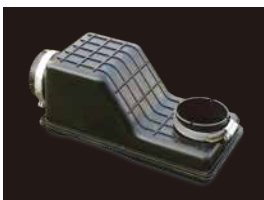
► The automobile-style suspended pedals provide more ergonomic operation.



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.

► 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.



The new wide-open, non-slip step makes getting in and out easy and safe.

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

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

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



**SOFTLY**

► 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.

**WIDER**

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

**WIDER**

**WIDER 90%**

► The extra foot space is provided to reduce operator fatigue significantly.



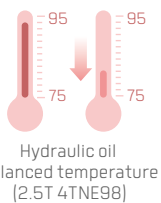
# PRODUCTIVITY

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

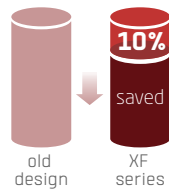


Interactive instrument: The instrument adopts 4.0-inch color LCD display with four interactive buttons, and has one CAN bus communication function. The communication protocol is compatible with CANopen and SAE J1939 standards.

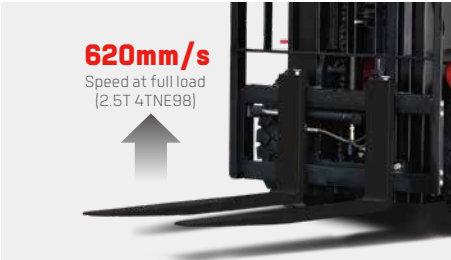
The new Dynamic load sensing hydraulic steering system contributes to reduce loss of hydraulic and improve energy efficiency.



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



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



# SAFETY

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



► 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.



► 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.

► A throttling device is adopted to avoid the mast being out of control even some pipes are broken.

# 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 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.



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



► 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.



► 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.



Features

| Truck                                              | Standard | Options |
|----------------------------------------------------|----------|---------|
| PVC ceiling                                        | ●        |         |
| Multifunctional interactive instruments(EU StageV) | ●        |         |
| Wide-view rearview mirror                          | ●        |         |
| Tilt Cylinder Boot                                 | ●        |         |
| Combination LED lighting system                    | ●        |         |
| Steering wheel adjusting device                    | ●        |         |
| Traction pin                                       | ●        |         |
| Counterweight grille cover                         | ●        |         |
| Dual front wheel                                   |          | ○       |
| Perforated overhead guard                          |          | ○       |
| Cab                                                |          | ○       |
| Additional L/R rearview mirrors                    |          | ○       |
| Heater                                             |          | ○       |
| Fire extinguisher (1kg)                            |          | ○       |
| Front windshield and wiper                         |          | ○       |
| Fully-suspended seat                               |          | ○       |
| Customer paint                                     |          | ○       |
| External spark extinguisher                        |          | ○       |
| LED rear working light                             |          | ○       |
| Solid tire                                         |          | ○       |
| Rotating handle of water tank lid                  |          | ○       |
| Fan                                                |          | ○       |
| Fuel tank cap with lock                            |          | ○       |
| Right rear armrest with horn button                |          | ○       |
| Reinforced wheel rim                               |          | ○       |
| Steering                                           |          |         |
| Wet braking drive axle                             |          | ○       |
| Chassiss                                           |          |         |
| Skidproof pedal                                    | ●        |         |
| Rubber pedal                                       | ●        |         |
| Engine hood spring                                 | ●        |         |
| Control                                            |          |         |
| Mechanical handbrake                               | ●        |         |
| Integrated combination switch                      | ●        |         |
| Fingertip system                                   |          | ○       |
| Multi-segment adjustable speed limit               |          | ○       |
| Hydraulic                                          |          |         |
| Electro-hydraulic steering                         | ●        |         |
| Hydraulic oil recycling filter                     | ●        |         |
| Speed limiting valve of the mast                   | ●        |         |
| 2nd valve                                          | ●        |         |
| 5th valve                                          |          | ○       |
| Power                                              |          |         |
| High-efficiency air intake silencer                | ●        |         |
| Fan protection device                              | ●        |         |
| Dissipater grille cover                            |          | ○       |
| Dual air filter                                    |          | ○       |
| High-position exhauster                            |          | ○       |
| Electronics                                        |          |         |
| Low-temperature starting battery                   | ●        |         |
| OPS system                                         |          | ○       |
| Blue light                                         |          | ○       |
| Audible and visual alarm                           |          | ○       |

| Mast                       | Standard | Options |
|----------------------------|----------|---------|
| Duplex mast                | ●        |         |
| Full free duplex mast      |          | ○       |
| Triplex mast               |          | ○       |
| Wider fork carriage        |          | ○       |
| Heightened load backrest   |          | ○       |
| Different length of fork   |          | ○       |
| Transmission               |          |         |
| Fully-suspended gearbox    | ●        |         |
| High-efficiency air filter | ●        |         |
| Low-noise gear pump        |          | ○       |
| Attachments                |          |         |
| Paper roll clamp           |          | ○       |
| Sideshifter                |          | ○       |
| Soft package clamp         |          | ○       |
| Carton clamp               |          | ○       |
| Rotatable roll clamp       |          | ○       |
| Rotating fork              |          | ○       |
| Oil barrel clamp           |          | ○       |
| Push-pull device           |          | ○       |
| Load stabilizer            |          | ○       |
| Fork sleeve                |          | ○       |
| Tipping clamp              |          | ○       |
| Bucket                     |          | ○       |
| Multi-purpose barrel clamp |          | ○       |
| Crane arm                  |          | ○       |
| Hook                       |          | ○       |
| String Pole                |          | ○       |
| Weighing system            |          | ○       |
| Special fork               |          | ○       |

