

ENGINE

Cummins 15-Litre ISX
 EGR (Exhaust Gas Recirculation)
 Type: Turbocharged, aftercooled, electronically direct injected fourstroke diesel.
 Compression Ratio: 17.1:1
 Number of cylinders: 6.
 RAC HP rating: 67.8.
 Total displacement: 14.9 litres.
 Maximum output: 485hp/362kW @ 2000rpm.
 Maximum torque: 1850lb ft/2508Nm @ 1400rpm.
 Dry-element air cleaner.
 Single, gantry mounted exhaust muffler on LHS.
 Optional Exhaust: Dual gantry mounted mufflers at rear of cab
Optional Engine Ratings:
 525hp/392kW & 1850lb ft/2508Nm.
 550hp/410kW & 1850lb ft/2508Nm.

TRANSMISSION

IVECO EuroTronic II I6AS2630 TO OD automated 16-speed overdrive.
 Two-pedal operation with automatic or manual shift control.
 (Rev: 13.07/10.81:1, 1st: 14.12:1, 16th: 0.83:1)
 With oil cooler.

REAR AXLE

Meritor RT46-160GP
 Capacity: 20.9 tonnes.
 Ratios: 3.58, 3.73, 4.10.
 Driver controlled differential locks.
Optional:
 Meritor RT50-160GP.

REAR SUSPENSION

Hendrickson Primaax PAX 460
 Type: Air.
 Capacity: 18.0 tonnes.

CLUTCH

Self-adjusting single-plate with air assisted hydraulic actuation.
 Diameter: 430mm.

FRONT AXLE

IVECO 5876
 Type: Forged steel I-beam.
 Capacity: 7.5 tonnes.

FRONT SUSPENSION

Type: Three-leaf parabolic springs.
 Double acting telescopic shock absorbers.
 Capacity: 7.0 tonnes.

BRAKES

Type: 2-circuit air system.
 Front: 432mm Knorr disc brakes.
 Rear: Meritor S-Cam 419mm diameter x 178mm drum brakes with automatic slack adjusters.
 Brake lining area: 5600cm².
Optional:
 Knorr SN7 Rear Disc Brakes on rear axles.
 100-litre aluminium air reservoirs.
 Dessicant type air dryer/pressure regulator.
 Semi-trailer air connections.
 Wabco E 4-channel ABS/EBL with ASR.
 Trailer ABS facility.

STEERING

Sheppard M110 power-assisted with gear-driven pump.
 460mm diameter adjustable steering wheel.

FUEL SYSTEM

Aluminium tanks.
 2 x 450 litres of fuel = 900 litres.
 Fuel Pro primary filter.
Optional:
 Round 1 x 450 litres + 1 x 200 litres fuel/250 litres oil = 900 litres.
 Square 2 x 500 litres = 1000 litres.
 Square 4 x 500 litres = 2000 litres (Prime Mover with 4800mm Wheelbase only).
 2 x 360L Supplementary Round Tanks (Prime Mover with 4800mm Wheelbase only).

CHASSIS

Type: 257x89x8mm parallel-section high-tensile steel channel.
 Yield strength: 760 MPa.
 Section modulus: 243cm³.
 Tapered rear of frame with fifth wheel mounting angles
 Polished Alloy Bumper with Fog and Driving lights, covers & FUPD.
Optional:
 Square end of frame with trailer connections to ROF.
 Deckplate.
 Polished aluminium bull bar with Fog and Driving lights, covers & FUPD.
 No front bumper or FUPD (ready for aftermarket bulbar fitment).

ELECTRICAL SYSTEM

Type: 24-Volt, negative to earth.
 Multiplex computerised CANBUS integrated wiring and systems control network with centralised colour display, controls and diagnostics.
 Batteries: 4 x 560 amps SAE cold cranking current per battery, with remote isolation switch mounted behind cab.
 Alternator: 24V, 90 amps.
 Headlamps: 70/75 watt, with covers.
 Rear flood light.
 Semi-trailer HD ISO 7-pin socket.
 12 Volt power outlet in dash.
 Cab marker lights.
 Trailer connections.
 24-12 Volt converter for trailer lighting.
 70 Watt fog and driving lamps with covers.
 Tail light brackets and mudflaps.

