

ATTACHMENTS

FOR VOLVO BM EXCAVATOR-LOADERS



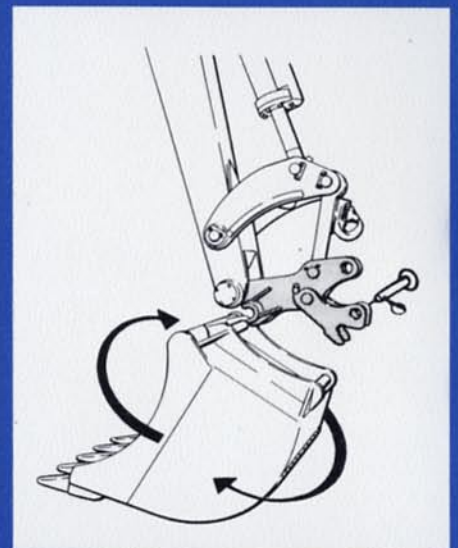
Attachments for Volvo BM 616B and Volvo BM 646

The Volvo BM 616B can be fitted with a wide range of attachments and accessories designed and developed specifically for their individual tasks. Both the loader and excavator units feature snap-on couplings. The combination of easy coupling and wide choice of attachments gives the machines tremendous versatility. The machines can also be equipped with a number of hydraulic accessories for a wide variety of specialised tasks. Both the 616B and 646 can also be fitted with many items from the allrounder attachment range. So with one machine, you can do so much more. And that's efficient use of resources.

Snap-on attachment bracket for excavator buckets

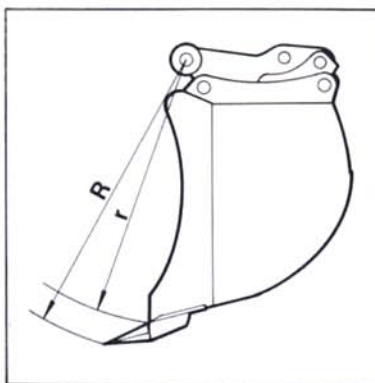
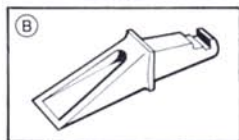
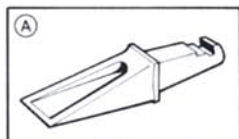
The excavator unit is fitted with a snap-on coupling as standard, so that the right bucket can be used every time. Even for that quick job.

Excavator buckets are reversible when attached by the snap-on coupling and can be mounted for either deep or high-level excavation work.

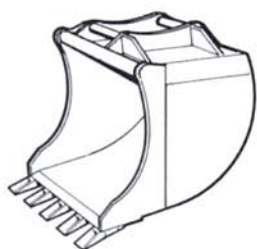


(A) Standard excavator tooth

(B) Special excavator tooth for posthole buckets



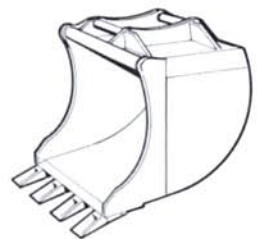
LIGHTS MATERIALS BUCKET



Only for digging in light or bulky material.

Order No.	Volume SAE litres	Width mm	Digging radius	Reversible	No. of teeth and type	Weight kg
98040	430	900	r/R 975/1090	yes	5 A	270
EXCAVATOR BUCKET						
97697	380	800	975/1090	yes	5 A	255
97703	325	700	975/1090	yes	4 A	225
98801	190	500	975/1090	yes	3 A	190
CABLE BUCKET						
97698	135	350	975/1090	no	3 A	155
97699	120	350	1010/1145	no	3 A	310
CLAY BUCKET						
98858	125–200	300	1160/1265	yes	2 A	160

EXCAVATOR BUCKET



For digging and loosening in normal-to-hard ground, where choice of bucket size is determined by ground conditions and trench width.

For wide pipe and cable trenches.

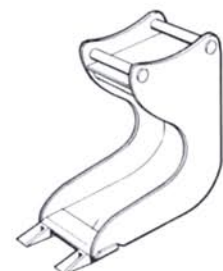
CABLE BUCKET



For digging narrow trenches to take small diameter pipes and cables.

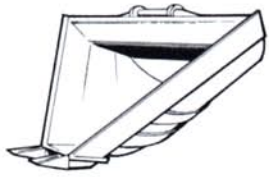
This bucket is fitted with an ejector for clearing sticky material, clay etc.

CLAY BUCKET



For digging cable and pipe trenches in heavy conditions such as soft to firm clay.

PROFILE BUCKET



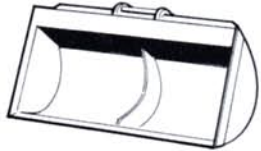
Only for digging open ditches in stable ground conditions.



