

DIESEL FORKLIFT TRUCK

HIGHER RELIABILITY
HIGHER PERFORMANCE
HIGHER PRODUCTIVITY

Capacity : 1500 / 2000 / 2500 / 3000 kg

3000 kg Dual at 500 mm LC

3000 kg at 900 mm LC

4000 kg at 500 mm LC

**BS III
Engine**



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. Starting slip 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.

AUTOMATIC TORQUE TRANSMISSION OPTIONAL

The truck is equipped with a world class making the drive unit compact. The is a fully automatic transmission and uses a torque converter, which has been matched to the engine characteristics using a computer programme. The 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 Triplex 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, tilt 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 60 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 60 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	FFH	MFH	OAH@MFH	TILT ANGLE DEGREE FWD / BWD	SPEEDS LADEN		CAPACITY at MFH @ 500MM LC				
		h1 mm	h2 mm	h3 mm	with LBR h4mm		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*
3-Stage	HVT 2125	2125	1465	4500	5720	6 / 8	550	600	1500*	2000*	2300*	2750*	3000*
3-Stage	HVT 2400	2400	1765	5350	6570	6 / 8	550	600	1500*	1500*	2000*	2000*	2750*
3-Stage	HVT 2600	2600	2085	6030	6640	6 / 6	550	600	850*	1000*	1250*	1500*	1800*

DVX 309/405

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

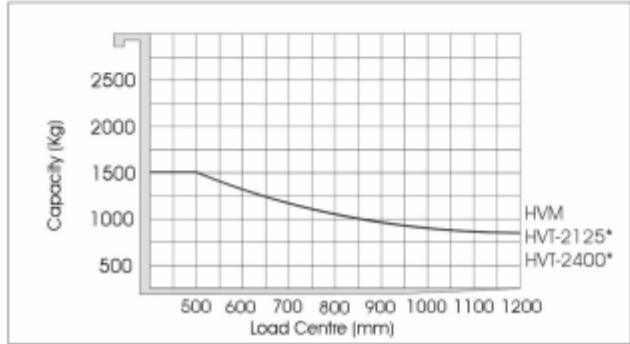
OAH : Overall Mast Height FFH: Free Fork Height MFH: Max Fork Height FWD : Forward BWD : Backward
* Capacity shall derate by 200kg with sideshifter.

