

QANTUM SPECIFICATIONS

Now with
Cummins
ISX



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MACK - WE'RE ON THE MOVE

ENGINE & TRANSMISSION

ENGINE MODEL

MACK EA7-370 CCRS
12 litre, 6 cylinder
276 Kw (370 Hp) @ 1,800 rpm
1,979 Nm (1,460 lbs ft) torque @ 1,200 rpm

J-TECH (JAKE) ENGINE BRAKE

Engine retarding power 280 Kw (375 bhp)
@ 2,100 rpm

AIR INTAKE & FILTER

DONALDSON 279 mm (11") Single dry type element with remote air intake at the rear of cab on RHS

FILTERS

Oil : Two spin-on full flow disposables and one Centri-max centrifugal filter
Fuel : Two spin-on disposable
All engine mounted

AIR COMPRESSOR

16.5 cfm capacity

ALTERNATOR

24 Volt, 100 Amp

STARTER

24 Volt - electric starter motor
Key type start & stop

BATTERIES

Four 12 Volt

FAN

KYSOR DYNAIR on/off drive with 26" 9 blade nylon fan

RADIATOR

7,700 cm² (1,193 in²) frontal area

EXHAUST

Single 127 mm (5") vertical exhaust and muffler with heat shield, post mounted on LHS
Standard height above ground : 3,400 mm

TRANSMISSION MODEL

EATON FULLER RTLO-14913A without oil cooler
Twin countershaft 13 speed overdrive
Forward gears : 13 Reverse gears : 2
High : 0.73 Low : 12.31
Torque rating : 1,966 Nm (1,450 lbs ft)
(Must be fitted with an oil cooler if used behind a 410 Hp engine)

CLUTCH

EATON FULLER 394 mm (15.5") Easy Pedal
Cable clutch control, air assisted

FRONT & REAR AXLES

FRONT AXLE

MERITOR FG 941
Nominal capacity : 6,600 kg (14,520 lb)

FRONT SUSPENSION

Two 1,397 mm (55") long 3-leaf parabolic springs with shock absorbers

FRONT BRAKES

MERITOR "Q Plus" 419 mm x 127 mm (16.5" x 5")
Front manual slack adjusters,
Type 20 brake boosters

STEERING GEAR

SHEPPARD M110 Ratio 23 : 1

REAR AXLE

MERITOR RS 23-160 (single drive)
Nominal capacity : 10,433 kg (23,000 lb)
Front mounted carrier, Ratio 4.3 : 1

REAR SUSPENSION

MACK AL-231 air suspension
Nominal capacity : 10,433 kg (23,000 lb)

REAR BRAKES

MERITOR "Q Plus" 419 mm x 178 mm (16.5" x 7")
Rear manual slack adjusters,
Type 30 / 30 brake boosters
Dual line air with spring emergency brakes and emergency release hand control brake valve and tractor protection valve

DIFFERENTIAL LOCK

Driver controlled inter-wheel differential lock on single drive axle

DRIVELINE

SPICER 1810 HD main

WHEELS

Front & Rear : Cast 6-spoke hubs
22.5" x 8.25" silver steel tubeless rims

TYRES

Front : MICHELIN XZE-2 11R22.5 - 16 ply
Rear : MICHELIN XDE-2 11R22.5 - 16 ply

CHASSIS

FRAME

Low alloy heat treated steel
258 mm x 88 mm x 8 mm (10.16")
Single Rail

WHEELBASE

3,531 mm (139") with turntable angles
Rear Overhang : 991 mm (39")

CAB MOUNTS

Front : 2 point air suspension with hydraulic spring dampers
Rear : 2 point spring suspension with hydraulic spring dampers

FRONT BUMPER

Grey plastic

AIR TANKS

Two steel air tanks mounted under frame with auxiliary tanks mounted in frame

FUEL TANK

One 360 litre alloy round tank on RHS

BATTERY MOUNTS

One steel cradle with fibreglass cover mounted in vertical gantry at back of cab

CAB

DAY CAB SHELL

Cataphoretically treated electrogalvanised sheet steel panels with IFHR steel
Tinted laminated flush bonded windscreen
External sunvisor, Manual sunroof
60° electro/hydraulically assisted cab with kerbside tilt controls
Three illuminated anti-slip access steps
90° wide entry doors
Full sound and thermal insulation

