

# VALMET

# 118



# VALMET 118 TRACTOR

## economy and power for y

Due to its sturdy construction, excellent trustworthiness, and low maintenance costs, the engine of the **Valmet 118** tractor meets the requirements for any hard duties.

The **Valmet 118** tractor is equipped with a synchromesh gearbox with 12 speeds forward and 4 reverse. Owing to this the tractor speed can be adjusted to any kind of work or implement.

The fuel tank has a filling capacity of 170 liters that provides the **Valmet 118** tractor with an autonomy no other tractor can surpass in its category. The **Valmet 118** tractor was projected to work from dawn to dusk. Its fuel system was designed to make tractor operation easier.

One of the innovations in the **Valmet 118** tractor is its diaphragm

spring-loaded clutch. Consequently, it means less moving components, less friction and wear. A constant and uniform loading on the clutch makes the disc more durable.

Valmet do Brasil S. A. was the first Company in Brazil to introduce the hydraulic-hydrostatic steering system in agricultural tractors. This steering system facilitates tractor operation, does not permit wheel vibration, and reduces tire, axle spindle and terminal wear.

The hydraulic lifting system is driven directly by the engine, independent from the transmission. The 3-point hitch has a lifting capacity of 2500 kgf (25000N) according to Standard ISO 730.

The hydraulic system has an independent reservoir, and one filter on the suction side and a fine filter

on the pressure side ensure safety and durability to its components.

The electrical system in the **Valmet 118** tractor is of 12 volts, with negative to chassis. A single battery is easily accessible and isolated in its case from the heat generated by the engine.

The instrument panel includes a mechanically driven tractometer, a temperature gauge, a fuel gauge, and warning lamps for oil pressure, high headlights, parking brakes, battery charge, and P.T.O. clutch when equipped with double clutch.

Whenever your **Valmet 118** tractor needs servicing, you can count on your Valmet Dealer. All service is promptly carried out by Factory trained personnel, and with original spare parts approved by the Valmet Quality Control.



A specific speed is available for any type of implement: more efficiency and low operating costs.

# our fields

MARCHA	VELOCIDADES		km/h
L	1	2	3
	3	4	5
	4	6	7
	4	8	9
M	1	10	11
	2	12	13
	3	14	15
	4	16	17
H	1	18	19
	2	20	21
	3	22	23
	4	24	25
R	1	26	27
	2	28	29
	3	30	31
	4	32	33

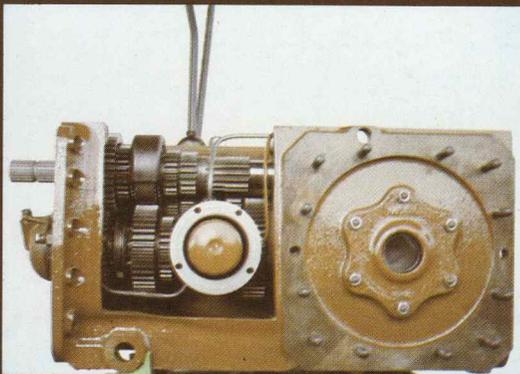
L - Low speeds for heavy work.  
M - Medium speeds for normal agricultural duties.  
H - High speeds for light transport operations.  
R - Reverse speeds for rapid maneuvers.



When breaking up tough soils the Valmet 118 tractor cannot be surpassed.



The double air filtering system offers double safety.



The gearbox with 12 speeds forward and 4 reverse copes with any task with economy and more efficiency.



Excellent efficiency in any type of work.

# VALMET 118 TRACTOR

## ENGINE

Engine	MWM D229-6TV
Type	Direct injection, diesel engine
Cylinders	6 vertical cylinders in line, wet replaceable cylinder liners
Cylinder bore	102 mm
Stroke	120 mm
Engine displacement	5883 cm <sup>3</sup>
Compression ratio	16,6:1
Max. engine power at 2300 rpm	86 kW (118 cv)
Max. Torque at 1400 rpm	402 Nm (41,0 mkgf)

## TIRES

Front	9.00-16 F2
Rear	18.4/15-34 R1 23.1/18-26 R2

## PRINCIPAL DIMENSIONS

Overall length	429 cm
Height at top of steering wheel	198 cm
Total width (with minimum tread)	207 cm
Wheel base	280 cm
Ground clearance	40 cm
Front wheel tread (adjustable)	150-160-170-180 cm
Rear wheel tread (adjustable) with tires 18.4/15-34	160-170-180-190-200-210 cm
Turning radius (without brakes)	600 cm
Turning radius (with brakes on)	490 cm

