







# UPGRADE YOUR PRODUCTIVITY

By listening to customer comments, we've been able to design our next generation cab. This extra insight has enabled us to improve operator comfort, control and convenience to allow more productive working in any environment. Easy-to-see, multi-functional displays also keep operators informed about machine performance and outside obstacles.

### **Designed for efficient operation**

### Quieter

We've reduced noise dramatically inside the cab by optimising engine capacity, reducing cooling fan RPM and redesigning the cabin structure.

### Easy-to-use steering wheel



The problem of heavy handling has been significantly improved with a new steering wheel design. It can be adjusted up and down by 85mm and forwards and backwards by 36 degrees. In addition, operator control has been enhanced by reducing its diameter by 35mm.

### **Digital displays**

A multi-functional digital display cluster delivers essential information in colour. It is equipped with various features such as function settings and malfunction diagnosis of major parts.



### Air suspension & swivel seat y

Optimal riding comfort has been achieved with an optional air suspension and swivel seat. This also improves reverse driving and aids getting on and off, as the seat can be rotated 20 degrees to the right and 10 degrees to the left.





### Stay comfortable

Working for long hours in the cab is no problem, with air conditioning through multiple air vents that control the air volume in four directions.

### **Increased visibility**

Operator visibility has been improved using distortionless single curvature front glass that doesn't distort the view and sun visors.

### Fingertip control >

Fine controllability has been improved by our new fingertip system which changes MCV control to dither control. The system provides fast response, within 0.1 seconds and gives the same controllability regardless of ambient temperature. All switches have been placed in one row, in order of use frequency. The AC control Dial is now integrated in the headliner.





# **UPGRADE YOUR EFFICIENCY**

With a new reliable Stage V engine and upgraded transmission along with many new features and technologies, the new Hyundai Heavy Line Forklifts are more fuel efficient compared to our previous models. And when you add improved serviceability thanks to the electronically tilting cabin, plus Hyundai's remote management system and world-class support, you're looking at a low cost of ownership that's a great business investment.

### **EU Stage V Certified Engine**

Reliable Cummins B series engines are widely used throughout the world and they satisfy the latest European emission regulations. The EGR (Exhaust Gas Reduction) system was removed to improve energy efficiency and reliability. A new DPF has been added, in addition to the existing DOC and SCR.





### The technology to improve efficiency

Matter (PM).

### **Upgraded ZF transmission**

Responsiveness and shift timing are optimised, and SIL 2 European safety function regulation is satisfied. In addition, the shifting system boasts increased reliability as a non-contact shifting lever not affected by moisture is applied.

### **Load sensing hydraulics**

Fuel efficiency is dramatically improved by using an optimised engine, removing the EGR system and applying a Load Sensing Variable Displacement Pump and a Load Sensing MCV.

### **Engine output selection button**

On the engine output button, STD mode is set to 80% output of PWR mode and can be selected for reducing fuel consumption. PWR mode is available for full load transit or uphill driving.



Engine output button





### **Greater visibility improves productivity**

Usually a 3-stage mast compromises forward visibility due to the primary cylinder being in the centre. Our 3-stage TS mast provides a wider view by placing the primary cylinder on the left and right sides.

### Tilt lock function ▶

This new addition locks the back tilt to prevent the natural sagging of the mast.



HYUNDAI 120/130/160D-9V/160D-9LV DIESEL FORKLIFT TRUCK 120/130/160D-9V/160D-9LV 9

# **UPGRADE YOUR SAFETY**

The Hyundai approach to safety goes far beyond just meeting regulatory standards. We prioritise safety in every aspect of our machines and work with our customers to keep improving protection for operators, co-workers, buildings, materials and of course the machines themselves.

### Visibly safer

### 3-stage TS mast

The 3-stage TS mast provides a wider working view by placing the primary cylinder on the left and right sides.

### **Minimising blind spots**

We've minimised blind spots in the field of view by increasing the glass area and there is now no filler in the middle of the door. This also prevents damaging the glass when moving objects in the cabin.

### Rear view camera

The addition of an optional rear view camera provides extra peace of mind for operators, especially when working in confined spaces..

### **Heated side mirror**

A large side mirror is installed on the front wheel fender to secure a wider rear view. Optionally the mirror can be heated, preventing freezing.



### **Extra safety features**

### **Password protection**

A password can be set to prevent unauthorised driving and theft. The engine cannot be started without the password.