INTERIOR - DELUXE

Trim : Sepia cloth fabric (Scotchguarded)
Dashboard : Black plastic fascia panel
White on black gauges
Floor : Gravel fleck rubber mat
Sound system : BLAUPUNKT radio / cassette with steering column controls
Power driver and passenger window

INSTRUMENTS / GAUGES - STANDARD

Speedometer / Odometer (Electronic)
Tachometer (Electronic), Analog clock
Voltmeter, Air pressure, Fuel level
Engine coolant temperature and oil pressure

INTERNAL EQUIPMENT

3 piece internal sunvisor and independent driver's side sunvisor
Centre bottle rack and cup rest
Passenger side glovebox
Door pockets on driver's and passenger sides
Turn signal levers with automatic return
Interior access to fuses and relays
Storage compartment on rear wall

CLIMATE CONTROL

Heater / Demister - 4 speed fan
Integral cab air conditioner

COURTESY LAMPS

Two door entry cab lamps mounted centrally above the windscreen with adjustable spot lamps

HEADLAMPS

Two dual lens headlamps, recess mounted in pivoting array offering easy access for cleaning and bulb replacement
Electronic dip and headlight beam angle adjustment from driving position

HORNS

Air : Two circular single trumpets

MARKER LAMPS

2 roof mounted clear lamps

MIRRORS

Power operated aerodynamic anti-vibration heated side mirrors with LH spotter mirror and passenger side downward vision mirror

SEATS

Driver : luxury ISRI air ride driver's seat
Passenger : ISRI fixed cushion seat

STEERING WHEEL

Soft touch 460 mm with A4 writing platform
Adjustable tilt and telescopic steering column,
Heel operated steering wheel release for easy
access & egress

WINDSHIELD WIPERS

Electric variable speed and intermittent
incorporating wash jets with washer reservoir
mounted under passenger side step

PAINT

TYPE & COLOUR

Cab : Glacier White
Chassis : Single non-metallic chassis colour

TRAILER CONNECTIONS

Semi connections at rear of the cab
Air : Service and emergency with blanking plugs
Electrical : 24 Volt 7 pin female base

FACTORY OPTIONS

ENGINE MODEL

MACK EA7-410 CCRS
305 Kw (410 Hp) @ 1,800 rpm
1,979 Nm (1,460 lbs ft) torque @ 1,200 rpm

MACK EA7-435 CCRS

325 kW (435 hp) @ 1,800 rpm
2,115 Nm (1,560 lbs ft) torque @ 1,200 rpm

MACK EA7-470 CCRS

350 kW (470 hp) @ 1,800 rpm
2,250 Nm (1,660 lbs ft) torque @ 1,200 rpm

CUMMINS ISX 500

373 kW (500 hp) @ 1900 rpm
2480 Nm (1850 lbs ft) torque @ 1200 rpm
Fitted with Intebrake engine retarder
18.7 cfm Air Compressor

TRANSMISSION

EATON FULLER RTLO-14913A (13 speed)
EATON FULLER RTLO-16913A (13 speed)
EATON FULLER RTLO-16918B (18 speed)
EATON FULLER RTLO-18918B (18 speed)
EATON FULLER RTLO-18918B AUTOSHIFT
EATON FULLER RTLO-20918B (18 speed)
(standard with Cummins ISX engine)
EATON FULLER RTLO-20918B AUTOSHIFT
All transmissions fitted with oil coolers

CLUTCH

EATON FULLER Easy Pedal with VCT
EATON FULLER Solo self adjusting with VCT
(required with EATON Auto Shift Transmissions)

