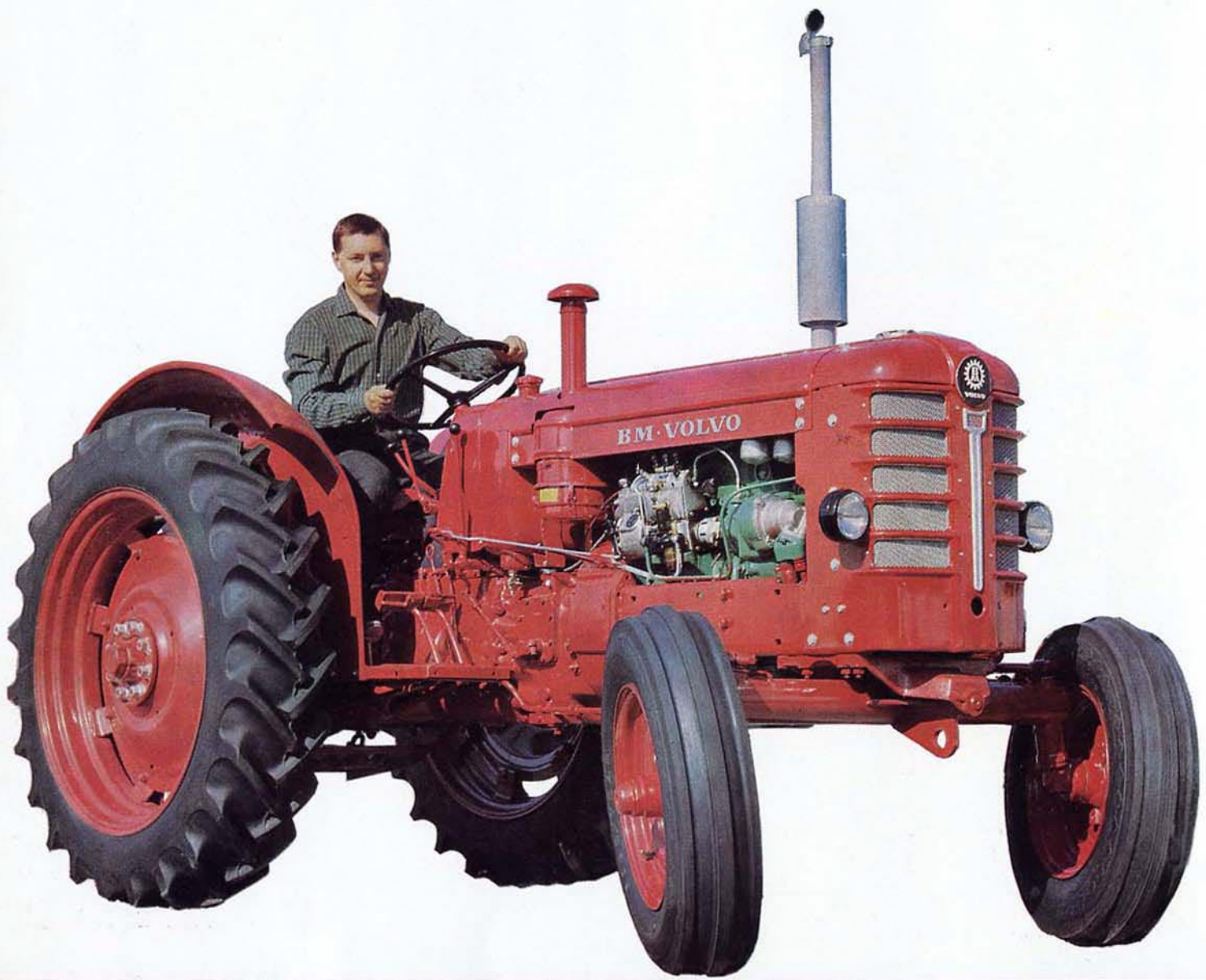


BM · VOLVO
350

BM • VOLVO 350



The BM-Volvo 350 is an ideal agricultural tractor due to its sturdy design, long wheelbase, big wheels, differential lock and tight turning circle. Its generous tractive pull – in excess of 9,900 lb. (4,500 kg.) – and the noted lugging capacity of the diesel in the 350 enable it to pull large equipment and maintain high outputs.

