

## 1.5T - 4.0T Fluid Coupling Diesel Forklift

**HIGHER RELIABILITY**  
**HIGHER PERFORMANCE**  
**HIGHER PRODUCTIVITY**

Capacity : 1500/2000/2500/3000/4000 kg  
3000 kg Dual at 500 mm LC  
3000 kg at 900 mm LC  
4000 kg at 500 mm LC



### ENGINE

A four-cylinder diesel engine, conforming to IS:10000 (1980) is used. Bharat Stage III Compliant engines are available. Twin element dry type Air Filter with restriction indicator is provided. Engine is equipped with dual fuel filter and lubrication oil filter. Fuel tank capacity 40 litres.

A vertical exhaust system is standard. The exposed portions of the muffler are adequately guarded, with steel wire mesh enclosure. Water muffler, exhaust gas purifier or spark arrester can be provided as an optional accessory.

The engine cooling system with cross flow radiator and a pusher type fan is standard. A pressurized sealed cooling system with coolant recovery reservoir can be provided as an optional feature.

12 volts electrical system with starter motor, alternator and battery is standard.

### FLUID COUPLING TRANSMISSION (FC)

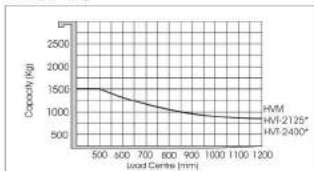
The fluid coupling drive between engine and clutch provides cushioned drive without metal to metal contact. Slipping takes place in coupling, greatly prolonging clutch life. Two speeds forward and reverse provide the full range of torque requirements. The floor mounted gear shifter lever eliminates complicated linkages and wear points. The one piece axle housing employs hypoid ring gear and pinion. A 4-pinion differential transmits power smoothly through the involute splined, full floating drive shafts. The rugged pinion design withstands the stresses of repeated tight turns. All gears operate in a common oil bath.