Technical data

|                     |                                       |                                                                          |            |                        |                       |                 |                        |                       |                 |                       |                       |                  |                       |                  |                       |                  |                       |                  |  |
|---------------------|---------------------------------------|--------------------------------------------------------------------------|------------|------------------------|-----------------------|-----------------|------------------------|-----------------------|-----------------|-----------------------|-----------------------|------------------|-----------------------|------------------|-----------------------|------------------|-----------------------|------------------|--|
| Distinguishing mark | 1.1                                   | Manufacturer                                                             |            | HANGCHA GROUP CO.,LTD. |                       |                 |                        |                       |                 |                       |                       |                  |                       |                  |                       |                  |                       |                  |  |
|                     | 1.2                                   | Manufacturer's type designation                                          |            | CPCD10-XW32F/B         | CPYD15-XH1F/B         | CPCD15-XH7F/B1  | CPCD15-XW97F/B1        | CPYD18-XH1F/B         | CPCD18-XH7F/B1  | CPCD18-XW97F/B1       | CPYD20-XH3F/B         | CPCD20-XH7F/B1   | CPYD25-XH3F/B         | CPCD25-XH7F/B1   | CPYD30-XH3F/B         | CPCD30-XH7F/B1   | CPYD35-XH3F/B         | CPCD35-XH7F/B1   |  |
|                     | 1.3                                   | Drive: electric (battery or mains), diesel, petrol, fuel gas             |            | Diesel                 | LPG                   | Diesel          | Diesel                 | LPG                   | Diesel          | Diesel                | LPG                   | Diesel           | LPG                   | Diesel           | LPG                   | Diesel           | LPG                   | Diesel           |  |
|                     | 1.5                                   | Rated capacity /rated load                                               | Q (kg)     | 1000                   | 1500                  | 1500            | 1500                   | 1750                  | 1750            | 1750                  | 2000                  | 2000             | 2500                  | 2500             | 3000                  | 3000             | 3500                  | 3500             |  |
|                     | 1.6                                   | Load centre distance                                                     | c(mm)      | 500                    | 500                   | 500             | 500                    | 500                   | 500             | 500                   | 500                   | 500              | 500                   | 500              | 500                   | 500              | 500                   | 500              |  |
|                     | 1.8                                   | Load distance, centre of drive axle to fork                              | x(mm)      | 405                    | 405                   | 405             | 405                    | 405                   | 405             | 405                   | 465                   | 465              | 465                   | 465              | 480                   | 480              | 485                   | 485              |  |
|                     |                                       | Rear overhang                                                            | mm         | 375                    | 405                   | 405             | 405                    | 430                   | 430             | 430                   | 415                   | 415              | 490                   | 490              | 550                   | 550              | 615                   | 615              |  |
| 1.9                 | Wheelbase                             | y(mm)                                                                    | 1475       | 1475                   | 1475                  | 1475            | 1475                   | 1475                  | 1475            | 1650                  | 1650                  | 1650             | 1650                  | 1700             | 1700                  | 1700             | 1700                  |                  |  |
| Weight              | 2.1                                   | Service Weight                                                           | kg         | 2510                   | 2650                  | 2650            | 2650                   | 2765                  | 2765            | 2765                  | 3405                  | 3405             | 3765                  | 3765             | 4350                  | 4350             | 4705                  | 4705             |  |
|                     | 2.2                                   | Axle loading, laden front/rear                                           | kg         | 3055/455               | 3660/490              | 3660/490        | 3660/490               | 3995/520              | 3995/520        | 3995/520              | 4705/700              | 4705/700         | 5475/790              | 5475/790         | 6450/900              | 6450/900         | 7255/950              | 7255/950         |  |
|                     | 2.3                                   | Axle loading, unladen front/rear                                         | kg         | 1260/1250              | 1240/1410             | 1240/1410       | 1240/1410              | 1225/1540             | 1225/1540       | 1225/1540             | 1610/1795             | 1610/1795        | 1560/2205             | 1560/2205        | 1750/2600             | 1750/2600        | 1720/2985             | 1720/2985        |  |
| Tyres, chassis      | 3.2                                   | Tyre size, front                                                         |            | 6.50-10-10PR           | 6.50-10-10PR          | 6.50-10-10PR    | 6.50-10-10PR           | 6.50-10-10PR          | 6.50-10-10PR    | 6.50-10-10PR          | 7.00-12-12PR          | 7.00-12-12PR     | 7.00-12-12PR          | 7.00-12-12PR     | 28x9-15-14PR          | 28x9-15-14PR     | 28x9-15-14PR          | 28x9-15-14PR     |  |
|                     | 3.3                                   | Tyre size, rear                                                          |            | 5.00-8-10PR            | 5.00-8-10PR           | 5.00-8-10PR     | 5.00-8-10PR            | 5.00-8-10PR           | 5.00-8-10PR     | 5.00-8-10PR           | 6.00-9-10PR           | 6.00-9-10PR      | 6.00-9-10PR           | 6.00-9-10PR      | 6.50-10-10PR          | 6.50-10-10PR     | 6.50-10-10PR          | 6.50-10-10PR     |  |
|                     | 3.6                                   | Tread, front                                                             | b10 (mm)   | 900                    | 900                   | 900             | 900                    | 900                   | 900             | 900                   | 965                   | 965              | 965                   | 965              | 1005                  | 1005             | 1005                  | 1005             |  |
| 3.7                 | Tread, rear                           | b11 (mm)                                                                 | 920        | 920                    | 920                   | 920             | 920                    | 920                   | 920             | 973                   | 973                   | 973              | 973                   | 975              | 975                   | 975              | 975                   |                  |  |
| Dimensions          | 4.1                                   | Tilt of mast/ fork carriage forward/backward                             | α/β(°)     | 6/12                   | 6/12                  | 6/12            | 6/12                   | 6/12                  | 6/12            | 6/12                  | 6/12                  | 6/12             | 6/12                  | 6/12             | 6/12                  | 6/12             | 6/12                  | 6/12             |  |
|                     | 4.2                                   | Height, mast lowered                                                     | h1 (mm)    | 1995                   | 1995                  | 1995            | 1995                   | 1995                  | 1995            | 1995                  | 2035                  | 2035             | 2035                  | 2035             | 2050                  | 2050             | 2165                  | 2165             |  |
|                     | 4.3                                   | Free lift                                                                | h2 (mm)    | 155                    | 155                   | 155             | 155                    | 155                   | 155             | 155                   | 140                   | 140              | 140                   | 140              | 145                   | 145              | 145                   | 145              |  |
|                     | 4.4                                   | Lift                                                                     | h3 (mm)    | 3000                   | 3000                  | 3000            | 3000                   | 3000                  | 3000            | 3000                  | 3000                  | 3000             | 3000                  | 3000             | 3000                  | 3000             | 3000                  | 3000             |  |
|                     | 4.5                                   | Height, mast extended                                                    | h4 (mm)    | 3955                   | 3955                  | 3955            | 3955                   | 3955                  | 3955            | 3955                  | 4045                  | 4045             | 4045                  | 4045             | 4145                  | 4145             | 4145                  | 4145             |  |
|                     | 4.7                                   | Height of overhead guard (cabin)                                         | h6 (mm)    | 2125(2205*)            | 2125(2205*)           | 2125(2205*)     | 2125(2205*)            | 2125(2205*)           | 2125(2205*)     | 2125(2205*)           | 2135(2215*)           | 2135(2215*)      | 2135(2215*)           | 2135(2215*)      | 2150(2230*)           | 2150(2230*)      | 2150(2230*)           | 2150(2230*)      |  |
|                     | 4.20                                  | Length to face of forks                                                  | l2 (mm)    | 2255                   | 2285                  | 2285            | 2285                   | 2310                  | 2310            | 2310                  | 2530                  | 2530             | 2605                  | 2605             | 2730                  | 2730             | 2800                  | 2800             |  |
|                     | 4.21                                  | Overall width                                                            | b1 (mm)    | 1080                   | 1080                  | 1080            | 1080                   | 1080                  | 1080            | 1080                  | 1155                  | 1155             | 1155                  | 1155             | 1225                  | 1225             | 1225                  | 1225             |  |
