

IMT 545

De luxe



IMT 549

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26/5-88

≈ 90000 :-

Modern design solutions provide the IMT-545/549 De Luxe tractors with unbeatable operational features and maximum working comfort.

A wide range of over 100 attaching implements allow this tractor to be used for various jobs in agriculture and other areas such as forestry, civil engineering, transport, industry, etc.

These tractors are well suited to many operations with all types of mounted, semi-mounted and trailed implements having Category 1 attachments.

ENGINE

Type	DM 33/T four-stroke Diesel Engine with direct injection
Number of Cylinders	3
Bore	91.4 mm
Stroke	127 mm
Cubic Capacity	2500 c. cm.
Compression Ratio	17.4:1
* Engine Power at Flywheel at 2250 r. p. m.	34.5 KW
* Maximum Torque at 1350 r. p. m.	16.2 da Nm
P. T. O. Shaft power at 2250 r. p. m.	31 KW
Lubrication	Under pressure
Fuel Injection Pump	C. A. V. Rotary type
Governor	Mechanical
Fuel Filtering	One pre-filter and two fuel filters
Oil Filtering	Integral
Air Cleaner	Dry type with indicator
Cooling	Pressurized water cooling with built-in thermostat and under-pressure and over-pressure valves in radiator cap.

* The above mentioned data on Engine Power and Torque are in accordance with JUS M.F2.025, DIN 6270, SAE J.270 1.3.4, and BS 649/58 standards.
The low fuel consumption of this engine makes operation with this tractor highly economical.

GEARBOX (IMT-545)

Mechanical gearbox with sliding gears and two constant mesh gears at the input side, and a planetary reduction gear unit at the gearbox output side, so that six forward and two reverse gears are available. The gearbox planetary reduction gear has a transmission ratio of 4:1.

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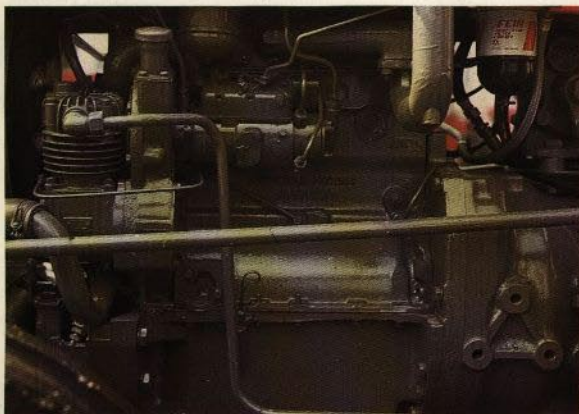
Mechanical gearbox with three sliding gears and two constant mesh gears at the gearbox input side, engaged through synchronizing couplings, and a planetary reduction gear at the gearbox output side. The five stage transmission provides ten forward and two reverse gears. Four operating gears for the forward travel are synchronized (IV, V, IX and X). The gearbox planetary reduction unit has a transmission ratio of 4:1.

POWER TAKE-OFF SHAFT

Spined, 34.9 mm in diameter. Coupled direct to engine or through transmission. The transmission ratio from engine to the P.T.O. shaft is 3.67:1. The standard P. T. O. shaft has 614 r. p. m. when coupled direct to engine running at 2250 r. p. m. A safety coupling is provided in the P. T. O. shaft drive to disengage automatically the P. T. O. when the tractor reverses. This protects the implement attached from damage.

BRAKES

Mechanical, with internal brake shoes, acting on the rear wheels simultaneously or independently. Operating brake acts as a parking brake as well. The fully independent parking brake is mechanically operated.





STEERING

Recirculating ball type. Steering of wheels, arms and tie rods on the three-piece front axle is easy and the direction of travel is maintained by a suitable suspension of front wheels. A tractor with »Mono Block« hydrostatic steering is available as an option. Hydrostatic steering comprises a constant flow wing pump (12 l/min), rotary distributor valve on the steering column lower end and double acting cylinder on the front axle.

