



### Dimensions, mm

|   |  |      |      |      |
|---|--|------|------|------|
| A   | Wheelbase .....  | 2900 | 3000 | 3200 |
| TW  | Theoretical wheelbase .....  | 3587 | 3687 | 3887 |
| CA  | Centre of bogie axle group to back of air intake .....   | 2641 | 2741 | 2941 |
| EA  | Centre of bogie axle group to back of exhaust .....  | 2368 | 2468 | 2668 |
| BBC   | Bumper to back of cab .....  | 2230 | 2230 | 2230 |
| G   | Overall cab/chassis length .....   | 6373 | 6740 | 6940 |
| J   | Rear overhang .....  | 733  | 1000 | 1000 |
| S   | Calculate the chassis weight of the actual specification, then calculate "S" .....             | 135  | 140  | 140  |
| S=(Payload front axle x theor. wheelbase ÷ payload total) |  |      |      |      |
| P   | Exhaust height to top of pipe - unladen .....  | 4300 | 4300 | 4300 |
| O   | Cab height to top of roof - unladen ( + 50 mm to air intake). Globetrotter cab + 397 mm) ..... | 3272 | 3272 | 3272 |
| R   | Turntable mounting angle to ground above centre bogie - unladen .....                          | 1080 | 1080 | 1080 |

\* Chassis height can vary ±25mm

### Turning Diameter:

|  |       |       |       |
|--|-------|-------|-------|
| Turning circle diameter kerb to kerb ..... | 12481 | 12776 | 13366 |
| Turning circle diameter wall to wall ..... | 14011 | 14308 | 14902 |

### Weights:

|   |        |        |       |
|---|--------|--------|-------|
| Chassis weight, front .....               | 5133   | 5140   | 5155  |
| Chassis weight, rear .....                | 3738   | 3740   | 3755  |
| Chassis weight, total .....               | 8871   | 8910   | 8910  |
| Front suspension rating .....             | 6700   | 6700   | 6700  |
| Max. rear suspension bogie rating .....   | 17000  | 17000  | 17000 |
| Gross vehicle mass rating (GVM)* .....    | 23700  | 23700  | 23700 |
| Gross combination mass rating (GCM) ..... | 125200 | 125200 | 25200 |

\* 21,000 kg bogie rating and 27,700 GVM with RAL21

\* GCM rating is dependant on the aftermarket fitment of ADR approved towing equipment.

### Weight modifications kg: (tolerance ± 1.5%)

|                                 | Front | Rear  | Total  |                                     | Front | Rear  | Total |
|---------------------------------|-------|-------|--------|-------------------------------------|-------|-------|-------|
| RADD-A8 RAL21 .....             | + 30  | + 51  | + 81   | Steel disc wheels .....             | + 20  | - 159 | - 139 |
| FUEL 2 x 505L fuel (full) ..... | + 475 | + 353 | + 828  | Alloy disc wheels (ilo spoke) ..... | - 10  | - 276 | - 286 |
| FUEL 2 x 585L fuel (full) ..... | + 547 | + 457 | + 1004 | Globetrotter cab .....              | + 112 | - 9   | + 103 |
| FUEL 2 x 655L fuel (full) ..... | + 616 | + 508 | + 1124 | CTEV87(Steel disc wheels).....      | + 20  | - 343 | - 323 |
| Roof and Side deflectors .....  | + 104 | - 0   | + 104  | CTEV87(Spoke wheels).....           |       | - 350 | - 350 |

**Chassis weights include:** Cab L2H1, Engine CU15A565, Gearbox VT2514OD, rear axle CTN372, FRAME77, ULINER, rear bogie RADD-A8, Bogie load RAL17, spoke wheels 8.25 - 22.5 with 295 / 80R22.5 front tyres and 11R22.5 rear, plastic rear bogie mudguards, oil and coolant, no fuel, tools and spare wheel.

# FH 565 6x4 Prime Mover Rear Air Suspension

## Driveline

### ENGINE - Cummins Signature 565

Six cylinder turbocharged intercooled diesel engine with dual overhead camshafts and variable output turbo. One camshaft dedicated to the injectors with the second used to optimise valve timing and exhaust brake. Cummins Interbrake managing brake, engine and accessory functions.

#### ■ CU15A565

421 kW (565 hp)..... 1600 - 1900 rpm  
2508 Nm (1850 lb.ft)..... 1100 - 1500 rpm  
Economy speed range: 1200 - 1600 rpm  
Max engine speed..... 1900 rpm  
Engine brake power at 1900 rpm..... 448 kW  
Bore & Stroke..... 137 x 169 mm  
Displacement ..... 15 dm<sup>3</sup>  
Oil volume..... 53 litres  
Cooling Volume..... 55 litres

### CLUTCH.

#### ■ CL40D - O

Organic twin plate clutch with servo assistance and reduced clutch forces.  
Diameter..... 400 mm  
Total Area..... 3063 cm<sup>2</sup>

### GEARBOX

#### ■ VT25140D

New generation easy shift gearbox. 14 Forward speeds, 12 synchronized plus 2 crawler. Range change gearbox with splitter. Oil to water transmission cooler standard.  
Ratios:

**Low Range:**    1        2        3 Reverse  
Low split    8.92:1 5.74:1 3.75:1 12.09:1  
High split    7.15:1 4.68:1 3.00:1 9.69:1

#### High Range:

Low split    2.38:1 1.53:1 1.00:1 3.22:1  
High split    1.91:1 1.23:1 .8:1 2.58:1

**Crawler:** Low 16.41:1 High 13.16:1  
Oil Capacity..... 13 litres

### FINAL DRIVE

■ **CTN372** Hub reduction hypoid axles. Differential lock and power divider lock.

