



**MULTIDRIVE TECHNOLOGY (MDT Engineering P/L)** is part of *Kinetic Engineering Services P/L* and has a long history of providing GVM upgrades and Specialist 6x6 and 6x4 conversions of vehicles to industry and Government Departments

MDT has Compliance Plate Approval to convert the rugged popular **Toyota Landcruiser 70 Series** vehicles to provide:

- **Cost Effective Payload Increase**
- **Maximise Tray length**
- **Reduce Overloading Risk**
- **Legal Cover for Additional GVM**
- **Improved Ride and Handling**

**MDT GVM Upgrades** have a proven record of successful GVM upgrade engineering with the unladen ride and handling maintained. These upgrades have excellent braking performance.

Toyota Warranty is maintained on non modified components whilst MDT warranty which is same as Toyota is applied to modified components. There is ongoing after market support

**MDT** is a secondary manufacturer approved by the Federal Department of Transport meeting relevant Australian Design Rules (ADR'S)

**MDT** can provide its expertise to other vehicle type conversions under engineers certification



# 6x6 and 6x4 Models

MDT 6x6 and 6x4 models require a new 70 series donor vehicle. Both the 6x6 and 6x4 feature a rugged new full load share suspension system. The axle and drivelines have standard Toyota components and the differentials, brakes. Two fuel tanks ( 190 Litres ) give an extended range. The OEM 3.5 tonne towing capacity (Braked) is maintained.

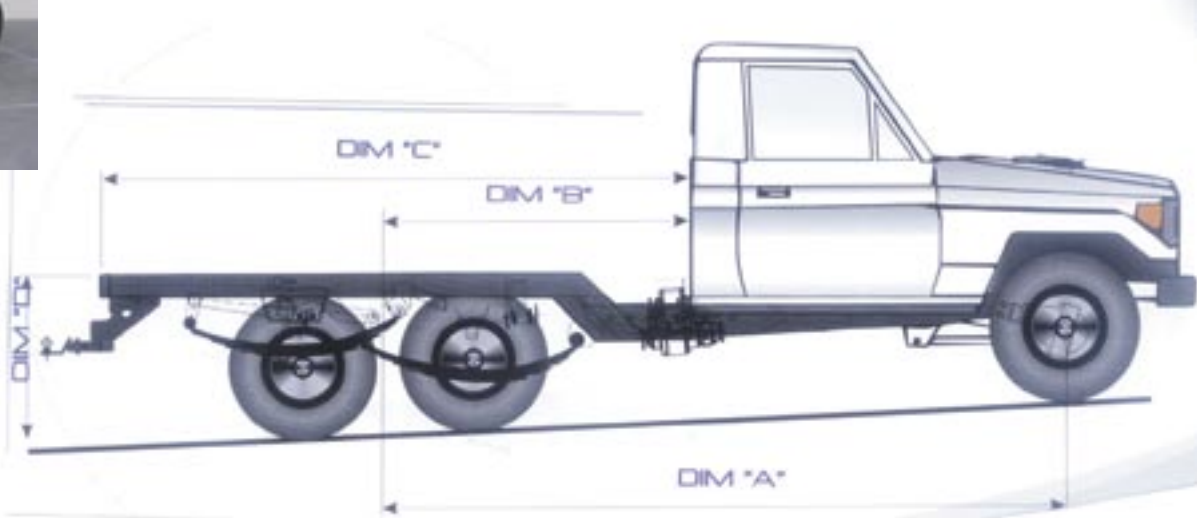
The MDT 6x6 is a **real six wheeler** fitted with the MDT unique patented "Torque Manager" Power Divider providing constant drive to mid and rear differentials. This system does not require any operator input and will not "wind" up or "spin" up, is simple to maintain and has no special lubricants. Oring seals are fitted to all face seals and the Power Divider is built using primarily commercial off the shelf (COTS) components

Optional Equipment:

- Paradrive Ergonomic Performance Seating
- Detroit Lockers for all driven axles
- Custom Trays , Bull Bars and Winches etc.
- Cab Plus An Internally accessed stowage cabinet
- Custom Chassis and Module fit outs

