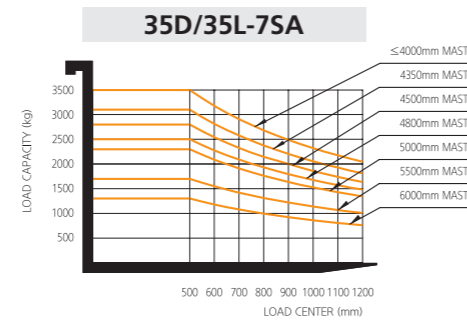
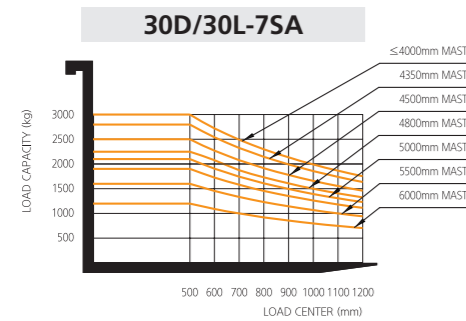
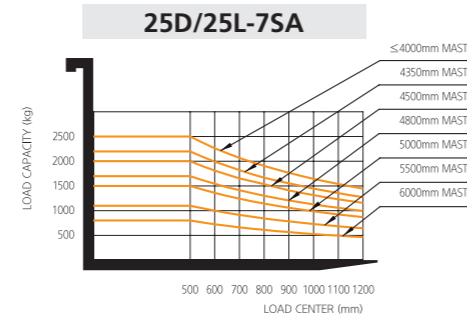
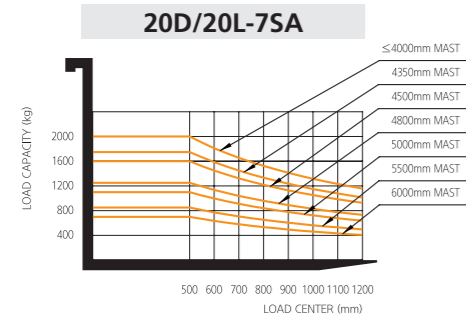


## Load Capacity



## Diesel & Dual Fuel Engines

|                 | MITSUBISHI (Diesel)    | NISSAN (LPG&Gasoline) |
|-----------------|------------------------|-----------------------|
| Model           | S4S (Eu III / EPA III) | K25                   |
| Rated output    | 35.3kW / 2250rpm       | 37.4kW / 2350rpm      |
| Rated torque    | 177N.m / 1700rpm       | 171.2N.m / 1600rpm    |
| No. of cylinder | 4                      | 4                     |
| Bore X Stroke   | 94 X 120mm             | 89 X 100mm            |
| Displacement    | 3.331L                 | 2,488L                |

## Optional Items

- Fork(mm)  
1070(STD), 1220, 1370, 1520, 1670, 1820, 2120
- Sideshift, Fork Positioner, Sideshift & Fork Positioner
- Integrated Sideshift, Integrated Fork Positioner, Integrated Sideshift & Fork Positioner
- Tire : Solid / Non-marking / Front double tire
- M.C.V : 3-Spool, 4-Spool
- Seat : Grammar MSG 65 (Suspension, Armrest, OPSS S/W, Buckle SW)
- Load Weight Indicator
- Cabin  
Full Enclosed Cabin (Heater + A/C)  
Partial Cabin (Top + Front + Rear)  
Closed Roof (Top only)
- Rear Grip with Horn
- Pre Cleaner
- Fire Extinguisher
- Exhaust : Horizontal
- OPSS (Travel, Travel + Mast)
- Tilting : 6°/6°, 3°/6°
- Piping : 3rd & 4th Piping for Attachments

**HYUNDAI**  
CONSTRUCTION EQUIPMENT

Head Office (Sales office)

