

VOLTAS

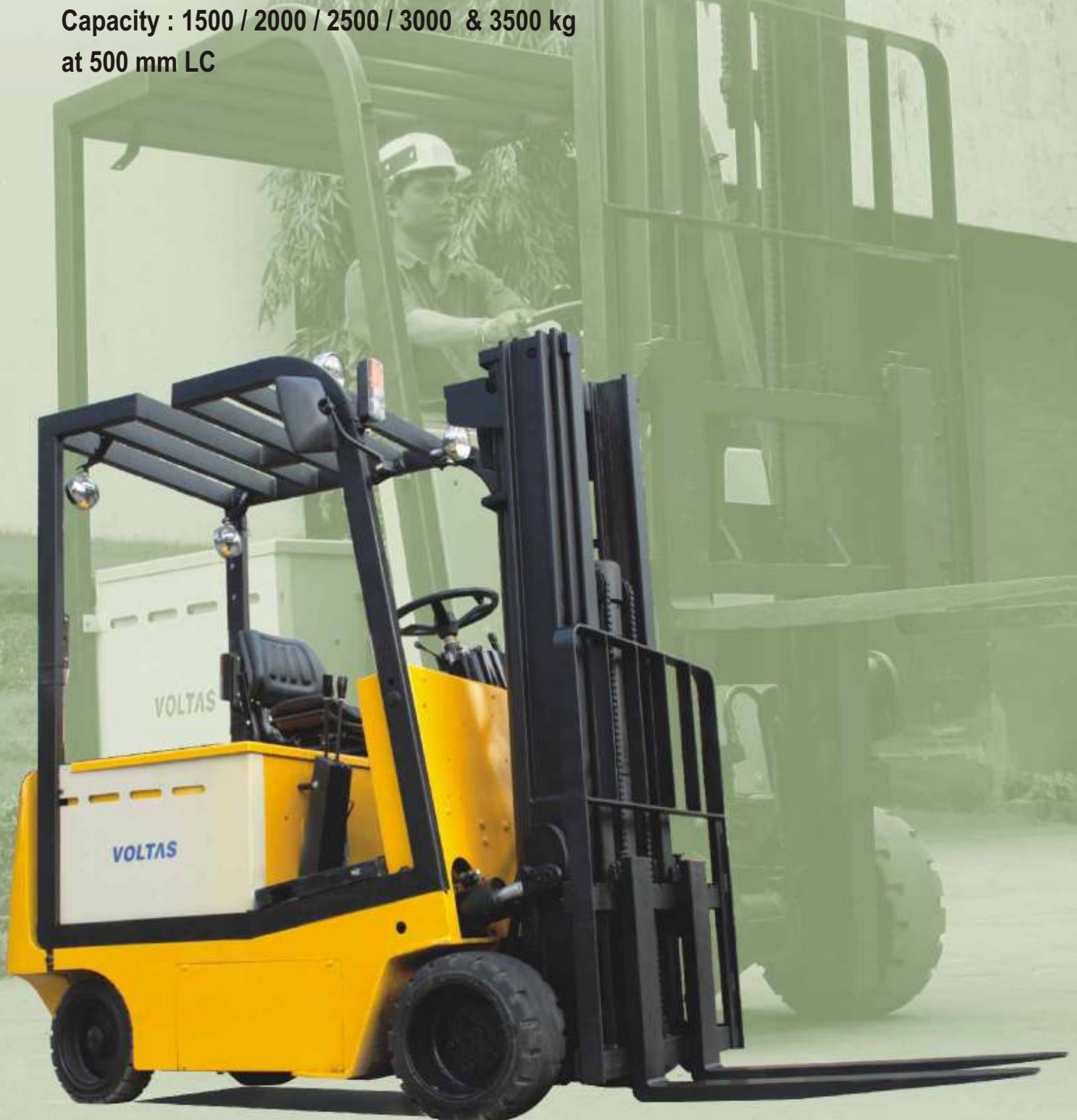
KION India

KION
GROUP

ELECTRIC FORKLIFT TRUCK

HIGHER RELIABILITY
HIGHER PERFORMANCE
HIGHER PRODUCTIVITY

Capacity : 1500 / 2000 / 2500 / 3000 & 3500 kg
at 500 mm LC



DRIVE MOTOR

Drive motor can be DC Separately Excited (SEPEX) or alternatively AC Traction motor with class "F" insulation is designed to provide high starting torque and withstand high temperatures in the most demanding applications.