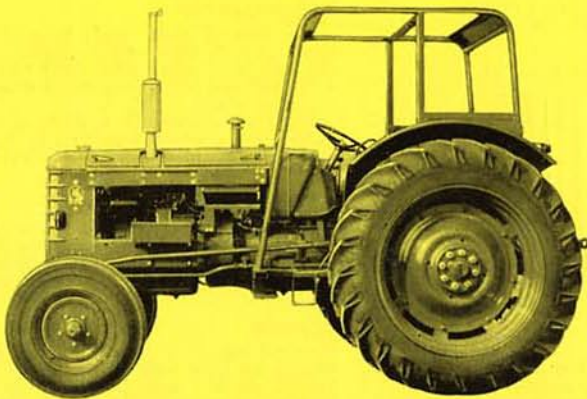


The BM-Volvo 350 has been designed for use as a front loader. The front axle is of heavy-duty type and the wheels are large. Suitable attachment points are provided on the frame. The 350 has a fully independent hydraulic system – the loader gear functions even when the clutch is disengaged and gears are changed.



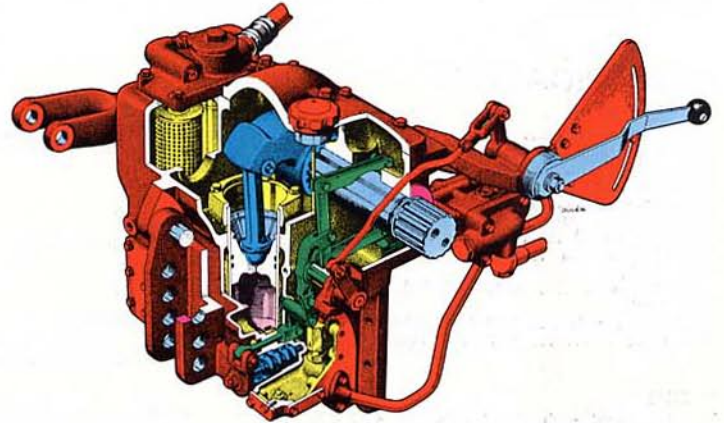
The BM-Volvo 350 has a transmission offering 10 forward speeds and 2 reverse, meaning that the right speed can be selected for virtually every job. Independent p.t.o., high p.t.o. ratings and judiciously selected engine speeds at the right p.t.o. speed make the 350 particularly suitable for p.t.o. powered machinery.

- Modern 3-cylinder, direct-injection diesel – 60 h. p. SAE
- High torque – over 174 ft-lb. (24 kg-m)
- Low fuel consumption – low running costs
- Powerful starter; cold-start arrangements
- Excellent traction – over 9,900 lb. (4,500 kg.)
- 10 forward gears, 2 reverse
- Good ground clearance – 19¼ in. (49 cm)
- Thoroughly proven, driver-right seat – adjustable for weight and leg room
- Terra-Trol hydraulics – completely independent and with high pump capacity
- Fully independent and rear-axle dependent p.t.o.
- BM-type differential lock
- Strong safety frame (optional extra)
- Officially tested at National Swedish Testing Institute for Agricultural Machinery, Ultuna, as per OECD standards – see OECD Bulletin No. 002



3,78-litre Cylinder capacity

The BM-Volvo 350 has a modern, 3,78-litre, 3-cyl. diesel with direct injection and wet-type replaceable cylinder liners. This engine develops 60 h.p. SAE at 1,800 r.p.m. and is equipped with a reliable centrifugal governor that rapidly responds to changes in load. "Lugging power" is excellent – the maximum torque is as high as 177 ft-lb. (24.5 kg-m.) at 1,100 r.p.m. Cold-start arrangements and a 4-h.p. starter ensure easy starting even at low temperatures.