|                     | 4.22                                  | Fork dimensions                                                          | s/e/l (mm) | 35x100x920             | 35x100x920            | 35x100x920      | 35x100x920             | 35x100x920            | 35x100x920      | 35x100x920            | 40x122x1070           | 40x122x1070      | 40x122x1070           | 40x122x1070      | 45x122x1070           | 45x122x1070      | 50x122x1070           | 50x122x1070      |  |
|                     | 4.24                                  | Fork-carriage width                                                      | b3 (mm)    | 1000                   | 1000                  | 1000            | 1000                   | 1000                  | 1000            | 1000                  | 1038                  | 1038             | 1038                  | 1038             | 1100                  | 1100             | 1100                  | 1100             |  |
|                     | 4.25                                  | Distance between fork-arms                                               | mm         | 200-1000               | 200-1000              | 200-1000        | 200-1000               | 200-1000              | 200-1000        | 200-1000              | 244-1038              | 244-1038         | 244-1038              | 244-1038         | 244-1100              | 244-1100         | 244-1100              | 244-1100         |  |
|                     | 4.31                                  | Ground clearance, laden, below mast                                      | m1 (mm)    | 115                    | 115                   | 115             | 115                    | 115                   | 115             | 115                   | 115                   | 115              | 115                   | 115              | 130                   | 130              | 130                   | 130              |  |
| 4.32                | Ground clearance, centre of wheelbase | m2 (mm)                                                                  | 140        | 140                    | 140                   | 140             | 140                    | 140                   | 140             | 150                   | 150                   | 150              | 150                   | 165              | 165                   | 165              | 165                   |                  |  |
| 4.35                | Turning radius                        | Wa (mm)                                                                  | 1965       | 1990                   | 1990                  | 1990            | 2015                   | 2015                  | 2015            | 2180                  | 2180                  | 2245             | 2245                  | 2340             | 2340                  | 2415             | 2415                  |                  |  |
| Performance data    |                                       | Min. right angle stacking aisle width<br>(Add load length and clearance) | mm         | 2370                   | 2395                  | 2395            | 2395                   | 2420                  | 2420            | 2420                  | 2645                  | 2645             | 2710                  | 2710             | 2835                  | 2835             | 2900                  | 2900             |  |
|                     | 5.1                                   | Travel speed, laden/unladen                                              | km/h       | 18/19                  | 17/18                 | 19/20           | 18/19                  | 17/18                 | 19/20           | 18/19                 | 18/19                 | 18/19            | 18/19                 | 18/19            | 17/18                 | 18/19            | 17/18                 | 18/19            |  |
|                     | 5.2                                   | Lift speed, laden/unladen                                                | m/s        | 0.58/0.60              | 0.53/0.55             | 0.58/0.60       | 0.58/0.60              | 0.53/0.55             | 0.58/0.60       | 0.58/0.60             | 0.56/0.58             | 0.60/0.62        | 0.56/0.58             | 0.60/0.62        | 0.51/0.54             | 0.48/0.51        | 0.46/0.49             | 0.42/0.45        |  |
|                     | 5.3                                   | Lowering speed, laden/unladen                                            | m/s        | 0.45/0.50              | 0.45/0.50             | 0.45/0.50       | 0.45/0.50              | 0.45/0.50             | 0.45/0.50       | 0.45/0.50             | 0.45/0.50             | 0.45/0.50        | 0.45/0.50             | 0.45/0.50        | 0.45/0.50             | 0.45/0.50        | 0.45/0.50             | 0.45/0.50        |  |
|                     | 5.5                                   | Drawbar pull, laden/unladen                                              | N          | 14600/10000            | 14600/10000           | 14500/10000     | 16800/10000            | 14600/10000           | 14500/10000     | 16800/10000           | 18700/12500           | 19500/12500      | 18700/12500           | 19500/12500      | 19800/14000           | 20500/14000      | 19800/14000           | 20500/14000      |  |
| 5.7                 | Gradeability, laden/unladen*          | %                                                                        | 31/25      | 27/25                  | 27/25                 | 30/25           | 24/25                  | 24/25                 | 28/25           | 26/25                 | 27/25                 | 23/25            | 24/25                 | 21/22            | 23/22                 | 20/22            | 21/22                 |                  |  |
| Combustion- engine  | 7.1                                   | Engine manufacturer /type                                                |            | YANMAR/4TNE92          | GCT GK21LP6 EU StageV | 3E22YG51P464    | KUBOTA V2607-CR-E5B    | GCT GK21LP6 EU StageV | 3E22YG51P464    | KUBOTA V2607-CR-E5B   | GCT GK25LP6 EU StageV | XINCHAI 3E22YG51 | GCT GK25LP6 EU StageV | XINCHAI 3E22YG51 | GCT GK25LP6 EU StageV | XINCHAI 3E22YG51 | GCT GK25LP6 EU StageV | XINCHAI 3E22YG51 |  |
|                     |                                       | Emission STD                                                             |            | EU StageIIIA/EPA Tier3 | EU StageV             | EU StageV       | EU StageV/ EPA Tier4 F | EU StageV             | EU StageV       | EU StageV/EPA Tier4 F | EU StageV             | EU StageV        | EU StageV             | EU StageV        | EU StageV             | EU StageV        | EU StageV             | EU StageV        |  |
|                     | 7.2                                   | Engine power according to DIN ISO 1585                                   | kw         | 32.8                   | 38.4                  | 34              | 37                     | 38.4                  | 34              | 37                    | 43.4                  | 44.8             | 43.4                  | 44.8             | 43.4                  | 44.8             | 43.4                  | 44.8             |  |
|                     | 7.3                                   | Rated speed                                                              | min        | 2450                   | 2700                  | 2400            | 2400                   | 2700                  | 2400            | 2400                  | 2700                  | 2400             | 2700                  | 2400             | 2700                  | 2400             | 2700                  | 2400             |  |
|                     | 7.4                                   | Number of cylinders/displacement                                         | (-)/[cm³]  | 4/2659                 | 4/2065                | 3/2227          | 4/2615                 | 4/2065                | 3/2227          | 4/2615                | 4/2488                | 3/2227           | 4/2488                | 3/2227           | 4/2488                | 3/2227           | 4/2488                | 3/2227           |  |
|                     | 7.10                                  | Battery voltage/nominal capacity                                         | V/Ah       | 12/60                  | 12/60                 | 12/90           | 12/90                  | 12/60                 | 12/90           | 12/90                 | 12/60                 | 12/90            | 12/60                 | 12/90            | 12/60                 | 12/90            | 12/60                 | 12/90            |  |
|                     |                                       | Rated torque                                                             | N·m/r/min  | 142/1600               | 151/1600              | 150/1600-1800   | 171.5/1500             | 151/1600              | 150/1600-1800   | 171.5/1500            | 188/1600              | 210/1600-1800    | 188/1600              | 210/1600-1800    | 188/1600              | 210/1600-1800    | 188/1600              | 210/1600-1800    |  |
|                     |                                       | Bore × stroke                                                            | mm         | 92x100                 | 89x83                 | 94x107          | 87x110                 | 89x83                 | 94x107          | 87x110                | 89x100                | 94x107           | 89x100                | 94x107           | 89x100                | 94x107           | 89x100                | 94x107           |  |
|                     |                                       | Transmissions Manufacturer                                               |            | HANGCHA/OKAMURA        | HANGCHA/OKAMURA       | HANGCHA/OKAMURA | HANGCHA/OKAMURA        | HANGCHA/OKAMURA       | HANGCHA/OKAMURA | HANGCHA/OKAMURA       | HANGCHA/OKAMURA       | HANGCHA/OKAMURA  | HANGCHA/OKAMURA       | HANGCHA/OKAMURA  | HANGCHA/OKAMURA       | HANGCHA/OKAMURA  | HANGCHA/OKAMURA       | HANGCHA/OKAMURA  |  |
|                     |                                       | Transmissions Type                                                       |            | Powershift             | Powershift            | Powershift      | Powershift             | Powershift            | Powershift      | Powershift            | Powershift            | Powershift       | Powershift            | Powershift       | Powershift            | Powershift       | Powershift            | Powershift       |  |
| Addition data       |                                       | Stage FWD/RVS                                                            |            | 1/1                    | 1/1                   | 1/1             | 1/1                    | 1/1                   | 1/1             | 1/1                   | 1/1                   | 1/1              | 1/1                   | 1/1              | 1/1                   | 1/1              | 1/1                   | 1/1              |  |
|                     | 10.1                                  | Operating pressure for attachments                                       | bar        | 145                    | 145                   | 145             | 145                    | 145                   | 145             | 145                   | 175                   | 175              | 175                   | 175              | 175                   | 175              | 175                   | 175              |  |
|                     | 10.4                                  | Fuel tank capacity                                                       | liter      | 50                     | 35                    | 50              | 50                     | 35                    | 50              | 50                    | 60                    | 60               | 50                    | 60               | 50                    | 70               | 50                    | 70               |  |