HOIST MOTOR

The hoist motor is supported on isolation mounts for reduced vibration and noise emission. The motor is series wound with class H insulation and internal cooling fan.

DRIVE CONTROL

A "State of the art" high power solid-state microprocessor based traction control SEPEX type or alternatively for inverter controlled AC motor controller. Both the options provide Hare & Tortoise control with Regenerative Braking.

A Self diagnostic with on board display system is built into the controller, which constantly monitors the electrical control system and indicates diagnostic codes. The control system provides smooth step-less acceleration, variable speed control and precise inching and maneuvering in confined areas.

The regenerative Braking feature is so effective that it nearly eliminates the use of foot brake thus saving energy and reducing operator fatigue. The Battery Connector is located adjacent to the Operator for quick battery disconnection.

TRANSMISSION

A double reduction drive train features a first stage spur gear and second stage hypoid gear. Traction motor can be installed or removed without affecting the gear mesh. A full floating axle design ensures that tyre loads are carried by the axle housing and not by the drive shafts.

BRAKES

Heavy duty brakes linings are bonded to steel shoes and operate against independently mounted brake drums. Brakes are self adjusting. The service brake is operated by an ergonomically located pedal. The parking brake is released by a handle located on the cowl.

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 H-Ho, Duplex and Triplex mast variations 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 bushing for providing the required

articulation. The integrated balanced power cylinder is well protected inside the axle body. The axle assembly uses plain pin joints for ease of maintenance. It provides accurate steering geometry, minimizes tyre wear and allows sharp angle steering for greater maneuverability.

HYDROSTATIC POWER STEERING

The hydrostatic power steering provides a finger touch effortless, smooth steering, enhancing operator comfort.

To conserve battery energy, the power steer motor operates for minimal period. In the unlikely event of pump pressure failure, the truck can be steered to controlled stop.

FRAME, BATTERY COMPARTMENT 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.

Located below within the chassis the battery is restrained in position by pads. Hood assembly is supported by gas springs for ease of opening to access battery.

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 valve, cylinders and full flow filtration system with bypass protection, suction strainer and 25-micron replaceable return line filter. Pressure relief, tilt lock and flow regulators are provided for safety. The tilt lock feature control valve protects against inadvertent forward tilt whilst providing precise load positioning. Tank capacity 40 liters.

INSTRUMENTATION AND CONTROLS

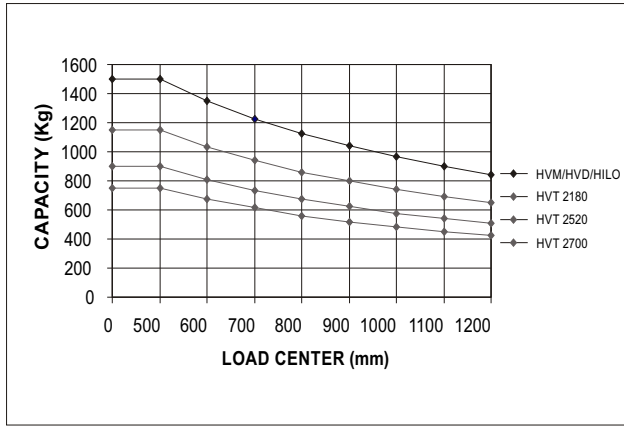
Pedals are provided for acceleration and braking. These are located ergonomically with ample legroom for the operator. Dual direction lever is automotive type mounted on the steering column for easy operation. Hydraulic control valve levers are ergonomically positioned for fatigue free operation.

Hour meter and Battery State of Charge gauge housed in an elegantly designed FRP housing are available as standard. An enhanced dash display provides battery state of charge display. Controller diagnostic, fault code readouts are displayed to minimize downtime.