Terra-Trol Hydraulics

Terra-Trol means a separate, fully independent hydraulic system featuring combined position and tractive-power control. For implements without furrow wheels this system gives most regular draught and automatic transference of maximum weight to the driving wheels. Control is by a single lever. The pressure bar attachment has four holes for adjustment of sensitivity and the lowering speed can be regulated. Lifting force at the outer ends of the lower links is 2,870 lb. (1,300 kg.). Optional extras: Control valves for independent operation of single and double-acting outer hydraulic rams, as for front loaders, tipping trailers, angled snow-ploughs, etc.

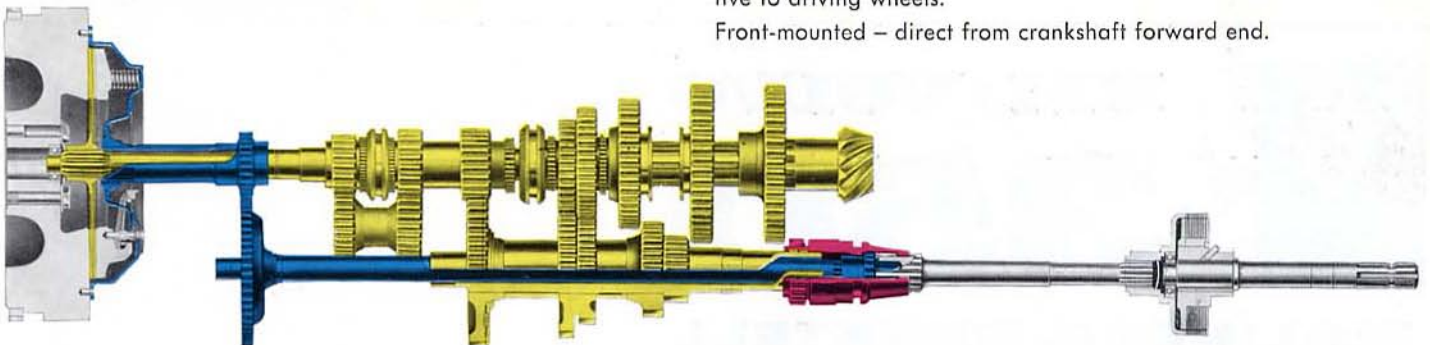
Choice of 4 Take-offs

Four types of power take-off are available with the BM-Volvo 350. Clutch dependent.

Fully independent – an individual multi-disc friction clutch makes the p.t.o. and driving wheels mutually independent.

Rear-axle dependent – p.t.o. speed is always in a fixed ratio relative to driving wheels.

Front-mounted – direct from crankshaft forward end.





The BM-Volvo 350 has Terra-Trol hydraulics, giving most regular working depth regardless of surface conditions and type of soil. The Terra-Trol also ensures automatically that maximum implement weight is transferred to the driving wheels. The great lugging power of the engine in the 350 enables it to overcome the toughest obstacles. Big rear wheels and differential lock very effectively reduce slipping.

The BM-Volvo 350 is the ideal tractor for harvesting. The power at tow hitch and p.t.o. is more than adequate, even for a 6-foot combine. The fully independent p.t.o. greatly simplifies the driver work and relieves the transmission — the tractor can be stopped and gears changed without affecting the combine drive. The picture shows a 350 on harvest work in France.

SPECIFICATION

DIMENSIONS

	in.	mm.
Total length	140.6	3570
Total width	69.7	1770
Total height	93.5	2375
Height to radiator top	59.8	1520
Wheelbase	90.7	2305
Turning circle radius (without steering brake)	153.5	3900
Ground clearance	19.1	485
Front track, standard axle	52.4; 56.3	1330; 1430
Front track, adjustable axle ...	50.4-67.3	1280-1710
Rear track	56.7-76.4	1440-1940

ENGINE

4-stroke diesel with direct injection and o.h. valves, replaceable wet-type liners.

