

A  
VERSATILE  
BM·VOLVO  
LOADER

# BM·VOLVO LOADER LM 620



# BM·VOLVO LM 620

— a loader with hydraulic transmission for fast, easy

The LM 620 is an easy-handling, versatile loader for fast loading especially of hard materials such as from compact banks of gravel. Rapid and effortless gear-shifting and great tractive power through a hydraulically operated gear box and torque con-

verter in combination with power steering and a tight turning circle — the radius is only 16 ft. 5 in. (5 m.) — give the LM 620 good manoeuvrability and thereby short work cycles and high work-capacity even in confined spaces.

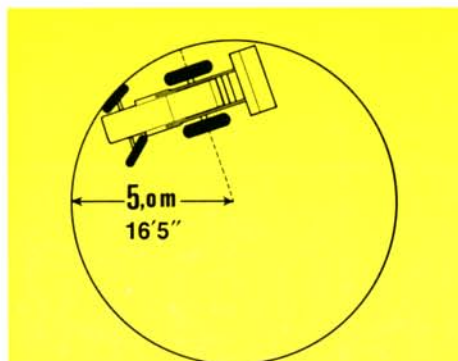
The LM 620 is powered by a 69-h.p., direct-injection diesel engine, the transmission providing 2 work and 2 travelling gears, both forward and reverse, with infinitely variable speed control from zero to max. speed in each gear.

The loading unit is carried on the chassis by a three-point pivot suspension which protects the chassis against break-out forces. The mounting of the side-arms provides long outreach as well as high clearance under tipped scoop and the operator has a clear view of the implement throughout its lifting range.

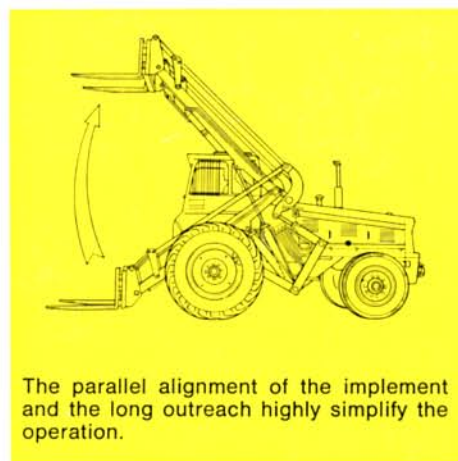
The hydraulic system is amply dimensioned and easily extended to comprise four different hydraulic functions. The low working pressure gives great reliability and a long service life. From his seat, the driver can quickly switch the lifting rams between single and double-action.

The implement attachment of the side-arms is of standard BM-VOLVO type, meaning that the wide range of implements — more than 70 different units — for BM-VOLVO loaders can be fully utilized. The time-saving speed-coupling permits implements to be exchanged in a minute when switching from one job to another.

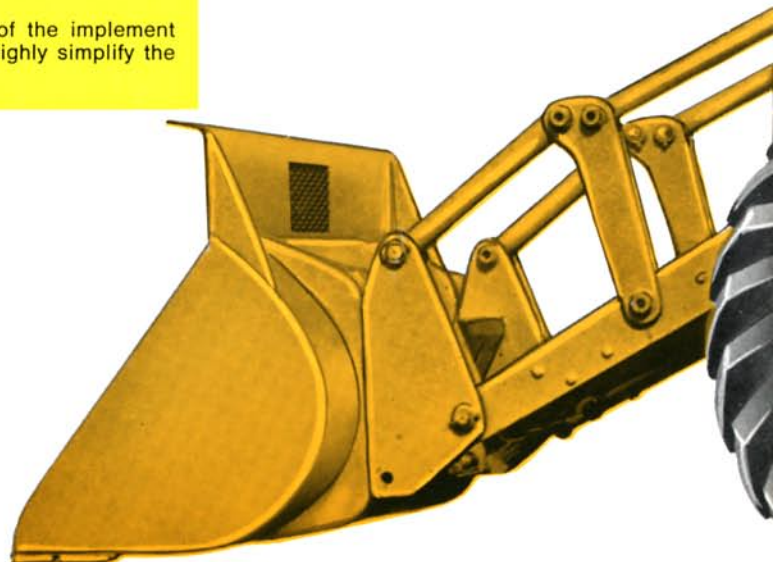
The crash-proof steel cab provides good driver comfort and safety as well as good all-round visibility.



