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Our new diesel engine runs cleaner and stronger!

The TCM FD60 to FD100 forklift trucks have been substantially upgraded to be more powerful, yet eco-friendly workhorses with a variety of state-of-the-art features.

They include a new type of electronically-controlled diesel engine which meets Tier-3/Stage IIIA emission control regulations, a traveling interlock system which helps ensure safe operation of the truck, and a new, easy-to-read instrument panel. The new series offer both more eco-friendliness and higher productivity, to meet the load handling challenges of today as well as tomorrow.

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100



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TCA

Quest for greater eco-friendliness with a greener diesel engine

Greener than ever

This environmentally friendly diesel engine emits substantially less nitrogen oxides (NOx) and particulate matter (PM).

* Diesel engine is equipped with a turbocharger and an intercooler

The rated output has been increased substantially to ensure the highest output in these truck classes, for higher productivity.

* The rated speed is as low as 2,000 rpm, making this engine more durable than ever.



1/ Isuzu 4HK1-TC Diesel Engine

486.7N-m at

injection system and electronic all speed control.

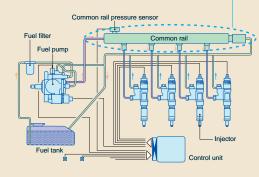


Common rail fuel injection system

The common rail fuel injection system uses a single fuel pump to put the fuel under extremely high pressure. Then, the fuel is distributed through the common rail to each cylinder under high and consistent pressure. The injector for each cylinder is electronically controlled, to deliver precisely the optimal amount of fuel at the perfect time, to suit the engine's immediate operating conditions. Optimized fuel combustion substantially reduces the amount of pollutants in the exhaust gas. It also helps improve fuel economy and reduces engine vibration.

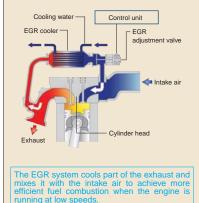
Note: Use only JIS K-2204 diesel fuel or equivalent; otherwise the engine may be damaged and fail

The use of a common rail equalizes the fuel injection pressure at all cylinders.



Cooled exhaust gas recirculation (EGR) system

Cooled exhaust gas recirculation (EGR) is a technique for reducing nitrogen oxide (NOx) emissions by mixing a portion of an engine's exhaust gas with the intake air to reduce the concentration of oxygen in the combustion chamber. This helps reduce the temperature during combustion, which lowers the formation of NOx. In addition, the EGR cooler reduces the exhaust temperature, while the fuel to air ratio control system uses a feedback loop to control the fuel/air mixture supplied to the engine, reducing the formation of NOx even more and improving fuel economy.



UPERATOR COMFORT Quest for better work efficiency through advanced features

Easier operation



1 New, easy-to-read instrument panel

The new type of instrument panel is easy to read and simple to understand. The indicators are brightly lit with long-life I EDs



6 Electric directional control lever

of travel

The electric directional control lever makes it easy to change the direction



2 The light switch is combined in the turn signal lever

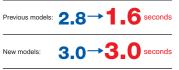
The light switch has been integrated with the turn signal lever for easier operation.



7 Optimized mast tilt speed

The control valve has a bleed-off circuit to reduce the mast tilting speed, for fine tuning the mast stop position when tilting the mast forward or back.

Mast tilt speeds (forward - back)



3 Auto-return turn signal lever

The turn signal lever returns automatically to neutral when the steering wheel is returned to the straight-ahead position.

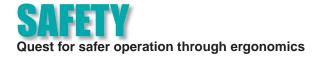
4 Fully-hydraulic power steering

Fully-hydraulic power steering makes it possible to turn the wheels while the truck is at a complete stop.

5 Automatic correction of steering wheel knob deviation

Fully-hydraulic power steering systems unintentionally allow the steering wheel to move gradually away from the center position you want to hold while traveling. On this truck, however, any deviation in the steering wheel center position is automatically corrected, back to the position you want.

(FD100-2)



Improved safety

Traveling interlock system

The traveling interlock system prevents the truck from moving if the operator gets out of the operator's seat. A buzzer sounds if the operator leaves his seat while the starter switch is on. After about 3 seconds, the transmission will be locked in neutral and the warning light will come on.