First tower, 55, Bundang-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea

PLEASE CONTACT

www.hyundai-ce.com

2017. 11 Rev. 2

# 20/25/30/35D-7SA 20/25/30/35L-7SA

Diesel & Dual Fuel(LPG&Gasoline) Counterbalance Trucks

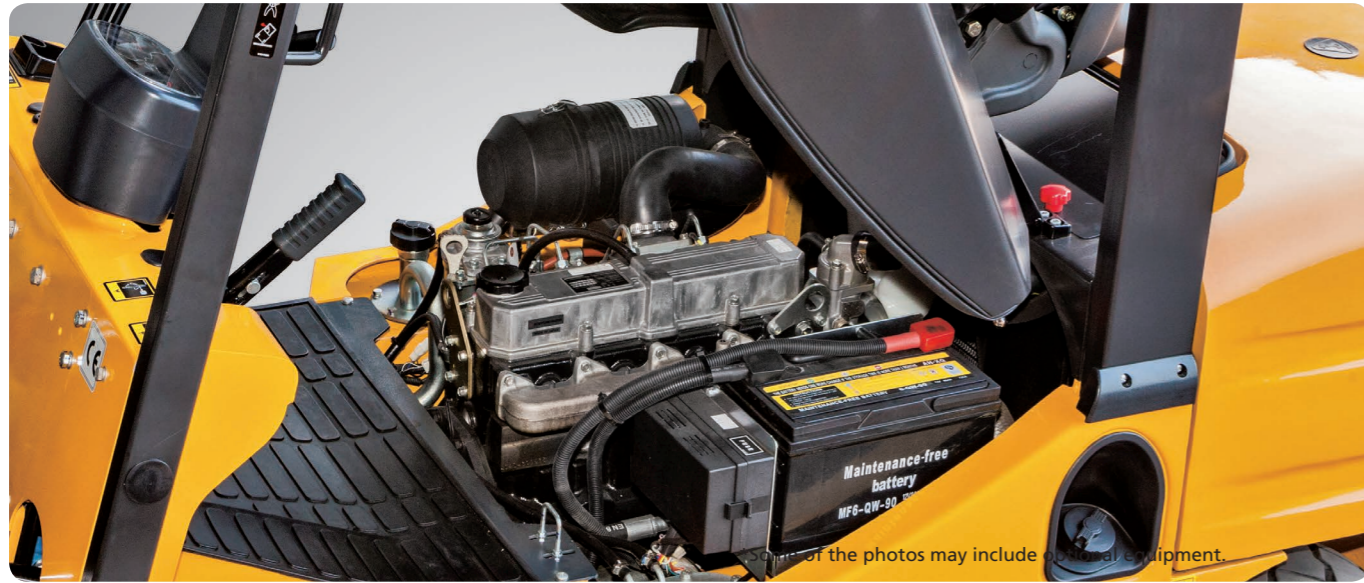
MOVING YOU FURTHER

HYUNDAI CONSTRUCTION EQUIPMENT



■ Some of the photos may include optional equipment.

**HYUNDAI**  
CONSTRUCTION EQUIPMENT



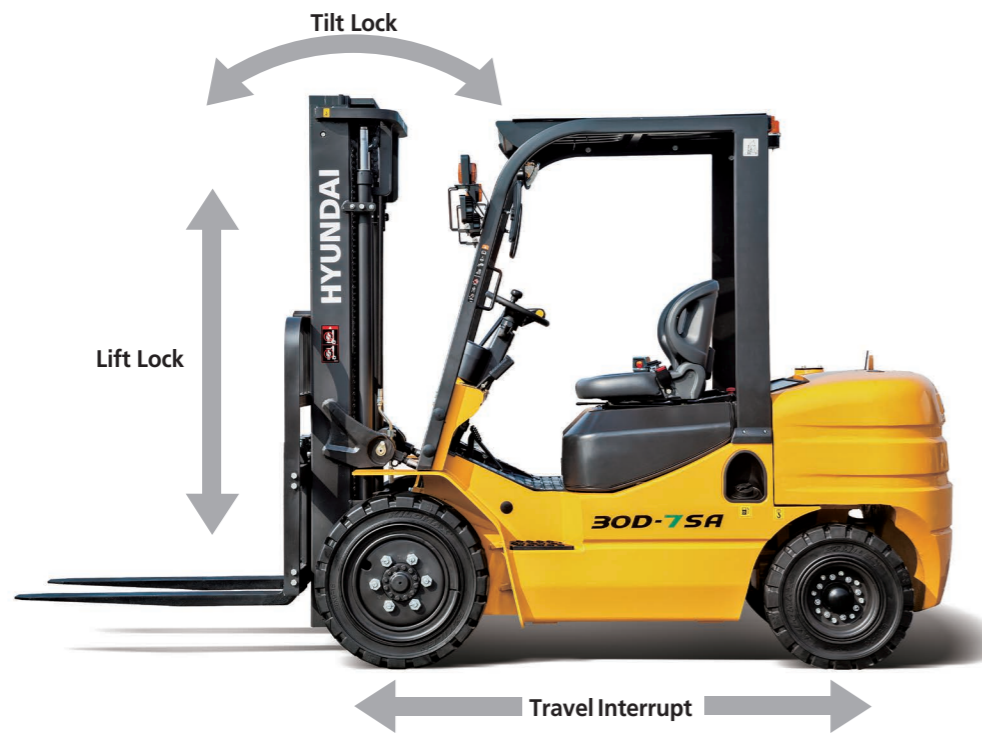
### Bigger checking & Easy maintenance

7SA trucks is designed larger space and compact wire distribution. It's convenient for checking and maintain.



### Spacious operating room

\*Some of the photos may include optional equipment.



### Safety

#### OPSS (Operator Presence Sensing System) - Option

This forklift model is equipped with an operator existence sensing system per ANSVASME B56.1

- Travel Cut Off and Parking Warning
- Mast and Tilt Lock

#### Electrical Interlock

When parking brake engaged Travel electric power intercepted. Even if forward or reverse lever operated, vehicle can't be traveled

#### Hydraulic system

- Control of mast tilting, lifting and lowering is not possible through operation of the appropriate control when the operator is not in the normal position.
- The tilt lock valve prevents a moving of tilt cylinder when engine off.
- Provides the option of a four-section control valve.



### Enough floor space for easy foot movements

Optimized foot spaces gives the less fatigue to operate and enlarged low height of foot step gives more spacious for easy access to get on and take off.

### Low entrance height

Skid proof access pedal guarantee drivers access the forklift convenience and safety. An entrance is more spacious for both sides riding.