Note: \*With suspension seat or cabin  
\*As a calculated value

Optional Engine / Transmission

|                           |                                  |                |            |            |                            |                            |                 |           |                |           |                          |                       |                 |                   |                |                          |                        |                   |                          |                        |                  |                              |                                   |                                   |            |            |                  |                           |                           |            |          |
|---------------------------|----------------------------------|----------------|------------|------------|----------------------------|----------------------------|-----------------|-----------|----------------|-----------|--------------------------|-----------------------|-----------------|-------------------|----------------|--------------------------|------------------------|-------------------|--------------------------|------------------------|------------------|------------------------------|-----------------------------------|-----------------------------------|------------|------------|------------------|---------------------------|---------------------------|------------|----------|
| Engine                    | Engine manufacturer/type         |                | GCT / GK21 |            |                            |                            | YANMAR / 4TNE92 |           | GCT / GK21 LPG |           | GCT / GK21 LPG EU StageV | KUBOTA / V2607-CR-E5B | YANMAR / 4TNE98 | XINCHAI / A498BT1 | GCT / GK25 LPG | GCT / GK25               | MITSUBISHI / S4S-DPEU2 | ISUZU / 4JG2PE-01 | GCT / GK25 LPG EU StageV | XINCHAI / 3E22YG51P464 | XINCHAI 3E22YG51 | KUBOTA V2607-CR-TE5B         | KUBOTA / WG2503-GL-E3-HCF-11      | KUBOTA / WG2503-L-E3-HCF-11       | GCT / GK25 | GCT / GK25 | GCT / GK25       | GCT / GK25                | GCT / GK25                | GCT / GK25 |          |
|                           | Manufacturer's type designation  |                | W21        |            |                            |                            | W32             |           | W51            |           | H1                       | W97                   | W33             | W27               | W52            | W22                      | W55                    | W13               | H3                       | H7                     | H7               | W98                          | H30                               | H31                               | H27R       | H27        | H28R             | H28                       | H29R                      | H29        |          |
|                           | Drive                            |                |            | Gasoline   | Gasoline / DUAL FUEL / LPG | Gasoline / DUAL FUEL / LPG | Diesel          |           | LPG            |           | LPG                      | Diesel                | Diesel          | Diesel            | LPG            | Gasoline DUAL FUEL / LPG | Diesel                 | Diesel            | LPG                      | Diesel                 | Diesel           | Diesel                       | DUAL (GAS / LPG)                  | LPG                               | LPG        | LPG        | DUAL (LPG / GAS) | DUAL (LPG / GAS)          | Gasoline                  | Gasoline   |          |
|                           | Emission STD                     |                |            |            | --                         |                            | StageIIIA       |           | --             |           | EU StageV                | Stage V / Tier 4F     | StageIIIA       | StageIIIA         | --             | --                       | StageIIIA              | StageII           | EU StageV                | EU StageV              | EU StageV        | EU StageV EPA / CARB Tier4 F | Stage V / EPA Tier 2 / CARB Tier3 | Stage V / EPA Tier 2 / CARB Tier3 | /          | /          | /                | /                         | /                         | /          |          |
|                           | Engine power                     |                | kW/r/min   | 31.2/2250  |                            |                            |                 | 32.8/2450 |                | 29/2250   |                          | 38.4/2700             | 37.4/2400       | 42.1/2300         | 36.8/2400      | 35/2400                  | 37.4/2300              | 35.3/2250         | 46/2450                  | 43.4/2700              | 34/2400          | 44.8/2400                    | 47.3/2400                         | LPG:43.5/2600 GAS:42.8/2600       | 43.5/2600  | 35/2700    | 43/2700          | LPG:35/2700 GAS:35/2700   | LPG:43/2700 GAS:43/2700   | 35/2700    | 46/2700  |
|                           | Rated torque                     |                | N.m/r/min  | 143.7/1600 |                            |                            |                 | 149/1600  |                | 140/1600  |                          | 151/1600              | 171.5/1500      | 206/1700          | 186/1600-1800  | 170/1600                 | 176.5/1600             | 177/1700          | 186/1700±100             | 183.5/1600             | 150/1600-1800    | 210/1600-1800                | 221.7/1500                        | LPG:175/1200 GAS:167.6/1800       | 175/1200   | 150/1600   | 181/1600         | LPG:150/1800 GAS:150/1600 | LPG:181/1600 GAS:171/1800 | 150/1600   | 173/1800 |
|                           | Number of cylinders/displacement |                | ml         | 4/2065     |                            |                            |                 | 4/2659    |                | 4/2065    |                          | 4/2065                | 4/2615          | 4/3319            | 4/3168         | 4/2488                   | 4/2488                 | 4/3331            | 4/3059                   | 4/2488                 | 3/2227           | 3/2230                       | 4/2615                            | 4/2491                            | 4/2491     | 4/2488     | 4/2488           | 4/2488                    | 4/2488                    | 4/2488     | 4/2488   |
| Transmission              | Powershift                       | F[CHINA]       | F          | ✓          | ✓                          | ✓                          | ✓               | ✓         | ✓              | ✓         | ✓                        | ✓                     | ✓               | ✓                 | ✓              | ✓                        | ✓                      | ✓                 | ✓                        | ✓                      | ✓                | ✓                            | ✓                                 | ✓                                 | ✓          | ✓          | ✓                | ✓                         | ✓                         | ✓          |          |
|                           |                                  | OKAMURA[JAPAN] | B1         | ✓          | ✓                          | ✗                          | ✓               | ✗         | ✓              | ✗         | ✓                        | ✓                     | ✓               | ✗                 | ✓              | ✓                        | ✓                      | ✗                 | ✓                        | ✓                      | ✗                | ✓                            | ✓                                 | ✓                                 | ✓          | ✓          | ✓                | ✓                         | ✓                         | ✓          |          |
| Rated capacity/rated load |                                  |                | Q [kg]     | 1000       | 1500-1750                  | 2000                       | 1000-1750       | 2000-2500 | 1500-1750      | 2000-2500 | 1500-1750                | 1500-3500             | 2000-3500       | 2000-3500         | 2000-3500      | 2000-3500                | 2000-3500              | 3000-3500         | 2000-3500                | 1500-1800              | 2000-3500        | 2000-3500                    | 1500-3500                         | 1500-3500                         | 1500-2500  | 2000-3500  | 1500-2500        | 2000-3500                 | 1500-2500                 | 2000-3500  |          |