Ratios:..... 3.76, 4.12, 4.55  
Axle rating..... 26,000 kg  
Technical GCM..... 125,200 kg

○ **CTEV87** Single reduction hypoid axles. Differential lock and power divider lock.

Ratios:..... 3.56, 3.78  
Axle rating..... 26,000 kg

**GCM Available on application approval.**

### Driveline Combinations

| GCM                | 68t  | 69t-125.2t |
|--------------------|------|------------|
| Recommended ratios | 3.76 | 4.12       |

### STEERING

Power steering with variable ratio.  
Maximum wheel lock angle..... 50°  
Number of turns of steering wheel..... 4.5  
Steering wheel diameter..... 450 mm

## Chassis

### ■ FRAME77 - ULINER

Constant frame width of 850 mm made of high strength steel. Flange width 90 mm. Paint finish black acran 2-pack standard. Web and flange thickness..... 7 mm  
Section Height..... 300 mm

■ Rear overhang HB300/3200..... 1000mm  
■ Rear overhang HB2900..... 733mm

### FRONT AXLE

Front axle is equipped with grease lubricated tapered unit bearings premounted in the hub for extended service life.

Front axle rating..... 7,100 kg

### SUSPENSION

#### Front

Parabolic 2-leaf spring with double-action hydraulic shock absorbers and high stiffness anti-roll bar. .

Spring length..... 1890 mm  
Spring width..... 100 mm

#### Rear

Air suspended 8 bag system with electro-pneumatic dump valve for trailer coupling. Double acting hydraulic shock absorbers.

#### ■ RADD-A8/RAL17

Anti-roll bar on second drive axle.  
Roll bar diameter..... 1 x 65 mm  
Rating..... 17,000 kg

#### ○ RADD-A8/RAL21

Anti-roll bars on first and second axle.  
Roll bar diameter..... 2 x 65 mm  
Rating..... 21,000 kg

### BRAKES

Dual circuit compressed air braking system with spring brake cylinder on the front and first drive axles. Steel air tanks and single tower air drier. Trailer park valve. Gear driven compressor. Volvo Z-cam brakes with asbestos free lining and load sensing valve on drive axle.

Friction area:  
Front (FAL6.7)..... 2750 cm<sup>2</sup>  
Bogie axles..... 2 x 3140 cm<sup>2</sup>

■ 2 cyl. comp..... 1060 l/min  
■ Front brake lining width..... 150 mm

■ Rear brake lining width..... 200 mm

■ Brake drum diameter..... 410 mm

○ Anti lock brake system with 12V trailer supply. (without loadsensing valve)

### Trailer options

○ Trailer brake connections - pogo stick suzi coil with air push on connections and electrical lead.

### FUEL TANKS

Cylindrical aluminium tanks.

■ Lockable cap  
Tank Diameter..... 710 mm  
Battery box..... Across frame

■ Capacity 1010L..... WB2900  
Capacity LHS and RHS..... 505L

■ Capacity 1010L..... WB3000 / 3200  
Capacity LHS and RHS..... 505L

○ Capacity 1170L..... WB3000 / 3200  
Capacity LHS and RHS..... 585L

○ Capacity 1310L..... WB3200  
Capacity LHS and RHS..... 655L

## Chassis

### WHEELS & TYRES

#### ■ Spoke wheels

Six spoke spider hubs with demountable rims and steel belted radial tyres (10 off).  
Rim size: 8.25 inch width x 22.5 inch dia.

■ Black plastic rear bogie mudguards.

#### ○ Steel Disc wheels

10 stud ISO 335mm pitch circle diameter.  
Rim size: 8.25 inch width x 22.5 inch dia.

#### ○ Steel Disc wheels - wide steer

10 stud ISO 335mm pitch circle diameter.  
Rim size: 11.75 inch width x 22.5 inch dia.

#### ○ Alloy Disc wheels - polished

#### ○ Alloy Disc wheels - unpolished

Alcoa aluminium wheels.  
10 stud recessed nut ISO 335 mm pitch circle diameter.

Rim size: 8.25 inch width x 22.5 inch dia.

### Front Tyres:

■ 295/80R22.5..... 8.25 inch rim width

○ 11R22.5..... 8.25 inch rim width

○ 385/65R22.5..... 11.75 inch rim width

### Rear Tyres:

■ 11R22.5..... 8.25 inch rim width

○ 295/80R22.5..... 8.25 inch rim width

○ Spare wheel and tyre

### ELECTRICAL EQUIPMENT

Voltage..... 24V  
Cranking current..... 560 A  
Reserve capacity..... 180 min  
Alternator..... 100A (2400W)  
Starter motor..... 7.76kW (10.4hp)  
Semi-trailer lighting voltage supply.... 12V  
In cab accessory socket voltage..... 12V  
Battery capacity according to AS2149 170Ah  
Circuit protection-automatic circuit breakers.  
Electrical master switch.

## Cab

■ Sleeper cab with textile trim

○ Sleeper cab with vinyl trim

○ Globetrotter with textile trim

For more detail information see separate Cab Specification sheet.

### POWER TAKE OFFS

A full range of clutch independent and gearbox mounted power take offs together with a choice of hydraulic pumps are available.

■ = Standard equipment.

○ = Factory mounted optional equipment