WHEELS AND TYRES

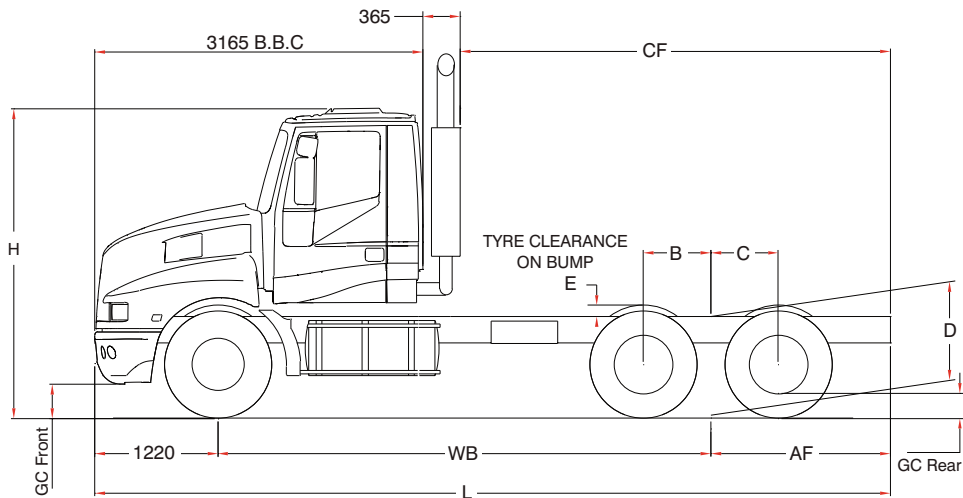
Wheels: 8.25DC x 22.5 10-stud 335mm steel disc.
 Front tyres: Pirelli FR28* 295/80R22.5.
 Rear: Pirelli TR26*, 11R22.5.
Optional:
 Alcoa 8.25DC x 22.5 10 stud 335mm PCD alloy disc.
 Plain or Durabright finish.
 *or different brand, equivalent model.

COOLING SYSTEM

Radiator frontal area: 10830cm².
 Charge air cooler frontal area: 6840cm².
 Two-speed electronic magnetic fan, controlled by VCM and Mux system.

DRIVELINE

Spicer 1810 Series main driveline with Spicer 1710 Series interaxle.



CAB CONSTRUCTION

IVECO Active Day 2280mm wide, 3165mm BBC all steel, conventional control day cab with low roof. Four-point cab mounting system with air suspension and dampers at rear.

FEATURES

Fully adjustable ISRI self levelling air suspension driver's seat with headrest, adjustable damper and integral lap-sash retractor seat belt. Fixed ISRI passenger seat with lap sash retractor seat belt. 90° opening doors with electrically operated window and low-level visibility forward window. Storage locker in overhead console and compartments on left hand door and rear wall of cab.

Optional:

ISRI self levelling air suspension passenger seat with headrest, adjustable shock absorber and integral lap-sash retractor seat belt leather air suspended driver seat & leather air suspended passenger seat.

ACCESSORIES

Two internal sun visors with shade cloth blinds on side window. Dark grey acrylic exterior sunvisor. Aerodynamic powered and heated mirrors, with a flat and convex spotter mirror on each side and a kerb view mirror on the passenger side. Climate control Air conditioning. Heater demister with 4-speed fan. Demist ducts to door glasses. 2-speed and intermittent action twin windscreen wipers/washers. AM/FM radio/CD player with steering wheel controls. Dual roof-mounted air horns. Iveco Colour Display (ICD) instrument panel with Electronic speedometer and tachometer, fuel level gauge, engine coolant temperature gauge, and ICD displays for air pressure, system voltage, engine oil level, pressure and temperature, engine coolant temperature. Warning lights in ICD for power divider, difflocks, park brake, engine brake, high beam, fog and driving lights, parking lights, turn signal, hazard lights, low air pressure, brake system fault, park brake, mirror heaters. The ICD also gives information on Hi-Fi settings and control, clock and alarm settings, trip data and trip computer, diagnostics, mirror adjustments and Eurotronic transmission functions.

Air controls mounted in centre dash console for park brake, inter-axle locks cross-diff locks and rear air suspension dump. Gear control lever on steering column. Cruise control.

Optional:

Aerodynamic roof deflectors and cab side extenders.

FINISH

White painted cab and bumper with grey fenders. Cab treated with anti-corrosion protection and metallic joints treated with vinyl sealant Insulation on cab underbody.

MASS RATINGS

GVM 25.0 tonnes.

GCM 90.0 tonnes.

Chassis mass front 4.97 tonnes

Chassis mass rear 3.90 tonnes

Chassis mass total 8.80 tonnes

Chassis with oil and coolant, but no fuel, spare wheel or tyre.

SUSPENSION (Dimensions in mm)

| | B | C | D Laden | D Unladen | E |
|--------|-----|-----|------------|--------------|-----|
| PAX460 | 658 | 665 | 1005 | 1030 | 105 |

CHASSIS DIMENSIONS (Dimensions in mm)

| | | | |
|------------------|-------|-------|---------------|
| WB | 4500 | 4800 | 5000 (Tipper) |
| GC(Front) | 273 | 273 | 273 |
| GC(Rear) | 242 | 242 | 242 |
| AF | 1420 | 1420 | 1800 |
| CF | 3610 | 3910 | 4490 |
| L | 7180 | 7480 | 7680 |
| Turning circle** | 16800 | 17200 | 17900 |

**For wall to wall, add 850mm

CAB Style (Dimensions in mm)

| | H | H (aero kit) |
|------------|------|--------------|
| Active Day | 2980 | 4000 |

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Powerstar Spec Sheet (DECEMBER 2009)