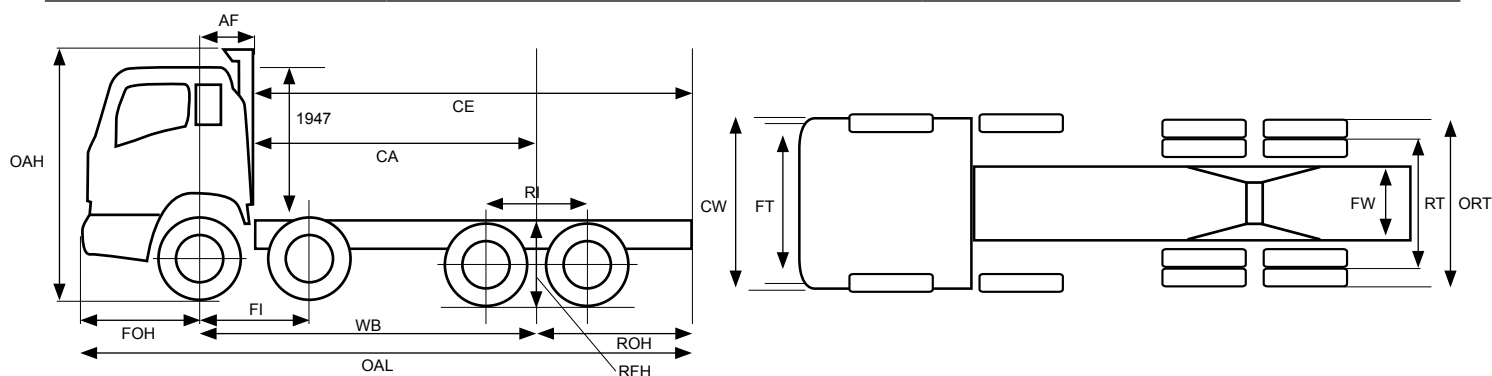




Sample photo only.
Actual vehicle may
differ from that shown.

SEPTEMBER 2010

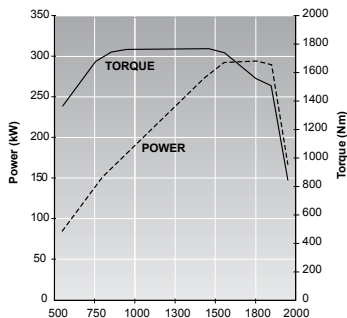
| MAIN SPECIFICATIONS | | |
|--|---|---------|
| Model | CYH400 | CYH400R |
| Code | CYH101 | CYH102 |
| Configuration | 8 x 4 | |
| GVM | 29,000kg | |
| GCM | 50,000kg | |
| Gradeability at GCM | 44% | |
| Estimated geared Speed | 90Km/h @ 1,620 RPM | |
| Turning circle kerb to kerb | 21.4m | |
| DRIVELINE SPECIFICATIONS | | |
| Engine Model | 6WG1-TCR | |
| Type | 6 Cylinder in-line OHC 24 valve. Denso common rail electronic controlled injection system, VGS Turbo and intercooled four stroke diesel. EURO IV exhaust emission compliant | |
| Displacement | 15,681cc | |
| Compression ratio | 16.0:1 | |
| Power (DIN Net) | 294kw (400PS) @ 1,800 RPM | |
| Torque DIN Net) | 1765N.m (1300lb/ft) @ 1,300 RPM | |
| Transmission Model | RTLO 16918 B | |
| Forward Gears | 18 | |
| KERB MASS | | |
| Front | 5,804 | 5,688 |
| Rear | 3,162 | 3,314 |
| Total | 8,966 | 9,002 |
| * Estimate with coolant, oils, tools and 20L of fuel | | |
| DIMENSIONS (mm) | | |
| WB: Wheelbase | 5,980 | |
| OAL: Overall length | 10,665 | |
| CW: Cab width | 2,490 | |
| OAH: Overall height | 3,290 / Cab 2,900 | |
| CA: Cab to rear axis | 5,216 | |
| CE: Cab to rear of frame | 8,501 | |
| FOH: Front overhang | 1,400 | |
| ROH: Rear overhang | 3,285 | |
| FT: Front track | 2,065 | |
| RT: Rear track | 1,850 | |
| FW: Frame width @ Rear | 850 | |
| RFH: Frame height at rear axis | 1,050 | |
| AF: Front axle to rear of cab | 764 | |
| FI: Front interaxle | 1,850 | |
| RI: Rear interaxle | 1,310 | |
| ORT: Overall rear tyres | 2,440 | |



