

Locally manufactured with local support

Denning Manufacturing's range of Australian-built chassis and complete vehicles has continued to expand since its introduction in 2005.

Currently including the two-axle Phoenix, three-axle Phoenix and two-axle Low Floor chassis, Denning has built an enviable record for its product and aftermarket support.

Denning Manufacturing's General Manager Mike Dempsey attributes the success to a variety of factors.

"By combining American running gear with Australian design and manufacturing, we are able to produce vehicles that are ideally suited to Australian conditions," he says.

"We purchase all of our components and materials from Australian suppliers. This means that parts and support are readily available. Being common to the large

majority of Australian trucks also ensures competitive parts pricing."

All the Denning two-axle products (including the Low Floor) share the majority of their running gear. Available with the same combinations of engines and transmissions across the range, operators who run school buses, coaches and urban buses have the ability to standardise their fleet.

This has flow-on benefits, with reduced spare parts inventory and ease of training for workshop and driving staff.

Introduced in 2006, over 20 Denning Low Floor chassis are now in daily service in urban and regional areas. Dempsey says, "Customers have really taken to the simplicity and reliability of these chassis. Workshop staff have been really impressed with the ease of service access and the commonality of parts."



Denning Manufacturing purchased the assets of Motorcoach in 2006 and used the rugged chassis from the three-axle Classic, to develop a three-axle version of the Phoenix. Now available in several configurations, including high-deck and with a dual-tyred lazy axle, the three-axle Phoenix is the most adaptable three-axle coach in Australia.

Looking forward, Dempsey says that Denning will continue to offer the highest levels of product and aftermarket support. "We will also continue to expand our range, to ensure that our customers have access to the widest range of locally produced and supported products." ■

PHEONIX THREE AXLE INTEGRAL COACH

AXLES

Steer: Meritor MFS-73, 7,000kg capacity
Drive: Meritor RC160, 10,450kg capacity, ratio subject to application
Lazy: Meritor Single tyred 6000kg
Option: Dual tyred lazy, 10 000kg capacity

BRAKES

Service Brakes: Dual circuit braking system with spring brakes to drive and lazy
Steer: Meritor "Q Plus" air operated 16.5" x 6" drums
Drive: Meritor "Q plus" air operated 16.5" x 7" drums
Lazy: Meritor "Q Plus" air operated 16.5" x 6" drums

CHASSIS FRAME

Jig built modules made from welded tubular steel sections

ELECTRICAL SYSTEMS

Alternator: 2 x Bosch 24V 140A
Batteries: 4 x 6V

FUEL TANK

600 ltr with sight gauge and filler to O/S & N/S. Option: 800ltr or 1000ltr

SUSPENSION

Denning full airbag suspension. Matched airbags, Automatic height control, Options: kneeling, full vehicle raise and lazy load transfer

WHEELS AND TYRES

9 x 11R 22.5 16 ply Radial fitted to 22.5 x 8.25" steel rim, option: Alcoa aluminium rims



STEERING

TRW TAS85 power steering, flange mounted pump. Height rake adjustable column

COOLING SYSTEM

Heavy duty bolted radiator mounted N/S of engine with aluminium charge air cooler. Expansion tank fitted with sight glass. 2 speed cooling fan

TRANSMISSION

Allison 5 speed Automatic or Eaton 10 speed AutoShift

ENGINE

Model: Cummins ISM, Detroit S60, Caterpillar C13.
Power: 430Hp
Torque: 1550 1b ft.
Emmission: ADR 80/02 (US EPA 07)
Air Cleaner: Donaldson 16" dual element

BODY

- 1600 Floor height. Option: 1700 High Deck
- Length 12.5 to 14.5 m
- Passenger Seating 44 to 69: Styleride or McConnel ADR 68.
- Duragal steel frame to ADR59
- Fibreglass front, rear and roof
- One piece front and rear bumper bars – fibreglass or aluminium
- Under floor bins with three doors per side
- Flat laminated side glass with double dark tint
- Air-conditioning – Thermo King, Coachair, Carrier

