

## The RTT SERIES 5 High Speed, 5.7 Tonne, All Terrain Vehicle

### New Design

The RTT is a high speed, multi purpose, All Terrain Vehicle designed to fill a gap in the market place between the conventional LandRover type utility vehicle and the larger four wheel drive lorry/Unimog. Originally designed by RTT Design Ltd., it is now in the final stages of development and testing and is being manufactured by Frazier under a licensing agreement with RTT



### Rough Terrain

The chassis is of extremely robust construction to give long life and trouble free service in all types of ground and working conditions. Robust axles are fitted with a heavy duty coil spring suspension system which keeps all four wheels firmly on the ground giving it a rough terrain capability very few comparable machines can match. Gradability is 1 in 2.4 and better depending on load configuration. So whether the work site is a ploughed field, roadway, mountainside, building site or chemical plant the RTT will cope without fuss. On top of that the maximum road speed of 104kph (64mph) will get you home quickly and in comfort.



**The RTT under test in a quarry whilst carrying a 1.5t payload. Traction and climbing ability in such adverse conditions is maintained due to the suspension systems ability to keep all four wheels firmly on the ground.**

## Multi-Purpose

The RTT has a multitude of uses within the construction, civil engineering, industrial, forestry, public utility and agricultural industries. The 3 tonne carrying capacity allow it to be fitted with a wide range of equipment from aerial work platforms to gritting bodies, snow ploughs, load platforms and crop sprayers to name but a few.



## Background

Rtt have been manufacturing other models of all terrain access vehicles for many years and have machines working in Scandanavia, Europe, Middle East, Canada and the USA with end users and rental companies. These machines meet and exceed all local regulations for road and site use including German TUEV

## Design & Construction

<b>Cab</b>	Forward control and of steel, all-welded construction. Fully fitted and hydraulic tilting for access to engine for major services.
<b>Engine</b>	LandRover 300TDI 2.5l turbocharged and intercooled. 83kw (113hp) @ 4000rpm. 265Nm torque @ 1800rpm
<b>Transmission</b>	Main gearbox 5 speed helical constant mesh with syncromesh on all forward gears. Transfer box with high and low ratios. Permanent four wheel drive in all gears. Centre lockable differential for off road use.
<b>Tyres</b>	335/80 R20 On/off road with self-cleaning tread and high resistance to uneven wear.
<b>Suspension</b>	Heavy duty coil springs with rubber cone helpers and hydraulic dampers all round
<b>Road speed</b>	104 kph (64 mph)
<b>Chassis</b>	Rigid ladder type construction fabricated from high yield steel channel sections and tubular cross members.
<b>Weights</b>	Gross weight 5.7 T, Kerb weight 2.7T
<b>Gradability</b>	1 in 1.2
<b>PTO</b>	Choice of hydraulic or mechanical systems depending on application.

**T.J.FRAZIER LTD**

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**The RTT** SERIES 5  
**All-terrain capabilities**

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# The RTT SERIES 5

## All-terrain capabilities

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## The RTT (SERIES 5) Specifications

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### Engine

**Type:** Land Rover 4 cylinder in line direct injection Turbocharged Diesel Engine with Intercooler

**Max Power:** 83 KW (111hp) at 4000 rpm

**Max Torque:** 265 NM at 1800 rpm

**Capacity:** 2495 cm

**Bore:** 90.47mm

**Stroke:** 97mm

**Cooling System:** Water cooling, thermostatically controlled.

**Cooling fan:** Viscous, temperature sensing

### Clutch

**Type:** Diaphragm spring

**Plate diameter:** 235mm

**Facing material:** Verto F202 (grooved)

### Main Gearbox

**Type:** Land Rover LT775, 5 speed helical constant mesh, with synchromesh on all forward gears

**Ratios:**

Fifth: 0.831:1

Fourth: 1.000:1

Third: 1.507:1

Second: 2.301:1

First: 3.585:1

Reverse: 3.101:1

### Transfer Gearbox

**Type:** Land Rover LT23OT, Two speed reduction gearbox, output to front and rear drive permanently engaged via a lockable differential.

