

IMT 577 DV

De luxe



IMT 577

De luxe



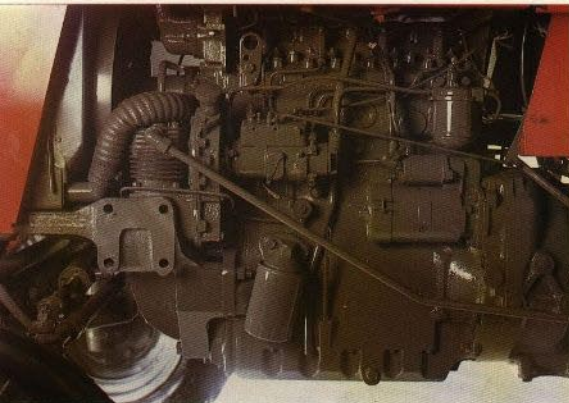
IMT 577 De luxe and IMT 577 DV De luxe

IMT-577 De Luxe and IMT-577 DV De Luxe Tractors are successfully used in agriculture, with implements of large working width. These tractors are well-suited to various applications in forestry and civil engineering, with a wide range of attaching implements. Modern design solutions provide these model with unbeatable operational features and comfort to the operator.

A highly comfortable, sealed safety cab is equipped with heating and ventilating system, a radio set and noise suppressors keeping noise at a low level within the limits of normal operating conditions. The well-balanced tractor concept provides an excellent basis for high productivity.

The four wheel drive model (IMT-577 DV De Luxe) will provide you with extra traction, working on steep slopes or on wet heavy land. Hydrostatic steering enables easy steering under the toughest operating conditions.

Tractor models with reinforced hydraulics are available for work with implements of large working width.



ENGINE

Type	S 44A/T four stroke Diesel engine with direct injection
Number of cylinders	4
Bore	101 mm
Stroke	127 mm
Cubic capacity	4060 cm ³
Compression ratio	16 : 1
Nominal power	51.5 kW
Net power on flywheel	49.5 kW
Power on P.T.O. shaft	46.5 kW
Nominal speed	2000 r.p.m.
Maximum torque	272 Nm at 1300 r.p.m.
Lubrication	Under pressure by gear pump
Fuel delivery pump	Diaphragm type
Fuel injection pump	CAV Rotary type
Governor	Mechanical
Fuel filtering	By two fuel filters
Oil filtering	By integral type filter
Air Cleaner	Dry type
Cooling	Pressurized coolant (water, antifreeze), with built-in thermostat and underpressure and overpressure valves in radiator cap.

Quoted figures for net power on flywheel comply to the following standards:
JUS M.F.2.029 and ISO 2288.

CLUTCH

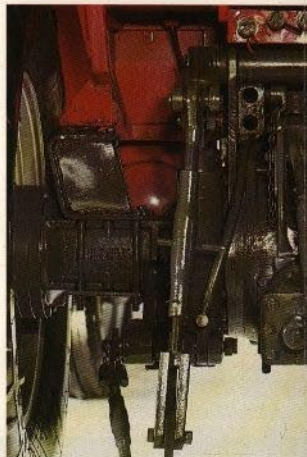
Dry, frictional, dual type with independent plates for driving tractor wheels and P.T.O. shaft. The tractor driving plate has 301 mm in diameter for high torque transmission requirements. Ample power available on the P.T.O. shaft comes through the clutch plate having 250 mm in diameter.

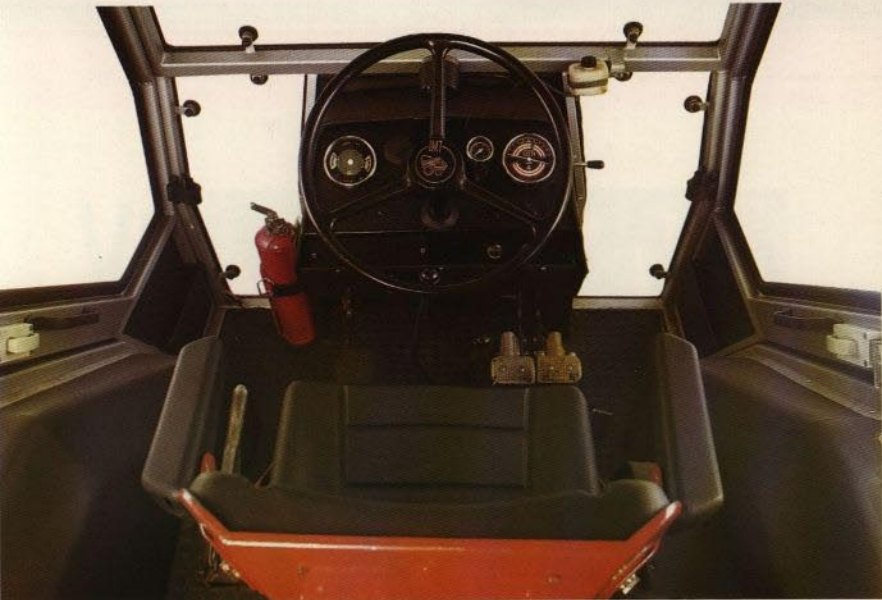
GEARBOX

Mechanical gearbox provides ten forward and two reverse gears. Four operating gears for the forward travel have been synchronized (IV, V, IX and X) and the two reverse gears.