SEAT

The seat is of a modern design, meeting all requirements of ergonomics. It comprises hydraulic shock absorber and springs, providing the same operating conditions for drivers of various weights. It is provided with soft parts of polyurethane with ventilation passages to prevent sweating. Adjustable armrests for improved comfort are available as an option.

ELECTRICAL SYSTEM

Complies with road traffic regulations. Voltage 12 V. Battery of 97 Ah. Built-in hazard warning lights-simultaneous blinking of all turn signal lights.



HYDRAULIC SYSTEM

The hydraulic system provides by its category I three-point implement attachment system proved in practice, the following functions:

- Controlled raising and lowering of implement
 - Precise position control
 - Reliable draft control
 - Efficient response control
 - Safe overload protection to implements
- Provides a lifting capacity at the end of lower links of 1400 daN

Optional equipment supplied upon special order includes additional hydraulics for operation with implement requiring a larger volume of oil such as trailers, loaders, reversible ploughs, hydraulic motors etc.

The flow of the basic hydraulic system pump is 18 liters per minute at 2250 r. p. m. of engine speed. The flow of the additional hydraulic system pump for implements is 33 liters per minute at 2250 r. p. m. engine speed and a pressure of 160 Bar.



Operating Gear	Road speeds in km/h		
	With 12.4/11 x 28 Tyres at 2 250 Engine speed	IMT 545	IMT 549
I		2.52	2.17
II		3.79	3.26
III		6.95	5.02
IV		10.11	5.99
V		15.17	7.55
VI		27.82	8.70
VII			13.06
VIII			20.09
IX			23.86
X			30.23
R1		3.44	2.36
R11		13.80	9.43

FRONT WEIGHTS

Tractors with hydrostatic steering can be equipped with the front mounted frame with weights.

PLATFORM

The tractor platform, connected to tractor by means of flexible supports, provides all round visibility and comfortable handling. The instrument panel is an integral part of the platform.

CAB

These tractors can be equipped with a comfortable, safety cab, with large windows. Special sound-absorbing materials keep noise below 85 dBA. The cab is equipped with a heating and ventilation unit, radio set and windshield wiper and washer.

CLUTCH

Dry, frictional, dual type with two independent plates for driving tractor wheels and P.T.O. shaft. The tractor diving plate has 273 mm in diameter. Ample power available on the P.T.O. shaft comes through the clutch plate having 225.5 mm in diameter.

PNEUMATIC INSTALLATION

For use in transportation, tractors may be equipped with a compressor unit to supply the trailer braking system with compressed air and for the inflation of tyres.

REAR AXLE

Transmission is through a differential and pinion gear at 90° having a gear ratio of 6.167:1.

A built-in differential lock contributes greatly to increased economy in ploughing and similar operations providing high reliability owing to its design employing strong jaw type couplings. The differential lock is foot operated.

WHEELS AND TYRES

Front	6-16
Rear	- 12.4/11 - 28"

INFLATION PRESSURE

Front tyres	1.8 bar
Rear tyres	1.0 bar

WHEEL TRACK

Front	1 200-2 000 mm in steps of 100 mm
Rear	1 300-1 900 mm in steps of 100 mm

OVERALL DIMENSIONS

Length	3395 mm
Width	1650 mm
Height to the steering wheel	1590 mm
Ground Clearance	350 mm
Wheel Base	1990 mm
Height to Cab Top	2460 mm

FILL-UP DATA

Fuel Tank	50 l
Engine Sump, oil	5.5 l
Hydrostatic steering housing, oil	1.0 l
Transmission, oil	32 l
Steering Box, oil	0.95 l
Cooling System, volume	8.5 l
Mass of Tractor (with platform) (with fuel, oil and water)	1930 kg
Mass of Tractor with cab (less weights)	2175 kg



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