**Ratios:**

High: 1.411:1

Low: 3.320:1

### Axles

**Reduction ratio:** 6.17:1

**Steering lock angle:** (front axle) 35 degrees

## Tyres

Michelin 335/80 R20 Radial MPT (re-groovable)

## Road Speeds

Low range	Km/h	mph	High range	Km/hr	mph
1st	10.2	6.3	1st	24.1	15.0
2nd	16.0	9.9	2nd	37.5	23.3
3rd	24.4	15.2	3rd	57.3	35.6
4th	36.7	22.8	4th	86.4	53.7
5th	44.2	27.4	5th	104.4	64.6

## Suspension

Coil springs with telescopic shock absorbers front and rear

## Brakes

**Service:** Full hydraulic powered, dual circuit system. Disc brakes all round with twin calipers on front axle.

**Parking:** Cable operated transmission brake operating on rear propshaft

## Steering

RH Sheppard recirculating ball hydraulic power steering suitable for LH or RH drive

## Electrics

**System:** 12V Negative earth.

**Battery:** 12V, 95Ah

**Alternator:** 14V, 45A

## Fuel Tank

70 litre (15.4 gallons) capacity, mounted on right hand side

## Chassis

**Construction:** Ladder construction, channel section mainframe with tubular cross members.

## Cab

**Type:** Full forward control, all steel welded construction with cross cab access, non-slip steps and grab handles. Hydraulic tilt for access to engine.

**Seating:** Drivers seat adjustable for height, reach and rake. Double passenger seat with armrests. Both finished in cloth trim.

**Seat Belts:** 3 point anchorage seat belts for driver and two passengers

**Visibility:** Laminated front windscreens, sliding side windows and rear windows  
Instrumentation: Speedometer (km/hr + mph), tachograph if required, tachometer, fuel level, water temperature

**Warning Lights:** Main beam, direction indicators, parking brake, generator warning, hazard warning, differential lock warning, brake fluid level, pre-heat, side lights. Other warning lights available to Suit specific applications

**Exterior Equipment & Lighting:** Rear view mirrors. headlamps with combined side lights. Indicator lights, stop lights, hazard-warning lights,

## Plated Weights

Plated weight	Kg	Kerb weight	Kg
Front axle	2500	Front axle	1980
Rear axle	3200	Rear axle	720
Total	5700	Total	2700

## Performance

**Top speed:** 104 km/h

**Gradeability (unladen)** 100%

**Gradeability (laden)** 70%

## Options

Automatic gearbox

Hydraulic power take offs

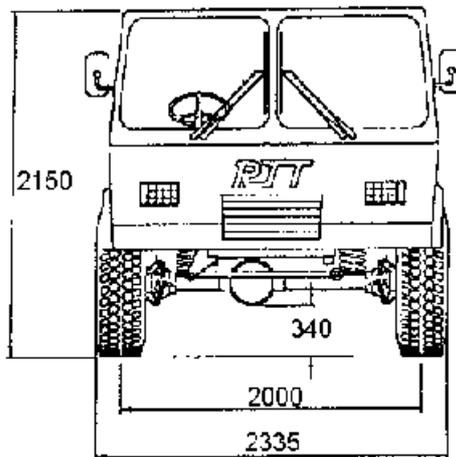
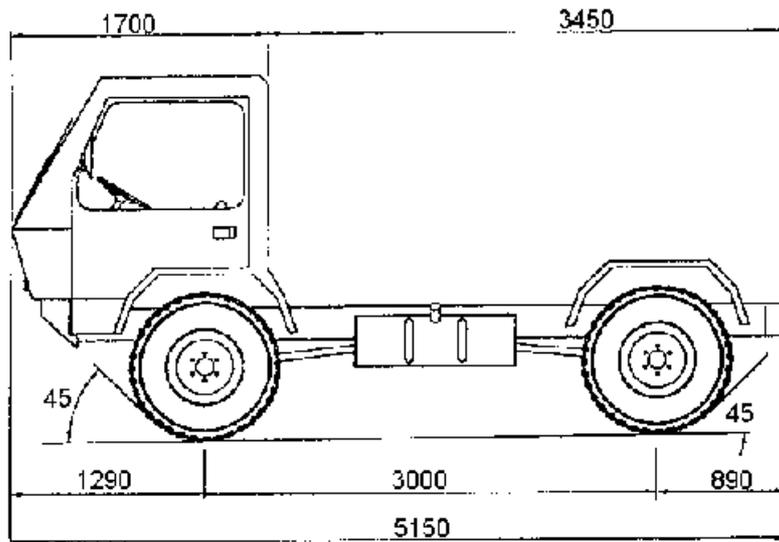
Air conditioning

Anti-roll bar

Wading kit

Various other options available to suit customer requirements.

## Dimensions



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For further information, a demo, test drive or visit to our factory please contact:

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