### Adjustable steering wheel accommodates various operator's conditions

Tilting angle : 25° / With horn S/W



### Option Grammer Seat(MSG65)

Easily adjustable suspension seat is based on human engineering design. It reduces operator fatigue and provides greater comfort.

- 1) Armrest + OPSS S/W
- 2) Armrest + OPSS S/W + Buckle S/W

### Advanced Monitor

The wide color monitor allows the operator to control the machine with ease. The monitor features speed, travel direction, battery discharge indicator and hour meter.



- ❶ Hour-meter
- ❷ Fuel gauge
- ❸ Water temperature gauge
- ❹ Left turn indicator light
- ❺ Right turn indicator light
- ❻ Neutral light
- ❼ Sediment indicator light
- ❽ Pre-heat indicator light
- ❾ Seat belt light
- ❿ T/M oil temp gauge
- ⓫ E/G oil pressure alert light
- ⓬ Battery charging light
- ⓭ Air filter indicator light



Front & Rear LED Lamp(STD)



Fully hydrostatic power steering  
The hydraulic steering system always guarantees smooth and flexible steering, preventing over-run and kick-back.



Wide view mast  
7SA series forklift mast adopts wide view mast, out width of the mast is 720mm, significantly improves the driver's front fields of view, reduces dead zones and increases the safety and comfort of the operation.

### Mast Specification (20D/20L-7SA)

| Mast Type                 | Maximum Fork Height (mm) | Overall Height (mm) | Free lift height (mm) |                       | Tilt Angle (deg) |     | Load capacity w/o side shift 500mm LC (kg) |             | Load capacity w/ side shift 500mm LC (kg) |             | Truck Weight (Unloaded) (kg) |             |             |             |         |
|---------------------------|--------------------------|---------------------|-----------------------|-----------------------|------------------|-----|--|-------------|---|-------------|------------------------------|-------------|-------------|-------------|---------|
|                           |                          |                     | With Load Backrest    | Without Load Backrest | Fwd              | Bwd | Single Tire                                | Double Tire | Single Tire                               | Double Tire | Single Tire                  | Double Tire | Single Tire | Double Tire |         |
|                           |                          |                     |                       |                       |                  |     |  |             |   |             |                              |             |             |             | 20D/20L |
| 2-STAGE LIMITED FREE LIFT | V300                     | 3000                | 2010                  | 160                   | 160              | 6   | 12   | 2000        | 2000                                      | 1950        | 1950                         | 3400        | 3465        | 3320        | 3385    |
|                           | V330                     | 3300                | 2160                  | 160                   | 160              | 6   | 12   | 2000        | 2000                                      | 1950        | 1950                         | 3415        | 3480        | 3335        | 3400    |
|                           | V400                     | 4000                | 2560                  | 160                   | 160              | 6   | 6  | 2000        | 2000                                      | 1950        | 1950                         | 3520        | 3585        | 3440        | 3505    |
|                           | V450                     | 4500                | 2810                  | 160                   | 160              | 6   | 6  | 1600        | 1900                                      | 1550        | 1850                         | 3550        | 3615        | 3470        | 3535    |
|                           | V500                     | 5000                | 3060                  | 160                   | 160              | 6   | 6  | 1200        | 1700                                      | 1150        | 1650                         | 3590        | 3655        | 3510        | 3575    |
| 2-STAGE FULL FREE LIFT    | VF300                    | 3000                | 2010                  | 1020                  | 1420             | 6   | 12   | 2000        | 2000                                      | 1950        | 1950                         | 3495        | 3560        | 3415        | 3480    |
|                           | VF330                    | 3300                | 2160                  | 1170                  | 1570             | 6   | 12   | 2000        | 2000                                      | 1950        | 1950                         | 3515        | 3580        | 3435        | 3500    |
|                           | VF350                    | 3500                | 2260                  | 1270                  | 1670             | 6   | 6  | 2000        | 2000                                      | 1950        | 1950                         | 3530        | 3595        | 3450        | 3515    |
| 3-STAGE                   | TF435                    | 4350                | 2010                  | 1020                  | 1390             | 6   | 6  | 1750        | 1900                                      | 1700        | 1850                         | 3610        | 3675        | 3530        | 3595    |
|                           | TF450                    | 4500                | 2060                  | 1070                  | 1440             | 6   | 6  | 1600        | 1800                                      | 1550        | 1750                         | 3630        | 3695        | 3550        | 3615    |
|                           | TF480                    | 4800                | 2160                  | 1170                  | 1540             | 6   | 6  | 1250        | 1700                                      | 1200        | 1650                         | 3655        | 3720        | 3575        | 3640    |
|                           | TF500                    | 5000                | 2260                  | 1270                  | 1640             | 6   | 6  | 1100        | 1600                                      | 1050        | 1550                         | 3685        | 3650        | 3605        | 3570    |
|                           | TF550                    | 5500                | 2385                  | 1395                  | 1765             | 3   | 6  | 850         | 1350                                      | 800         | 1300                         | 3720        | 3685        | 3640        | 3605    |
| TF600                     | 6000                     | 2610                | 1620                  | 1990                  | 3                | 6   | 700  | 1100        | 650                                       | 1050        | 3755                         | 3720        | 3675        | 3640        |         |