* The interlock system only shifts the transmission into neutral; it does not engage the brakes. When leaving the truck, always apply the parking brake.

Wider range of forward visibility

Forward visibility has been improved thanks to the use of a super-wide carriage, and the view of the fork tips from the operator's seat has also been improved substantially



Some of the fastest lift speeds in their class

Engine output has been increased with a turbocharger and an intercooler, as well as the direct fuel injection system, to give these trucks some of the fastest lift speeds in their class

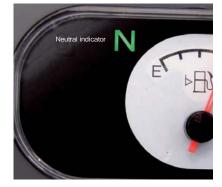
Overheating prevention

A warning light has been installed to tell the operator that the engine is overheated. If the coolant temperature rises excessively, the engine output is automatically reduced to keep the engine from becoming seriously damaged.

(The warning light comes on when the engine has overheated.)

Neutral start safety mechanism

The neutral start safety mechanism prevents the engine from being started unless the directional control lever is in the neutral position. This prevents the truck from moving abruptly when the starter switch is turned. Also, a neutral indicator has been installed on the instrument panel, to allow the operator to check whether or not the directional control lever is in neutral.



Safety seat with side supports

The new series is also equipped with a safety seat, a seat belt and side supports.

It adjusts easily to the individual operator's weight, reclines, and has fore-and-aft positioning for more operator comfort. It also has a convenient document pocket on the rear of the seat back

Document pocket Seat belt Side supports (on the rear of the seat back)



Suspension adjustment position adjustment mechanism control level knob lever

Quest for better economy through superb serviceability

Easier to service

Rear axle with a built-in cylinder

The rear axle has a built-in steering cylinder. Its simple design with a smaller number of service points contributes to improved ease of servicing



Boltless floorboards are easy to remove and reinstall

The front and rear floorboards can be removed and reinstalled easily. without any tools



Engine hood has a gas-spring support

The engine hood has a gas-spring support, so that the operator can open and close the hood easily. The support also has a fail-safe stopper, so the hood won't shut unexpectedly.



Gas-spring hood support

Pen holder and clipboard

A pen holder and a clipboard to secure papers are provided for your convenience. The clipboard is made of comfortable resin.



Tilt cylinder boot

Four-valve manifold

· Four-valve manifold for VM mast piping

Optional equipment (for truck body)

Standard equipment · Operator's seat

- Horn
- Steering wheel
- Directional control lever · Parking brake lever
- · Brake pedal (inching pedal)
- Brake pedal
- Accelerator pedal
- Turn signal lever and lighting switch
- Lift lever Tilt lever
- Starter switch
- Traveling speed selection switch
- Engine warning light
- · Fuel level warning light Engine preheating indicator light
- Interlock warning light
- · Neutral start indicator light Fuel level indicator
- Hour meter
- · Cooling water temperature gauge
- · Engine oil pressure warning light
- Charge warning light
- Upright muffler

"J" lug tire

Steel cabin

Car heater

Speedometer

OK monitors

· Rear work light

Mast tilt gauge

• Fire extinguisher

"Unique" tire ("Super Lug")

Double-element air cleaner

· Overhead guard with front windshield (w/ wiper)

Steel cabin (w. air conditioner)

Torque converter oil pressure gauge

· Yellow beacon light (140 mm in diameter)

· Yellow beacon light (170 mm in diameter)

Back-up buzzer (high volume level type)

· Certified inspection specification (incl. speedometer)

· Mast-mounted lamps (w. lamp guard)

· Different lever arrangement

• "Unique" tire ("Softone")

· Radiator dust screen

- Optional equipment for load handling Three-valve manifold
- Long fork · Load grab Overhead guard-mounted air cleaner (w. precleaner)
 Three-valve manifold for VM mast piping Fork extension sleeve
 - Fork positioner Manual fork positioner Hinged fork Scoop for hinged fork
 - Ram
 - Rotating fork
 - Side shifter
 - Wide carriage Full-free mast
 - · Full-free three-stage mast
 - · High-Lo mast

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