SPECIFICATIONS

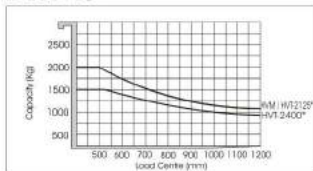
| GENERAL |                                      |                                     |       | DXV 15 FC        | DXV 20 FC        |
|---------|--------------------------------------|-------------------------------------|-------|------------------|------------------|
| 1       | MODEL                                |                                     |       |                  |                  |
| 2       | CAPACITY                             | LIFTING LOAD                        | KG    | 1500             | 2000             |
| 3       | LOAD CENTER                          | DISTANCE                            | MM    | 500              | 800              |
| 4       | POWER UNIT                           | ENGINE TYPE                         |       | DIESEL           | DIESEL           |
| 5       | TYRES                                | PNEUMATIC (P), CUSHION (C)          |       | PNEUMATIC - STD. | PNEUMATIC - STD. |
| 6       | LIFT HEIGHT STD MAST                 | MAX FORK HEIGHT                     | h3 MM | 3620             | 3620             |
| 7       |                                      | FRELIFT WITH STD HVM MAST           | h2 MM | 100              | 100              |
| 8       | FORK CARRIAGE                        | ISO CLASS                           |       | 2A               | 2A               |
| 9       | FORK DIMENSIONS                      | THICKNESS(H) X WIDTH(W) X LENGTH(L) | MM    | 40 X 100 X 1070  | 40 X 100 X 1070  |
| 10      | FORK SPREAD                          | MINIMUM - MAXIMUM                   | D7 MM | 240 - 965        | 240 - 965        |
| 11      | TILT ANGLE WITH HVM                  | FORWARD / BACKWARD                  | DEG   | 6 / 12           | 6 / 12           |
| 12      |                                      | LENGTH TO FACE OF FORKS             | D3 MM | 2650             | 2650             |
| 13      |                                      | OVERALL WIDTH                       | D6 MM | 1260             | 1260             |
| 14      | OVERALL DIMENSIONS WITH STD HVM MAST | HEIGHT WITH COLLAPSED MAST          | h1 MM | 2360             | 2360             |
| 15      |                                      | HEIGHT WITH EXTENDED MAST & LBR     | h4 MM | 4840             | 4840             |
| 16      |                                      | HEIGHT OF CANOPY GUARD              | h5 MM | 2160             | 2160             |
| 17      |                                      | SEAT HEIGHT                         | h6 MM | 1200             | 1200             |
| 18      | TURNING RADIUS                       |                                     | D8 MM | 2350             | 2350             |
| 19      | FRONT OVERHANG                       |                                     | D2 MM | 465              | 460              |
| 20      |                                      | EQUAL AISLE                         | D4 MM | 2200             | 2200             |
| 21      | AISLE WIDTH                          | AISLE RIGHT ANGLE                   | D5 MM | 3060             | 3060             |
| 22      |                                      | TRAVEL - LADEN / UNLADEN            | KNPH  | 17 / 18          | 17 / 18          |
| 23      | SPEEDS WITH STD HVM                  | LIFTING - LADEN / UNLADEN           | MM/S  | 560 / 600        | 560 / 600        |
| 24      |                                      | LOWERING - LADEN / UNLADEN          | MM/S  | 600 / 400        | 600 / 400        |
| 25      | DRAWER PULL                          | LADEN / UNLADEN (5 MIN)             | N     | 10000 / 9700     | 10000 / 9700     |
| 26      | GRADABILITY**                        | LADEN / UNLADEN                     | %     | 24 / 24          | 24 / 24          |
| 27      | STEERING TYRE                        | POWER STEERING                      |       | HYDROSTATIC      | HYDROSTATIC      |
| 28      | WEIGHT                               | LADEN / UNLADEN                     | KG    | 5080 / 3580      | 5580 / 3580      |
| 29      |                                      | NO - FRONT / REAR                   | NO    | 2 / 2            | 2 / 2            |
| 30      | TYRES                                | SIZE - FRONT                        | MM    | 7.00 X 12 - 12PR | 7.00 X 12 - 12PR |
| 31      |                                      | SIZE - REAR                         | MM    | 6.50 X 10 - 10PR | 6.50 X 10 - 10PR |
| 32      | WHEEL BASE                           |                                     | D1 MM | 1600             | 1600             |
| 33      | TRACK                                | FRONT / REAR                        | MM    | 950 / 940        | 950 / 940        |
| 34      | GROUND CLEARANCE                     | UNDER MAST                          | m1 MM | 160              | 160              |
| 35      |                                      | UNDER FRAME                         | m2 MM | 205              | 205              |
| 36      | BRAKES                               | SERVICE                             |       | HYDRAULIC        | HYDRAULIC        |
| 37      |                                      | PARKING                             |       | MECHANICAL       | MECHANICAL       |
| 38      |                                      | MANUFACTURER / MODEL                |       | SUITABLE REPUTED | SUITABLE REPUTED |
| 39      | ENGINE                               | RATED HP AS PER IS 10000            | HP    | APPX 48          | APPX 48          |
| 40      |                                      | RATED RPM                           | RPM   | APPX 2000        | APPX 2000        |
| 41      |                                      | MAKE / MODEL                        |       | KION             | KION             |
| 42      |                                      | TRANSMISSION                        |       | FLUID CPLG       | FLUID CPLG       |
| 43      | GEAR BOX                             | NO OF SPEEDS (FWD /REV)             |       | 2 / 2            | 2 / 2            |
| 44      |                                      | GEAR SHIFT                          |       | MANUAL           | MANUAL           |

\*\* GRADABILITY WITH CUSHION TYRES IS LOWER BY 2% OVER THE ABOVE FIGURES. SAFETY TRUCK CONFORMS TO STABILITY REQUIREMENT AS PER 'BIS' & DUE TO CONTINUOUS DESIGN IMPROVEMENTS THE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