### Mast Specification (25D/25L-7SA)

| Mast Type                 | Maximum Fork Height (mm) | Overall Height (mm) | Free lift height (mm) |                       | Tilt Angle (deg) |     | Load capacity w/o side shift 500mm LC (kg) |             | Load capacity w/ side shift 500mm LC (kg) |             | Truck Weight (Unloaded) (kg) |             |             |             |         |
|---------------------------|--------------------------|---------------------|-----------------------|-----------------------|------------------|-----|--|-------------|---|-------------|------------------------------|-------------|-------------|-------------|---------|
|                           |                          |                     | With Load Backrest    | Without Load Backrest | Fwd              | Bwd | Single Tire                                | Double Tire | Single Tire                               | Double Tire | Single Tire                  | Double Tire | Single Tire | Double Tire |         |
|                           |                          |                     |                       |                       |                  |     |  |             |   |             |                              |             |             |             | 25D/25L |
| 2-STAGE LIMITED FREE LIFT | V300                     | 3000                | 2010                  | 160                   | 160              | 6   | 12   | 2500        | -   | 2450        | -                            | 3700        | 3765        | 3620        | 3685    |
|                           | V330                     | 3300                | 2160                  | 160                   | 160              | 6   | 12   | 2500        | -   | 2450        | -                            | 3715        | 3780        | 3635        | 3700    |
|                           | V400                     | 4000                | 2560                  | 160                   | 160              | 6   | 6  | 2500        | -   | 2450        | -                            | 3820        | 3885        | 3740        | 3805    |
|                           | V450                     | 4500                | 2810                  | 160                   | 160              | 6   | 6  | 2100        | 2400                                      | 2050        | 2350                         | 3850        | 3915        | 3770        | 3835    |
|                           | V500                     | 5000                | 3060                  | 160                   | 160              | 6   | 6  | 1600        | 1900                                      | 1550        | 1850                         | 3890        | 3955        | 3810        | 3875    |
| 2-STAGE FULL FREE LIFT    | VF300                    | 3000                | 2010                  | 1020                  | 1420             | 6   | 12   | 2500        | -   | 2450        | -                            | 3795        | 3860        | 3715        | 3780    |
|                           | VF330                    | 3300                | 2160                  | 1170                  | 1570             | 6   | 12   | 2500        | -   | 2450        | -                            | 3815        | 3880        | 3735        | 3800    |
|                           | VF350                    | 3500                | 2260                  | 1270                  | 1670             | 6   | 6  | 2500        | -   | 2450        | -                            | 3830        | 3895        | 3750        | 3815    |
| 3-STAGE                   | TF435                    | 4350                | 2010                  | 1020                  | 1390             | 6   | 6  | 2200        | 2400                                      | 2150        | 2350                         | 3910        | 3975        | 3830        | 3895    |
|                           | TF450                    | 4500                | 2060                  | 1070                  | 1440             | 6   | 6  | 2000        | 2300                                      | 1950        | 2250                         | 3930        | 3995        | 3850        | 3915    |
|                           | TF480                    | 4800                | 2160                  | 1170                  | 1540             | 6   | 6  | 1700        | 2000                                      | 1650        | 1950                         | 3955        | 4020        | 3875        | 3940    |
|                           | TF500                    | 5000                | 2260                  | 1270                  | 1640             | 6   | 6  | 1500        | 1800                                      | 1450        | 1750                         | 3985        | 3950        | 3905        | 3870    |
|                           | TF550                    | 5500                | 2385                  | 1395                  | 1765             | 3   | 6  | 1100        | 1500                                      | 1050        | 1450                         | 4020        | 3985        | 3940        | 3905    |
| TF600                     | 6000                     | 2610                | 1620                  | 1990                  | 3                | 6   | 800  | 1300        | 750                                       | 1250        | 4055                         | 4020        | 3975        | 3940        |         |