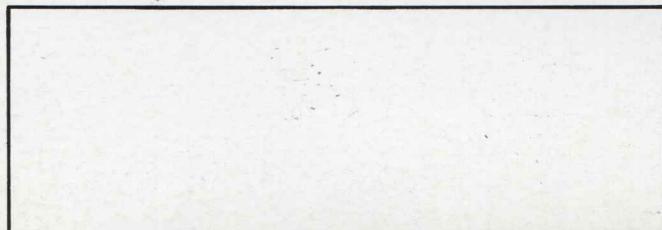
## WEIGHTS

Operating weight (without ballast or accessories)	4010 kg
Operating weight (with total ballast and accessories)	6500 kg
Shipping weight (without ballast or accessories)	3820 kg

## CAPACITIES

Fuel tank	170 liters
Gearbox/differential	36 litros
Engine oil sump	15 liters
Cooling system	16 liters
Final drive (each side)	9,5 liters
Hydraulic system	27 liters
Primary air filter oil cup	2 liters
Brake and clutch fluid reservoir	0,5 liter

Specifications subject to change without previous notice.



## INJECTION SYSTEM

Fuel filtering with precleaner and double filter of 1/2 liter. Piston type BOSH injection pump, with centrifugal RSV governor. BOSH injection nozzles.

## COOLING SYSTEM

Water-cooled, pressurized, with radiator, water pump, thermostat and a six-blade fan.

## ELECTRICAL SYSTEM

12 volts, negative to chassis. Battery of 12 volts, with a capacity of 135 Ah. BOSH alternator and voltage regulator. BOSH 3 kW starter.

## AIR FILTERING SYSTEM

Primary filter: oil-bath air filter with cyclone type sediment precleaner and dust cup. Secondary filter: dry, with paper element and restriction indicator.

## CLUTCH

### Single

Dry, single disc, diameter 330mm, spring loaded diaphragm.

### Double (optional)

Dry, two discs, diameters 310/310mm, spring-loaded diaphragm

## TRANSMISSION

### Gearbox

Constant synchromesh, 12 forward speeds and 4 reverse, synchronized in each group of four.

### Differential

Crown and pinion with 8:41 reduction, 4 pinions and 2 planetaries with mechanically operated differential lock.

## FINAL DRIVE

Parallel gear reductions at extremities of rear axle, reduction ratio 11:53

## FRONT AXLE

Directional, with a rectangular tubular construction, and telescopic tread adjustment

## HYDRAULIC SYSTEM

Gear-driven pump, directly actoned by engine, supply up to 36 l/min at 200 bar (200 kgf/cm<sup>2</sup>). Position and traction controls. Manual control for lowering speed of implement.

## 3-POINT HITCH

Category II. Adjustable stabilizers. Lifting capacity 25000 N (2500 kgf) according to Standard ISO 730.

## P.T.O.

Standard 35mm (1 3/8") 6 spline shaft, and 44mm (1 3/4") 6 spline shaft for heavy works. 540 rpm at 1747 rpm engine. Totally independent, when equipped with double clutch. Optional: Second P.T.O. speed with 1000 rpm at 2270 rpm of engine.

## BRAKES

Dry disc type. Hydraulic service brake. Mechanical parking brake.

## STEERING SYSTEM

Hydraulic-hydrostatic steering.

## INSTRUMENTS

Mechanically driven tractometer, including tachometer and running time indicator. Electrical fuel gauge. Electrical temperature gauge. Warning lamps for engine oil pressure, battery charge, high headlights, parking brake, and P.T.O. clutch (tractor equipped with double clutch).

## DRAWBAR

Drawbar with lateral and longitudinal adjustments. Support for U-hitch coupling.

# VALMET

Head-office - Av. Senador Queirós, 96, 8°

M.B. 1085 ZIP 01000 São Paulo SP - Brazil - Telex 1121400 VMET BR  
Telegraphic address VALMETBRAS

Factory - Rua Capitão Francisco de Almeida, 695  
M.B. 328 ZIP 08700 - Mogi das Cruzes SP - Brazil - Telex 1133386 VMET BR

Service & Spare Parts - Rua Valmet, 160  
M.B. 328 ZIP 08700 - Mogi das Cruzes SP - Brazil  
Telex 1133386 VMET BR