The tight turning circle provides short time per work cycle — high capacity.



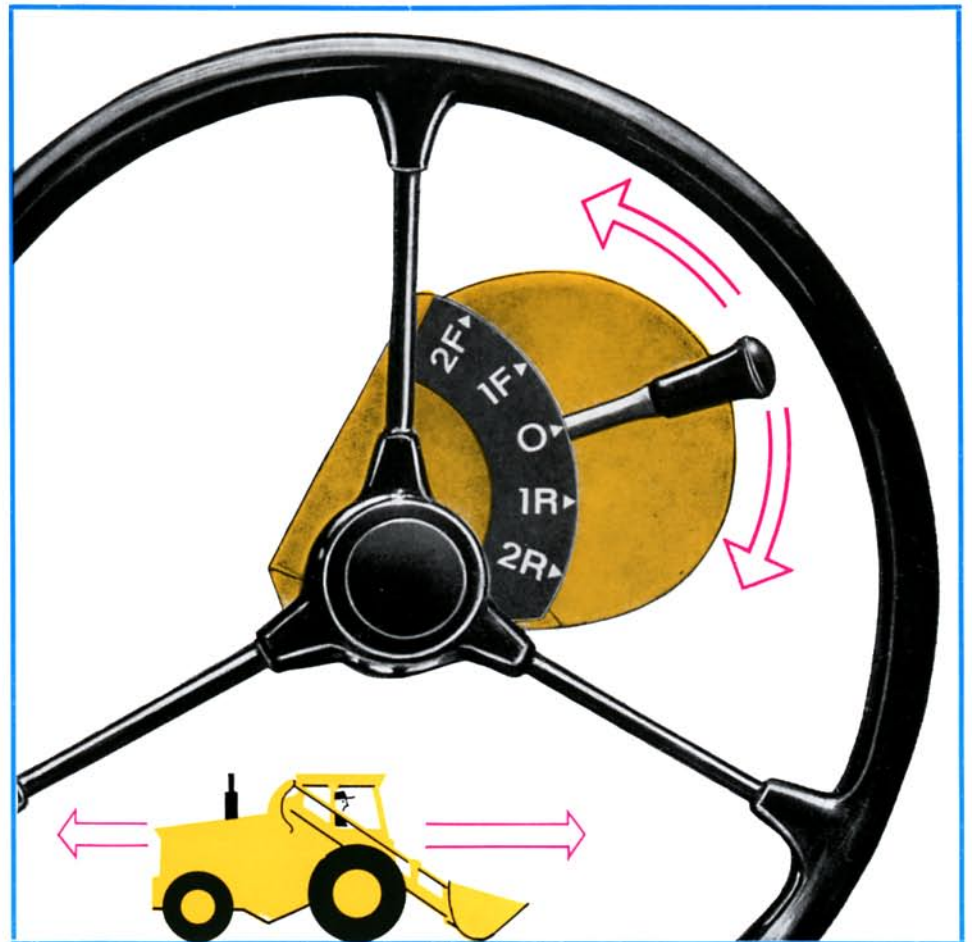
The parallel alignment of the implement and the long outreach highly simplify the operation.