## DXV 15



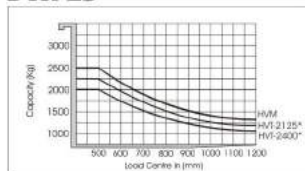
## DXV 20



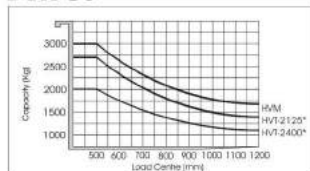
| DVX 25 FC        | DVX 30 FC        | DVX 30 FC DUAL   | DVX 309 FC        | DVX 405 FC        |
|------------------|------------------|------------------|-------------------|-------------------|
| 2500             | 3000             | 3000             | 3000              | 4000              |
| 500              | 500              | 500              | 900               | 500               |
| DIESEL           | DIESEL           | DIESEL           | DIESEL            | DIESEL            |
| PNEUMATIC - STD  | PNEUMATIC - STD  | PNEUMATIC - STD  | PNEUMATIC - STD   | PNEUMATIC - STD   |
| 3620             | 3620             | 3620             | 3620              | 3620              |
| 100              | 100              | 100              | 100               | 100               |
| 2A               | 3A               | 3A               | 3A                | 3A                |
| 45 X 100 X 1070  | 45 X 125 X 1070  | 45 X 125 X 1070  | 45 X 125 X 1800   | 45 X 125 X 1070   |
| 240 x 965        | 290 x 990        | 290 x 1390       | 290 x 1390        | 290 x 1390        |
| 6 / 12           | 8 / 12           | 6 / 12           | 6 / 12            | 6 / 12            |
| 2650             | 2650             | 2650             | 3100              | 3100              |
| 1260             | 1260             | 1575             | 1580              | 1580              |
| 2360             | 2360             | 2360             | 2360              | 2360              |
| 4840             | 4840             | 4840             | 4840              | 4840              |
| 2160             | 2160             | 2160             | 2190              | 2160              |
| 1200             | 1200             | 1200             | 1200              | 1200              |
| 2350             | 2350             | 2500             | 2900              | 2900              |
| 460              | 460              | 460              | 460               | 460               |
| 2200             | 2200             | 2280             | 2500              | 2500              |
| 3960             | 3960             | 3960             | 5360              | 4400              |
| 17 / 18          | 17 / 18          | 17 / 18          | 17 / 17.5         | 17 / 17.5         |
| 590 / 600        | 550 / 600        | 550 / 600        | 380 / 400         | 380 / 400         |
| 600 / 400        | 600 / 400        | 600 / 400        | 380 / 350         | 380 / 350         |
| 10000 / 9700     | 10000 / 9700     | 10000 / 9700     | 10000 / 9700      | 10000 / 9700      |
| 20 / 24          | 20 / 24          | 20 / 24          | 13 / 15           | 13 / 15           |
| HYDROSTATIC      | HYDROSTATIC      | HYDROSTATIC      | HYDROSTATIC       | HYDROSTATIC       |
| 6280 / 3780      | 7180 / 4180      | 7280 / 4280      | 9600 / 5030       | 9050 / 5050       |
| 2/2              | 2/2              | 4/2              | 4/2               | 4/2               |
| 7.00 X 12 - 12PR | 7.00 X 12 - 12PR | 7.00 X 12 - 12PR | 7.00 X 12 - 16PR  | 7.00 X 12 - 16PR  |
| 6.50 X 10 - 10PR | 6.50 X 10 - 10PR | 6.50 X 10 - 10PR | 6.50 X 10 - 10PR  | 6.50 X 10 - 10PR  |
| 1600             | 1600             | 1800             | 2000              | 2000              |
| 950 / 940        | 950 / 940        | 950 / 940        | 1385 / 940        | 1385 / 940        |
| 160              | 160              | 160              | 160               | 160               |
| 205              | 205              | 205              | 205               | 205               |
| HYDRAULIC        | HYDRAULIC        | HYDRAULIC        | HYDRAULIC         | HYDRAULIC         |
| MECHANICAL       | MECHANICAL       | MECHANICAL       | MECHANICAL        | MECHANICAL        |
| SUITABLE REPUTED | SUITABLE REPUTED | SUITABLE REPUTED | SIMPSON / S - 433 | SIMPSON / S - 433 |
| APPX 48          | APPX 48          | APPX 48          | 48                | 48                |
| APPX 2000        | APPX 2000        | APPX 2000        | APPX 2000         | APPX 2000         |
| KICN             | KICN             | KICN             | KICN              | KICN              |
| FLUID CPLG       | FLUID CPLG       | FLUID CPLG       | FLUID CPLG        | FLUID CPLG        |
| 2 / 2            | 2 / 2            | 2 / 2            | 2 / 2             | 2 / 2             |
| MANUAL           | MANUAL           | MANUAL           | MANUAL            | MANUAL            |

