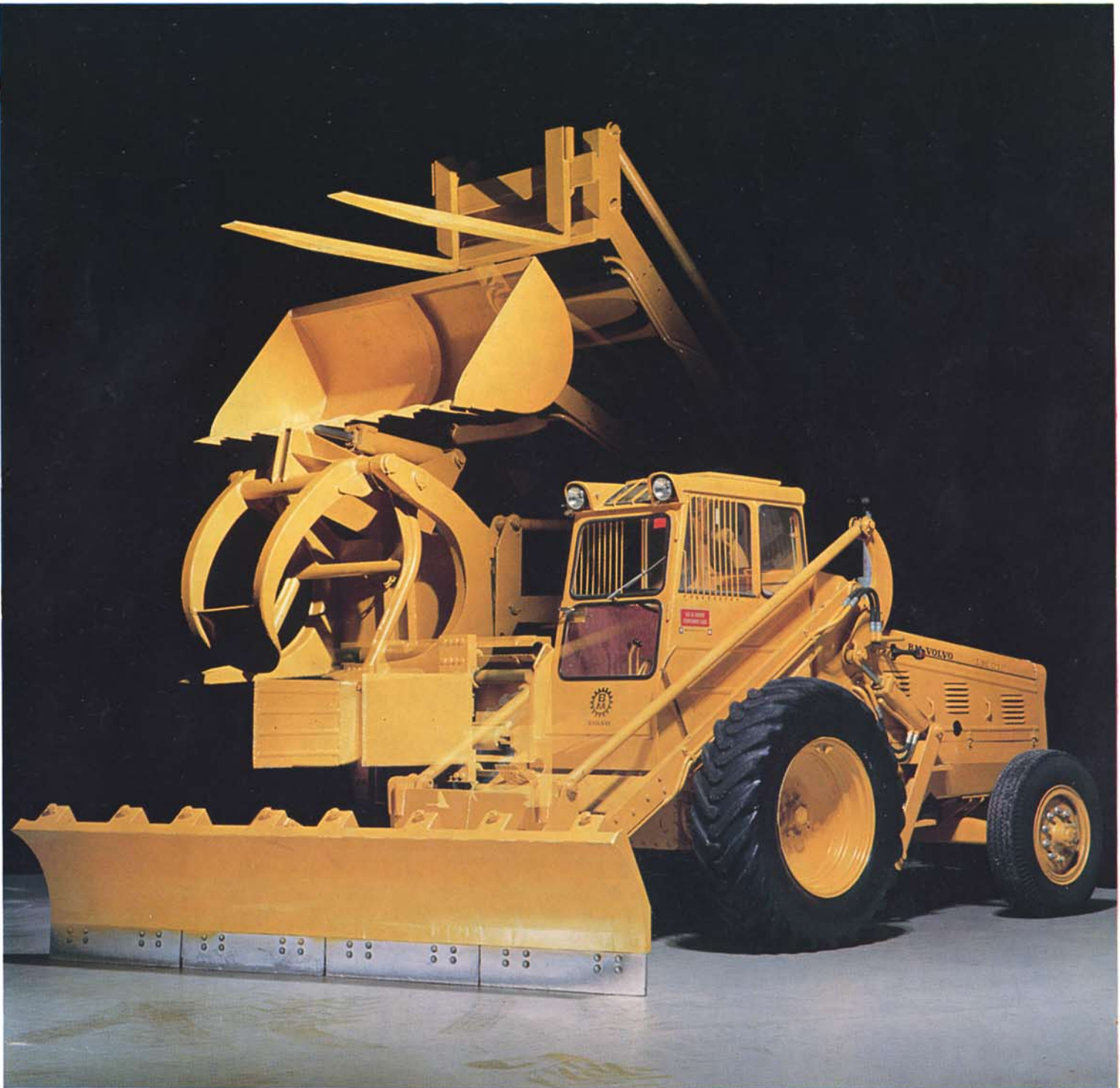




5

BM·VOLVO LOADERS WITH RELIABILTY AND VERSATILITY





5

LOADERS

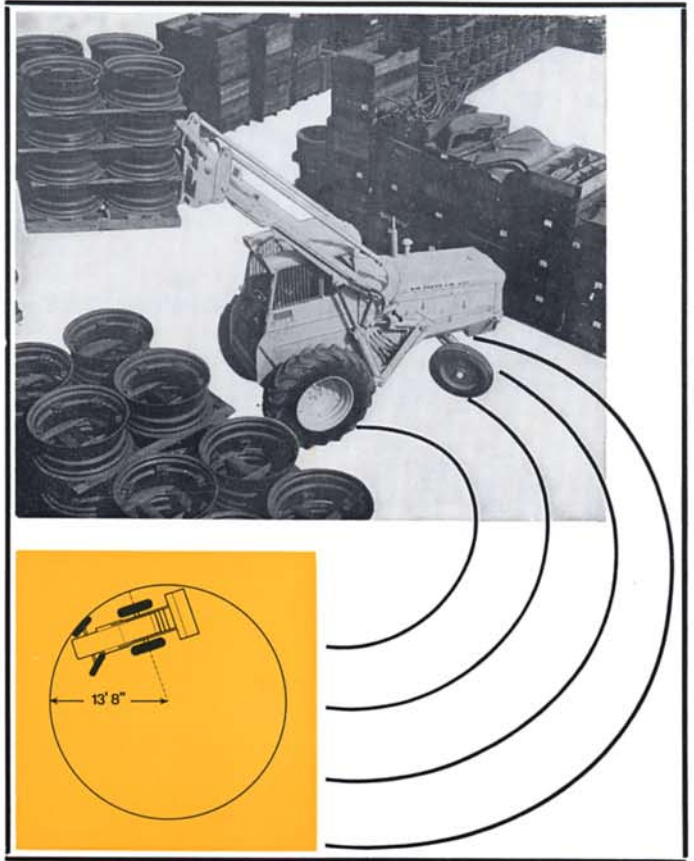
FROM 0.7 TO 3.3 cu. yd.

The BM·VOLVO range of loaders has been progressively developed to meet changing requirements and now comprises five machines: LM 422, LM 218, LM 620, LM 640 and LM 840. The LM 640 and LM 840 feature 4-wheel drive. This range of models simplifies the choice of the right machine for the job. While each model has its special field of application, all share with the well-established LM 218 a high degree of versatility. They can all be equipped with a

wide variety of attachments in the BM·VOLVO series and as a result each machine covers a wider range of jobs than any other make of comparable price and size. The careful selection of sizes for front and rear wheels has given a very tight turning circle in every case, which further enhances the output of the machines. The unusually large driving wheels also confer very good off-the-road performance and manoeuvring under difficult ground conditions.

BM·VOLVO LM 422

A nimble lightweight with a remarkably small turning circle — best performer in tight spots