### **Auto-parking brake**

When the engine stops or OPSS starts, the parking brake is automatically activated to prevent human error. If the driver needs to use the parking brake while the engine is running, they can apply or release it using a dedicated button.

### **OPSS** system

The OPSS restricts driving, lifting, and tilting when the operator leaves the driver's seat in order to prevent accidents.

### **Speed limit**

A maximum driving speed can be set to prevent accidents caused by exceeding the speed limit. Even with the maximum driving speed set hill-climbing and mast working performance is maintained.

### Road slope (STD) and steering angle display OPTION

The road slope is sensed and displayed in real time. When the set value is exceeded, the symbol turns red and a warning buzzer sounds. The steering tyre position is also displayed in real time.



HYUNDAI 120/130/160D-9V/160D-9LV DIESEL FORKLIFT TRUCK 120/130/160D-9V/160D-9LV 11

# **UPGRADE YOUR MAINTENANCE**

Our new Heavy Line Diesel Forklifts are designed with quick, low-effort servicing in mind, while every component and material has been optimised to ensure a long, trouble-free life. Hyundai's innovative Hi MATE telematics system enables full monitoring of machine activity and performance for greater productivity and profitability.

### Less maintenance. More uptime

### Improved routine maintenance

Easy access for maintenance means regular checks get done faster, giving you more uptime and reducing operating costs. Ground level access to filters, lube fittings and master switches make servicing more convenient.

### **Longer service intervals**

The fuel filter service interval on the new engine has been increased by 100% - from 500 hours to 1,000 hours, greatly to reducing maintenance costs.

### Easy access tilting cab

The cab can be tilted up to 52 degrees, enabling easy access to the powertrain, hydraulics and electrical system. The cooling system and engine consumables can be easily managed by opening the cover of the wing-type engine bay.

# counterweight opening.

### Self-diagnosis of engine and consumables management

The history of failure details can be checked on the cluster screen. And when the replacement cycle of any consumables is entered into the cluster, parts that are due replacement are displayed on the monitor.

### No cab tilting when the door is opened

If the right side door is open, damage to it is prevented by no cabin tilting. The cabin can be opened and closed both automatically or manually.

### **Tankless-type compressor**

Unlike tank-type compressors that require time to refilled, our tanklesstype compressor instantly delivers compreseed air at a constant pressure.

### **Automatic DPF & SCR regeneration**

The DPF and SCR are automatically regenerated with the help of hydraulic engine load. The DPF Filter element can be easily removed through the

## HIMXTE

It's convenient, easy and valuable. Hi MATE, Hyundai's remote management system, utilises GPS-satellite technology to provide customers with the highest level of service and product support available.

### **Increase productivity**

By providing information such as service hours, idle time and fuel consumption, Hi MATE saves you money and improves productivity. Service alerts enable better maintenance planning.

### **Monitor your machines**

Hi MATE's real-time location information allows convenient monitoring of your equipment via the Hi MATE website or mobile app.

### **Improve Security**

Protect your equipment from theft or unauthorised usage. Hi MATE's geofencing alerts notify you automatically when a machine leaves a predetermined zone.

### **FCD** (Engine Connected Diagnostics)

ECD provides troubleshooting information as well as tailored servicing. Service technicians are supported with remote diagnostics allowing them to achieve quick resolution rate

### Mobile fleet app

Our Mobile Fleet app provides all the information you need to run your fleet efficiently and economically.

> **HCE-DT Air allows service** technicians to connect to your equipment wirelessly via smartphone and laptop right on site.

### **Keeping you covered**

Hyundai genuine parts and accessories are designed to keep your machine running at optimum performance, providing increased uptime, comfort

and productivity. Our 13000m<sup>2</sup> European Parts Warehouse guarantees 24-hour delivery across our dealer network.