Technical data

|                     |      |                                                                          |            |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |  |
|---------------------|------|--------------------------------------------------------------------------|------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--|
| Distinguishing mark | 1.1  | Manufacturer                                                             |            | HANGCHA GROUP CO.,LTD.           |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |  |
|                     | 1.2  | Manufacturer's type designation                                          |            | CPYD15-XH23F/B1                  | CPYD18-XH23F/B1                  | CPYD20-XH21F/B1                  | CPYD25-XH21F/B1                  | CPYD30-XH21F/B1                  | CPYD35-XH21F/B1                  | CPQYD15-XH24F/B1                 | CPQYD18-XH24F/B1                 | CPQYD20-XH22F/B1                 | CPQYD25-XH22F/B1                 | CPQYD30-XH22F/B1                 | CPQYD35-XH22F/B1                 |  |
|                     | 1.3  | Drive: electric (battery or mains), diesel, petrol, fuel gas             |            | LPG                              | LPG                              | LPG                              | LPG                              | LPG                              | LPG                              | LPG/GAS                          | LPG/GAS                          | LPG/GAS                          | LPG/GAS                          | LPG/GAS                          | LPG/GAS                          |  |
|                     | 1.5  | Rated capacity/rated load                                                | Q (kg)     | 1500                             | 1750                             | 2000                             | 2500                             | 3000                             | 3500                             | 1500                             | 1750                             | 2000                             | 2500                             | 3000                             | 3500                             |  |
|                     | 1.6  | Load centre distance                                                     | c(mm)      | 500                              | 500                              | 500                              | 500                              | 500                              | 500                              | 500                              | 500                              | 500                              | 500                              | 500                              | 500                              |  |
|                     | 1.8  | Load distance, centre of drive axle to fork                              | x(mm)      | 405                              | 405                              | 465                              | 465                              | 480                              | 485                              | 405                              | 405                              | 465                              | 465                              | 480                              | 485                              |  |
| Weight              |      | Rear overhang                                                            | mm         | 405                              | 430                              | 415                              | 490                              | 550                              | 615                              | 405                              | 430                              | 415                              | 490                              | 550                              | 615                              |  |
|                     | 1.9  | Wheelbase                                                                | y(mm)      | 1475                             | 1475                             | 1650                             | 1650                             | 1700                             | 1700                             | 1475                             | 1475                             | 1650                             | 1650                             | 1700                             | 1700                             |  |
|                     | 2.1  | Service Weight                                                           | kg         | 2650                             | 2765                             | 3405                             | 3765                             | 4350                             | 4705                             | 2650                             | 2765                             | 3405                             | 3765                             | 4350                             | 4705                             |  |
| Tyres, chassis      | 2.2  | Axle loading, laden front/rear                                           | kg         | 3660/490                         | 3995/520                         | 4705/700                         | 5475/790                         | 6450/900                         | 7255/950                         | 3660/490                         | 3995/520                         | 4705/700                         | 5475/790                         | 6450/900                         | 7255/950                         |  |
|                     | 2.3  | Axle loading, unladen front/rear                                         | kg         | 1240/1410                        | 1225/1540                        | 1610/1795                        | 1560/2205                        | 1750/2600                        | 1720/2985                        | 1240/1410                        | 1225/1540                        | 1610/1795                        | 1560/2205                        | 1750/2600                        | 1720/2985                        |  |
|                     | 3.2  | Tyre size, front                                                         |            | 6.50-10-10PR                     | 6.50-10-10PR                     | 7.00-12-12PR                     | 7.00-12-12PR                     | 28x9-15-14PR                     | 28x9-15-14PR                     | 6.50-10-10PR                     | 6.50-10-10PR                     | 7.00-12-12PR                     | 7.00-12-12PR                     | 28x9-15-14PR                     | 28x9-15-14PR                     |  |
| Dimensions          | 3.3  | Tyre size, rear                                                          |            | 5.00-8-10PR                      | 5.00-8-10PR                      | 6.00-9-10PR                      | 6.00-9-10PR                      | 6.50-10-10PR                     | 6.50-10-10PR                     | 5.00-8-10PR                      | 5.00-8-10PR                      | 6.00-9-10PR                      | 6.00-9-10PR                      | 6.50-10-10PR                     | 6.50-10-10PR                     |  |
|                     | 3.6  | Tread, front                                                             | b10 (mm)   | 900                              | 900                              | 965                              | 965                              | 1005                             | 1005                             | 900                              | 900                              | 965                              | 965                              | 1005                             | 1005                             |  |
|                     | 3.7  | Tread, rear                                                              | b11 (mm)   | 920                              | 920                              | 973                              | 973                              | 975                              | 975                              | 920                              | 920                              | 973                              | 973                              | 975                              | 975                              |  |
|                     | 4.1  | Tilt of mast/fork carriage forward/backward                              | α/β(°)     | 6/12                             | 6/12                             | 6/12                             | 6/12                             | 6/12                             | 6/12                             | 6/12                             | 6/12                             | 6/12                             | 6/12                             | 6/12                             | 6/12                             |  |
|                     | 4.2  | Height, mast lowered                                                     | h1 (mm)    | 1995                             | 1995                             | 2035                             | 2035                             | 2050                             | 2165                             | 1995                             | 1995                             | 2035                             | 2035                             | 2050                             | 2165                             |  |
|                     | 4.3  | Free lift                                                                | h2 (mm)    | 155                              | 155                              | 140                              | 140                              | 145                              | 145                              | 155                              | 155                              | 140                              | 140                              | 145                              | 145                              |  |
|                     | 4.4  | Lift                                                                     | h3 (mm)    | 3000                             | 3000                             | 3000                             | 3000                             | 3000                             | 3000                             | 3000                             | 3000                             | 3000                             | 3000                             | 3000                             | 3000                             |  |
|                     | 4.5  | Height, mast extended                                                    | h4 (mm)    | 3955                             | 3955                             | 4045                             | 4045                             | 4145                             | 4145                             | 3955                             | 3955                             | 4045                             | 4045                             | 4145                             | 4145                             |  |
|                     | 4.7  | Height of overhead guard (cabin)                                         | h6 (mm)    | 2125(2205*)                      | 2125(2205*)                      | 2135(2215*)                      | 2135(2215*)                      | 2150(2230*)                      | 2150(2230*)                      | 2125(2205*)                      | 2125(2205*)                      | 2135(2215*)                      | 2135(2215*)                      | 2150(2230*)                      | 2150(2230*)                      |  |
|                     | 4.20 | Length to face of forks                                                  | l2 (mm)    | 2285                             | 2310                             | 2530                             | 2605                             | 2730                             | 2800                             | 2285                             | 2310                             | 2530                             | 2605                             | 2730                             | 2800                             |  |
|                     | 4.21 | Overall width                                                            | b1 (mm)    | 1080                             | 1080                             | 1155                             | 1155                             | 1225                             | 1225                             | 1080                             | 1080                             | 1155                             | 1155                             | 1225                             | 1225                             |  |
|                     | 4.22 | Fork dimensions                                                          | s/e/l (mm) | 35x100x920                       | 35x100x920                       | 40x122x1070                      | 40x122x1070                      | 45x122x1070                      | 50x122x1070                      | 35x100x920                       | 35x100x920                       | 40x122x1070                      | 40x122x1070                      | 45x122x1070                      | 50x122x1070                      |  |