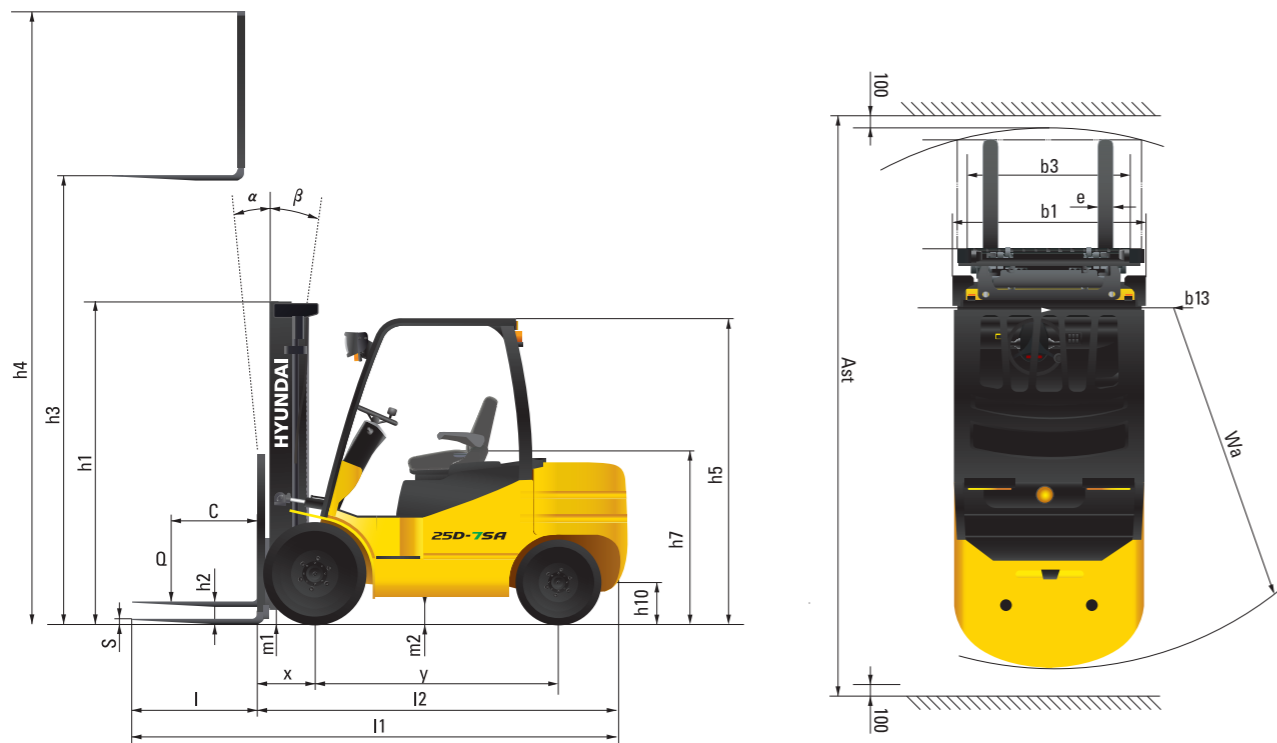
### Mast Specification (30D/30L-7SA)

| Mast Type                 | Maximum Fork Height (mm) | Overall Height (mm) | Free lift height (mm) |                       | Tilt Angle (deg) |     | Load capacity w/o side shift 500mm LC (kg) |             | Load capacity w/ side shift 500mm LC (kg) |             | Truck Weight (Unloaded) (kg) |             |             |             |         |
|---------------------------|--------------------------|---------------------|-----------------------|-----------------------|------------------|-----|--|-------------|---|-------------|------------------------------|-------------|-------------|-------------|---------|
|                           |                          |                     | With Load Backrest    | Without Load Backrest | Fwd              | Bwd | Single Tire                                | Double Tire | Single Tire                               | Double Tire | Single Tire                  | Double Tire | Single Tire | Double Tire |         |
|                           |                          |                     |                       |                       |                  |     |  |             |   |             |                              |             |             |             | 30D/30L |
| 2-STAGE LIMITED FREE LIFT | V300                     | 3000                | 2075                  | 165                   | 165              | 6   | 12   | 3000        | -   | 2950        | -                            | 4380        | 4455        | 4300        | 4375    |
|                           | V330                     | 3300                | 2225                  | 165                   | 165              | 6   | 12   | 3000        | -   | 2950        | -                            | 4405        | 4480        | 4325        | 4400    |
|                           | V400                     | 4000                | 2625                  | 165                   | 165              | 6   | 6  | 3000        | -   | 2950        | -                            | 4510        | 4585        | 4430        | 4505    |
|                           | V450                     | 4500                | 2875                  | 165                   | 165              | 6   | 6  | 2600        | 2800                                      | 2550        | 2750                         | 4555        | 4630        | 4475        | 4550    |
|                           | V500                     | 5000                | 3125                  | 165                   | 165              | 6   | 6  | 2100        | 2400                                      | 2050        | 2350                         | 4600        | 4675        | 4520        | 4595    |
| 2-STAGE FULL FREE LIFT    | VF300                    | 3000                | 2075                  | 975                   | 1425             | 6   | 12   | 3000        | -   | 2950        | -                            | 4440        | 4515        | 4360        | 4435    |
|                           | VF330                    | 3300                | 2225                  | 1125                  | 1575             | 6   | 12   | 3000        | -   | 2950        | -                            | 4460        | 4535        | 4380        | 4455    |
|                           | VF350                    | 3500                | 2325                  | 1225                  | 1675             | 6   | 6  | 3000        | -   | 2950        | -                            | 4475        | 4550        | 4395        | 4470    |
| 3-STAGE                   | TF435                    | 4350                | 2075                  | 975                   | 1475             | 6   | 6  | 2800        | 2900                                      | 2750        | 2850                         | 4635        | 4710        | 4555        | 4630    |
|                           | TF450                    | 4500                | 2125                  | 1025                  | 1525             | 6   | 6  | 2500        | 2700                                      | 2450        | 2650                         | 4645        | 4720        | 4565        | 4640    |
|                           | TF480                    | 4800                | 2225                  | 1125                  | 1625             | 6   | 6  | 2250        | 2450                                      | 2200        | 2400                         | 4665        | 4740        | 4585        | 4660    |
|                           | TF500                    | 5000                | 2325                  | 1225                  | 1725             | 6   | 6  | 2100        | 2300                                      | 2050        | 2250                         | 4690        | 4765        | 4610        | 4685    |
|                           | TF550                    | 5500                | 2490                  | 1390                  | 1890             | 3   | 6  | 1600        | 2050                                      | 1550        | 2000                         | 4735        | 4810        | 4655        | 4730    |
| TF600                     | 6000                     | 2675                | 1575                  | 2075                  | 3                | 6   | 1200                                       | 1900        | 1150                                      | 1850        | 4780                         | 4855        | 4700        | 4775        |         |

