

TRIDENT 6000



The Trident 6000 is the first response unit in the Trident system having faster acceleration and carrying a 250kg Dry Powder Unit and additional rescue equipment. It was developed as a complementary vehicle to the Trident 8000 at major airports, or as a self-sufficient vehicle at airports of I.C.A.O. Category 5 or below.

Designed and largely manufactured in Australia, the Trident has been supplied to all regions with the Civil Aviation Authority and is being exported to a number of countries.

One man operation has been achieved for the Trident range by the simple layout and minimum control functions of the driver's vehicle and fire-fighting consoles. The simplicity of the control belies the sophisticated electronics which have made this possible.

The crew environment is enhanced by excellent vision, low cabin noise levels, adjustable seating and optional air-conditioning. The cab is constructed to Swedish Standard 10-01-06-01 to provide maximum occupant protection in the event of an accident.



SPECIFICATIONS

TECHNICAL SPECIFICATIONS

Maximum Speed: 110km/h

Acceleration: 0-80km/h within 27.5 seconds (laden)

Pump Capacity: 6000 L/min. at 1000 kPa (rated output)

Monitor Output: Dual output up to 6000 L/min @ 10 bar

Monitor Throw: 60 metres (at 3500 L/min @ 1000 kPa)

DIMENSIONS & WEIGHT

Length: 8805 (with monitor extended 9470 mm)

Weight: 20544 kg (loaded)

Height: 3600 mm (with monitor)

Width: 3000 mm (plus rear vision mirrors)

Wheelbase: 4318 mm

Ground Clearance: 325 mm (under axles)

Angle

- Approach: 30 degrees
- Departure: 30 degrees
- Ramp-over: 12 degrees

CHASSIS COMPONENTS

Chassis: Duplex DCT 1500 (4 x 4 drive)

Engine: Detroit Diesel 8V92. 403 kW. T 2300 r.p.m

Transmission: Twin Disc TD1172 – 6 forward speeds, fully automatic

Torque Converter: Twin Disc 8MLW-1611

Front Axle: Rockwell FDS 2100 with automatic inter-wheel power divider

Rear Axle: Rockwell U170 with automatic inter-wheel power divider

Transfer Case: Incorporated in transmission

Tyres: 24R21 radial Michelin 16 PR tubeless XL or XS tread pattern

Wheels: Steel Disc – 475.2 mm

Steering: Sheppard Model 492

Starting: 24 volt electric start

Brakes: Dual system – full air

Electrical: 24 volt DC system – 100 amp Brushless Alternator, or 220A Brushed Alternator

CAR / BODY

Make: Austral – modular

Seating: Five crew

Doors: One (1) each side, plug type with sliding windows

Heating: Cabin heater/demister

Cabin Stowage: For clothing, maps and helmets etc

Lockers: Equipment locker both sides

Ladder: Extension ladder on top body

FIRE FIGHTING SYSTEM

Water Tank Capacity: 5,400 litres

Construction: Welded stainless steel plate

Filling Connections: Two (2) 64 mm.; one (1) each side

Foam Tank Capacity: 690 litres

Construction: Fibreglass

Filling Connection: One (1) 38 mm. with ball valve

Water Pump: Rosenbauer R600 Centrifugal Fire pump rated 6000 L/min @ 1000 kPa

Foam Proportioner: Rosenbauer RVMA500 Automatic for mixing rate for pre-selected ratios 3%, 6% and 8%

Monitor: Rosenbauer RM60E. Electrical control from crew seats (Manual emergency operation on roof)

Throw Pattern: Straight stream and dispersed stream

Hose Reel: Rosenbauer, electric rewind, automatic brake

Hose: 60 m x 25 mm high pressure hose

Hose Nozzle: Rosenbauer Ne-Pi-Ro Fog Nozzle

Discharge/Throw: 120 L/min. to 20 metres

Forward Handline: 30m of 50 mm hose pre-connected to pump with foam making branch-pipe

Discharge/Throw: 500 L/min. to 20 metres

Bumper Monitor: Feecon

Discharge/Throw: 340 L/min. to 8 metres at 10 bars

Under-truck Protection: 4 x Feecon U15

Capacity: 230 L/min

Dry Chemical System: Preussag 250 kg Electro-pneumatic controlled from control panel

Hose Reel: 30 m. of 25 mm. electrical conductive hose

EMERGENCY WARNING SYSTEMS

Siren: Electronic 50 watt with integral P/A

Beacon: Revolving – on cab roof and engine module

Searchlight: Mounted on monitor