HYUNDAI 120/130/160D-9V/160D-9LV DIESEL FORKLIFT TRUCK 120/130/160D-9V/160D-9LV 130/160D-9V/160D-9LV 130/160D-9V/160D-9LV 130/160D-9V/160D-9LV 130/160D-9V/160D-9LV 130/160D-9V/160D-9LV 130/160D-9V/160D-9LV 130/160D-9LV 130/160D-9V/160D-9LV 130/160D-9V/160D-9LV 130/160D-9V/160D-9LV 130/160D-9V/160D-9LV 130/160D-9V/160D-9LV 130/160D-9V/160D-9

# **TAKE THE TOUR!**

### **UPGRADE YOUR OFFICE**

- New Next Generation cab
- Reduced cabin noise (4.9 to 5.9dB)
- Multi-functional digital display cluster
- Air suspension & swivel seat OPTION
- Air conditioning
- 1-piece, distortionless glass
- Fingertip controls

### **UPGRADE YOUR EFFICIENCY**

- Reliable Stage V Cummins B series engine
- Improved fuel efficiency
- No EGR (Exhaust Gas Reduction) system
- New added DPF
- Upgraded ZF transmission
- Load sensing hydraulics
- Engine output selection button
- Greater visibility for improved productivity
- Kessler front axle

### **UPGRADE YOUR SAFETY**

- 3-stage TS mast with wider field of view
- Increased glass area
- Rear view camera
- Heated side mirror
- Password to start engine
- Auto-parking brake
- OPSS system
- Travel speed limit
- Road slope warning alarm

### **UPGRADE YOUR MAINTENANCE**

- Hi MATE remote management system
- ECD (Engine Connected Diagnostics)
- Mobile fleet app
- Easy access tilting cab
- Longer lasting fuel filter
- Ground level routine maintenance
- Tankless-type compressor
- Automatic DPF & SCR regeneration