|                     | 4.24 | Fork-carriage width                                                      | b3 (mm)    | 1000                             | 1000                             | 1038                             | 1038                             | 1100                             | 1100                             | 1000                             | 1000                             | 1038                             | 1038                             | 1100                             | 1100                             |  |
|                     | 4.25 | Distance between fork-arms                                               | mm         | 200-1000                         | 200-1000                         | 244-1038                         | 244-1038                         | 244-1100                         | 244-1100                         | 200-1000                         | 200-1000                         | 244-1038                         | 244-1038                         | 244-1100                         | 244-1100                         |  |
|                     | 4.31 | Ground clearance, laden, below mast                                      | m1 (mm)    | 115                              | 115                              | 115                              | 115                              | 130                              | 130                              | 115                              | 115                              | 115                              | 115                              | 130                              | 130                              |  |
|                     | 4.32 | Ground clearance, centre of wheelbase                                    | m2 (mm)    | 140                              | 140                              | 150                              | 150                              | 165                              | 165                              | 140                              | 140                              | 150                              | 150                              | 165                              | 165                              |  |
|                     | 4.35 | Turning radius                                                           | Wa (mm)    | 1990                             | 2015                             | 2180                             | 2245                             | 2340                             | 2415                             | 1990                             | 2015                             | 2180                             | 2245                             | 2340                             | 2415                             |  |
| Performance data    |      | Min. right angle stacking aisle width<br>(Add load length and clearance) | mm         | 2395                             | 2420                             | 2645                             | 2710                             | 2835                             | 2900                             | 2395                             | 2420                             | 2645                             | 2710                             | 2835                             | 2900                             |  |
|                     | 5.1  | Travel speed, laden/unladen                                              | km/h       | 17/18                            | 17/18                            | 18/19                            | 18/19                            | 17/18                            | 17/18                            | 17/18                            | 17/18                            | 18/19                            | 18/19                            | 17/18                            | 17/18                            |  |
|                     | 5.2  | Lift speed, laden/unladen                                                | m/s        | 0.53/0.55                        | 0.53/0.55                        | 0.56/0.58                        | 0.56/0.58                        | 0.51/0.54                        | 0.46/0.49                        | 0.53/0.55                        | 0.53/0.55                        | 0.56/0.58                        | 0.56/0.58                        | 0.51/0.54                        | 0.46/0.49                        |  |
|                     | 5.3  | Lowering speed, laden/unladen                                            | m/s        | 0.45/0.50                        | 0.45/0.50                        | 0.45/0.50                        | 0.45/0.50                        | 0.45/0.50                        | 0.45/0.50                        | 0.45/0.50                        | 0.45/0.50                        | 0.45/0.50                        | 0.45/0.50                        | 0.45/0.50                        | 0.45/0.50                        |  |
|                     | 5.5  | Drawbar pull, laden/unladen                                              | N          | 15800/10000                      | 15800/10000                      | 18700/12500                      | 18700/12500                      | 19800/14000                      | 19800/14000                      | 15800/10000                      | 15800/10000                      | 18700/12500                      | 18700/12500                      | 19800/14000                      | 19800/14000                      |  |
| Combustion-engine   | 5.7  | Gradeability, laden/unladen*                                             | %          | 29/25                            | 26/25                            | 26/25                            | 23/25                            | 21/22                            | 20/22                            | 29/25                            | 26/25                            | 26/25                            | 23/25                            | 21/22                            | 20/22                            |  |
|                     | 7.1  | Engine manufacturer / type                                               |            | GCT GK21 LPG                     | GCT GK21 LPG                     | GCT GK25 LPG                     | GCT GK25 LPG                     | GCT GK25 LPG                     | GCT GK25 LPG                     | GCT GK21 DUAL                    | GCT GK21 DUAL                    | GCT GK25 DUAL                    | GCT GK25 DUAL                    | GCT GK25 DUAL                    | GCT GK25 DUAL                    |  |
|                     |      | Emission STD                                                             |            | CARB Tier3/ EPA Tier2/ EU StageV | CARB Tier3/ EPA Tier2/ EU StageV | CARB Tier3/ EPA Tier2/ EU StageV | CARB Tier3/ EPA Tier2/ EU StageV | CARB Tier3/ EPA Tier2/ EU StageV | CARB Tier3/ EPA Tier2/ EU StageV | CARB Tier3/ EPA Tier2/ EU StageV | CARB Tier3/ EPA Tier2/ EU StageV | CARB Tier3/ EPA Tier2/ EU StageV | CARB Tier3/ EPA Tier2/ EU StageV | CARB Tier3/ EPA Tier2/ EU StageV | CARB Tier3/ EPA Tier2/ EU StageV |  |
|                     | 7.2  | Engine power according to DIN ISO 1585                                   | kw         | 43                               | 43                               | 47                               | 47                               | 47                               | 47                               | LP-43/G-40                       | LP-43/G-40                       | LP-47/G-44.5                     | LP-47/G-44.5                     | LP-47/G-44.5                     | LP-47/G-44.5                     |  |
|                     | 7.3  | Rated speed                                                              | min        | 2700                             | 2700                             | 2700                             | 2700                             | 2700                             | 2700                             | 2700                             | 2700                             | 2700                             | 2700                             | 2700                             | 2700                             |  |
|                     | 7.4  | Number of cylinders/displacement                                         | (-)/[cm³]  | 4/2065                           | 4/2065                           | 4/2488                           | 4/2488                           | 4/2488                           | 4/2488                           | 4/2065                           | 4/2065                           | 4/2488                           | 4/2488                           | 4/2488                           | 4/2488                           |  |
|                     | 7.10 | Battery voltage/ nominal capacity                                        | V/Ah       | 12/60                            | 12/60                            | 12/60                            | 12/60                            | 12/60                            | 12/60                            | 12/60                            | 12/60                            | 12/60                            | 12/60                            | 12/60                            | 12/60                            |  |
|                     |      | Rated torque                                                             | N·m/r/min  | 161/2000                         | 161/2000                         | 190/2000                         | 190/2000                         | 190/2000                         | 190/2000                         | LP: 161/2000/G: 153/2000         | LP: 161/2000/G: 153/2000         | LP: 190/2000/G: 175/2000         | LP: 190/2000/G: 175/2000         | LP: 190/2000/G: 175/2000         | LP: 190/2000/G: 175/2000         |  |
|                     |      | Bore • stroke                                                            | mm         | 89x83                            | 89x93                            | 89x100                           | 89x100                           | 89x100                           | 89x100                           | 89x83                            | 92x100                           | 89x100                           | 89x100                           | 89x100                           | 89x100                           |  |
|                     |      | Transmissions Manufacturer                                               |            | HANGCHA/OKAMURA                  | HANGCHA/OKAMURA                  | HANGCHA/OKAMURA                  | HANGCHA/OKAMURA                  | HANGCHA/OKAMURA                  | China/OKAMURA                    | China/OKAMURA                    | China/OKAMURA                    | China/OKAMURA                    | China/OKAMURA                    | China/OKAMURA                    | China/OKAMURA                    |  |
|                     |      | Transmissions Type                                                       |            | Powershift                       | Powershift                       | Powershift                       | Powershift                       | Powershift                       | Powershift                       | Powershift                       | Powershift                       | Powershift                       | Powershift                       | Powershift                       | Powershift                       |  |
| Addition data       |      | Stage FWD/RVS                                                            |            | 1/1                              | 1/1                              | 1/1                              | 1/1                              | 1/1                              | 1/1                              | 1/1                              | 1/1                              | 1/1                              | 1/1                              | 1/1                              | 1/1                              |  |
|                     | 10.1 | Operating pressure for attachments                                       | bar        | 145                              | 145                              | 175                              | 175                              | 175                              | 175                              | 145                              | 145                              | 175                              | 175                              | 175                              | 175                              |  |
|                     | 10.4 | Fuel tank capacity                                                       | liter      | 35                               | 35                               | 50                               | 50                               | 50                               | 50                               | LP-35/G-50                       | LP-35/G-50                       | LP-50/G-60                       | LP-50/G-60                       | LP-50/G-70                       | LP-50/G-70                       |  |