The LM 422 is the smallest of the BM-VOLVO loaders. The LM 422 is powered by a lively 47-h.p. direct-injection diesel engine through a smooth-changing gearbox offering 6 speeds in both forward and reverse. The small turning radius — 13 ft. 8 in. — makes for easy driving and improved output in confined spaces, such as on building sites, factory yards, docks, busy streets, etc. The implement attachment is to BM-VOLVO standards allowing full selection of equipment and thereby a wide range of jobs. The cab is typical of BM-VOLVO loaders: built for safety and comfort, with very good visibility and all controls in handy reach.

TECHNICAL PARTICULARS

GENERAL

Total weight	10,200 lb. (4,600 kg.)
Turning radius	13 ft. 8 in. (4.2 m)
Max. reach at approx. 7 ft. (2 m) loading height	4 ft. (1.2 m)
Max. dumping clearance	9 ft. 2 in. (2.8 m)
Tyres, front	13-28/10
rear	7.50-18/10

ENGINE

Rating SAE	47 h.p.
Max. torque	123 ft-lb. (17.0 kg-m)

TRANSMISSION

Type	Dry-plate clutch
No. of speeds, forward and rev.	6/6

LOADER SPECIFICATION

Scoop capacities, SAE	$\frac{3}{4}$ — $2\frac{3}{4}$ cu. yd. (0.53—1.8 m ³)
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BM·VOLVO LM 218

The popular low-cost middleweight —
jack of all trades and master of most



TECHNICAL PARTICULARS

GENERAL

Total weight	12,500 lb. (5,700 kg)
Turning circle radius	16 ft. 5 in. (5 m)
Max. reach at approx. 7 ft. (2 m) loading height	4 ft. 4 in. (1.3 m)
Max. dumping clearance	10 ft. 2 in. (3.1 m)
Tyres, front	14-30/10
rear	9-20/10

ENGINE

Rating SAE	63 h.p.
Max. torque	184 ft-lb. (25.4 kg-m)