REAR AXLE

Features the main reduction unit (crown-wheel and pinion), differential unit and planetary reduction units on axle shafts. A built in differential lock with a claw coupling contributes greatly to increased efficiency in ploughing and similar work.





CAB

This tractor can be equipped with a comfortable safety cab. Special sound absorbing materials keep noise below 85 dB(A). The cab is equipped with a heating and ventilation unit, radio set and windshield wiper and washer.

POWER TAKE-OFF SHAFT

Splined, 34.9 mm in diameter. Coupling is direct to engine or through transmission. A safety coupling is provided in the P.T.O. shaft to disengage automatically when the tractor reverses. This is a real advantage since the implement attached is protected from damage. The standard P.T.O. shaft has 540 r.p.m. The available options delivered upon special order include P.T.O. shafts with 1000 r.p.m.

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.



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.

FRONT DRIVING AXLE

The front axle comprises the main reduction unit (crownwheel and pinion), differential unit, side universal shafts and planetary reduction gears next to wheels. Torque is transmitted to the front wheels through the side reduction unit. The front axle is engaged and disengaged mechanically, by means of a lever.

FRONT WHEEL WEIGHTS

To improve traction, a provision has been made to attach weights of 300 kg to the front wheels. Weights are applied for operation with heavier implements on hilly grounds.

BRAKES

Hydraulically controlled, oil immersed disc brakes, acting on the rear wheels simultaneously or independently. Operating brake acts as a parking brake as well. A fully independent parking brake is mechanically operated.

PNEUMATIC INSTALLATION

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

ELECTRICAL SYSTEM

Alternator voltage 12 V, 28 A. Battery of 135 Ah. Complies with road traffic regulations. Comprises hazard warning lights.

STEERING SYSTEM

A hydrostatic «Mono Block» type steering system provides easy steering under the toughest operating conditions. The system comprises the gear pump (capacity 22.7 lit/min), steering unit placed at the lower part of the steering column and double acting cylinder on the front axle.

HYDRAULIC SYSTEM

Two hydraulic systems are provided, one main and one auxiliary. These can be used either independently or in conjunction with each other.

Provides the following functions:

- Controlled raising and lowering of implements
- Reliable draft control
- Precise position control
- Efficient response control
- Safe overload protection to implements
- Supplying attached outer hydraulic units with oil under pressure.

Lift capacity at the end of lower links for field work is 1600, 2000, 2500 daN when the lower links are connected to holes closer to tractor and when the further holes are used for attachment, lift capacity is 1900, 2400, 3000 (depending on the type of the cylinder fitted). For continuous holding of the raised implement, the capacity is reduced for 20-25%.

The main hydraulic system pump provides a capacity of 18 lit/min at 2000 r.p.m. and maximum working pressure of 175 bar. Auxiliary hydraulics are available for implements requiring a large flow of oil (trailers, loaders, reversible ploughs, etc.). It has four ends according to ISO regulations. The hydraulic system pump provides a capacity of 33 lit/min at 2000 r.p.m. maximum working pressure of 160 bar.

FILL-UP DATA

Fuel tank	110 lit
Engine sump, oil	8 lit
Transmission, oil	32 lit
Final drive reduction unit, oil	2 x 1 lit
Front differential unit, oil	6 lit
Hydrostatic steering reservoir, oil	0.85 lit
Front axle reduction unit, oil	2 x 1 lit
Cooling system capacity	17.5 lit
Brake controls, oil	0.2 lit
Mass of tractor with cab (without weights and drawbar)	
IMT-577 De Luxe	3370 kg
IMT-577 DV De Luxe	3625 kg

Operating Gear	Road speeds in km/h with 18.4/15-33" tyres
I	1.93
II	2.90
III	4.46
IV	5.46
V	6.72
VI	7.74
VII	11.61
VIII	17.87
IX	21.95
X	26.86
R I	2.09
R II	8.39



INDUSTRIJA MAŠINA I TRAKTORA

BEOGRAD — JUGOSLAVIJA

BEOGRAD, TOŠIN BUNAR 268; TELEGRAM: «TRAKTOR» BEOGRAD
TELEX: 11-518 YU IMT; TEL: 156-360

25/5-88
140 000

WHEELS AND TYRES

Front	7.5-16" Two wheel drive
	9.5/9-24" Four wheel drive
Rear, standard	18.4/15-30"
Inflation pressure:	
Front 7.5-16"	1.8 bar
9.5/9-24"	1.6 bar
Rear	1.1 bar (kp/cm ²)
Wheel track:	
Front	From 1300 to 1900 mm - for 7.5-16"
	From 1500 to 2000 mm - for 9.5/9-24"
Steps	100 mm
Rear	From 1500 to 2000 mm for 18.4/15-30"
	continually

OVERALL DIMENSIONS

Length	3820 mm
Width	1970 mm
Height to steering wheel	1780 mm
Clearance	455 mm (without swinging drawbar)
Wheelbase	
IMT-577	2210 mm
IMT-577 DV	2225 mm
Height (with cab)	2680 mm