FRONT AXLE

Meritor MFS73
Nominal Capacity: 7,200kg

FRONT BRAKES

MERITOR DX195 disc brakes (Meritor FG941 only)
Front automatic slack adjusters

STEER WHEELS

10-stud (335 mm PCD) steel disc
ALCOA 10-stud (285 mm or 335 mm PCD)
polished alloy disc

STEER TYRES

MICHELIN XZE-2 295/80R22.5
MICHELIN XZE-2 275/70R22.5 (Round fuel tanks only)

REAR AXLES & SUSPENSIONS

DANA DSH40-(P) on HENDRICKSON HAS-400 (air)
MERITOR RT40-145GP on MERITOR AC6P (6-rod)
MERITOR RT40-145GP on HEND HAS-461 (air)
MERITOR RT40-145GP on
HEND HAS-400 LOW PROFILE (air)
MACK HAS381/200 (air)
DANA DS462P on HENDRICKSON HAS-461 (air)
MERITOR RT 46-160GP on HEND HAS-461 (air)
MERITOR RT 46-160GP on HEND PRIMAAX (air)
(standard with Cummins ISX engine)
DANA DS521P on NEWAY AD246

REAR BRAKES

MERITOR DX225 disc brakes
(only available with front disc brakes)
Rear automatic slack adjusters
Type 30 / 30 brake boosters (6 x 4 models only)
4-channel ABS anti-lock braking system

DIFFERENTIAL LOCKS

Driver controlled cross wheel differential locks on
both drive axles (only available on non-Mack axles)

REAR AXLE RATIOS

Ratio 4.30 : 1 (Meritor RT 46-160GP only)
Ratio 4.33 : 1 (Dana DSH40-P or DS 462P only)
Ratio 4.35 : 1 (Mack only)
Ratio 4.56 : 1 (DS 462/521 46-160GP only)
Ratio 4.63 : 1 (DSH40-P or RT 40-145GP only)
Ratio 4.73 : 1 (Mack only)

DRIVE WHEELS

10-stud (335 mm PCD) steel disc
ALCOA 10-stud (285 mm or 335 mm PCD)
polished alloy disc

DRIVE TYRES

MICHELIN XDY 11R22.5
MICHELIN XDE-2 275/70R22.5

FRAME

254 mm x 86 mm x 6 mm (10") + 6 mm Double rail
(Mandatory above 218" wheelbase and for GCM
greater than 70 tonne)

WHEELBASE

4,000 mm (157.5")
4,250 mm (167")
5,500 mm (216.5")
6,100 mm (240")

AFTERFRAME

1,700 mm (67") short rigid rear overhang
2,500 mm (98.5") long rigid rear overhang
(All chassis lengths can be specified with tapered ends)

BUMPER / BULLBAR

BOCAR fold down polished alloy bullbar

FUEL TANKS

Two 360 litre round alloy tanks
Two 360 litre round alloy tanks with LHS tank split
(230 L oil and 130 L fuel)
Two 510 litre round alloy tanks
(only on wheelbases > 4000 mm)
Two 630 litre square alloy tanks
(Polished fuel tanks are available for all tank combinations)

CAB

Sleeper cab (LHS Locker Door Standard)
RHS Locker Door

Elite Interior

(standard and only with Cummins engine option)
Grey pleated roof, side and rear walls, towel rail,
thicker mattress and woodgrain dash

