VOLVO BM

BACKHOE – LOADER 616



Backhoe with pivoting bucket arm...

VOLVO BM 616

This is an entirely new, sophisticated backhoe-loader, designed for particularly efficient, economic digging. A wide range of buckets for different types of application is available, and a snap-on bracket ensures speedy bucket replacement.

A special feature of the VOLVO BM 616 is the pivoted bucket arm. This can be angled laterally by means of a simple hydraulic foot valve, and the hydraulic system, which is designed for precise inching, ensures extremely

Power steering, excellent all-round visibility and a powerful engine contribute to efficient performance. Good traction and excellent balance ensure outstanding



The bucket arm on the VOLVO BM 616 is continuously adjustable on the boom. An infinitely adjustable pedal control enables the arm to be angled laterally at any time during the work cycle.

Advantages:

- Easy to dig flush alongside walls, in line with the wheels.
- Easy to dig offset ditches.
- Lateral angling of the bucket arm makes it easy to "Sneak" past obstructions.
- Cleaner ditch and trench digging reduces manual clean-out work.



Hydraulic transmission with torque converter and Power Shift

The VOLVO BM 616 is fitted with a torque converter and hydromechanical Power Shift gearbox. There are two working and two transport gears in both forward and reverse. The engine, transmission and axles are all identical with those used in the VOLVO BM 621 loader.

Outstanding driver comfort and safety.

The impact tested safety cab has an internal noise level below 85 dB(A). The extremely comfortable seat is adjustable in every direction, and there is ample room in the cab to swing around from driving to digging position. There is a powerful heater/demister and the control levers and instruments are comfortably positioned. The backhoe unit is controlled by twin levers, with a single lever for the front loader.

VOLVO BM 616

Efficient, easy operation, thanks to:

- Powerful 80 hp SAE VOLVO BM engine.
- Torque converter and hydromechanical Power Shift gearbox.
- Two-lever control of backhoe unit.
- Single-lever control of front loader.
- Snap-on bracket.







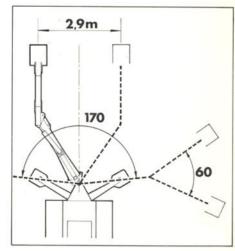


The hydraulically rotatable bucket arm on the VOLVO BM 616 gives the backhoe unit the unique capability of digging and twisting simultaneously. This extra versatility gives greatly improved working efficiency. The VOLVO BM 616 illustrated is digging around an obstruction.

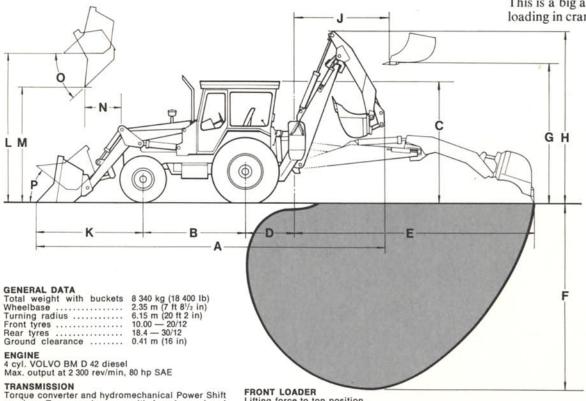
Robust loader with snap-on bucket.

The VOLVO BM 616 is a particularly compact machine. The short wheelbase is indispensable for manoeuvrability, and allows the driver an excellent view of the front loader. All liftarm and bucket functions are controlled with a single lever. Most of the buckets and attachments designed for VOLVO BM Allrounders can be utilized with the 616 front loader.





The lateral angling capability of the bucket-arm provides greater flexibility and a wider working range than is available on conventional backhoe-loaders. This is a big advantage when dig s loading in cramped conditions.



A . . 813 cm (26.9 ft) .. 235 cm (7.7 ft) .. 278 cm (9.1 ft) C D .. 109 cm (3.5 ft) .. 533 cm (17.4 ft) .. 420 cm (13.7 ft) G .. 313 cm (10.2 ft) H .. 410 cm (13.4 ft) .. 240 cm (7.8 ft) K . . 235 cm (7.7 ft) L . . 344 cm (11.2 ft) M .. 292 cm (9.5 ft) N .. 69 cm (2.2 ft) O .. 35° P .. 38°

Torque converter and hydromechanical Power Shift gearbox. Two speed ranges with four forward and four reverse speeds. Speed ranges from 0 to 29.7 km/h (0 to 18.4 mile/h)

BACKHOE UNIT

bucket arm

420 cm (13 ft 9 in) 533 cm (17 ft 6 in) 315 cm (10 ft 4 in) Excavation depth
Outreach Breakout force at bucket

.. 170°+2×30°

FRONT LOADER
Lifting force to top position at attachment bracket
Breakout force at bucket lip Max. height of lift to bottom of level bucket tion and front of loader ...
Angle of tip
Tipping angle at 2.7 m
tipping height

2 300 kgf (5070 lbf) 3 900 kgf (8600 lbf)

344 cm (11 ft 3 in) 292 cm (9 ft 7 in)

69 cm 2 ft 3 in)

Specifications and design are subject to change without notice.

VOLVO BM ESKILSTUNA SWEDEN