SPECIFICATIONS

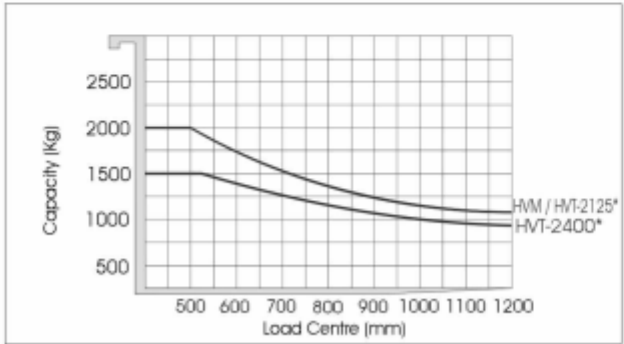
GENERAL					VMH	VMH	VMH	VMH	VMH		VMH	VMH
	2	MODEL			DVX 15 FC	DVX 20 FC	DVX 25 FC	DVX 30 FC	DVX 30 FC DUAL	DVX 30 VAT DUAL	DVX 309 FC	DVX 405 FC
	3	CAPACITY	LIFTING LOAD	KG	1500	2000	2500	3000	3000		3000	4000
	4	LOAD CENTER	DISTANCE	MM	500	500	500	500	500		900	500
	5	POWER UNIT	ENGINE TYPE		DIESEL	DIESEL	DIESEL	DIESEL	DIESEL		DIESEL	DIESEL
DIMENSIONS	6	TYRES	PNEUMATIC (P), CUSHION (C)		PNEUMATIC - STD	PNEUMATIC - STD	PNEUMATIC - STD	PNEUMATIC - STD	PNEUMATIC - STD		PNEUMATIC - STD	PNEUMATIC - STD
	7	LIFT HEIGHT STD MAST	MAX FORK HEIGHT	h3 MM	3620	3620	3620	3620	3620		3620	3620
	8		FRELIFT WITH STD HVM MAST	h2 MM	100	100	100	100	100		100	100
	9	FORK CARRIAGE	ISO CLASS		2A	2A	2A	3A	3A		3A	3A
	10	FORK DIMENSIONS	THICKNESS(thk) X WIDTH(W) X LENGTH(L)	MM	40 X 100 X 1070	40 X 100 X 1070	40 X 100 X 1070	45 X 125 X 1070	45 X 125 X 1070		45 X 125 X 1800	45 X 125 X 1070
	11	FORK SPREAD	MINIMUM - MAXIMUM	D7 MM	240 - 965	240 - 965	240 - 965	240 - 965	240 - 1360		300 - 1360	300 - 1360
	12	TILT ANGLE WITH HVM	FORWARD / BACKWARD	DEG	6 / 12	6 / 12	6 / 12	6 / 12	6 / 12		6 / 12	6 / 12
	13		LENGTH TO FACE OF FORKS	D3 MM	2650	2650	2650	2650	2650		3100	3100
	14		OVERALL WIDTH	D6 MM	1260	1260	1260	1260	1575		1580	1580
	15	OVERALL DIMENSIONS WITH STD HVM MAST	HEIGHT WITH COLLAPSED MAST	h1 MM	2360	2360	2360	2360	2360		2360	2360
PERFORMANCE	16		HEIGHT WITH EXTENDED MAST & LBR	h4 MM	4840	4840	4840	4840	4840		4840	4840
	17		HEIGHT OF CANOPY GUARD	h5 MM	2160	2160	2160	2160	2160		2160	2160
	18		SEAT HEIGHT	h6 MM	1200	1200	1200	1200	1200		1200	1200
	19	TURNING RADIUS		D8 MM	2350	2350	2350	2350	2500		2900	2900
	20	FRONT OVERHANG		D2 MM	460	460	460	460	460		460	460
	21		EQUAL AISLE	D4 MM	2200	2200	2200	2200	2260		2500	2500
	22	AISLE WIDTH	AISLE RIGHT ANGLE	D5 MM	3960	3960	3960	3960	3960		5360	4400
	23		TRAVEL - LADEN / UNLADEN	KMPH	17 /18	17 / 18	17 / 18	17 / 18	17 / 18		17 / 17.5	17 / 17.5
	24	SPEEDS WITH STD HVM	LIFTING - LADEN / UNLADEN	MM/S	550 / 600	550 / 600	550 / 600	550 / 600	550 / 600		380 / 400	380 / 400