Note: \*With suspension seat or cabin  
\* As a calculated value

Optional Engine / Transmission

|                           |                                  |                |              |                                |                                |        |                   |           |                  |           |                               |                         |                           |                     |                  |              |                          |                     |                            |                          |                     |                                |                                    |                                    |              |              |              |                              |                              |              |          |
|---------------------------|----------------------------------|----------------|--------------|--------------------------------|--------------------------------|--------|-------------------|-----------|------------------|-----------|-------------------------------|-------------------------|---------------------------|---------------------|------------------|--------------|--------------------------|---------------------|----------------------------|--------------------------|---------------------|--------------------------------|------------------------------------|------------------------------------|--------------|--------------|--------------|------------------------------|------------------------------|--------------|----------|
| Engine                    | Engine manufacturer/type         |                | GCT/<br>GK21 |                                |                                |        | YANMAR/<br>4TNE92 |           | GCT/<br>GK21 LPG |           | GCT/<br>GK21 LPG<br>EU StageV | KUBOTA/<br>V2607-CR-E58 | YANMAR/<br>4TNE98         | XINCHAI/<br>A498BT1 | GCT/<br>GK25 LPG | GCT/<br>GK25 | MITSUBISHI/<br>S4S-DPEU2 | ISUZU/<br>4JG2PE-01 | GCT/<br>GK25 LPG EU StageV | XINCHAI/<br>3E22YG51P464 | XINCHAI<br>3E22YG51 | KUBOTA<br>V2607-<br>CR-TE58    | KUBOTA/<br>WG2503-GL-<br>E3-HCF-11 | KUBOTA/<br>WG2503-L-<br>E3-HCF-11  | GCT/<br>GK25 | GCT/<br>GK25 | GCT/<br>GK25 | GCT/<br>GK25                 | GCT/<br>GK25                 | GCT/<br>GK25 |          |
|                           | Manufacturer's type designation  |                | W21          |                                |                                |        | W32               |           | W51              |           | H1                            | W97                     | W33                       | W27                 | W52              | W22          | W55                      | W13                 | H3                         | H7                       | H7                  | W98                            | H30                                | H31                                | H27R         | H27          | H28R         | H28                          | H29R                         | H29          |          |
|                           | Drive                            |                | Gasoline     | Gasoline/<br>DUAL FUEL/<br>LPG | Gasoline/<br>DUAL FUEL/<br>LPG | Diesel | LPG               | LPG       | Diesel           | Diesel    | Diesel                        | LPG                     | Gasoline<br>DUAL FUEL/LPG | Diesel              | Diesel           | LPG          | Diesel                   | Diesel              | LPG                        | Diesel                   | Diesel              | Diesel                         | DUAL (GAS/LPG)                     | LPG                                | LPG          | LPG          | LPG          | DUAL<br>(LPG/GAS)            | DUAL<br>(LPG/GAS)            | Gasoline     | Gasoline |
|                           | Emission STD                     |                | --           |                                |                                |        | StageIIIA         |           | --               |           | EU StageV                     | Stage V/Tier 4F         | StageIIIA                 | StageIIA            | --               | --           | StageIIIA                | StageII             | EU StageV                  | EU StageV                | EU StageV           | EU StageV EPA/<br>CARB Tier4 F | Stage V/ EPA Tier 2/<br>CARB Tier3 | Stage V/ EPA Tier 2/<br>CARB Tier3 | /            | /            | /            | /                            | /                            | /            |          |
|                           | Engine power                     |                | kW/r/min     | 31.2/2250                      |                                |        |                   | 32.8/2450 |                  | 29/2250   |                               | 38.4/2700               | 37.4/2400                 | 42.1/2300           | 36.8/2400        | 35/2400      | 37.4/2300                | 35.3/2250           | 46/2450                    | 43.4/2700                | 34/2400             | 44.8/2400                      | 47.3/2400                          | LPG:43.5/2600<br>GAS:42.8/2600     | 43.5/2600    | 35/2700      | 43/2700      | LPG:35/2700<br>GAS:35/2700   | LPG:43/2700<br>GAS:43/2700   | 35/2700      | 46/2700  |
|                           | Rated torque                     |                | N.m/r/min    | 143.7/1600                     |                                |        |                   | 149/1600  |                  | 140/1600  |                               | 151/1600                | 171.5/1500                | 206/1700            | 186/1600-1800    | 170/1600     | 176.5/1600               | 177/1700            | 186/1700±100               | 183.5/1600               | 150/1600-1800       | 210/1600-1800                  | 221.7/1500                         | LPG:175/1200<br>GAS:167.6/1800     | 175/1200     | 150/1600     | 181/1600     | LPG:150/1600<br>GAS:150/1600 | LPG:181/1600<br>GAS:171/1800 | 150/1600     | 173/1800 |
|                           | Number of cylinders/displacement |                | ml           | 4/2065                         |                                |        |                   | 4/2659    |                  | 4/2065    |                               | 4/2065                  | 4/2615                    | 4/3319              | 4/3168           | 4/2488       | 4/2488                   | 4/3331              | 4/3059                     | 4/2488                   | 3/2227              | 3/2230                         | 4/2615                             | 4/2491                             | 4/2491       | 4/2488       | 4/2488       | 4/2488                       | 4/2488                       | 4/2488       | 4/2488   |
| Transmission              | Powershift                       | F[CHINA]       | F            | ✓                              | ✓                              | ✓      | ✓                 | ✓         | ✓                | ✓         | ✓                             | ✓                       | ✓                         | ✓                   | ✓                | ✓            | ✓                        | ✓                   | ✓                          | ✓                        | ✓                   | ✓                              | ✓                                  | ✓                                  | ✓            | ✓            | ✓            | ✓                            | ✓                            | ✓            |          |
|                           |                                  | OKAMURA[JAPAN] | B1           | ✓                              | ✓                              | ✗      | ✓                 | ✗         | ✓                | ✗         | ✓                             | ✓                       | ✓                         | ✗                   | ✓                | ✓            | ✓                        | ✓                   | ✗                          | ✓                        | ✓                   | ✓                              | ✗                                  | ✓                                  | ✓            | ✓            | ✓            | ✓                            | ✓                            | ✓            | ✓        |
| Rated capacity/rated load |                                  |                | Q (kg)       | 1000                           | 1500-1750                      | 2000   | 1000-1750         | 2000-2500 | 1500-1750        | 2000-2500 | 1500-1750                     | 1500-3500               | 2000-3500                 | 2000-3500           | 2000-3500        | 2000-3500    | 2000-3500                | 3000-3500           | 2000-3500                  | 1500-1800                | 2000-3500           | 2000-3500                      | 1500-3500                          | 1500-3500                          | 1500-2500    | 2000-3500    | 1500-2500    | 2000-3500                    | 1500-2500                    | 2000-3500    |          |