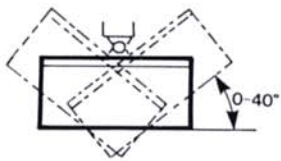
For digging open ditches with more gently sloping slides.



GRADING AND DITCH-CLEANING BUCKET

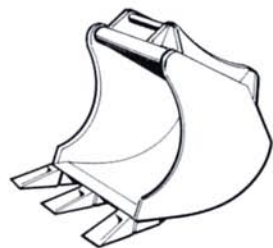


Wide bucket for grading and levelling work, ditch-cleaning etc. This bucket without teeth works best in homogeneous, stone-free material, leaving a smooth flat surface.



The same bucket as above, but can be angled 40° for grading and levelling work on slopes. Hydraulic unit 98059 is required.

POSTHOLE BUCKET



For digging small circumference post-holes. Post-raiser 96878 or 98060 can be used with this bucket.

POST-RAISER



A chain secures the post to the post-raiser, which in turn is mounted onto the post-hole bucket. Max. post weight 1050 kg (2315 lb).

Order No.	Volume SAE litres	Width mm	Digging radius	Reversible	No. of teeth and type	Weight kg
97694	360	1550 300	r/R 1000/1120	no	2 A	285
98439	430	1700 300	1010/1130	no	2 A	290
99192	430	1400	860/—	yes	—	270
99162	430	1400	1100/—	no	—	430
97700	50	380	650/770	no	3 B	105
97701	70	530	650/770	no	3 B	125
96878	—	—	—	—	—	140

HYDRAULIC POST-RAISER



The post is securely held by two hydraulically operated grip-arms on the Post-Raiser, which is mounted onto the Posthole bucket and connected to hydraulic unit 98059. Max. post weight 1700 kg (3750 lb).

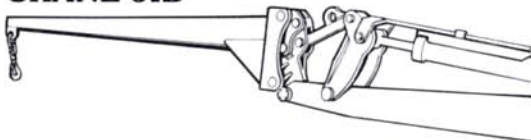
Order No.	Digging radius	Reversible	No. of teeth and type	Weight kg
98060	—	—	—	275
ASPHALT CUTTER				
Facilitates removal of asphalt for repair work on roads, sidewalks etc.				
The asphalt cutter produces a clean square-cut edge, making reinstatement easier after excavation.				
	Cutting depth 90 mm (3.5 in)			80
	Cutting depth 150 mm (5.9 in)			85
CRANE JIB				
The crane jib can be used on building sites for pipelaying etc.				
Lifts 800 kg (1760 lb) at a reach of 7 m (23 ft). Length 2 m (6 ft 7 in).				
97695	—	—	—	90
RIPPER				
Uses: frozen ground, roads, compacted tracks, stumps, ice etc.				
99438	r/R —/890	yes	1 A	100

ASPHALT CUTTER



Cutting depth 90 mm (3.5 in)
Cutting depth 150 mm (5.9 in)

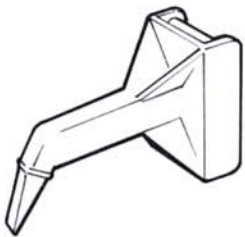
CRANE JIB



The crane jib can be used on building sites for pipelaying etc.

Lifts 800 kg (1760 lb) at a reach of 7 m (23 ft). Length 2 m (6 ft 7 in).