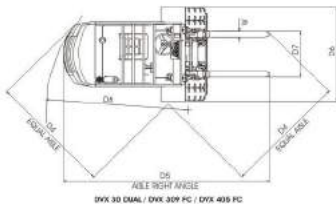
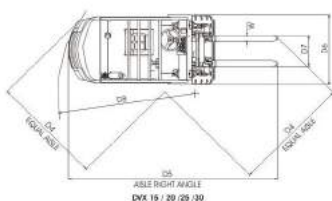
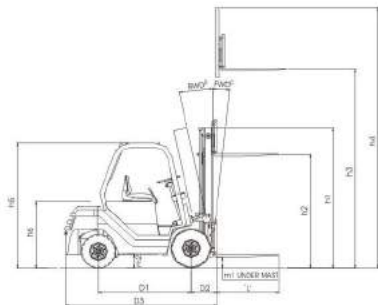
ISO\* STANDARDS. ALL SPECIFICATIONS ARE SUBJECT TO +/- 12% TOLERANCE APART FROM THOSE GOVERNED BY BIS

## DVX 25

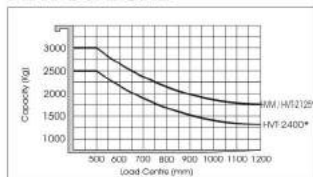


## DVX 30





## DVX 30 DUAL



### FORKLIFTS ATTACHMENTS

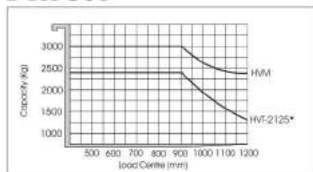
#### MECHANICAL

- Goose Neck Crane
- Pallet Beak drum handlers
- 3-Drum Pongs
- Ram for steel coils
- Strakes for foundry
- Two pallet forks
- Fork Extensions and many more

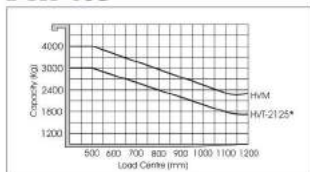
#### HYDRAULIC

- Side Shifters
- Bale Clamps
- 360 degree Rotators
- Drum Clamps
- Scoop Attachments
- Paper Roll Clamps
- Push-Pull Attachment and any more

## DVX 309



## DVX 405



LOAD CAPACITY INDICATED ON ALL LOAD CHARTS ARE WITH MAST IN VERTICAL POSITION ON LEVEL GROUND

#### AUTOMATIC TORQUE TRANSMISSION OPTIONAL

The truck is equipped with a world class making the drive unit compact. This is a fully automatic transmission and uses a torque converter, which has been matched to the engine characteristics using a computer programme. This provides stepless variable torque multiplication for meeting all specified load and road conditions. The truck performance is achieved using only a single speed forward and reverse operation. Gear shifting is done electrically, using an effortless shift lever mounted on the steering column. The hydraulic inching and soft plugging are standard features provided on the truck for easy maneuverability. A neutral gear start is a standard safety feature, which prevents accidental truck movement at the time of starting.

An independent air cooled heat exchanger, mounted behind the radiator enables effective cooling of transmission oil.

#### BRAKES

Service brakes are heavy duty truck type drum brakes that are self-energizing and self-adjusting, conforming to IS:9701 (2001). Hand Operated parking brake is provided for additional safety.

#### MAST, CARRIAGE & FORKS

An excellent design supported by superior welding process, ensure highly durable and dependable high visibility masts. High Visibility simplex mast is standard. Optional high free lift, Duplex and Triplex mast variants are available for a variety of applications including container stuffing/ de-stuffing. High visibility carriage with improved visibility is standard. Forks are of world-class quality.

#### STEER AXLE

The axle is fabricated from steel plates for durability and strength. The axle is supported in the frame by using hardened steel bushings for providing the required articulation. The integrated balanced power cylinder is well protected inside the axle body. The axle assembly is made by using plain pin joints for ease of maintenance.

#### HYDROSTATIC POWER STEERING

Adjustable steer column is available as an option. The hydrostatic power steering provides a finger touch effortless, smooth steering, enhancing operator comfort. The load sensing system saves power by using a priority valve that directs hydraulic flow for steering action only on demand.

#### FRAME AND CANOPY

The frame is designed using computer aided modeling and optimized by finite element analysis techniques. It is fabricated from heavy steel plates using a flux cored arc welding process, ensuring excellent rigidity and strength.

An elegant canopy integrated with the frame body provides a safe enclosure for operator conforming to IS:7621 (2000).

