

Redmond Gary

RG

Australia Pty. Ltd

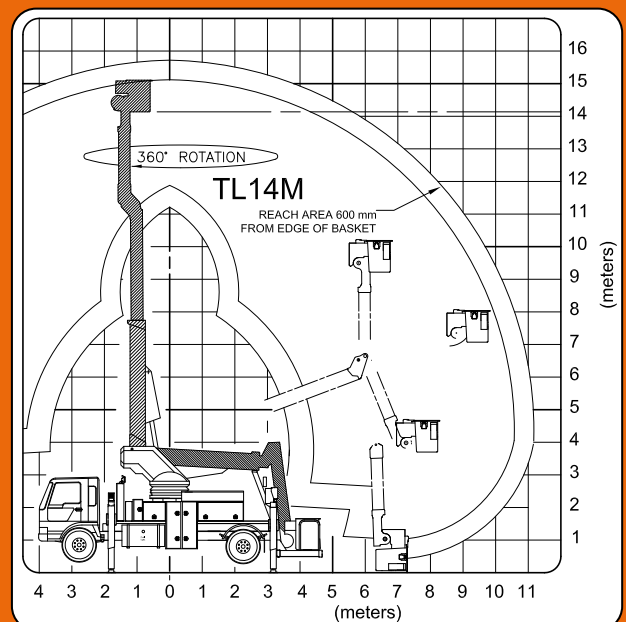


TL14M

ELEVATING WORK PLATFORM

Basic Specifications:

Working Height	16.0m
Basket floor height	14.0m
Basket WLL	325kg
Maximum side reach	11.2m
Distance to front of basket	10.5m
Slew	360°
Travelling height (depending on cab chassis height)	4.1m
Manufactured from space age material – Dura-Comp 40	



TL14M

All new TL14M is a result of 3 years research and development by Redmond Gary Australia Engineering. Before starting on the design Redmond Gary Australia had extensive consultation with users, electrical authorities, contractors and service providers. The legendary TF14M has an unsurpassed reputation for safety, performance and quality but Redmond Gary Australia wanted to make the new EWP even better. To achieve this, Redmond Gary Australia made a heavy investment in research and development and new technologies and processes resulting in new composite material called Dura-Comp 40. This new composite features:

- High strength to weight ratio
- Very high dielectric strength
- Fire retardant.

The new TL14M is manufactured using Dura-Comp 40. This advanced

composite has enabled Redmond Gary Australia to increase the WLL to 325kg, make stronger slimline booms and manufacture a basket with glove and barrier insulation rating without the need for a separate basket liner. This means that the total 325kg WLL is available for operators and their tools.

Dura-Comp 40 is field repairable. It is considerably stronger than most FRP and considerably tougher. In the event that the gel coat or painted finish is chipped, there is no requirement for immediate repair. Surface damage will not compromise the insulation system. The fly jib is sealed and will never require internal cleaning for the life of the EWP.

There are numerous design changes made to enhance the EWP operation giving superior access when working in tight situations around poles and cross-arms. Additional emphasis has been put

on the ease of maintenance, both daily by the operator and servicing requirements.

The TL14M is provided with CANbus control incorporating full system diagnostics for the EWP and radio controls. All safety systems are IP67.

The structural components manufactured from Dura-Comp 40 include the fly boom, basket and basket mount bracket. This sub-assembly was subject to whole of life, fatigue, full load test with the basket loaded to 600kg, simulating the equivalent of 25 years of use. After the fatigue analysis test was completed, the unit was subjected to destructive testing. It passed well above the requirement of AS1418.10-2011(+A1):2017. All tests were witnessed by Griffith University.

SPECIFICATIONS:

Type:

Telescopic with fly boom.

Suitable Vehicles:

Minimum 14T GVM depending on required payload. Suitable for 4x2, 4x4, 6x4 and 6x6 chassis.

Platform Height:

16m nominal working height. 14m nominal basket floor height (depending on truck chassis height).

Telescopic Extension:

2.6m

Travelling Height:

3.9m - 4.1m on average 14T GVM chassis.

Radius of Operation:

10.5m to outside edge of basket at 5.0m basket floor height. Maximum side reach 11.2m.

Rated Capacity:

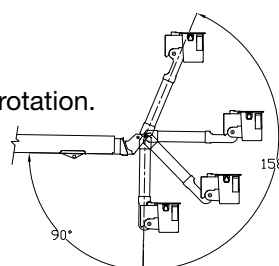
325kg standard depending on options fitted, chassis GVM, type of stabilisation.

Zero Tail Swing:

Turret rotated in any position does not exceed the overall width of the vehicle.

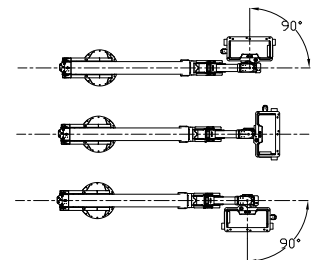
Fly Boom:

Capable of 158° rotation.