DOTARS CPA Approval 28162 26 June 2007

Model	Dim A (mm)	Dim B (mm)	Dim C (mm)	GVM (KG)	"Approx " Payload
70-57-S(6x4)	3640	1565	3100	5750	3225
70-57-L(6x4)	4140	2090	3625	5750	3205
70-57-S(6x6)	3640	1565	3100	5750	3125
70-57-L(6x6)	4140	2090	3625	5750	3105
70-57-W	TBA	TBA	TBA	TBA	TBA



# 6x6 and 6x4 Models

## **MDT Toyota 70 Series Landcruiser Model 70-57-S (6x6)**

This model is the short wheel based 6x6 with an effective wheelbase length of 3600mm. The Gross Vehicle Mass is 5750 KG. All rear wheels are driven through the "Torque Manager" Power Divider. Tray length is normally 3100 mm

Most popular of our 6x6 models widely used in Government services and general service industry roles. Strongly engineered all terrain solution for that difficult mission. Also used in Mining and Construction Industry operations

## **MDT Toyota 70 Series Landcruiser Model 70-57-L (6x6)**

This model is the long wheel based 6x6 with a wheelbase length of 4140mm,. The Gross Vehicle Mass is 5750 KG. All wheels are driven through a Power Divider. Tray Length is normally 3625 mm

Longer version of the above with a chassis designed for those long loads.

## **MDT Toyota 70 Series Landcruiser Model 70-57-S (6x4)**

This model is the short wheel based 6x4 with a wheelbase length of 3100mm. The Gross Vehicle Mass is 5750 KG. This is the lazy axle version

Most popular of our 6x4 models widely used in Government services and general service industry roles. Strong engineered solution. Used in Service and Construction Industry operations for occasional off road use. Upgrade to 6x6 is easy with bolt in components.

## **MDT Toyota 70 Series Landcruiser Model 70-57-L (6x4)**

This model is the long wheel based 6x4 with a wheelbase length of 4140 mm. The Gross Vehicle Mass is 5750 KG. This is the lazy axle version Same GVM but engineered for a long load situation.

## **6 Wheeled Vehicle Advantages**

Multi terrain Capability

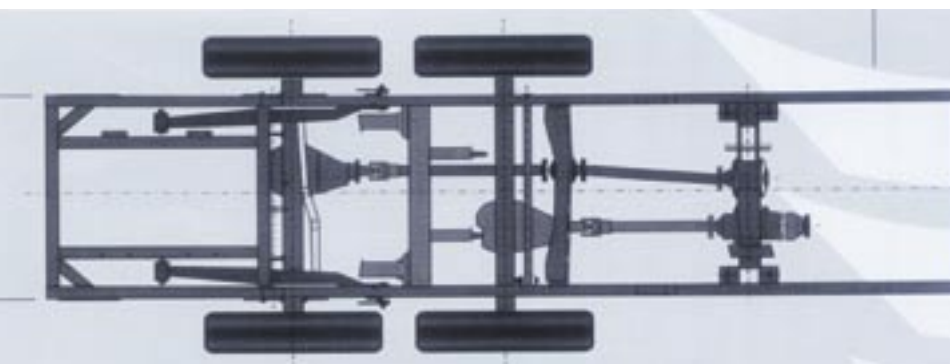
Integrated Load Sharing Suspension System