## Mast Specification (35D/35L-7SA)

| Mast Type                 | Maximum Fork Height (mm) | Overall Height (mm) | Free lift height (mm) |                       | Tilt Angle (deg) |     | Load capacity w/o side shift 500mm LC (kg) |             | Load capacity w/ side shift 500mm LC (kg) |             | Truck Weight (Unloaded) (kg) |             |             |             |         |
|---------------------------|--------------------------|---------------------|-----------------------|-----------------------|------------------|-----|--|-------------|---|-------------|------------------------------|-------------|-------------|-------------|---------|
|                           |                          |                     | With Load Backrest    | Without Load Backrest | Fwd              | Bwd | Single Tire                                | Double Tire | Single Tire                               | Double Tire | Single Tire                  | Double Tire | Single Tire | Double Tire |         |
|                           |                          |                     |                       |                       |                  |     |  |             |   |             |                              |             |             |             | 35D/35L |
| 2-STAGE LIMITED FREE LIFT | V300                     | 3000                | 2150                  | 170                   | 170              | 6   | 12   | 3500        | -   | 3450        | -                            | 4730        | 4805        | 4650        | 4725    |
|                           | V330                     | 3300                | 2300                  | 170                   | 170              | 6   | 12   | 3500        | -   | 3450        | -                            | 4755        | 4830        | 4675        | 4750    |
|                           | V400                     | 4000                | 2700                  | 170                   | 170              | 6   | 6  | 3300        | 3500                                      | 3250        | 3450                         | 4860        | 4935        | 4780        | 4855    |
|                           | V450                     | 4500                | 2950                  | 170                   | 170              | 6   | 6  | 2900        | 3100                                      | 2850        | 3050                         | 4905        | 4980        | 4825        | 4900    |
| 2-STAGE FULL FREE LIFT    | V500                     | 5000                | 3200                  | 170                   | 170              | 6   | 6  | 2400        | 2750                                      | 2350        | 2700                         | 4950        | 5025        | 4870        | 4945    |
|                           | VF300                    | 3000                | 2150                  | 1050                  | 1470             | 6   | 12   | 3500        | -   | 3450        | -                            | 4790        | 4865        | 4710        | 4785    |
|                           | VF330                    | 3300                | 2300                  | 1200                  | 1620             | 6   | 12   | 3500        | -   | 3450        | -                            | 4810        | 4885        | 4730        | 4805    |
| 3-STAGE                   | VF350                    | 3500                | 2400                  | 1300                  | 1720             | 6   | 6  | 3500        | -   | 3450        | -                            | 4825        | 4900        | 4745        | 4820    |
|                           | TF435                    | 4350                | 2150                  | 1050                  | 1510             | 6   | 6  | 3100        | 3350                                      | 3050        | 3300                         | 4985        | 5060        | 4905        | 4980    |
|                           | TF450                    | 4500                | 2200                  | 1100                  | 1560             | 6   | 6  | 2800        | 3000                                      | 2750        | 2950                         | 4995        | 5070        | 4915        | 4990    |
|                           | TF480                    | 4800                | 2300                  | 1200                  | 1660             | 6   | 6  | 2500        | 2750                                      | 2450        | 2700                         | 5015        | 5090        | 4935        | 5010    |
|                           | TF500                    | 5000                | 2400                  | 1300                  | 1760             | 6   | 6  | 2300        | 2600                                      | 2250        | 2550                         | 5040        | 5115        | 4960        | 5035    |
|                           | TF550                    | 5500                | 2565                  | 1465                  | 1925             | 3   | 6  | 1700        | 2200                                      | 1650        | 2150                         | 5085        | 5160        | 5005        | 5080    |
| TF600                     | 6000                     | 2750                | 1650                  | 2110                  | 3                | 6   | 1300                                       | 2100        | 1250                                      | 2050        | 5130                         | 5205        | 5050        | 5125        |         |

## Dimension



## Specification

| Identification |  |         |         |         |         |              |              |              |              |      |
|----------------|--|---------|---------|---------|---------|--------------|--------------|--------------|--------------|------|
| 1.1            | Manufacturer   | Hyundai | Hyundai | Hyundai | Hyundai | Hyundai      | Hyundai      | Hyundai      | Hyundai      |      |
| 1.2            | Manufacturer's model designation                                     | 20D-7SA | 25D-7SA | 30D-7SA | 35D-7SA | 20L-7SA      | 25L-7SA      | 30L-7SA      | 35L-7SA      |      |
| 1.3            | Drive: electric (battery or mains), diesel, petrol, fuel gas, manual | Diesel  | Diesel  | Diesel  | Diesel  | LPG&Gasoline | LPG&Gasoline | LPG&Gasoline | LPG&Gasoline |      |
| 1.4            | Type of operation: hand, pedestrian, standing, seated, order-picker  | seated  | seated  | seated  | seated  | seated       | seated       | seated       | seated       |      |
| 1.5            | Load capacity / Rated load   | kg      | 2000    | 2500    | 3000    | 3500         | 2000         | 2500         | 3000         | 3500 |
| 1.6            | Load center distance   | c mm    | 500     | 500     | 500     | 500          | 500          | 500          | 500          |      |
| 1.8            | Load distance, center of drive axle to fork                          | x mm    | 475     | 475     | 490     | 510          | 475          | 475          | 490          | 510  |
| 1.9            | Wheelbase  | y mm    | 1600    | 1600    | 1700    | 1700         | 1600         | 1600         | 1700         | 1700 |