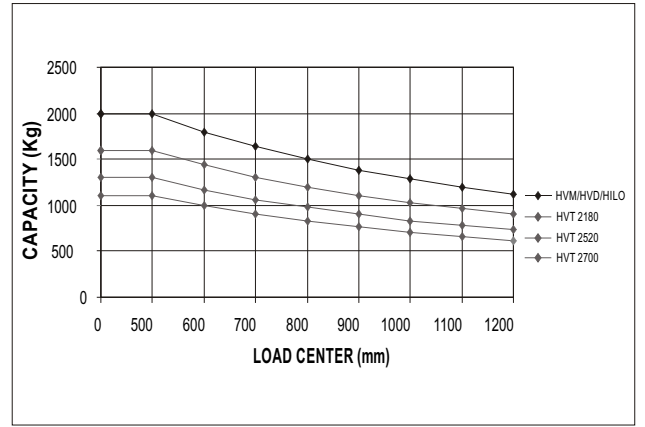
OPTIONAL

- Charger suitable for the battery
- Non marking tyres instead of standard molded rubber tyres

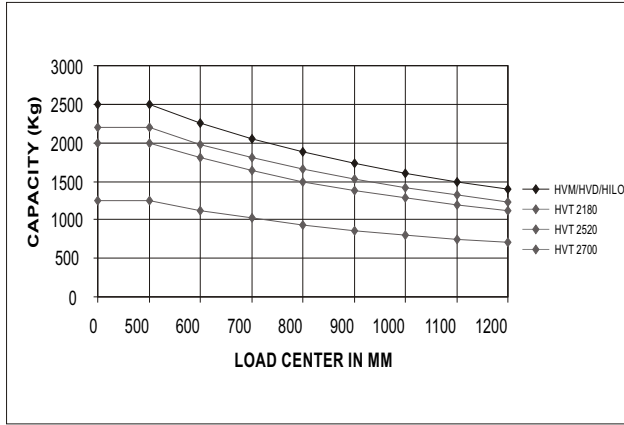
EVX 15



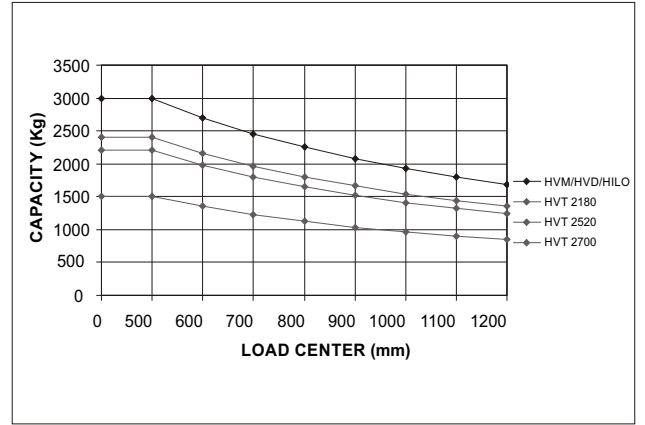
EVX 20



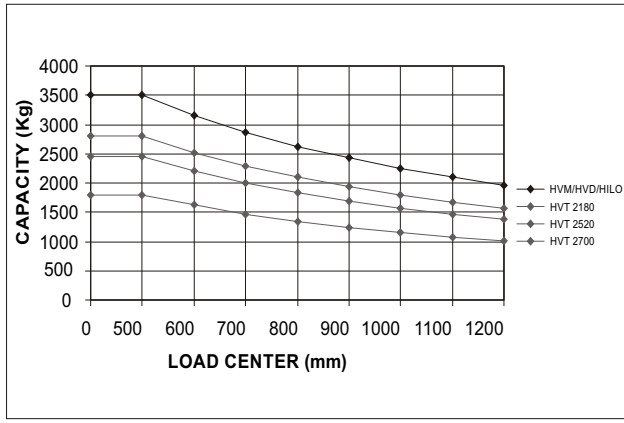
EVX 25



EVX 30



EVX 35



LOAD CAPACITY ON ALL LOAD CHARTS ARE WITH MAST IN VERTICAL CONDITION

MAST CONFIGURATIONS

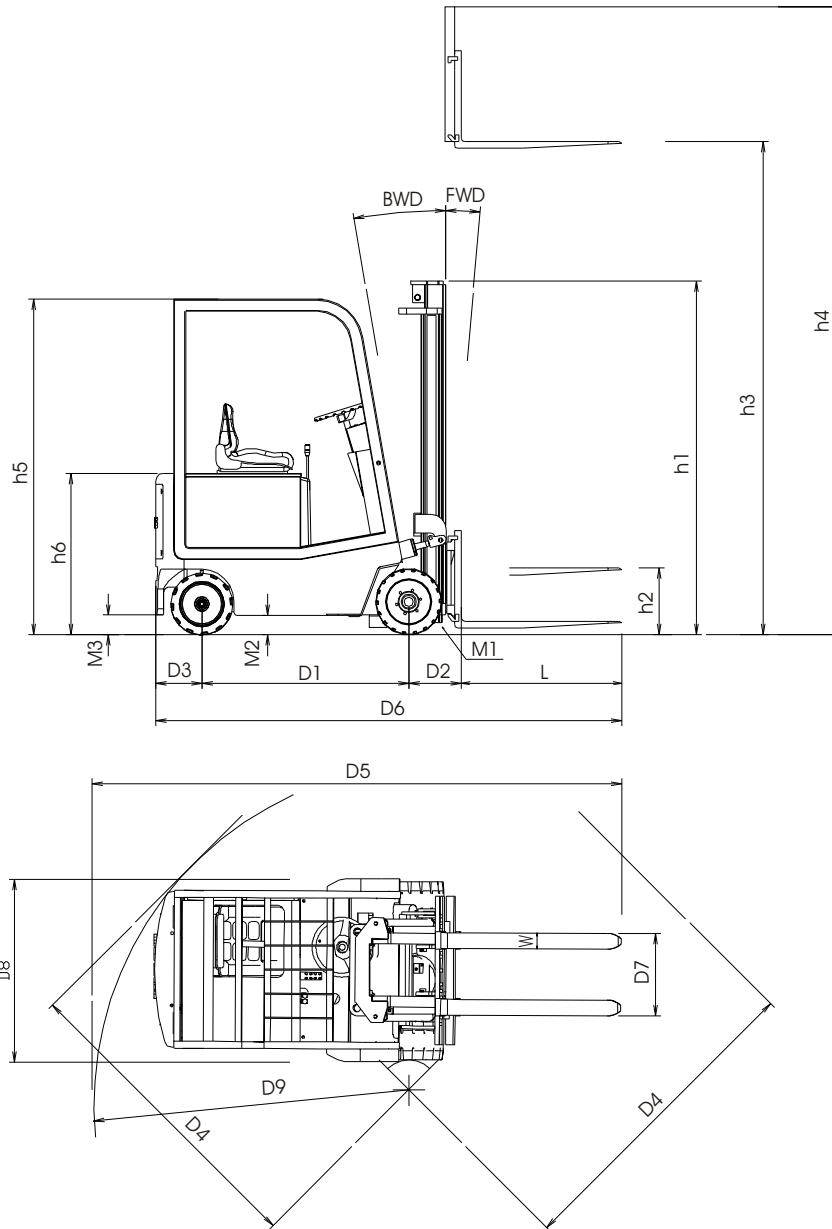
TYPE OF MAST	MAST MODEL	OAH h1 mm	FFH h2 mm	MFH h3 mm	OAH@MFH with LBR h4mm	TILT ANGLE DEGREE FWD / BWD	SPEEDS LADEN		CAPACITY at MFH @ 500MM LC				
							LIFTING mm/s	LOWERING mm/s	EVX15	EVX20 (SEPEX & AC)	EVX25	EVX30	EVX35 AC
2-Stage	HVM	2360	0	3500	4710	5 / 10	250	580	1500*	2000*	2500*	3000*	3500*
2-Stage	HILO	2005	1345	2185	3395	5 / 10	200	400	1500*	2000*	2500*	3000*	3500*
3-Stage	HVT 2180	2180	1550	4460	5720	3 / 5	240	600	1150*	1600*	2200*	2400*	2800*
3-Stage	HVT 2520	2520	1780	5350	6560	3 / 5	240	600	900*	1300*	2000*	2200*	2450*
3-Stage	HVT 2700	2700	2140	6090	7310	3 / 5	260	550	750*	1100*	1250*	1500*	1800*

OAH : Overall Mast Height FFH : Free Fork Height MFH : Max Fork Height FWD : Forward BWD : Backward
 * Capacity shall derate by 200kg with sidershifter.
 Other Mast Combinations available on request.