#### HYDRAULIC SYSTEM

Hydraulic system consists of reservoir, pump, directional control valves, cylinders and full flow filtration system with bypass protection, suction strainer and 25 micron replaceable return line filter. Pressure relief, lift lock and flow control valves are provided for safety. Tank capacity 40 liters.

#### INSTRUMENTATION AND CONTROLS

Instrument panel consisting of fuel, oil pressure, water temperature, ammeter and engine hour meter gauges is ergonomically located for operator's view. All the gauges are illuminated for night driving. All control levers, switches and pedals are located ergonomically enhancing operator comfort.

#### AFTER SALES SERVICE AND TECHNICAL SUPPORT

Prompt After Sales Service and technical support is ensured through a nation wide network of more than 100 Voltas Touch Points with strong dealer network. Factory trained engineers at locations support speedy resolution of field problems. Training programs are offered all around the year at our Technical Training Centre at Pune.

#### PARTS SUPPORT

Our Central Parts Warehouse located at Pune caters to timely supply of parts with additional stock maintained at more than 100 Voltas Touch Points. Emergency requirements are processed through special channel to ensure supply latest within 48 hrs to restore breakdown machines with least downtime.

DVX 15/20/25/30/30 Dual @ 500 mm LC

#### MAST CONFIGURATIONS

| TYPE OF MAST | MAST MODEL | OAH h1 mm | FFH h2 mm | MFH h3 mm | OAH@MFH with LBR h4mm | TILT ANGLE DEGREE FWD / BWD | SPEEDS LADEN |               | CAPACITY at MFH @ 500MM LC |       |       |       |            |
|--------------|------------|-----------|-----------|-----------|-----------------------|-----------------------------|--------------|---------------|----------------------------|-------|-------|-------|------------|
|              |            |           |           |           |                       |                             | LIFTING mm/s | LOWERING mm/s | DVX15                      | DVX20 | DVX25 | DVX30 | DVX30 DUAL |
| 2-Stage      | HVM        | 2360      | 100       | 3620      | 4840                  | 6 / 12 °                    | 550          | 600           | 1500*                      | 2000* | 2500* | 3000* | 3000*      |
| 2-Stage      | HVD        | 2125      | 1500      | 3000      | 4220                  | 6 / 12                      | 550          | 600           | 1500*                      | 2000* | 2500* | 3000* | 3000*      |
| 3-Stage      | HVT 2125   | 2125      | 1465      | 4500      | 5720                  | 6 / 8                       | 550          | 600           | 1500*                      | 2000* | 2300* | 2750* | 3000*      |
| 3-Stage      | HVT 2600   | 2600      | 2085      | 6030      | 7240                  | 6 / 6                       | 550          | 600           | 850*                       | 1000* | 1250* | 1500* | 1800*      |

DVX 309/405

| TYPE OF MAST | MAST MODEL | OAH h1 mm | FFH h2 mm | MFH h3 mm | OAH@MFH with LBR h4mm | TILT ANGLE DEGREE FWD / BWD | SPEEDS LADEN |               | CAPACITY at MFH |        |
|--------------|------------|-----------|-----------|-----------|-----------------------|-----------------------------|--------------|---------------|-----------------|--------|
|              |            |           |           |           |                       |                             | LIFTING mm/s | LOWERING mm/s | DVX309          | DVX405 |
| 2-Stage      | HVM        | 2360      | 100       | 3620      | 4840                  | 6 / 12 °                    | 380          | 400           | 3000*           | 4000*  |
| 3-Stage      | HVT 2125   | 2125      | 1465      | 4500      | 5720                  | 6 / 8                       | 550          | 600           | 2750*           | 3000*  |

OAH : Overall Mast Height

FFH: Free Fork Height

MFH: Max Fork Height

FWD : Forward BWD : Backward

\* Capacity shall derive by 200kg with sideshifter.

## OTHER PRODUCTS ON OFFER

### EQUIPMENTS

- DIESEL FORKLIFTS
- ELECTRIC FORKLIFTS
- WAREHOUSING EQUIPMENTS

- ∴ 1.5 T to 1.6 T capacity
- ∴ 1.5 T to 3.5 T capacity
- ∴ Hand Pallet Truck, Manual Stacker, Semi Electric Stacker, Battery Operated Pallet Truck, Electric Stacker, Counter Balance Stacker.



The specifications are subject to change without prior notice. Please contact our nearest office for latest specifications



**VOLTAS**  
DESIGNED TO WORK

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