Basket Slew:

High capacity basket rotator, capable of 180° rotation with no limitation to WLL.



Slewing:

Ball bearing slew ring, hydraulic and electric swivel coupling offered as standard equipment, offering 360° continuous slew, with fail safe slew brake standard.

Main Frame:

Constructed from high grade steel forming a rigid base for platform and stabiliser attachment points.

Stabilisation:

Four hydraulic stabiliser legs with self-aligning footpads standard, capable of lifting the full GVM of the truck. Approximately 400mm ground penetration. Spring lock outs in conjunction with limited slew are available as an option.

Moment Sensing System

New jacklegs design similar to that supplied on the TL17M incorporates automatically moment sensing system to increase operator safety.

This system will reduce the risk of the MEWP from tipping over if the basket is overloaded or set up on a turret angle of more than 5 degrees and 5 degrees.

If ground pressure is lost on 2 jacklegs, the system will only allow the operator to retract the boom till the ground pressure is restored on all 4 jacklegs, after which the MEWP will continue to operate normally.

This is a critical safety system and will save lives.

Tray Body:

Aluminium tray body standard. Steel checker-plate tray body optional. Tray and basket access handrails are standard.

Controls:

Dual radio remote control standard.

Emergency:

Emergency base controls are provided at the rear kerb side jackleg. These controls can use the residual pressure in the accumulator or via hand pump.

Basket:

Basket size 1400mm length x 700mm width x 1000mm height. Constructed from fire retardant Dura-Comp 40 with fire retardant polyurethane protective rim. Safety harness attachment points fitted inside the basket. Heavy duty vinyl basket covers are available. Control descent devices standard.

Insulation:

Low voltage or high voltage insulation complying to Australian Standard 1418.10 - 2011. High voltage rain insulation comprising of 33kV Dura-Comp 40 insert in the turret and 132kV Dura-Comp 40 fly boom. 33kV Dura-Comp 40 basket with integrated liner.

Electrical Testing and Insignia:

In accordance as AS1418.10–2011(+A1): 2017.

Redmond Gary Australia's internal testing criteria exceeds the requirements of AS1418.10–2011(+A1):2017.

Hydraulic System:

Motion of each boom and slew is independently hydraulically controlled. Fully proportional main control valve. Power Take Off (PTO) standard. Main hydraulic tank incorporates drain cock, magnetic pick up and isolating ball valve to facilitate the maintenance, and the level/temperature gauge. Return filter is built into the hydraulic tank. Pressure gauge to system. All hydraulic cylinders are double acting. Closed circuit hydraulic system with accumulator, or open circuit hydraulic systems available. All cylinders and slew motor are fitted with holding valves. Remote manual bleed down for main boom and fly boom standard. Hydraulic tool circuit with outlets to the basket and/or tray available.

Electrics:

12V or 24V electrical system depending on cab chassis. CANbus control. Auxiliary batteries and charge system standard.

Interlocks:

Boom and stabiliser interlocks to prevent operation of a boom without stabilisers engaged, and to prevent operation of stabilisers when boom is lifted. Limited slew interlocks that work in conjunction with out and down jacklegs. Interlocked boom tie downs standard. Basket tie down optional.

Warning Indicators:

System on, PTO engaged, boom not stowed, stabilisers not stowed, access steps not stowed, pressure filter clog indicator, return filter clog indicator. By the CANbus system full diagnosis is available as on-screen indicators for the entire EWP including radio remote systems.

CANbus system with full diagnostics is supplied as standard. The on-screen diagnostic system provides detailed information on the entire EWP and radio remote system. Information can be downloaded by a USB port.

Level Indicators:

Camber indicators standard. Out of level alarm and interlock optional.

Painting:

All metal surfaces are abrasive blasted to Grade 2.5 and prime coated. All metal surfaces painted with 2-pac spray paint system or powder coated. High voltage Dura-Comp 40 finished in flow coat or painted and polished.

Standard Colour:

White.

Manuals:

One copy of the operator/spare parts and repair manual supplied standard. Additional hard copies or soft copies available as an option.

Testing:

All elevating work platforms are tested in accordance with AS1418.10–2011(+A1):2017 before releasing from the factory and test certificates are issued. In addition, electrical tests are carried out by Energex NATA approved test facility and separate certificates issued.

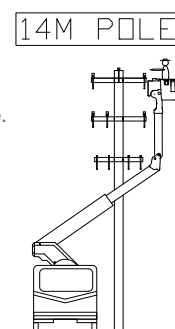
Accessories:

A wide range of optional accessories can be provided. Contact RGA for options information.

Spare Parts:

A full range of spare parts is available.

Redmond Gary Australia reserves the right to alter specifications without notice.



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