SPECIFICATIONS

GENERAL	1	MANUFACTURER			VOLTAS		VOLTAS		VOLTAS		VOLTAS		VOLTAS	
	2	MODEL			EVX 15 SEPEX	EVX 15 AC	EVX 20 SEPEX	EVX 20 AC	EVX 25 SEPEX	EVX 25 AC	EVX 30 SEPEX	EVX 30 AC	EVX 35 AC	
	3	CAPACITY	LIFTING LOAD		KG	1500		2000		2500		3000		3500
	4	LOAD CENTER	DISTANCE		MM	500		500		500		500		500
	5	PRIME MOVER				SEPEX	AC	SEPEX	AC	SEPEX	AC	SEPEX	AC	AC
	6	TYRES	TYPE			SOLID		SOLID		SOLID		SOLID		SOLID
DIMENSIONS	7	LIFT HEIGHT WITH STANDARD MAST	MAX FORK HEIGHT	h3	MM	3500		3500		3500		3500		3500
			STD FREE LIFT	h2	MM	NIL		NIL		NIL		NIL		NIL
	8	FORK CARRIAGE	ISO CLASS			2A		2A		2A		3A		3A
	9	FORK	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 1000		45 X 125 X 1070
	10	FORK SPREAD	MINIMUM TO MAXIMUM	D7	MM	230 to 930		230 to 930		230 to 930		250 to 930		280 to 930
	11	TILT ANGLE	FORWARD / BACKWARD		DEG	5 / 10		5 / 10		5 / 10		5 / 10		6 / 9
	12	OVERALL DIMENSIONS WITH STD HVM MAST	OVERALL LENGTH	D6	MM	3145		3145		3200		3200		3420
	13		OVERALL WIDTH	D8	MM	1220		1220		1220		1220		1270
	14		HEIGHT WITH COLLAPSED MAST	h1	MM	2320		2320		2320		2320		2350
	15		HEIGHT WITH EXTENDED MAST (WITH LBR)	h4	MM	4710		4710		4710		4710		4710
	16		HEIGHT OF CANOPY GUARD	h5	MM	2240		2240		2240		2240		2220
	17		SEAT HEIGHT	h6	MM	1200		1200		1200		1200		1230
	18	TURNING RADIUS		D9	MM	1900		1900		1950		1950		2240
	19	FRONT OVERHANG		D2	MM	375		375		375		375		400
20	REAR OVERHANG		D3	MM	320		320		375		375		350	
21	AISLE WIDTH	EQUAL AISLE	D4	MM	1850		1850		1900		1900		2140	
22		AISLE RIGHT ANGLE	D5	MM	3345	3345	3345	3345	3395	3395	3395	3395	3870	
PERFORMANCE	23	SPEEDS WITH STD HVM MAST	TRAVEL - LADEN / UNLADEN		KMPH	8 / 10	10 / 12	10 / 2	10 / 12	8 / 10	10 / 12	8 / 10	10 / 12	10 / 12
	24		LIFTING - LADEN / UNLADEN		MM/S	250 / 350	250 / 350	225 / 350	225 / 350	200 / 350	200 / 350	200 / 350	200 / 350	180 / 378
	25		LOWERING - LADEN / UNLADEN		MM/S	460 / 350	460 / 350	460 / 350	460 / 350	460 / 350	460 / 350	460 / 350	460 / 350	550 / 600
	26	GRADABILITY	LADEN		%	20	17	17	14	17	10	17	10	10
27	STEERING TYRE	HYDROSTATIC			HYDROSTATIC		HYDROSTATIC		HYDROSTATIC		HYDROSTATIC		HYDROSTATIC	
FRAME & TYRES	28	WEIGHT	INCLUDING BATTERY (UNLADEN)		KG	3300	3350	3600	3735	4170	4272	4485	4600	5060
	29		NOs - FRONT / REAR			TWO / TWO	TWO / TWO	TWO / TWO	TWO / TWO	TWO / TWO	TWO / TWO	TWO / TWO	TWO / TWO	TWO / TWO
	30	TYRES	SIZE - FRONT		MM	457 X 203 X 308	457 X 203 X 308	457 X 203 X 308	457 X 203 X 308	457 X 228 X 308	457 X 228 X 308	457 X 228 X 308	457 X 228 X 308	533 X 381 X 229
	31		SIZE -REAR		MM	412 X 152 X 285	412 X 152 X 285	412 X 152 X 285	412 X 152 X 285	412 X 152 X 285	412 X 152 X 285	412 X 152 X 285	412 X 152 X 285	457 X 178 - 8SE
	32	WHEEL BASE		D1	MM	1380		1380		1380		1380		1600
	33		LADEN AT MAST	M1	MM	75	75	75	75	75	75	75	75	90
	34	GROUND CLEARANCE	LADEN AT FRAME	M2	MM	130	130	130	130	130	130	130	130	120
	35		LADEN AT COUNTERWEIGHT	M3	MM	130	130	130	130	130	130	130	130	140
36	SERVICE BRAKES				HYDRAULIC		HYDRAULIC		HYDRAULIC		HYDRAULIC		HYDRAULIC	
37	PARKING BRAKE				MECHANICAL		MECHANICAL		MECHANICAL		MECHANICAL		MECHANICAL	
DRIVE	38	MOTORS	DRIVE (60 MIN RATING)		KW	8.5	10	8.5	10	8.5	10	8.5	10	12
	39		DC HOIST (15 MIN RATING)		KW	7.5	8.5	7.5	8.5	7.5	8.5	7.5	8.5	8.5
	40		DC STEERING (60 MIN RATING)		KW	0.65	0.85	0.65	0.85	0.65	0.85	0.65	0.85	0.85
	41	BATTERY	RATING		V/AH	48 / 443	72 / 290	48 / 443	72 / 332	48 / 443	72 / 332	48 / 516	72 / 387	72 / 440
	42		WEIGHT		KG	750	760	750	875	750	875	850	990	1150