Drive Line Specifications

Engine-ISUZU 6WG1-TCR

- Bore x Stroke 147mmx154mm
- Emission Std: Euro IV
- Cooled Exhaust Gas recirculation system and Diesel Oxidations Catalyst



Lubrication

- Pressure fed lubrication with full and partial flow cartridge filters
- System capacity approx 32.5 litres

Cooling System

- Thermostatically controlled with pressure vented radiator
- Remote mounted opaque coolant surge tank, gear driven pump and cooling fan

- Temperature modulated viscous hub fan
- System capacity approx 42 litres

Fuel System

- Pre filter with water in fuel sensor
- Heavy duty, fine micron main fuel filter
- 400 litre rectangular alloy fuel tank

Air Intake System

- Cab concealed 330mm heavy duty, dual element with above cab air intake
- Element restriction visual warning

Transmission: RTLO 16918 B

- Eaton 18 speed with multi disc countershaft brake and oil to air cooler
- PTO opening: bottom 8 bolt SAE, 474 Nm torque capacity
- Oil capacity approx 13 litres

Gear ratios:1

| | | | |
|------|-------|-------|-------|
| 1st | 14.40 | 12th | 1.92 |
| 2nd | 12.29 | 13th | 1.62 |
| 3rd | 8.56 | 14th | 1.38 |
| 4th | 7.30 | 15th | 1.17 |
| 5th | 6.05 | 16th | 1.00 |
| 6th | 5.15 | 17th | 0.86 |
| 7th | 4.38 | 18th | 0.73 |
| 8th | 3.74 | R-L/L | 15.05 |
| 9th | 3.20 | R-L/H | 12.86 |
| 10th | 2.73 | R-H/L | 4.03 |
| 11th | 2.29 | R-H/H | 3.43 |

Clutch

- Spicer EP 1552, ceramic 6 button, twin plate 393mm diameter
- Hydraulic control, air assisted

Exhaust

- Isuzu box type muffler and catalytic convertor with heat shield and horizontal R.H outlet

Front Axle: Isuzu FO66

- Reverse Elliot "I" Beam type

Rear Axle: Isuzu RT210

- Single speed tandem drive with interaxle differential lock and integral oil pump
- Ratio 4.33:1
- Hypoid type ring gear, 455mm diameter
- Oil capacity (approx) F18L, R 12L

Axle Load Summary

| | Front | Rear |
|-----------------------|--------|--------|
| Axle Capacity (kg): | 13,200 | 21,000 |
| Spring Capacity (kg): | 13,480 | 26,800 |
| Tyre Capacity (kg): | 12,600 | 23,200 |

Chassis Specifications

Front Suspension

- Alloy steel taper leaf spring (parabolic)
- F1 1,600 x 80 x 4
- Constant 35.7 kg/mm
- F2 1,450 x 80 x 4
- Constant 36.1 Kg/mm
- Hydraulic, double acting shock absorbers
- Stabiliser Bar F1 axle

Rear Suspension

- Isuzu 6 rod and trunnion axle location system
- Alloy steel taper leaf spring (parabolic)
- Nominal size: 1,310mm x 90mm x 32-5
- Constant kg/mm 347.5

Steering

- Recirculating ball steering with integral power assistance
- Gear ratio 20.2:1
- Soft feel steering wheel 480mm diameter
- Tilt/telescopic steering column, adjustable for height and angle
- System Capacity approx 6 litres

Brakes

- Dual circuit, full air, taper roller, auto adjusting, NZ Brake Rule 32015 compliant with ABS
- Drums 410mm diameter
- Front linings 160mm wide type 24 chambers
- Rear linings 220mm wide, type 24/30 chambers
- Total lining swept area 12,606cm²
- Spring park brake acts on all rear wheels
- Twin cylinder air compressor, 680cc
- Air dryer – desiccant type
- Air processing unit
- Trailer brake hand control with limited travel