Light Truck Capacity with Ute Profile

Maximum axles loads are less than light trucks

Power Divider in 6x6 is fully automatic - No special Operator Training

Excellent Ride, handling and braking



# 4x4 GVM UPGRADE MODELS

## **\* MDT Toyota 70 Series Landcruiser Model 70-36 –S**

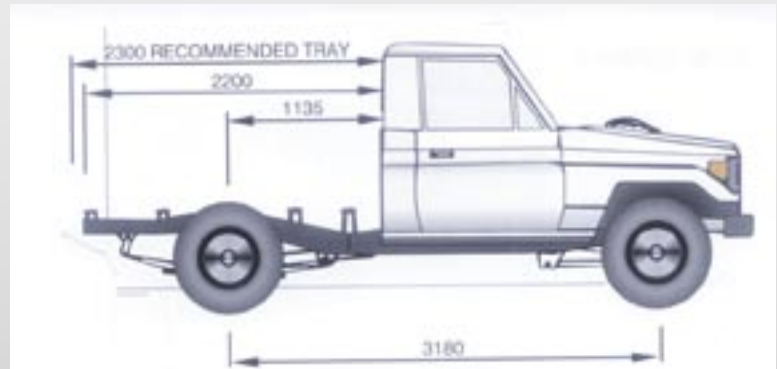
This model is the standard wheelbase with a rear chassis length of 2200mm accommodating a recommended 2300 mm Tray Length .

**The Gross Vehicle Mass is increased to 3620 KG .**

This is an increase of 320 Kg over the 3300 kg OEM GVM.

This upgrade consists of a spring pack upgrade with two extra leaves and upgrade includes the installation of Active Bump Stops (ABS) which are designed to supplement the suspension system and is progressive under load. The ABS is engaged in the mid laden state providing improved lateral stability.

This is the most popular of our 4x4 models widely used in Government Services and General Service Industry roles. Reduces overloading risk and improves ride and handling.



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## **\* MDT Toyota 70 Series Landcruiser Model 70-37 –S**

This model is the standard wheelbase with a rear chassis length of 2400mm with a recommended tray length of 2670 mm.

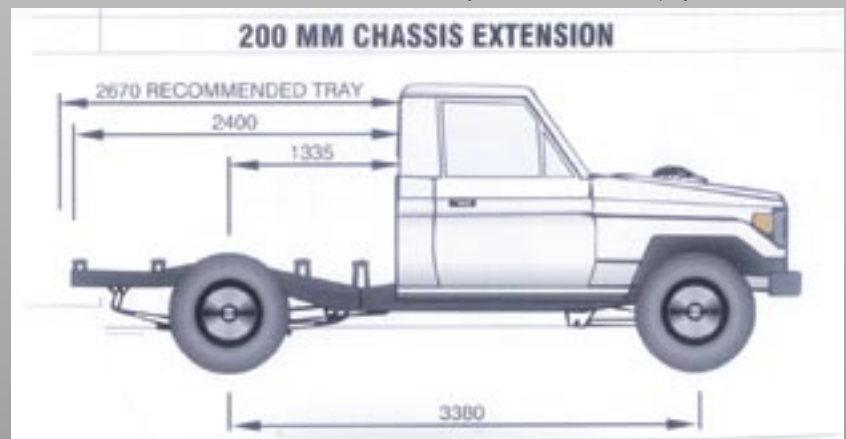
**The Gross Vehicle Mass is increased to 3720 KG .**

This is an increase of 420 Kg over the 3300 KG OEM GVM.

The chassis is extended by 200 mm to provide appropriate axle loadings

This upgrade consists of a spring pack upgrade with two extra leaves added and the upgrade includes the installation of Active Bump Stops (ABS) which are designed to supplement the suspension system and is progressive whilst in load cycle. The ABS is engaged at light laden state. The chassis extension includes tailshaft, brake and ancillaries connections.

This 4x4 model is used in Government Services and General Service Industry roles where extra payload is required. Reduces overloading risk and improves ride and handling.



**DOTARS**

**CPA Approval 25655**

**26 June 2007**

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**DOTARS Secondary Manufacturer CPA Approvals 25655 and 28162**

## **MULTIDRIVE TECHNOLOGY**

*KINETIC ENGINEERING SERVICES P/L*

*MDT ENGINEERING P/L*

*9-12 HUME RESERVE COURT*

*NORTH GEELONG, VICTORIA ,AUSTRALIA,  
3215.*

*Phone +61 3 52785300 Fax + 61 3 52721733*

*Email: [info@multidrive.com.au](mailto:info@multidrive.com.au)*

*Website : <http://www.multidrive.com.au>*

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