HYUNDAI 120/130/160D-9V/160D-9LV DIESEL FORKLIFT TRUCK

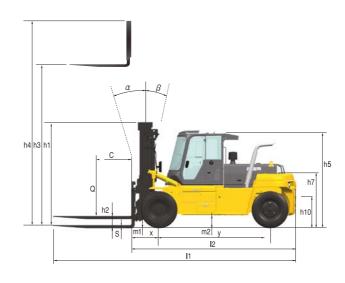
### 120/130/160D-9V/160D-9LV **15**

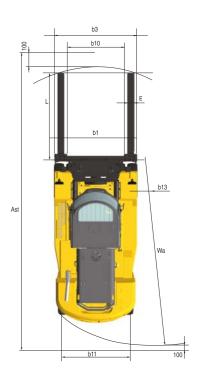
### 120/130/160D-9V/160D-9LV

# **SPECIFICATIONS**

| IDENTIFICATION   |              |       |            |                                      |               |               |
|--|--------------|-------|------------|--------------------------------------|---------------|---------------|
| Manufacturer (abbreviation)  | 1.1          |       |            | Hyundai                              | Hyundai       | Hyundai       |
| Manufacturer's type designation  | 1.2          |       |            | 120/130D-9V                          | 160D-9V       | 160D-9LV      |
| Drive : electric (battery or mains), diesel, petrol, fuel gas                                | 1.3          |       |            | Diesel                               | Diesel        | Diesel        |
| Type of operation: hand, pedestrian, standing, seated, order-picker                          | 1.4          |       |            | Seated                               | Seated        | Seated        |
| Load capacity / rated load   | 1.5          |       | kg         | 12000/13000                          | 16000         | 16000         |
| Load center distance   | 1.6          | С     | mm         | 600                                  | 600           | 1200          |
| Load distance, center of drive axle to fork  | 1.8          | х     | mm         | 770                                  | 815           | 999           |
| Wheelbase  | 1.9          | у     | mm         | 3050                                 | 3450          | 3750          |
| Service weight   | 2.1          |       | kg         | 16337/17105                          | 20499         | 25826         |
| Axle loading, loaded front/rear  | 2.2          |       | kg         | 120 : 24051/3286<br>130 : 26981/3124 | 32479/4020    | 39953/3874    |
| Axle loading, unloaded front/rear  | 2.3          |       | kg         | 120 : 8182/8155<br>130 : 8142/8963   | 9916/10583    | 12838/12988   |
| Tires : solid rubber, superelastic, pneumatic, polyurethane                                  | 3.1          |       |            | PNEUMATIC                            | PNEUMATIC     |               |
| Tire size, front   | 3.2          |       |            | 10.00-20-16PR                        | 12.00-20-18PR | 12.00 R20     |
| Tire size, rear  | 3.3          |       |            | 10.00-20-16PR                        | 12.00-20-18PR | 12.00 R20     |
| Wheels, number front / rear (x = driven wheels)  | 3.5          |       |            | 4X2                                  | 4x2           | 4x2           |
| Tread, front   | 3.6          |       | mm         | 1842                                 | 1842          | 1848          |
| Tread, rear  | 3.7          |       | mm         | 1910                                 | 1958          | 2025          |
| Tilt of mast/fork carriage forward/backward  | 4.1          | αΙβ   | degree     | 15/12                                | 15/12         | 10 / 10       |
| Height, mast lowered   | 4.2          | h1    | mm         | 3150                                 | 3400          | 3700          |
| Free lift  | 4.3          | h2    | mm         | 0                                    | 0             | 0             |
| Lift height  | 4.4          | h3    | mm         | 3305                                 | 3300          | 4020          |
| Height, mast extended  | 4.5          | h4    | mm         | 4765                                 | 5010          | 5655          |
| Height of overhead guard (cabin)   | 4.7          | h5    | mm         | 2955                                 | 2990          | 2995          |
| Seat height / stand height rel. To sip   | 4.8          | h7    | mm         | 1825                                 | 1825          | 1826          |
| Coupling height  | 4.12         | h10   | mm         | 626                                  | 665           | 1825          |
| Overall length   | 4.19         | 11    | mm         | 5930                                 | 6430.5        | 8045          |
| Length to face of forks  | 4.20         | 12    | mm         | 4580                                 | 5080.5        | 5595          |
| Overall width  | 4.21         | b1    | mm         | 2450                                 | 2497          | 2540          |
| Fork dimensions  | 4.22         | Ixexs | mm         | 85x200x1350                          | 90x200x1350   | 100x250x2450  |
| Fork carriage iso 2328, class / type A, B  | 4.23         | 17073 |            | Pin Mount                            | Pin Mount     | 100023002400  |
| Fork-carriage width  | 4.24         | b3    | mm         | 2362                                 | 2497          | 2540          |
| Ground clearance, below mast, loaded   | 4.31         | m1    | mm         | 2502                                 | 250           | 245           |
| Ground clearance, below mast, loaded  Ground clearance, center of wheelbase                  | 4.32         | m2    | mm         | 316                                  | 355.5         | 356           |
| Aisle width for pallets 1000 x 1200 crossways  | 4.34.1       | Ast   |            | 6660                                 | 7280          | 8983          |
| Aisle width for pallets 1000 x 1200 clossways  Aisle width for pallets 800 x 1200 lengthways | 4.34.1       | Ast   | mm         | 6660                                 | 7280          | 8983          |
| , , , , , , , , , , , , , , , , , , ,  | 4.34.2       | Wa    | mm         | 4350                                 | 4895          | 5334          |
| Turning radius Smallest pivot point distance   | 4.36         | vva   | mm         | 1634                                 | 1865          | 2048          |
|  | <del> </del> |       | mm<br>km/h |                                      |               |               |
| Travel speed, loaded / unloaded  | 5.1          |       | km/h       | 32.7/35.8                            | 30.5/34.2     | 34.2/36.9     |
| Lift speed, loaded / unloaded  | 5.2          |       | mm/s       | 480/500                              | 390/420       | 380/400       |
| Lowering speed, loaded / unloaded  | 5.3          |       | mm/s       | 550/500                              | 550/450       | 450/395       |
| Drawbar pull, loaded / unloaded  | 5.5          |       | N N        | 122740/440005                        | 155000445070  | 140254/140440 |
| Max. Drawbar pull, loaded / unloaded   | 5.6          |       | N<br>ov    | 122740/116895                        | 155230/145972 | 149354/140416 |
| Gradeability, loaded / unloaded  | 5.7          |       | %          | 40.5/07.4                            | - 40.0/07.7   | -             |
| Max. Gradeability, loaded / unloaded   | 5.8          |       | %          | 40.5/27.4                            | 42.6/27.7     | 32.3/30.3     |
| Acceleration time, loaded / unloaded   | 5.9          |       | S          | -                                    | ,,_,_         | -             |
| Service brake  | 5.10         |       |            | Hydraulic                            | Hydraulic     | Hydraulic     |
| Engine manufacturer / type   | 7.1          |       |            | CUMMINS/B4.5                         | CUMMINS/B6.7  | CUMMINS/B6.7  |
| Engine power acc. To ISO 1585  | 7.2          |       | kW/rpm     | 123/2200                             | 129/2200      | 209/2200      |
| Maximum torque   | 7.3          |       | kgf m/rpm  | 77.9/1200                            | 114.3/1100    | 117/1500      |
| No. Of cylinders / displacement  | 7.4          |       | EA/cc      | 4/4460                               | 6/6690        | 6/6690        |
| Operating pressure, system / attachments   | 8.2          |       | bar        | 230                                  | 230           | 168           |
| Oil volume for attachments   | 8.3          |       | LPM        | 100                                  | 100           | 100           |
| Sound level at the driver's ear according to DIN 12053                                       | 8.4          |       | dB (A)     | 70.4                                 | 68.6          | 69.9          |
| Trailer coupling, type din   | 8.5          |       |            | Pin                                  | Pin           | Pin           |