| Weights |                                     |    |           |           |           |           |           |           |           |           |
|---------|-------------------------------------|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 2.1     | Service weight                      | kg | 3400      | 3700      | 4380      | 4730      | 3320      | 3620      | 4300      | 4650      |
| 2.2     | Axle loading, loaded front / rear   | kg | 4600/800  | 5220/980  | 6520/860  | 7270/960  | 4570/750  | 5260/860  | 6480/820  | 7220/930  |
| 2.3     | Axle loading, unloaded front / rear | kg | 1450/1950 | 1600/2100 | 1830/2550 | 1650/3080 | 1430/1890 | 1530/2060 | 1940/2360 | 2100/2550 |

| Wheels, Chassis |   |        |              |              |               |               |              |              |               |               |      |
|-----------------|---|--------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|---------------|------|
| 3.1             | Tires ; Pneumatic(P), Solid(S), Non-marking(N)  |        | P            | P            | P             | P             | P            | P            | P             |               |      |
| 3.2             | Tires size, front                               | Single | 7.00-12-12PR | 7.00-12-12PR | 28x9-15-14 PR | 28x9-15-14 PR | 7.00-12-12PR | 7.00-12-12PR | 28x9-15-14 PR | 28x9-15-14 PR |      |
|                 |   | Double | -            | -            | -             | -             | -            | -            | -             | -             |      |
| 3.3             | Tires size, rear                                | Single | 6.00-9-10PR  | 6.00-9-10PR  | 6.50-10-10 PR | 6.50-10-10 PR | 6.00-9-10PR  | 6.00-9-10PR  | 6.50-10-10 PR | 6.50-10-10 PR |      |
|                 |   | Double | -            | -            | -             | -             | -            | -            | -             | -             |      |
| 3.4             | Number of wheels front / rear (x=driven wheels) |        | 2x / 2       | 2x / 2       | 2x / 2        | 2x / 2        | 2x / 2       | 2x / 2       | 2x / 2        |               |      |
| 3.5             | Tires width, front                              | Single | mm           | 970          | 970           | 1000          | 1000         | 970          | 970           | 1000          | 1000 |
|                 |   | Double | mm           | -            | -             | -             | -            | -            | -             | -             | -    |
|                 | Tires width, rear                               | mm     | 980          | 980          | 980           | 980           | 980          | 980          | 980           | 980           |      |

| Basic Dimensions |   |                |             |             |             |             |             |             |             |             |      |
|------------------|---|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|
| 4.1              | Mast / fork carriage tilt forward / backward ( $\alpha / \beta$ ) | degrees        | 6 / 12      | 6 / 12      | 6 / 12      | 6 / 12      | 6 / 12      | 6 / 12      | 6 / 12      |             |      |
| 4.2              | Lowered mast height   | h1 (mm)        | 2010        | 2010        | 2075        | 2150        | 2010        | 2010        | 2075        | 2150        |      |
| 4.3              | Free lift   | h2 (mm)        | 160         | 160         | 165         | 170         | 160         | 160         | 165         | 170         |      |
| 4.4              | Lift height   | h3 (mm)        | 3000        | 3000        | 3000        | 3000        | 3000        | 3000        | 3000        | 3000        |      |
| 4.5              | Extended mast height  | h4 (mm)        | 3990        | 3990        | 4100        | 4100        | 3990        | 3990        | 4100        | 4100        |      |
| 4.7              | Overhead guard height (cabin)                                     | h5 (mm)        | 2145        | 2145        | 2170        | 2170        | 2145        | 2145        | 2170        | 2170        |      |
| 4.8              | Seat height / standing height rel. to SIP                         | h7 (mm)        | 1097        | 1097        | 1097        | 1097        | 1097        | 1097        | 1097        | 1097        |      |
| 4.12             | Coupling height   | h10 (mm)       | 307         | 307         | 326         | 326         | 307         | 307         | 326         | 326         |      |
| 4.19             | Overall length  | l1 (mm)        | 3660        | 3660        | 3775        | 3860        | 3660        | 3660        | 3775        | 3860        |      |
| 4.20             | Length to face of forks   | l2 (mm)        | 2590        | 2590        | 2705        | 2790        | 2590        | 2590        | 2705        | 2790        |      |
| 4.21             | Overall width   | Single         | b1 (mm)     | 1150        | 1150        | 1210        | 1210        | 1150        | 1150        | 1210        | 1210 |
|                  |   | Double         | b1 (mm)     | -           | -           | -           | -           | -           | -           | -           | -    |
| 4.22             | Fork dimensions(hook type)  | l / e / s (mm) | 1070x122x40 | 1070x122x40 | 1070x125x45 | 1070x130x50 | 1070x122x40 | 1070x122x40 | 1070x125x45 | 1070x130x50 |      |
| 4.23             | Fork carriage ISO 2328, class / type A,B                          |                | 2A          | 2A          | 3A          | 3A          | 2A          | 2A          | 3A          | 3A          |      |
| 4.24             | Fork-carriage width   | b3 (mm)        | 250/1040    | 250/1040    | 250/1100    | 250/1100    | 250/1040    | 250/1040    | 250/1100    | 260/1100    |      |
| 4.31             | Ground clearance, loaded, under mast                              | m1 (mm)        | 125         | 125         | 140         | 140         | 125         | 125         | 140         | 140         |      |
| 4.32             | Ground clearance, centre of wheelbase                             | m2 (mm)        | 147         | 147         | 207         | 207         | 147         | 147         | 207         | 207         |      |
| 4.33             | Aisle width for pallets 1,000x1,200 crossways (LxW)               | Ast (mm)       | 3890        | 3955        | 4115        | 4155        | 3885        | 3955        | 4115        | 4155        |      |
| 4.34             | Aisle width for pallets 800x1,200 lengthways (WxL)                | Ast (mm)       | 4085        | 4155        | 4315        | 4355        | 4085        | 4155        | 4315        | 4355        |      |
| 4.35             | Turning radius  | Wa (mm)        | 2330        | 2330        | 2450        | 2510        | 2330        | 2330        | 2450        | 2510        |      |
| 4.36             | Smallest pivot point distance                                     | b13 (mm)       | 755         | 755         | 830         | 830         | 755         | 755         | 830         | 830         |      |