Designation	TR 1113
No. of cylinders	3
Bore	in. 4.375 mm 111.12
Stroke	in. 5.125 mm 130
Capacity	cu. in. 231 lit. 3.78
Compression ratio	16.5
Maximum r.p.m.	1800
Output at 1800 r.p.m.	h.p. SAE 60
Output at 1800 r.p.m.	h.p. DIN 56
Output at 1500 r.p.m.	h.p. DIN 50
Max. torque at 1100 r.p.m.	ft.-lb. 177.1 kpm DIN 24.5
Fuel injection pump, make and type	Bosch in-line

GOVERNOR

Centrifugal type, adjustable between idling speed and 1800 r.p.m. Manual and foot controls.

ELECTRIC SYSTEM

Make of electric equipment ..	V	Ah	watts	h.p.
Voltage	12	152	130	4
Battery capacity				
Generator output				
Starter output				

COOLING SYSTEM

Centrifugal water pump, thermostat, radiator with blind, pressure release valve in radiator cap.

CLUTCH

Single dry-plate type
Diameter

TRANSMISSION

Gearbox affords ten forward speeds, 2 reverse. Differential lock, operated by right foot.

SPEED, m.p.h. (k.p.h.) with tyres 12.4/11-38 at

Gear	1500		1800 r.p.m.	
	m.p.h.	(k.p.h.)	m.p.h.	(k.p.h.)
1	1.3	(2.1)	1.5	(2.5)
2	1.9	(3.1)	2.3	(3.7)
3	2.4	(3.8)	2.9	(4.6)
4	2.8	(4.5)	3.5	(5.7)
5	3.6	(5.8)	4.3	(6.9)
6	4.5	(7.2)	5.3	(8.6)
7	5.3	(8.6)	6.4	(10.3)
8	8.1	(13.0)	9.7	(15.6)
9	9.3	(15.0)	11.2	(18.0)
10	14.0	(22.6)	16.8	(27.1)
Reverse 1	2.3	(3.7)	2.7	(4.4)
Reverse 2	3.5	(5.6)	4.2	(6.7)

TYRES

Front	7.50-18/4
Front, alternative	7.50-18/8
Rear	12.4/11-38/6
Rear, alternative	13.6/12-38/6
Rear, alternative	16.9/14-30/6
Industrial tyres also available	16.9/14-30/10

BRAKES

Mechanical, fully enclosed steering brakes (expanding shoe brakes), operated by twin right-foot pedals — pedals may be coupled for simultaneous braking of both wheels. Pedals may be locked in applied position, as a parking brake.

STEERING

Steering gear, type	Warm and roller
Steering ratio	1:20.5

DRAWBAR

Swinging, easily dismantled, continuously adjustable for height. Fork end for attachment of ring-type trailer towing tongue. Lifting towhook can be attached.

POWER TAKE-OFF

Power take-off shaft: 1 1/8", 6 splines. Shaft speed at 1500 engine r.p.m. (transmission driven and independent p.t.o.): 540 r.p.m. Separate multi-disc friction clutch for engaging independent p.t.o. Tractors with independent p.t.o. can be attached with rearaxle dependent p.t.o., turning 1 rev. per 4 in. (.1 m.) of tractor travel.

HYDRAULIC SYSTEM

Gear-type hydraulic pump driven from crankshaft by fully-enclosed transmission. Pump capacity, 8.8/gpm. (40 l/min.) Overflow valve setting 1636-1707 psi (115-120 kg/sq.cm.).

WEIGHTS

	lb.	kg.
Standard weight	5225	2370
Weight on front axle	1962	890
Weight on rear axle	3263	1480
Weight with extra weights ...	6850	3107
Weight with extra weights and 100% liquid in tyres	8234	3735

CAPACITIES

Fuel tank	Imp. gall 14.3	litres 65
Cooling system ..	Imp. gall 3.1	" 14
Engine lubricant	Imp.pints 18.5	" 10.5
Transmission lubricant	Imp.gall.	11.67
Capacity of hydraulic system	Imp.pints 26	" 15

Specification liable to change without notice.



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