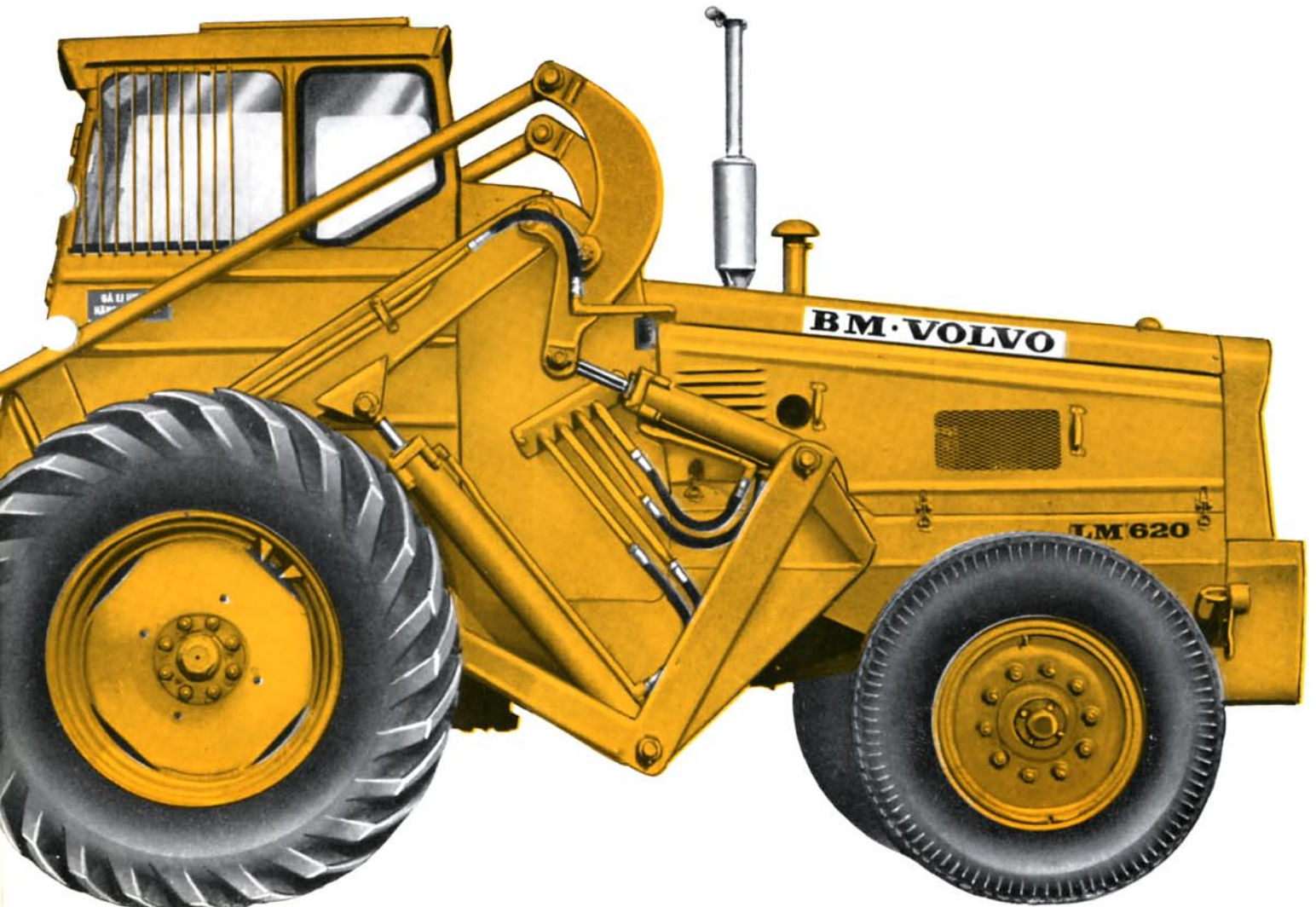
## y loading

The hydraulic transmission comprises a torque converter and a hydraulically operated gearbox. This transmission system offers obvious advantages in work requiring high penetration power.

- Fast and effortless gear-shifting without the use of a clutch pedal – the gear selector lever is mounted within easy reach under the steering wheel.
- Automatic increase in torque as resistance rises – gives efficient penetration and scoop filling when handling compact materials.
- Smooth, shock-free propulsion-power transmission when shifting gears – saves gears and shafts – reduces tyre wear.
- Increased output – less driver fatigue.



Rapid shifts between forward and reverse motion by means of the gear selector lever.





**VERSA-  
TILITY**

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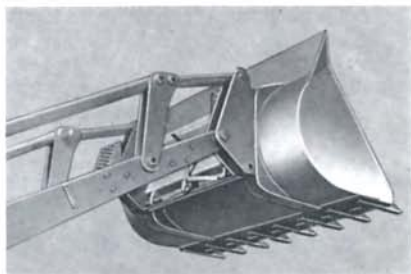
**DRIVER  
COMFORT**

# BM·VOLVO LM 620

The heavy-duty steering wheel axle is of the pendulum type and permits a difference in height between wheels of close to 20 in. (0.5 m).