# **DIMENSIONS**

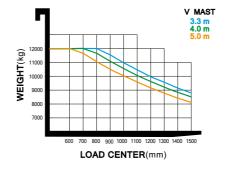


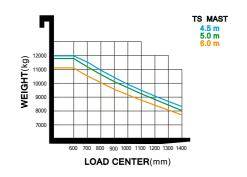


120D-9V

# **MAST SPECIFICATION**

| Most                 | Time  | Maximum Fork | Overall Height | Free Lift Height | Mast | Tilt (deg) | Load capacity | Truck Weight   |
|----------------------|-------|--------------|----------------|------------------|------|------------|---------------|----------------|
| Mast                 | туре  | Height (mm)  | (Lowered) mm   | (mm)             | FWD  | BWD        | 600mm LC      | (Unloaded) (kg |
|                      | V300  | 3005         | 3000           | 0                | 15   | 12         | 12000         | 16261          |
|                      | V330  | 3305         | 3150           | 0                | 15   | 12         | 12000         | 16337          |
|                      | V350  | 3505         | 3250           | 0                | 15   | 12         | 12000         | 16387          |
|                      | V400  | 4005         | 3550           | 0                | 15   | 12         | 12000         | 16639          |
| 2 Stage              | V450  | 4505         | 3800           | 0                | 15   | 12         | 12000         | 16764          |
| Without<br>Free Lift | V500  | 5005         | 4100           | 0                | 15   | 12         | 12000         | 16914          |
| 1166 LIIL            | V550  | 5505         | 4350           | 0                | 15   | 12         | 11880         | 17144          |
|                      | V600  | 6005         | 4650           | 0                | 15   | 12         | 11520         | 17296          |
|                      | V650  | 6505         | 4900           | 0                | 15   | 12         | 11190         | 17429          |
|                      | V700  | 7005         | 5150           | 0                | 15   | 12         | 10860         | 17560          |
|                      | TS450 | 4521         | 2950           | 1555             | 10   | 10         | 12000         | 17391          |
|                      | TS500 | 5025         | 3117           | 1725             | 10   | 10         | 11790         | 17482          |
| 3 Stage              | TS550 | 5525         | 3284           | 1891             | 10   | 10         | 11440         | 17574          |
| Full                 | TS600 | 6023         | 3551           | 2055             | 10   | 10         | 11080         | 17720          |
| Free Lift            | TS650 | 6525         | 3718           | 2223             | 10   | 10         | 10760         | 17812          |
|                      | TS700 | 7025         | 3935           | 2389             | 10   | 10         | 10420         | 18052          |
|                      | TS750 | 7525         | 4102           | 2555             | 10   | 10         | 10120         | 18145          |