	25		LOWERING - LADEN / UNLADEN	MM/S	600 / 400	600 / 400	600 / 400	600 / 400	600 / 400		380 / 350	380 / 350
FRAME & TYRES	26	DRAWER PULL	LADEN / UNLADEN (5 MIN)	N	10000 / 9700	10000 / 9700	10000 / 9700	10000 / 9700	10000 / 9700		10000 / 9700	10000 / 9700
	27	GRADABILITY**	LADEN / UNLADEN	%	24/ 24	24 / 24	22 / 24	20 / 24	20 / 24		13 / 15	13 / 15
	28	STEERING TYRE	POWER STEERING		HYDROSTATIC	HYDROSTATIC	HYDROSTATIC	HYDROSTATIC	HYDROSTATIC		HYDROSTATIC	HYDROSTATIC
	29	WEIGHT	LADEN / UNLADEN	KG	5080 / 3580	5580 / 3580	6280 / 3780	7180 / 4180	7280 / 4280		9050 / 5050	9050 / 5050
	30		NO - FRONT / REAR	NO	2 / 2	2 / 2	2 / 2	2 / 2	4 / 2		4 / 2	4 / 2
	31	TYRES	SIZE - FRONT	MM	7.00 X 12 - 12PR	7.00 X 12 - 12PR	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
	32		SIZE -REAR	MM	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		6.50 X 10 - 10PR	6.50 X 10 - 10PR
	33	WHEEL BASE		D1 MM	1600	1600	1600	1600	1600		2000	2000
	34	TRACK	FRONT / REAR	MM	950 / 940	950 / 940	950 / 940	950 / 940	950 / 940		1385 / 940	1385 / 940
	35	GROUND CLEARANCE	UNDER MAST	m1 MM	160	160	160	160	160		160	160
DRIVE	36		UNDER FRAME	m2 MM	205	205	205	205	205		205	205
	37	BRAKES	SERVICE		HYDRAULIC	HYDRAULIC	HYDRAULIC	HYDRAULIC	HYDRAULIC		HYDRAULIC	HYDRAULIC
	38		PARKING		MECHANICAL	MECHANICAL	MECHANICAL	MECHANICAL	MECHANICAL		MECHANICAL	MECHANICAL
	39		MANUFACTURER / MODEL		SUITABLE REPUTED	SUITABLE REPUTED	SUITABLE REPUTED	SUITABLE REPUTED	SUITABLE REPUTED		SIMPSON / S - 433	SIMPSON / S - 433
	40	ENGINE	RATED HP AS PER IS 10000	HP	APPX 48	APPX 48	APPX 48	APPX 48	APPX 48		48	48
	41		RATED RPM	RPM	APPX 2000	APPX 2000	APPX 2000	APPX 2000	APPX 2000		APPX 2000	APPX 2000
	42		MAKE / MODEL		VOLTAS	VOLTAS	VOLTAS	VOLTAS	VOLTAS	SUITABLE	VOLTAS	VOLTAS
	43		TRANSMISSION		FLUID CPLG	FLUID CPLG	FLUID CPLG	FLUID CPLG	FLUID CPLG	AUTOMATIC	FLUID CPLG	FLUID CPLG
	44	GEAR BOX	NO OF SPEEDS (FWD /REV)		2 / 2	2 / 2	2 / 2	2 / 2	2 / 2	1 / 1	2 / 2	2 / 2
	45		GEAR SHIFT		MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	ELECT	MANUAL	MANUAL