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 | FWD  | BWD  |                |       | Load capacity at 500mm |       |             |      |      |           |      |      |
|                                 |                                  |                  |                | Without backrest | With backrest |                  |               |      |      | 1 / 1.5t       | 1.75t | 1 / 1.5                | 1.75t | Single tire |      |      | Dual tire |      |      |
|                                 |                                  |                  | mm             | mm               | mm            | mm               | mm            | mm   | mm   | mm             | mm    | mm                     | (°)   | (°)         | 1t   | 1.5t | 1.75t     | 1t   | 1.5t |
| Wide view mast                  | X15/18M200                       | 2000             | 1495           | 2565             | 2955          | 155              | 160           | 155  | 405  | 410            | 6     | 6                      | 1000  | 1500        | 1750 | 1000 | 1500      | 1750 |      |
|                                 | X15/18M250                       | 2500             | 1745           | 3065             | 3455          | 155              | 160           | 155  | 405  | 410            | 6     | 12                     | 1000  | 1500        | 1750 | 1000 | 1500      | 1750 |      |
|                                 | X15/18M270                       | 2700             | 1845           | 3265             | 3655          | 155              | 160           | 155  | 405  | 410            | 6     | 12                     | 1000  | 1500        | 1750 | 1000 | 1500      | 1750 |      |
|                                 | X15/18M300                       | 3000             | 1995           | 3565             | 3955          | 155              | 160           | 155  | 405  | 410            | 6     | 12                     | 1000  | 1500        | 1750 | 1000 | 1500      | 1750 |      |
|                                 | X15/18M330                       | 3300             | 2145           | 3865             | 4255          | 155              | 160           | 155  | 405  | 410            | 6     | 12                     | 1000  | 1500        | 1750 | 1000 | 1500      | 1750 |      |
|                                 | X15/18M350                       | 3500             | 2245           | 4065             | 4455          | 155              | 160           | 155  | 405  | 410            | 6     | 12                     | 1000  | 1500        | 1750 | 1000 | 1500      | 1750 |      |
|                                 | X15/18M370                       | 3700             | 2395           | 4265             | 4655          | 155              | 160           | 155  | 405  | 410            | 6     | 12                     | 1000  | 1500        | 1750 | 1000 | 1500      | 1750 |      |
|                                 | X15/18M400                       | 4000             | 2595           | 4565             | 4955          | 155              | 160           | 155  | 405  | 410            | 6     | 12                     | 1000  | 1500        | 1650 | 1000 | 1500      | 1700 |      |
|                                 | X15/18M430                       | 4300             | 2745           | 4865             | 5255          | 155              | 160           | 155  | 405  | 410            | 6     | 6                      | 950   | 1450        | 1600 | 1000 | 1450      | 1650 |      |
|                                 | X15/18M450                       | 4500             | 2845           | 5065             | 5455          | 155              | 160           | 155  | 405  | 410            | 6     | 6                      | 900   | 1400        | 1550 | 950  | 1400      | 1600 |      |
|                                 | X15/18M470                       | 4700             | 2945           | 5265             | 5655          | 155              | 160           | 155  | 405  | 410            | 6     | 6                      | 850   | 1350        | 1500 | 900  | 1350      | 1550 |      |
|                                 | X15/18M480                       | 4800             | 2995           | 5365             | 5755          | 155              | 160           | 155  | 405  | 410            | 6     | 6                      | 850   | 1350        | 1500 | 900  | 1350      | 1550 |      |
|                                 | X15/18M500                       | 5000             | 3095           | 5565             | 5955          | 155              | 160           | 155  | 405  | 410            | 6     | 6                      | 800   | 1300        | 1450 | 850  | 1300      | 1500 |      |
|                                 | X15/18M550                       | 5500             | 3345           | 6065             | 6455          | 155              | 160           | 155  | 405  | 410            | 6     | 6                      | /     | /           | /    | 750  | 1150      | 1300 |      |
|                                 | X15/18M600                       | 6000             | 3595           | 6565             | 6955          | 155              | 160           | 155  | 405  | 410            | 6     | 6                      | /     | /           | /    | 700  | 1050      | 1150 |      |
| Wide view full free duplex mast | X15/18U200                       | 2000             | 1560           | 2585             | 2945          | 975              | 975           | 615  | 405  | 410            | 6     | 6                      | 1000  | 1500        | 1750 | 1000 | 1500      | 1750 |      |
|                                 | X15/18U250                       | 2500             | 1810           | 3085             | 3445          | 1225             | 1225          | 865  | 405  | 410            | 6     | 12                     | 1000  | 1500        | 1750 | 1000 | 1500      | 1750 |      |
|                                 | X15/18U270                       | 2700             | 1910           | 3285             | 3645          | 1325             | 1325          | 965  | 405  | 410            | 6     | 12                     | 1000  | 1500        | 1750 | 1000 | 1500      | 1750 |      |
|                                 | X15/18U300                       | 3000             | 2010           | 3585             | 3945          | 1425             | 1425          | 1065 | 405  | 410            | 6     | 12                     | 1000  | 1500        | 1750 | 1000 | 1500      | 1750 |      |
|                                 | X15/18U330                       | 3300             | 2160           | 3885             | 4245          | 1575             | 1575          | 1215 | 405  | 410            | 6     | 12                     | 1000  | 1500        | 1750 | 1000 | 1500      | 1750 |      |
|                                 | X15/18U350                       | 3500             | 2260           | 4085             | 4445          | 1675             | 1675          | 1315 | 405  | 410            | 6     | 12                     | 1000  | 1500        | 1750 | 1000 | 1500      | 1750 |      |
|                                 | X15/18U370                       | 3700             | 2360           | 4285             | 4645          | 1775             | 1775          | 1415 | 405  | 410            | 6     | 12                     | 1000  | 1500        | 1750 | 1000 | 1500      | 1750 |      |
|                                 | X15/18U400                       | 4000             | 2560           | 4585             | 4945          | 1875             | 1975          | 1615 | 405  | 410            | 6     | 12                     | 1000  | 1500        | 1650 | 1000 | 1500      | 1700 |      |
|                                 | X15/18N400                       | 4000             | 1970           | 4680             | 4955          | 1300             | 1300          | 1025 | 420  | 425            | 6     | 6                      | 900   | 1400        | 1550 | 950  | 1400      | 1600 |      |
|                                 | X15/18N430                       | 4300             | 2070           | 4980             | 5255          | 1400             | 1400          | 1125 | 420  | 425            | 6     | 6                      | 850   | 1350        | 1500 | 900  | 1350      | 1550 |      |
|                                 | X15/18N450                       | 4500             | 2120           | 5130             | 5455          | 1500             | 1500          | 1175 | 420  | 425            | 6     | 6                      | 800   | 1300        | 1450 | 850  | 1300      | 1500 |      |
|                                 | X15/18N470                       | 4700             | 2170           | 5295             | 5655          | 1585             | 1585          | 1225 | 420  | 425            | 6     | 6                      | 750   | 1250        | 1400 | 800  | 1250      | 1450 |      |
|                                 | X15/18N480                       | 4800             | 2220           | 5430             | 5755          | 1600             | 1630          | 1275 | 420  | 425            | 6     | 6                      | 750   | 1250        | 1400 | 800  | 1250      | 1450 |      |
|                                 | X15/18N500                       | 5000             | 2270           | 5595             | 5955          | 1685             | 1685          | 1325 | 420  | 425            | 6     | 6                      | 700   | 1200        | 1350 | 800  | 1250      | 1450 |      |
|                                 | Wide view full free triplex mast | X15/18N550       | 5500           | 2470             | 6095          | 6455             | 1885          | 1885 | 1525 | 420            | 425   | 3                      | 6     | 650         | 950  | 1050 | 750       | 1150 | 1300 |
| X15/18N600                      |                                  | 6000             | 2720           | 6730             | 7005          | 2050             | 2050          | 1775 | 420  | 425            | 3     | 6                      | 600   | 700         | 750  | 700  | 1050      | 1150 |      |
| X15/18N650                      |                                  | 6500             | 2870           | 7180             | 7455          | 2200             | 2200          | 1925 | 420  | 425            | 3     | 6                      | /     | /           | /    | 550  | 800       | 900  |      |
| X15/18N700                      |                                  | 7000             | 3020           | 7630             | 7955          | 2385             | 2385          | 2025 | 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 |                | FWD        | BWD | Load capacity at 500mm |      |            |            |
|                                 |                                  |                  |                | Without backrest | With backrest |                  |               |                |            |     | Single tire            |      | Dual tire  |            |
|                                 |                                  |                  |                |                  |               |                  |               |                |            |     | mm                     | mm   | 2.0t<br>kg | 2.5t<br>kg |
| Wide view mast                  | X25M200                          | 2000             | 1535           | 2660             | 3045          | 140              | 140           | 465            | 6          | 6   | 2000                   | 2500 | 2000       | 2500       |
|                                 | X25M250                          | 2500             | 1785           | 3160             | 3545          | 140              | 140           | 465            | 6          | 12  | 2000                   | 2500 | 2000       | 2500       |
|                                 | X25M270                          | 2700             | 1885           | 3360             | 3745          | 140              | 140           | 465            | 6          | 12  | 2000                   | 2500 | 2000       | 2500       |
|                                 | X25M300                          | 3000             | 2035           | 3660             | 4045          | 140              | 140           | 465            | 6          | 12  | 2000                   | 2500 | 2000       | 2500       |
|                                 | X25M330                          | 3300             | 2185           | 3960             | 4345          | 140              | 140           | 465            | 6          | 12  | 2000                   | 2500 | 2000       | 2500       |
|                                 | X25M350                          | 3500             | 2285           | 4160             | 4545          | 140              | 140           | 465            | 6          | 12  | 2000                   | 2500 | 2000       | 2500       |
|                                 | X25M370                          | 3700             | 2435           | 4360             | 4745          | 140              | 140           | 465            | 6          | 12  | 2000                   | 2500 | 2000       | 2500       |
|                                 | X25M400                          | 4000             | 2635           | 4660             | 5045          | 140              | 140           | 465            | 6          | 12  | 2000                   | 2500 | 2000       | 2500       |
|                                 | X25M430                          | 4300             | 2785           | 4980             | 5365          | 140              | 140           | 465            | 6          | 6   | 1950                   | 2400 | 2000       | 2450       |
|                                 | X25M450                          | 4500             | 2855           | 5160             | 5545          | 140              | 140           | 465            | 6          | 6   | 1950                   | 2300 | 1950       | 2350       |
|                                 | X25M470                          | 4700             | 2985           | 5360             | 5745          | 140              | 140           | 465            | 6          | 6   | 1850                   | 2250 | 1900       | 2300       |
|                                 | X25M480                          | 4800             | 3035           | 5460             | 5845          | 140              | 140           | 465            | 6          | 6   | 1850                   | 2150 | 1900       | 2250       |
| Wide view full free duplex mast | X25M500                          | 5000             | 3135           | 5660             | 6045          | 140              | 140           | 465            | 6          | 6   | 1800                   | 1850 | 1850       | 2100       |
|                                 | X25M550                          | 5500             | 3385           | 6160             | 6545          | 140              | 140           | 465            | 3          | 6   | /                      | /    | 1600       | 1900       |
|                                 | X25M600                          | 6000             | 3635           | 6660             | 7045          | 140              | 140           | 465            | 3          | 6   | /                      | /    | 1400       | 1750       |
|                                 | X25U200                          | 2000             | 1560           | 2680             | 3045          | 880              | 510           | 465            | 6          | 6   | 2000                   | 2500 | 2000       | 2500       |
|                                 | X25U250                          | 2500             | 1810           | 3180             | 3545          | 1130             | 760           | 465            | 6          | 12  | 2000                   | 2500 | 2000       | 2500       |
|                                 | X25U270                          | 2700             | 1910           | 3380             | 3745          | 1230             | 860           | 465            | 6          | 12  | 2000                   | 2500 | 2000       | 2500       |
|                                 | X25U300                          | 3000             | 2010           | 3680             | 4045          | 1330             | 960           | 465            | 6          | 12  | 2000                   | 2500 | 2000       | 2500       |
|                                 | X25U330                          | 3300             | 2160           | 3980             | 4345          | 1480             | 1110          | 465            | 6          | 12  | 2000                   | 2480 | 2000       | 2500       |
|                                 | X25U350                          | 3500             | 2260           | 4180             | 4545          | 1580             | 1210          | 465            | 6          | 12  | 2000                   | 2500 | 2000       | 2500       |
|                                 | X25U370                          | 3700             | 2360           | 4380             | 4745          | 1680             | 1310          | 465            | 6          | 12  | 2000                   | 2500 | 2000       | 2500       |
|                                 | X25U400                          | 4000             | 2560           | 4680             | 5045          | 1880             | 1510          | 465            | 6          | 12  | 2000                   | 2450 | 2000       | 2500       |
|                                 | Wide view full free triplex mast | X25N400          | 4000           | 2000             | 4700          | 5045             | 1300          | 955            | 480        | 6   | 6                      | 1950 | 2450       | 1950       |
| X25N430                         |                                  | 4300             | 2100           | 5000             | 5345          | 1400             | 1055          | 480            | 6          | 6   | 1900                   | 2400 | 1950       | 2450       |
| X25N450                         |                                  | 4500             | 2150           | 5230             | 5595          | 1470             | 1105          | 480            | 6          | 6   | 1850                   | 2300 | 1850       | 2300       |
| X25N470                         |                                  | 4700             | 2200           | 5380             | 5745          | 1520             | 1155          | 480            | 6          | 6   | 1800                   | 2250 | 1800       | 2300       |
| X25N480                         |                                  | 4800             | 2250           | 5480             | 5845          | 1570             | 1205          | 480            | 6          | 6   | 1750                   | 2100 | 1800       | 2200       |
| X25N500                         |                                  | 5000             | 2300           | 5680             | 6045          | 1620             | 1255          | 480            | 6          | 6   | 1700                   | 1900 | 1800       | 2100       |
| X25N550                         |                                  | 5500             | 2500           | 6180             | 6545          | 1820             | 1455          | 480            | 3          | 6   | 1450                   | 1600 | 1600       | 1900       |
| X25N600                         |                                  | 6000             | 2750           | 6750             | 7095          | 2050             | 1705          | 480            | 3          | 6   | 1000                   | 1050 | 1400       | 1750       |
| X25N650                         |                                  | 6500             | 2900           | 7200             | 7545          | 2200             | 1855          | 480            | 3          | 6   | /                      | /    | 1200       | 1450       |
| X25N700                         |                                  | 7000             | 3050           | 7680             | 8045          | 2370             | 2005          | 480            | 3          | 6   | /                      | /    | 1000       | 1150       |