| Performance Data |                                     |      |           |           |           |           |           |           |           |           |
|------------------|-------------------------------------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 5.1              | Travel speed, loaded/unloaded       | km/h | /20       | /20       | /19       | /18       | /20       | /20       | /19       | /18       |
| 5.2              | Lift speed, loaded/ unloaded        | mm/s | 530/550   | 530/550   | 425/440   | 335/350   | 530/550   | 530/550   | 425/440   | 335/350   |
| 5.3              | Lowering speed, loaded/unloaded     | mm/s | 420/380   | 420/380   | 400/380   | 400/380   | 420/380   | 420/380   | 400/380   | 400/380   |
| 5.6              | MAX. Drawbar pull, loaded/unloaded  | KN   | 17/15     | 17/15     | 19/17     | 19/17     | 17/15     | 17/15     | 17/15     | 17/15     |
| 5.8              | MAX. Gradeability, loaded/ unloaded | %    | 20/       | 20/       | 20/       | 18/       | 20/       | 20/       | 20/       | 18/       |
| 5.10             | Service brake                       |      | Hydraulic | Hydraulic | Hydraulic | Hydraulic | Hydraulic | Hydraulic | Hydraulic | Hydraulic |

| Engine |                                  |        |                    |                    |                    |                    |            |            |            |            |
|--------|----------------------------------|--------|--------------------|--------------------|--------------------|--------------------|------------|------------|------------|------------|
| 6.1    | Engine manufacturer / type       |        | MITSUBISHI/S45-455 | MITSUBISHI/S45-455 | MITSUBISHI/S45-455 | MITSUBISHI/S45-455 | Nissan K25 | Nissan K25 | Nissan K25 | Nissan K25 |
| 6.2    | Engine power acc. to ISO 1585    | kW/rpm | 35.3/2250          | 35.3/2250          | 35.3/2250          | 35.3/2250          | 37.4/2300  | 37.4/2300  | 37.4/2300  | 37.4/2300  |
| 6.3    | Maximum Torque                   | N.m    | 170±8              | 170±8              | 170±8              | 170±8              | 171.2      | 171.2      | 171.2      | 171.2      |
| 6.4    | No. of cylinder / cubic capacity | EA/cc  | 4/3.331            | 4/3.331            | 4/3.331            | 4/3.331            | 4/2.488    | 4/2.488    | 4/2.488    | 4/2.488    |

| Other Details |   |       |            |            |            |            |            |            |            |            |
|---------------|---|-------|------------|------------|------------|------------|------------|------------|------------|------------|
| 8.1           | Type of drive control   |       | PowerShift | PowerShift | PowerShift | PowerShift | PowerShift | PowerShift | PowerShift | PowerShift |
| 8.2           | Operating pressure, system / attach                           | Mpa   | 17.5       | 17.5       | 17.5       | 17.5       | 17.5       | 17.5       | 17.5       | 17.5       |
| 8.3           | Oil volume (hydraulic)  | ℓ     | 70         | 70         | 70         | 70         | 70         | 70         | 70         | 70         |
| 8.4           | Sound pressure level (at driver's ear according to DIN 12053) | dB(A) | 88.7       | 88.2       | 88.5       | 88.3       | 81.1       | 81.3       | 79.6       | 79.7       |
| 8.5           | Trailer coupling, type DIN                                    |       | PIN        | PIN        | PIN        | PIN        | PIN        | PIN        | PIN        | PIN        |