Auxiliary Retardation

- Isuzu X-Tard air controlled butterfly type exhaust brake providing up to 350ps @ 2,000rpm
- Isuzu GIGA-Tard NT65 lightweight, heavy duty permanent magnet drive shaft retarder providing up to 65 kgf-m silent retardation (CYH400R only)

Chassis Frame

- Rolled steel, ladder type channel section with cold riveted cross members
- Side member dimensions mm 285x85x7.0
- Inner frame reinforcements around suspension attachment points
- Material HT540
- Please refer to the *Isuzu Body Builders guide for chassis modifications and body fitment*

Wheels and Tyres*

- One piece steel wheels 8.25" x 22.5" with 165mm offset, 10 stud, 22mm hole size and 335mm PCD
- Tyres: Front 275/70 R22.5 148/145
Rear 275/70 R22.5 148/145
- No spare wheel or tyre

Electrical System

- 24 volt negative earth system
- Alternator 50 amp
- Battery: 2 x N120 type 638CCA (-18C)

Cabin Specifications

Cab Exterior

- All steel cab, monoquoue construction with welded strengthening ribs and door side impact beams, standard roof height
- Door mounted 22", electric heated main and convex mirrors
- ECE R29 cab strength standard compliant
- LH kerb mirror and front underview mirror
- Enclosed alloy non slip cab steps with RH door step light
- Power tilt cab to 48 degrees with manual back up
- 4 point, electronic controlled air bag with 4 dampers cab suspension
- Lift up front panel for eng oil, screen wash and clutch fluid check and fill
- Halogen headlamps with in cab manual levelling switch
- Cornering lamps
- LH exterior locker

Cab Interior

- Fully trimmed with vinyl floor coverings and curtains
- ISRI 6860, Air seat, auto weight compensating to 150kg with integral pre tensioner seat belt

- Fixed LH seat with manual back rest and fore/aft adjustment
- Driver side SRS including air bag
- Auto air conditioning
- Hot/cold storage box
- Double din, touch screen single CD AM/FM unit with Bluetooth, aux in, SD card slot, USB port, 4 speakers and option of up to 3 cameras, split screen and navigation card
- Grab handles on the A and B pillars
- LH and RH internal sun visor
- Centre storage compartment areas
- 2 overhead lockers and CB compatible compartment
- Power windows
- 12v/100w accessory outlet
- Interior light and fluorescent light

Instrument and Controls

- Electronic Speedometer with odometer, 2 trip meters and electronic tachometer
- Main, primary and secondary air pressure gauges
- Fuel level and engine coolant lamp gauges

- LH combination stalk switches for: 2 spd wipers and variable intermittent settings and washers, hazard lights, X-Tard
- RH combination stalk switches for: head lamps, high beam, turn signal, cruise control set, resume and cancel
- Idle speed adjustment switch
- Cruise control
- Diff lock switch with engaged light
- Warning lamps for: check engine, ABS fault, water in fuel, low air pressure (and buzzer), seat belt reminder
- Indicator lamps for: trailer non ABS, park brake on, exhaust brake, turn signal, high beam, trailer hand control on, cruise main, set
- Multi info display includes: clock, calendar, fuel consumption including: Total fuel economy and fuel consumption, Trip distance, fuel economy, trip fuel consumption, instant fuel consumption (displayed while moving), fuel used idling (displayed while stationary) battery voltage
- Multi info display warnings include: engine overheat, low coolant level, low oil pressure, low fuel level

Warranty

Vehicle: 24 months/250,000km*
Powertrain: 36 months/250,000km*
Corrosion (Perforation): 36 months

* Whichever comes first. Subject to the terms and conditions detailed in the warranty book.

Please refer to the Owners and Drivers Manual for more detailed operation, driving instructions and warnings.

A policy of continual improvement means that the specifications are subject to change without notice. Contact your Isuzu Dealer to confirm current specification.