SAFETY:TRUCK CONFORMS TOSTABILITY REQUIREMENT AS PER "BIS" & "ISO" STANDARDS. ALL SPECIFICATION ARE SUBJECT TO TOLERANCE OF +/- 12% APART FROM THOSE GOVERNED BY BIS DUE TO CONTINUOUS DESIGN IMPROVEMENTS THE DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.



DO YOU KNOW ?

All parts are available under one roof at Voltas.
 All parts supplied by Voltas conform to the specified standards.
 All the parts undergo stringent Quality Check.
 Carries manufacturer's warranty.



Bought Genuine spares from Voltas



Bought parts from will fit supplier & saves on cost

AFTER SIX MONTHS



No Failures
 No Production Loss
 Overall Gain in profits
 No Down Time



Unexpected Failures
 Frequent Down Time
 Loss in Production
 Loss of Profits
 (Decides to buy from Voltas)

ALWAYS BUY GENUINE SPARES FROM VOLTAS
OUR GOAL IS YOUR SATISFACTION !!!!

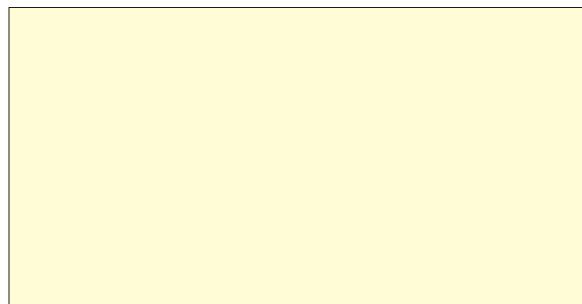
OTHER PRODUCTS ON OFFER FROM VOLTAS MATERIAL HANDLING

EQUIPMENTS

- **DIESEL FORKLIFTS** : 1.5 T to 16T capacity
- **ELECTRIC FORKLIFTS** : 1.5T to 3.5T capacity
- **WAREHOUSING EQUIPMENTS** : Hand Pallet Truck, Battery Operated Pallet Truck, Manual Stacker, Semi Electric Stacker, Electric Stacker, Counter Balance Stacker, Tow Truck, Reach Truck etc.



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



VOLTAS

KION India Pvt. Ltd.

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