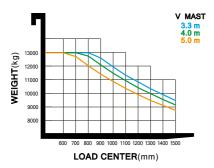


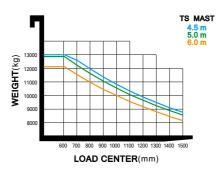
**HYUNDAI** 120/130/160D-9V/160D-9LV DIESEL FORKLIFT TRUCK

130D-9V

# **MAST SPECIFICATION**

| Mont                 | Time  | Maximum Fork | Overall Height | Free Lift Height | Mast | Tilt (deg) | Load capacity | Truck Weight    |
|----------------------|-------|--------------|----------------|------------------|------|------------|---------------|-----------------|
| wast                 | Туре  | Height (mm)  | (Lowered) mm   | (mm)             | FWD  | BWD        | 600mm LC      | (Unloaded) (kg) |
|                      | V300  | 3005         | 3000           | 0                | 15   | 12         | 13000         | 17029           |
|                      | V330  | 3305         | 3150           | 0                | 15   | 12         | 13000         | 17105           |
|                      | V350  | 3505         | 3250           | 0                | 15   | 12         | 13000         | 17154           |
|                      | V400  | 4005         | 3550           | 0                | 15   | 12         | 13000         | 17407           |
| 2 Stage              | V450  | 4505         | 3800           | 0                | 15   | 12         | 13000         | 17532           |
| Without<br>Free Lift | V500  | 5005         | 4100           | 0                | 15   | 12         | 13000         | 17681           |
| 1166 LIII            | V550  | 5505         | 4350           | 0                | 15   | 12         | 13000         | 17912           |
|                      | V600  | 6005         | 4650           | 0                | 15   | 12         | 12610         | 18064           |
|                      | V650  | 6505         | 4900           | 0                | 15   | 12         | 12250         | 18197           |
|                      | V700  | 7005         | 5150           | 0                | 15   | 12         | 11900         | 18328           |
|                      | TS450 | 4521         | 2950           | 1555             | 10   | 10         | 13000         | 18223           |
|                      | TS500 | 5025         | 3117           | 1725             | 10   | 10         | 12860         | 18314           |
| 3 Stage              | TS550 | 5525         | 3284           | 1891             | 10   | 10         | 12480         | 18406           |
| Full                 | TS600 | 6023         | 3551           | 2055             | 10   | 10         | 12100         | 18552           |
| Free Lift            | TS650 | 6525         | 3718           | 2223             | 10   | 10         | 11750         | 18644           |
|                      | TS700 | 7025         | 3935           | 2389             | 10   | 10         | 11380         | 18884           |
|                      | TS750 | 7525         | 4102           | 2555             | 10   | 10         | 11060         | 18977           |

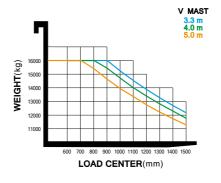




160D-9V

# **MAST SPECIFICATION**

| Mact               | Туре  | Maximum Fork | Overall Height | Free Lift Height | Mast T | ilt (deg) | Load capacity | Truck Weight    |
|--------------------|-------|--------------|----------------|------------------|--------|-----------|---------------|-----------------|
| IVIASI             | туре  | Height (mm)  | (Lowered) mm   | (mm)             | FWD    | BWD       | 600mm LC      | (Unloaded) (kg) |
|                    | V300  | 3010         | 3250           | 0                | 15     | 12        | 16000         | 20404           |
|                    | V330  | 3310         | 3400           | 0                | 15     | 12        | 16000         | 20499           |
|                    | V350  | 3510         | 3500           | 0                | 15     | 12        | 16000         | 20543           |
|                    | V400  | 4010         | 3750           | 0                | 15     | 12        | 16000         | 20831           |
| 2 Stage<br>Without | V450  | 4510         | 4000           | 0                | 15     | 12        | 16000         | 20985           |
| Free Lift          | V500  | 5010         | 4300           | 0                | 15     | 12        | 16000         | 21168           |
| TTOO LIII          | V550  | 5510         | 4550           | 0                | 15     | 12        | 16000         | 21436           |
|                    | V600  | 6010         | 4850           | 0                | 15     | 12        | 16000         | 21619           |
|                    | V650  | 6510         | 5125           | 0                | 15     | 12        | 15700         | 21785           |
|                    | V700  | 7010         | 5375           | 0                | 15     | 12        | 15270         | 21936           |
|                    | VS300 | 3010         | 3200           | 1550             | 10     | 10        | 16000         | 20433           |
|                    | VS330 | 3310         | 3350           | 1700             | 10     | 10        | 16000         | 20513           |
|                    | VS350 | 3510         | 3450           | 1800             | 10     | 10        | 16000         | 20577           |
| 2 Stage<br>Full    | VS400 | 4010         | 3700           | 2050             | 10     | 10        | 16000         | 20741           |
| Free Lift          | VS450 | 4510         | 3950           | 2300             | 10     | 10        | 16000         | 20996           |
| TTOO LIII          | VS500 | 5010         | 4250           | 2550             | 10     | 10        | 16000         | 21194           |
|                    | VS550 | 5510         | 4500           | 2800             | 10     | 10        | 16000         | 21388           |
|                    | VS600 | 6010         | 4800           | 3050             | 10     | 10        | 16000         | 21649           |
|                    | TS450 | 4516         | 2950           | 1500             | 10     | 10        | 16000         | 21508           |
|                    | TS500 | 5017         | 3167           | 1667             | 10     | 10        | 16000         | 21708           |
| 3 Stage            | TS550 | 5515         | 3333           | 1833             | 10     | 10        | 15680         | 21856           |
| Full               | TS600 | 6016         | 3550           | 2000             | 10     | 10        | 15220         | 22053           |
| Free Lift          | TS650 | 6517         | 3717           | 2167             | 10     | 10        | 14800         | 22211           |
|                    | TS700 | 7015         | 3933           | 2333             | 10     | 10        | 14360         | 22523           |
|                    | TS750 | 7515         | 4100           | 2501             | 10     | 10        | 13960         | 22686           |