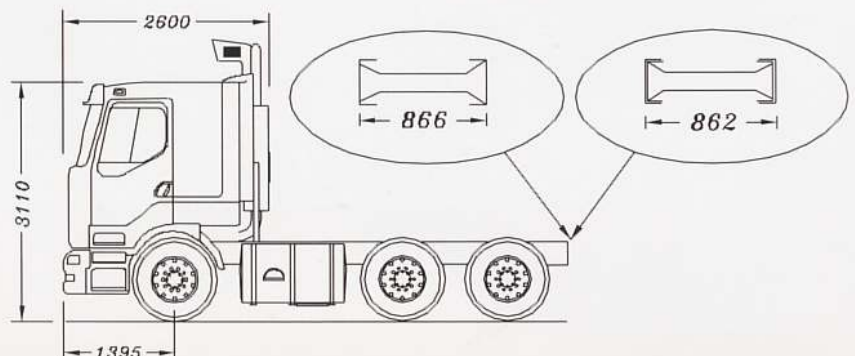
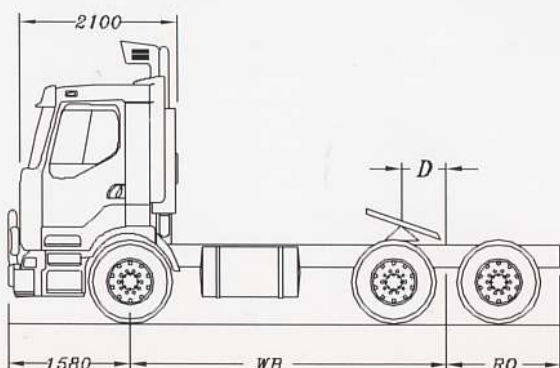
MONITORING SYSTEM

Mack VIP in-dash integrated driver information display
Cummins Road Relay dash display

FACTORY ACCESSORIES

Many factory fitted accessories (lights, radios,
turntables, etc) which are not listed, are also
available.

All customers are encouraged to see their
Authorised Dealer for full details.



REAR AXLE	RATIO	SUSPENSION*				
		MACK AL231	HAS 400	HAS 461	PRIMAAX	NEWAY
MERITOR RS 23-160	4.30 : 1	38,000 kg	N/A	N/A	N/A	N/A
DANA DSH40-P	4.33 : 1	N/A	50,000 kg	N/A	N/A	N/A
MERITOR RT 40-145GP	4.33 : 1	N/A	N/A	50,000 kg	N/A	N/A
MACK HAS 381/200	4.73 : 1	N/A	N/A	70,000 kg	N/A	N/A
DANA DS 462P	4.56 : 1	N/A	N/A	90,000 kg	90,000 kg	N/A
MERITOR RT 46-160GP	4.56 : 1	N/A	N/A	90,000 kg	90,000kg	N/A
DANA DS521P	4.56	N/A	N/A	N/A	N/A	90,000kg

* Ratings shown are maximum GCM's allowed for the nominated axle & suspension combinations, these can be restricted by the chassis rails (eg: Single Rail 70 tonne maximum & Double rail 90 tonne maximum).

Ratio shown is the lowest numerical ratio available for the nominated GCM.

• Application approvals must be obtained for all off-road operations and GCM's above 90,000kg.

WHEELBASE	DISTANCE (D)*	MAXIMUM FUEL CAPACITY #	TURNING CIRCLE
	AHEAD OF CENTRE		(KERB TO KERB)
3531 mm (139")	230 mm	2 x 630 litres	13.5 m
4000 mm (157.5")	>450 mm	2 x 510 litres	14.7 m
4250 mm (167")	>450 mm	2 x 510 litres	15.6 m
5500 mm (216.5")	N/A	2 x 510 litres	20.2 m
6100 mm (240")	N/A	2 x 510 litres	22.4 m

• Distances shown refer to 6 x 4 sleeper configuration and are maximum with a 4'8" pin while maintaining 8" swing clearance.

SPECIFICATION DATA		
TARE WEIGHT	4 x 2	6 x 4
FRONT	4500 kg	4690 kg
REAR	2000 kg	3070 kg
TOTAL	6500 kg	7760 kg
Tare weights listed are with all fluids including 150L fuel and can vary plus or minus 2%.		
4 x 2 data is calculated from the base specification and the 6 x 4 data is calculated on a 139" wheelbase, 470 hp Engine, RTLO-18918B Trans. Sleeper Cab, DS462P Rear Axle, HAS-461 Suspension, 2 x 630 Fuel Tanks & Alloy Disc Wheels.		
GROUND CLEARANCE	275mm	275mm
GVM	16,000 kg	24,200 kg
GVM will vary according to the specified rear axle & suspension combination.		



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