TRANSMISSION

Type	Dry-plate clutch
No. of speeds, forward and rev.	5/5

LOADER SPECIFICATION

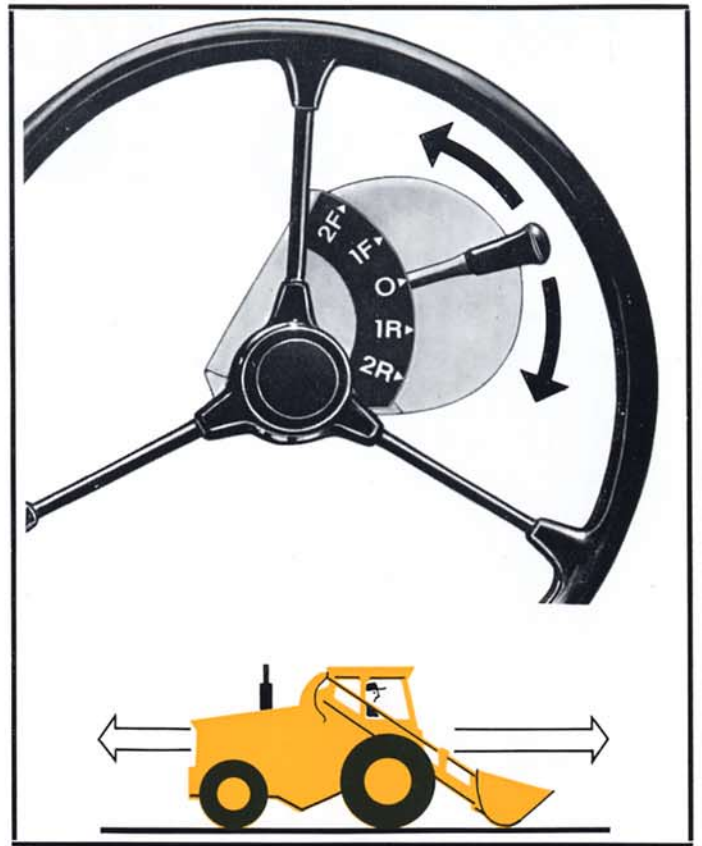
Scoop capacities, SAE	$\frac{3}{4}$ – $2\frac{1}{4}$ cu. yd. (0.6–2.1 m ³)
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Whatever the job, the LM 218 can do it well. The entire BM·VOLVO range of loaders stems from practical experience gained with this machine, and the conclusions drawn therefrom. Hydraulics, weight distribution and mechanical features combine to make the LM 218 a highly versatile worker. On the basis of long experience with the LM 218 BM·VOLVO has produced other machines with heavier chassis and more powerful engines for application where load requirements and cost factors justify larger investments.



BM·VOLVO LM 620

Featuring hydraulic transmission
for fast, untiring performance



The LM 620 features hydraulic transmission, comprising a torque converter and a hydraulically operated gearbox. The torque converter automatically increases engine torque as resistance rises and therefore gives high penetrating force in hard materials, filling the scoop to capacity with a maximum of effort. The full utilization of the power potential of the LM 620 results in a very low cost per unit of output.

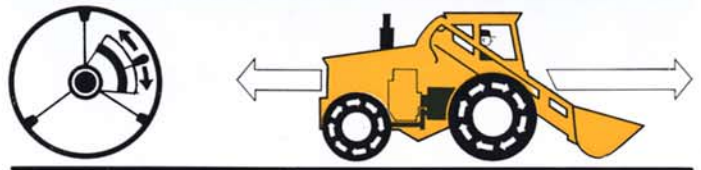
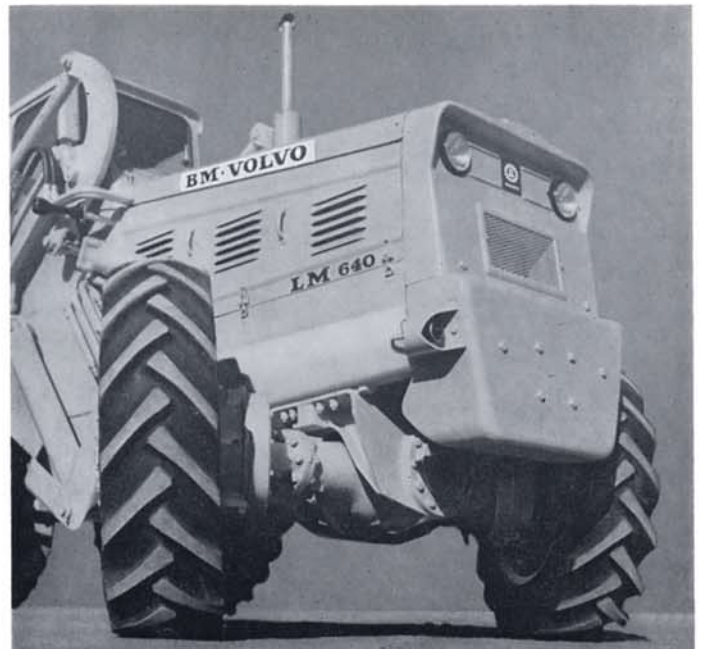
TECHNICAL PARTICULARS