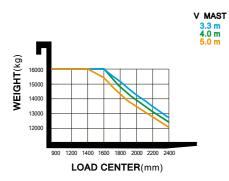


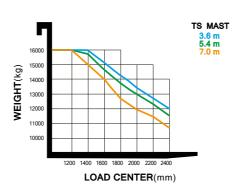
**HYUNDAI** 120/130/160D-9V/160D-9LV DIESEL FORKLIFT TRUCK

160D-9LV

# **MAST SPECIFICATION**

| Most               | Time  | Maximum Fork | Overall Height | Free Lift Height | Tilt | Angle | Load capacity | Truck Weight    |
|--------------------|-------|--------------|----------------|------------------|------|-------|---------------|-----------------|
| Mast               | туре  | Height (mm)  | (Lowered) mm   | (mm)             | FWD  | BWD   | 1200mm LC     | (Unloaded) (kg) |
|                    | V300  | 3020         | 3200           | 0                | 10   | 10    | 16000         | 25114           |
|                    | V330  | 3320         | 3350           | 0                | 10   | 10    | 16000         | 25242           |
|                    | V350  | 3520         | 3450           | 0                | 10   | 10    | 16000         | 25318           |
|                    | V400  | 4020         | 3700           | 0                | 10   | 10    | 16000         | 25689           |
| 2 Stage<br>Without | V450  | 4520         | 3950           | 0                | 10   | 10    | 16000         | 25835           |
| Free Lift          | V500  | 5020         | 4200           | 0                | 10   | 10    | 16000         | 26212           |
| TIGG LIIL          | V550  | 5520         | 4450           | 0                | 10   | 10    | 16000         | 26426           |
|                    | V600  | 6020         | 4700           | 0                | 10   | 10    | 16000         | 26641           |
|                    | V650  | 6520         | 4950           | 0                | 10   | 10    | 16000         | 26838           |
|                    | V700  | 7020         | 5200           | 0                | 10   | 10    | 16000         | 27028           |
|                    | TS460 | 4634         | 2950           | 1538             | 10   | 10    | 16000         | 26498           |
|                    | TS508 | 5084         | 3100           | 1688             | 10   | 10    | 16000         | 26670           |
| 3 Stage            | TS538 | 5384         | 3200           | 1788             | 10   | 10    | 16000         | 26841           |
| Full               | TS568 | 5684         | 3300           | 1888             | 10   | 10    | 16000         | 26933           |
| Free Lift          | TS600 | 6044         | 3420           | 2008             | 10   | 10    | 16000         | 27070           |
|                    | TS658 | 6584         | 3600           | 2188             | 10   | 10    | 16000         | 27264           |
|                    | TS700 | 7034         | 3750           | 2338             | 10   | 10    | 16000         | 27413           |





# STANDARD/OPTIONAL EQUIPMENT

| CABIN & INTERIOR   | 120D-<br>9V | 130D-<br>9V | 160D-<br>9V | 160D-<br>9LV |
|--|-------------|-------------|-------------|--------------|
| New Cabin  | •           | •           | •           | •            |
| Wiper for Top window   |             |             |             |              |
| A/C & Heater*  | •           | •           | •           | •            |
| Seat   |             |             |             |              |
| Long Back Seat - Full Suspension                                   | •           | •           | •           | •            |
| Seat Options - Air suspension & Swivel seat,<br>Leather Seat, Heat |             |             |             |              |
| Seat Accessories - Orange belt, Arm rest,<br>Buckle switch         | •           | •           | •           | •            |
| Lever  |             |             |             |              |
| Lever - General  | •           | •           | •           | •            |
| Finger Tip   |             |             |             |              |
| Bluetooth Radio  | •           | •           | •           | •            |