** GRADABILITY WITH CUSHION TYRES IS LOWER BY 2% OVER THE ABOVE FIGURES. SAFETY:TRUCK CONFORMS TO STABILITY REQUIREMENT AS PER "BIS" & " ISO" STANDARDS. ALL SPECIFICATIONS ARE SUBJECT TO +/- 12% TOLERANCE APART FROM THOSE GOVERNED BY BIS DUE TO CONTINUOUS DESIGN IMPROVEMENTS THE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

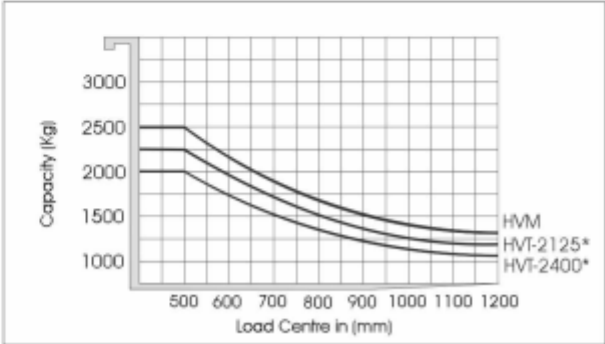
DVX 15



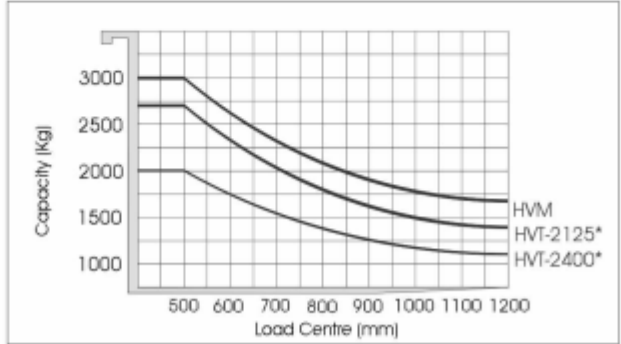
DVX 20

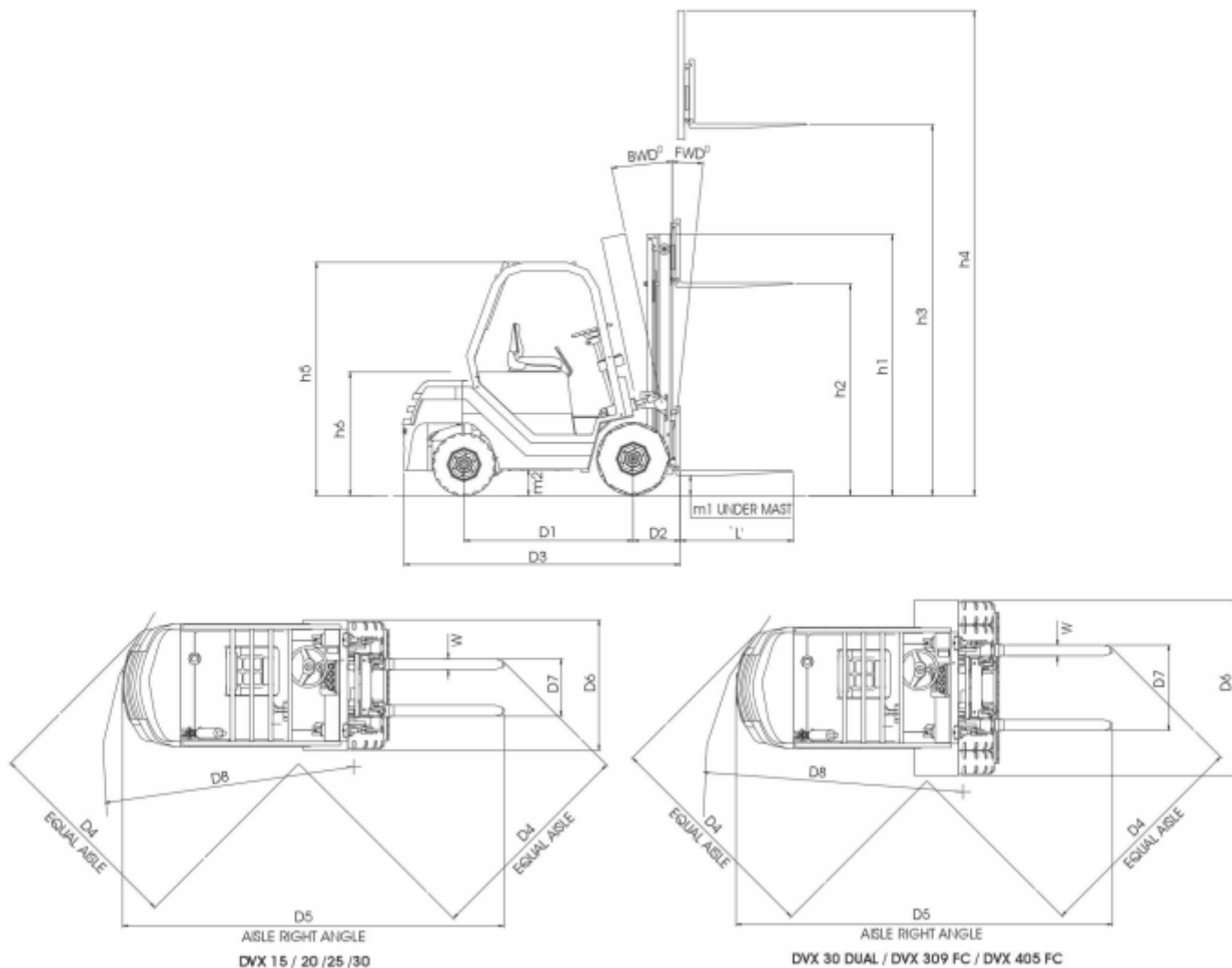


DVX 25

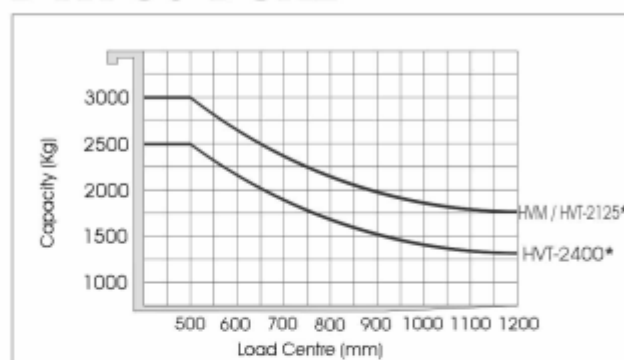


DVX 30





DVX 30 DUAL



FORKLIFTS ATTACHMENTS

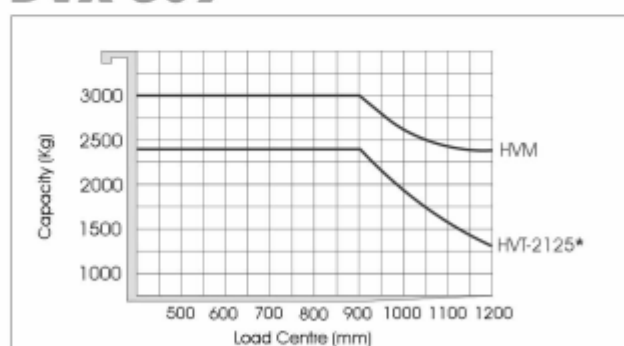
MECHANICAL

- Goose Neck Crane
- Parrot Beak drum handlers
- 3-Drum Prongs
- Ram for steel coils
- Strokers for foundry
- Two pallet forks