GENERAL	
Total weight	13,900 lb. (6,300 kg)
Turning radius	16 ft. 5 in. (5 m)
Max. reach at approx. 7 ft. (2 m) loading height	4 ft. 5 in. (1.3 m)
Max. dumping clearance	9 ft. 6 in. (2.9 m)
Tyres, front	14-30/10
rear	9-20/10
ENGINE	
Rating SAE	69 h.p.
Max. torque	181 ft-lb. (25.0 kg-m)
TRANSMISSION	
Type	Hydraulic
Torque converter transm. ratio	3.3:1
No. of speeds, forward and rev.	4/4
LOADER SPECIFICATION	
Scoop capacities, SAE	1-2 ³ / ₄ cu. yd. (0.7-2.1 m ³)



BM·VOLVO LM 640

A 4-wheel drive loader for
difficult ground conditions



The LM 640 has the same hydraulic transmission as the LM 620 and, moreover, 4-wheel drive and larger tyres. The LM 640 is therefore an extremely reliable worker where ground conditions are difficult. Despite 4-wheel drive, the turning circle remains small, as on all BM·VOLVO loaders. The LM 640 embodies determination – and ability – to get the job done.

TECHNICAL PARTICULARS

GENERAL

Total weight	14,500 lb. (6,600 kg)
Turning radius	18 ft. (5.5 m)
Max. reach at approx. 7 ft. (2 m) loading height	4 ft. 5 in. (1.3 m)
Max. dumping clearance	9 ft. 6 in. (2.9 m)
Tyres, front	14–30/10
rear	11–24/10

ENGINE

Rating SAE	69 h.p.
Max. torque	181 ft.-lb. (25 kg-m)

TRANSMISSION

Type	Hydraulic
Torque converter transm. ratio	3.3:1
No. of speeds, forward and rev.	4/4

LOADER SPECIFICATION

Scoop capacities, SAE	1–2¼ cu. yd. (0.7–2.1 m³)
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BM·VOLVO LM 840

The loader for the big jobs



The LM 840 is designed for the big jobs: the same hydraulic transmission and 4-wheel drive system as the LM 640, but even greater power resources. Long reach, high lift, a tight turning circle and a wide range of transmission ratios permit the machine's potential to be realized to the full. Workcycles are shortened and therefore output per unit time is raised, thanks to speediness (resulting from high power-to-weight ratio), small turning circle and powerful penetration of hard materials.

TECHNICAL PARTICULARS

GENERAL

Total weight with scoop	20,000 lb. (9,100 kg)
Turning radius	18 ft. (5.5 m)
Max. outreach at approx. 7 ft. (2 m) loading height	4 ft. 7 in. (1.4 m)
Max. dumping clearance	10 ft. 2 in. (3.1 m)
Tyres, front	15-34/14
rear	13-24/10

ENGINE

Rating SAE	110 h.p.
Max. torque	261 ft.-lb. (36.1 kg-m)

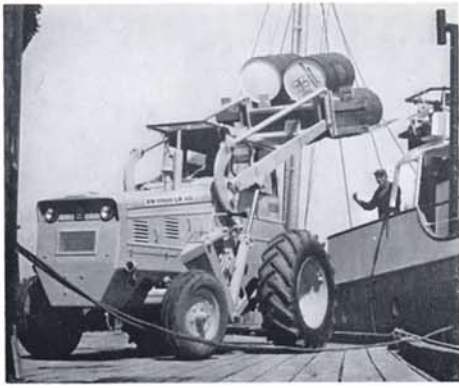
TRANSMISSION

Type	Hydraulic
Torque converter transm. ratio	3.3:1
No. of speeds, forward and rev.	4/4

LOADER SPECIFICATION

Scoop capacities, SAE	1 ⁵ / ₈ -3 ³ / ₄ cu. yd. (1.2-2.5 m ³)
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The BM-VOLVO implement attachment system permits the use of a very wide range of standard attachments. Because attachments can be changed so speedily, machines can be properly equipped for each job without unnecessary loss of time. The profitability of a loader is greatly dependent on the use of the right tool for the job and the line of

scoops has therefore been greatly extended. A scoop should be chosen to achieve **maximum filling in the material concerned**. A loader fitted with an excessively large scoop will achieve poorer filling due to poor penetration, with less capacity as the end result. It is therefore very important that the right scoop is used in each set of circumstances

— no problem, since the speed coupling make attachment changing the work of a minute.

Other attachment include e. g. forks, agricultural implements, dozer blades, crane jibs and snow clearance gear.



BOLINDER-MUNKTELL

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