<sup>\*</sup>The air conditioning system contains fluorinated greenhouse gas refrigerant R134a.(Global Warming Potential: 1,430) The system contains 0.55 kg refrigerant representing a CO<sub>2</sub> equivalent of 0.787 metric tonnes.

| MAST & ATTACHMENT                                      | 120D-<br>9V | 130D-<br>9V | 160D-<br>9V | 160D-<br>9LV |
|--|-------------|-------------|-------------|--------------|
| Mast   |             |             |             |              |
| Standard Mast  | V400        | V400        | V400        | V400         |
| 2-Stage Mast   | •           | •           | •           | •            |
| 3-Stage Mast   |             |             |             |              |
| Fork   |             |             |             |              |
| Standard Fork  | 2440mm      | 2440mm      | 2440mm      | 2440mm       |
| Fork Options - 1,200mm - 2,600mm Fork                  |             |             |             |              |
| Carriage   |             | •           |             |              |
| Shaft(pin) Type Carriage                               | •           | •           | •           |              |
| Carriage Options                                       |             |             |             |              |
| Shaft  | •           | •           | •           |              |
| Sliding  |             |             |             | •            |
| Sliding & Holder                                       |             |             |             |              |
| Simple type  |             |             |             | Х            |
| Attachment   |             |             |             |              |
| Intergral Side Shift                                   |             |             |             |              |
| Fork Positioner – Independent, Synchronized            |             |             |             |              |
| Side Shift & Positioner – Independent,<br>Synchronized | •           | •           | •           | •            |

| HYDRAULIC                                   | 120D-<br>9V | 130D-<br>9V | 160D-<br>9V | 160D-<br>9LV |
|---|-------------|-------------|-------------|--------------|
| 4 Spool MCV + attached piping for V400 Mast | •           | •           | •           | •            |
| MCV Options - 5 Spool                       |             |             |             |              |
| Attached Piping for All MCVs & Masts        |             |             |             |              |

| TYRE                       | 120D-<br>9V | 130D-<br>9V | 160D-<br>9V | 160D-<br>9LV |
|----------------------------|-------------|-------------|-------------|--------------|
| Pneumatic Tires            | •           | •           | •           | •            |
| Tire Options - Solid Tires |             |             |             |              |

| VISIBILITY                              | 120D-<br>9V | 130D-<br>9V | 160D-<br>9V | 160D-<br>9LV |
|---|-------------|-------------|-------------|--------------|
| Lamp                                    |             |             |             |              |
| Working Lamp - Front & Rear LED         | •           | •           | •           | •            |
| Mirror                                  |             |             |             |              |
| L/H & R/H Back Mirror & Panorama Mirror | •           | •           | •           | •            |
| Heated L/H & R/H Back Mirror            |             |             |             |              |
| Camera                                  |             |             |             |              |
| Rear Camera                             |             |             |             |              |

| CONVENIENCE                | 120D-<br>9V | 130D-<br>9V | 160D-<br>9V | 160D-<br>9LV |
|----------------------------|-------------|-------------|-------------|--------------|
| Auto Tilt                  |             |             |             |              |
| Load Sensor                | •           | •           | •           | •            |
| Load Sensor & Angle Sensor |             |             |             |              |
| Accumulator                |             |             |             |              |
| Unidirectional Fan         | •           | •           | •           | •            |

| SAFETY              | 120D-<br>9V | 130D-<br>9V | 160D-<br>9V | 160D-<br>9LV |
|---------------------|-------------|-------------|-------------|--------------|
| Seat Belt interlock | •           | •           | •           | •            |
| LED Beacon Lamp     |             |             |             |              |

| OTHERS            | 120D-<br>9V | 130D-<br>9V | 160D-<br>9V | 160D-<br>9LV |
|-------------------|-------------|-------------|-------------|--------------|
| Air Compressor    |             |             |             |              |
| Under Cover       |             |             |             |              |
| Oil - VG46        | •           | •           | •           | •            |
| Hi-MATE (General) |             |             |             |              |
| Hi-MATE (Premium) |             |             |             |              |

Standard

X Not available

Standard and optional equipment may vary. Contact your Hyundai dealer for more information

The machine may vary according to International standards.

The photos may include attachments and optional equipment that are not available in your area.

Materials and specifications are subject to change without advance notice.



Specifications and design are subject to change without notice. Pictures of Hyundai Material Handling Europe products may show other than standard equipment. This brochure is intended for European markets only.

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