- Fork Extensions and many more

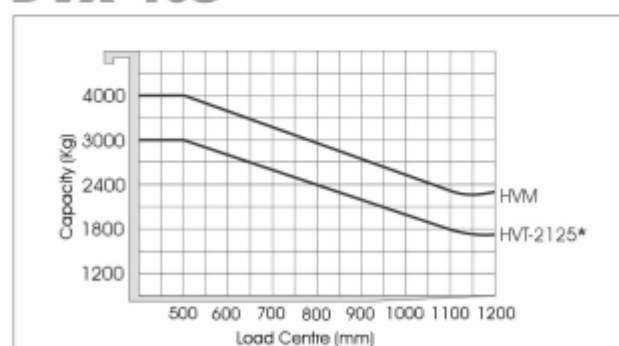
HYDRAULIC

- 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

OTHER PRODUCTS ON OFFER FROM VOLTAS MATERIAL HANDLING

EQUIPMENTS

- **DIESEL FORKLIFTS** : 1.5 T to 15T capacity
- **ELECTRIC FORKLIFTS** : 1.5T to 3.5T capacity
- **WAREHOUSING EQUIPMENTS** : Hand Pallet Truck, Manual Stacker, Semi Electric Stacker, Battery Operated Pallet Truck, Electric Stacker, Counter Balance Stacker, Tow Truck and Reach Truck



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



VOLTAS

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Pune 7774027840 • Rudrapur 8057405111 • Surat 7624005557 • Vizag 9951066618

DEALERS

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