Scoop movements are controlled via a linkage system. The break-out angle in bottom position is 42° and the dumping angle in top position 43°. These scoop angles in combination with the high lift of the loader contribute to the high work-capacity.

The safety cab is designed to provide the driver with maximum comfort and safety. The driver's seat is upholstered and adjustable for leg-room. All levers, pedals and other controls are located within easy reach of the driver and the instrumentation is clearly arranged on an elegant panel. The side and rear windows can be opened. The wide door makes for easy access and alighting. While the door is open the loader hydraulic mechanism is automatically locked.



## SPECIFICATION

### General particulars

Total weight with scoop lb. (ton)	13,900 (6.3)
Wheelbase .....	7'6 1/2" (2.3)
Tread front/rear .....	5'8 1/2"/5'7"
	(1.74/1.70)
Turning radius .....	16'5" (5)
Tyres front .....	14-30/10
rear .....	9.00-20/10

### Engine

No. of cyl. ....	3
Rated horsepower SAE	
h.p./r.p.m.	69/2200
Max. torque SAE ft.-lb. (kpm)	181 (25.0)

### Transmission

Torque converter and Power-Shift hydraulic-operated gearbox. Two speed ranges providing 4 speeds, forward and reverse. Differential lock.

### Speeds

Forward and reverse	m.p.h.	k.p.h.
I .....	0-4.0	0-6.5
II .....	0-6.5	0-10.5
III .....	0-11.3	0-18.5
IV .....	0-18.4	0-29.6

### Brakes

Disc brakes. Pedal-operated driving and steering brakes, parking brake.

### Hydraulic system

Oil pump, make .....	Hamworthy
Capacity .... Imp.gpm (l/min)	31 (140)
Working pressure p.s.i. (kg/cm <sup>2</sup> )	1210 (85)
Oil tank capacity Imp. gall. (l)	19 1/4 (90)

### Loading unit

Max. hinge pin height ..	ft. (m)	12'5 1/2" (3.8)
Load over height .....	ft. (m)	11'5 1/4" (3.5)
Max. clearance under tipped scoop .....	ft. (m)	9'6" (2.9)
Max. forward reach of about 7' (2 m) dumping height ..	ft. (m)	4'6" (1.4)
Range of scoops available	cu.yd. (m <sup>3</sup> )	1-3 1/4 (0.7-3.0)

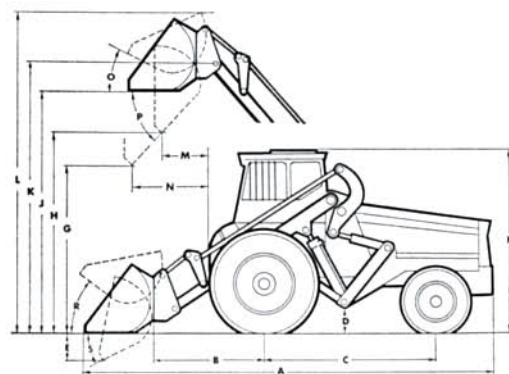
### Standard equipment

Safety cab, direction indicators, electric windscreen wiper, rubber mat, horn, rearview mirror, sun visor, engine-hour meter, fuel gauge, twin headlights front and back, tail lights, parking lights, a.c. generator, electric trailer coupling, hydraulic power steering, valve assembly with three control valves, fresh-air ventilation and heater.

### Optional equipment

Fourth hydraulic valve section with piping  
Separate control lever for 4th hydraulic valve  
Combined control valve for 3rd and 4th valves  
Towing hook  
Tropical equipment (cyclone-type air cleaner and fine filter)

The manufacturers reserve the right to introduce changes without special notice.



### Dimensions

A .. in. (mm.)	212 (5,430)	K .. in. (mm.)	152 (3,850)
B .. " "	57 (1,450)	L .. " "	178 (4,520)
C .. " "	91 (2,300)	M .. " "	29 (730)
D .. " "	13 (330)	N .. " "	54 (1,370)
E .. " "	27 (680)	O ..	43°
F .. " "	99 (2,520)	P ..	43°
G .. " "	81 (2,050)	R ..	42°
H .. " "	114 (2,900)	S ..	41°
J .. " "	138 (3,500)		

