

VIPER 1.5LB (4.5 TRI) HEAVY DUTY REACH TRUCK

Technical Information

Drive Train And Steering

- Advanced SepEx 24V DC Drive Motor with sealed bearings, heavy duty commutator and stainless steel brush holders provides a powerful traction control system.
- Super Quiet ZF Direct Drive Transmission with large roller bearing is oiled for life.
- SepEx control system provides smooth acceleration and energy saving dynamic braking. Travel speeds are virtually constant even driving up or down an incline regardless of the load.
- The drive motor, transmission, brakes and drive wheel are coupled to the all new DURA Control Handle.
- The new innovative design power steering provides VIPER with positive but effortless steering.
- The complete Drive and Steering system is securely mounted within the all steel truck chassis for maximum protection.

Structural

- The all new "Brilliant by Design" chassis incorporates the very latest Laser Lock technology. Cut from Australian made steel by computer controlled precision lasers, the interlock design concept gives superior chassis strength.
- Special I Beam Mast Section provides strength and rigidity.

Hydraulic System

- VTC Hydraulics (Variable Total Control) gives infinitely variable control of lift, tilt and reach.
- Full System filtration is provided on the input side of the lift pump to prevent contaminants from entering the hydraulic system.
- Built-in relief valve protects the system from overloads.
- A heavy duty gear pump is mated to chrome plated lift cylinders providing smooth lift and lower performance with minimal power consumption.

Electrical System

- 24V system powered by either a 290AH or 511AH Traction Battery.
- The Curtis SepEx transistorised programmable Control System with Multimode allows infinite control of all machine functions.
- Benefits include smooth speed response, increased usable battery energy per charge, extended motor life and regenerative braking.
- Multimode allows parameters for acceleration, speed, deceleration and current limits to be set for both operating modes.
- Direction, Horn and Lift / Lower Controls are housed in the new DURA Control Handle.

Reach Mechanism with Tilt

- Heavy Duty Pantograph-type Reach Mechanism extends 600mm and includes integral tilt movement of six degrees backward and three degrees forward.
- Large diameter cylinders have hard chrome plated rods.
- High lateral stability is achieved using wide space heavy section reach arms fitted with fully contoured rollers and sealed bearings running in Mast Section I Beam
- All pivots are fitted with SUMI tapered roller bearings.
- Easy operation of Reach and Tilt Functions via Joystick controls.



Wheels

Polyurethane Wheels:

Drive: 254mm dia. X 125mm

Quick Change Type integral tyre and hub assembly.

Load : 150mm dia. X 75mm

Travel, Lift and Lower Speeds

Travel Speed: Empty - up to 6kph
Laden - up to 5kph

Lift Speed : Empty - up to 12 metres / minute
Laden - up to 12 metres / minute

Lowering Speed : Empty - up to 12 metres / minute
Laden - up to 16 metres / minute

Optional Equipment

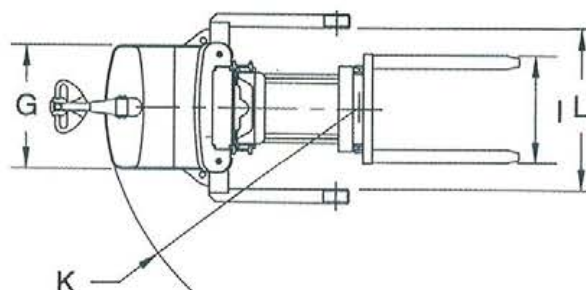
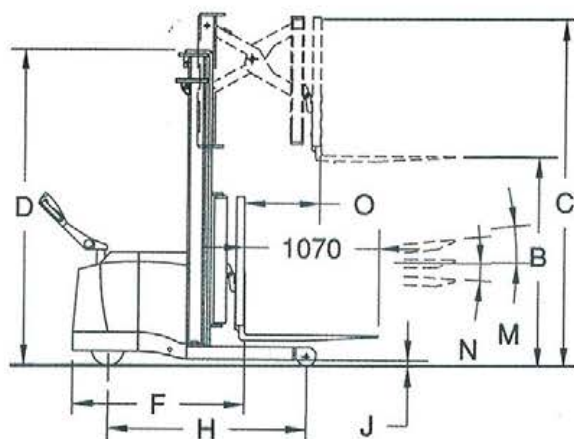
- Hazard Light & beeper
- Flame proofing
- Side Shift
- High Ground clearance
- Special straddle dimensions
- Four directional model
- Large Traction Battery
- Tandem Load Wheels

Safety Features

- Certified to operate from tropical to cold room conditions
- Dynamic Braking
- Clear view mast
- Belly button reversing switch
- Ergonomic DURA full function control handle
- Ergonomically safe butterfly type speed controls
- Deadman braking applies brake and cuts power
- Wrap around hand guards
- Emergency power disconnect
- Key lock safety ignition
- Electronic overload protection
- Hydraulic overload protection
- Automatic high speed cutout when forks are raised above 1800mm
- Low speed select switch on console
- VTC Hydraulics gives infinitely variable total control of Lift, Reach and Tilt functions
- Multi-function diagnostic gauge with lift lockout.

Three Stage

Viper Model 1.5 LB	4.5 TRI
A. Rated Capacity at 600mm L.C.	1500 kg
B. Lift Height	4500 mm
C. Extended Height With Load Backrest	5750 mm
D. Collapsed Height	2080 mm
E. Free Lift	1500 mm
F. Chassis Length (To Face Of Forks)	1330 mm
G. Chassis Width	915 mm
H. Wheelbase	1560 mm
I. Carriage Width	815 mm
J. Chassis Underclearance	50 mm
K. Turning Radius	1810 mm
L. Straddle I.D. / O.D.	1220 / 1425 mm or 945 / 1150 mm
M. Rear Tilt	6 degrees
N. Forward Tilt	3 degrees
O. Reach	600 mm
P. Weight Less Battery	2020 kg
Q. Battery Compartment Size	800 mm Wide X 340 mm Long X 600 mm High
R. Right Angle Stacking Aisle	Dimension F Plus Load Length Plus 150mm



For more information on our
Product and Services please call:



Sales & Rental: **(65) 6265 3666**

Parts: **(65) 6662 2275**

Service: **(65) 6662 2215**

metaquip@tanchong.com

MQTC

Distributor:
MetaQuip T C Industrial Pte Ltd
23 Jalan Buroh Singapore 619479
Tel: (65) 6265 3666
Fax: (65) 6264 1666



www.tanchong.com