OPTIONS

- Curtains
- Floor heaters
- Bull bar
- Clock
- Roof air intake
- Electric mirrors
- Video DVD system
- Toilet
- Side loading wheelchair lifter

Denning



LOW FLOOR ROUTE BUS CHASSIS

AXLES

Steer: Dana forged steel double-drop beam
7300kg capacity
Drive: Meritor RC 160, 10,450kg capacity,
ratio subject to application

BRAKES

Service Brakes: Dual circuit braking system
with spring brakes to drive
Steer: Knorr SN-7 air operated discs
Drive: Meritor "Q plus" air operated 16.5 x 7"
drums

CHASSIS

Type: Jig built chassis modules with wheel-
base to suit body requirements

ELECTRICAL

Alternator: 24V 70A Alternator.
Option: 110A
Batteries : 4 x 6V

FUEL TANK

Mounted forward of drive with sight gauge and
filler to O/S. 300l nom. capacity

SUSPENSION

Denning full airbag suspension. Matched
airbags. Matched torque rods (4 front, 4 rear)
with common bushings. Automatic (mechani-
cal valve) height control (1 front, 2 rear). Fast
kneeling to front. Full vehicle raise

STEERING COLUMN

TRW TAS85 power steering,
Flange mounted pump. Height and
rake adjustable column

COOLING SYSTEM

Radiator with aluminium charge air
cooler mounted to N/S of engine.
Expansion tank fitted with sight
glass. 2 speed cooling fan

TRANSMISSION

Allison 5 speed Automatic with
output retarder

WHEELS AND TYRES

7 x 11R 22.5 16 ply Radial fitted to
22.5 x 8.25" aluminium rims



ENGINE

Model: Cummins ISC/ISL or Caterpillar
C7/C9.

Power: 275 – 330Hp

Torque: 860 – 1150 lb.ft.

Air cleaner: Donaldson 15" dual element.

PHEONIX TWO AXLE INTEGRAL COACH



AXLES

Steer: Meritor MFS73, 7,000kg capacity.
Drive: Meritor RC 160, 10,450kg
capacity, ratio subject to application

BRAKES

Service Brakes: Dual circuit braking
system with springs brakes to drive
Steer: Meritor "Q Plus" air operated
16.5" x 6" drums
Drive: Meritor "Q plus" air operated
16.5 x 7" drums

CHASSIS

Jig-built chassis modules from
welded tubular steel sections

ELECTRICAL

Alternator: 24V 70A Alternator
Option: 110A
Batteries: 4 x 6V

FUEL TANK

Mounted at front with sight gauge
and fuel filler to O/S. Capacity subject
to floor height. (330 or 420ltr)

SUSPENSION

Denning full airbag suspension.
Matched airbags. Automatic height
control. Options Kneeling and full
vehicle raise

STEERING

TRW TAS85 power steering,
flange mounted pump. Height and
rake adjustable column

COOLING SYSTEM

Radiator with aluminium charge
air cooler mounted to N/S of
engine. Expansion tank fitted with
sight glass. 2 speed cooling fan

TRANSMISSION

Allison 5 speed Automatic with
output retarder

WHEELS AND TYRES

7 x 11R 22.5 16 ply Radial fitted to
22.5 x 8.25" steel rims.
Option: Alcoa aluminium rims

ENGINE

Model: Cummins ISC/ISL or
Caterpillar C7/C9.

Power: 275 – 330Hp

Torque: 860 – 1150 lb.ft.

Air cleaner: Donaldson 15" dual
element.

BODY

- 1250 Floor height (school bus) or
1500 (coach)
- Length 12.3m. Option: 13.1m
- Passenger seating 44 - 70
- Duragal steel frame to ADR59
- Fibreglass front, rear and roof
- One piece front and rear bumpers –
fibreglass or aluminium
- Flat laminated side glass with double
dark tint

OPTIONS

- Under floor bins with
three doors per side
- Air Conditioning –
Thermo-king, Coachair
or Carrier.
- Video DVD system
- Curtains
- Floor heaters
- Bull bar
- Clock
- Roof air intake
- Electric mirrors
- Toilet
- Side loading
wheelchair lifter