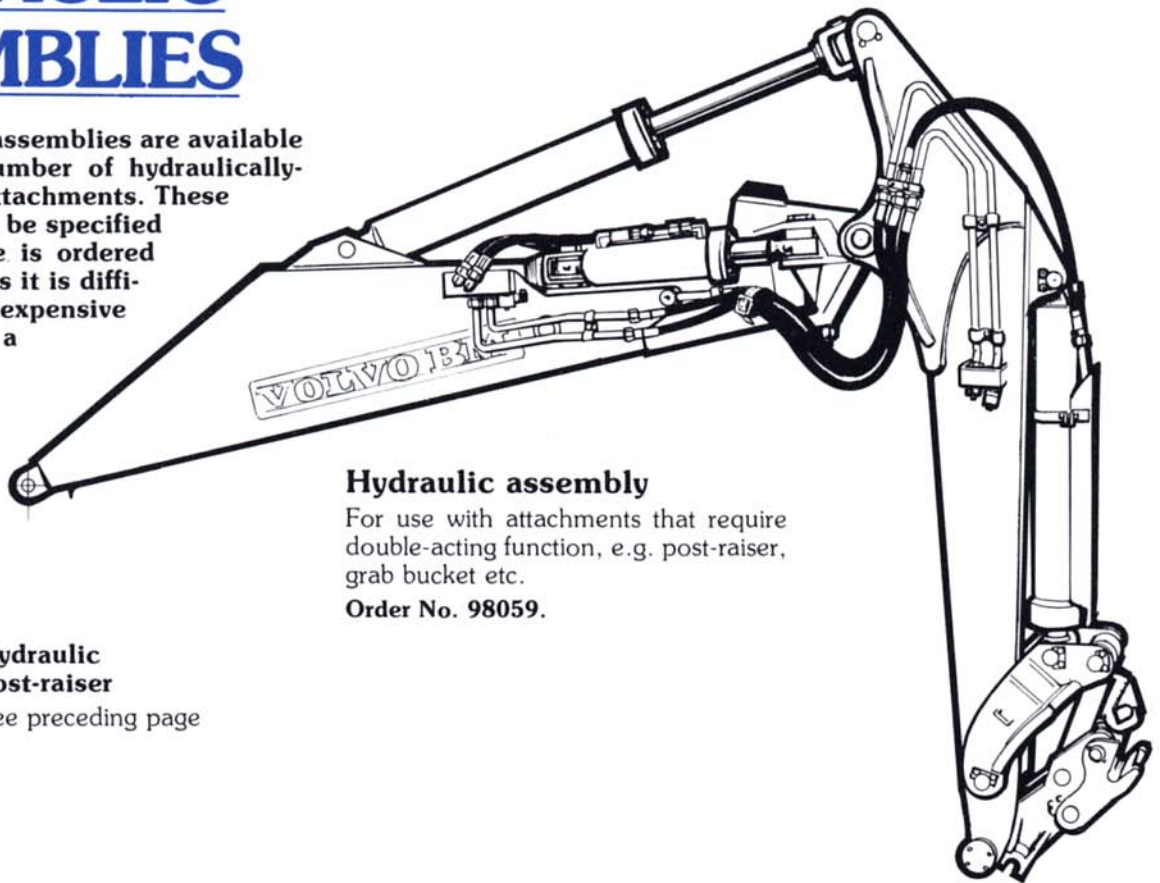
RIPPER



Uses: frozen ground, roads, compacted tracks, stumps, ice etc.

HYDRAULIC ASSEMBLIES

Special hydraulic assemblies are available for use with a number of hydraulically-powered special attachments. These assemblies should be specified when the machine is ordered from the factory, as it is difficult and relatively expensive to mount them on a finished machine



Hydraulic assembly

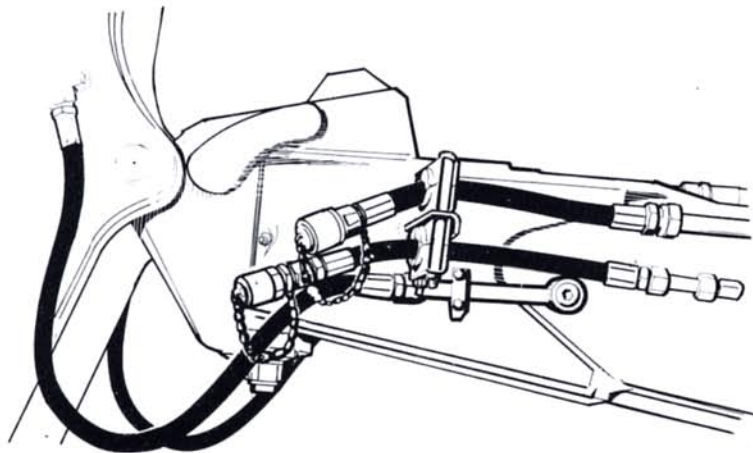
For use with attachments that require double-acting function, e.g. post-raiser, grab bucket etc.

Order No. 98059.



Hydraulic post-raiser

See preceding page



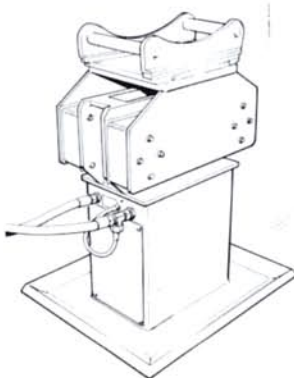
Hydraulic assembly for excavator-mounted attachments

With single-acting function e.g. hydraulic hammer, compactor etc.

Order No. 99021.

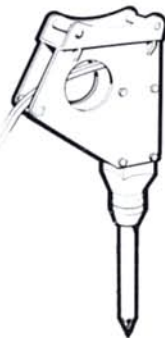
Also includes take-off for hand-held tools (99022). Note: requires hydraulic oil cooler.

Order No. 97733.



Compactor

Not sold through Volvo BM.



Hydraulic hammer

Not sold through Volvo BM.

VOLYMSTRÖMREGULATOR FLOW REGULATOR 2F96										
RATTLÄGE - DETENT POSITION										
1	2	3	4	5	6	7	8	9	10	11
13	24	36	46	55	61	69	76	83	88	93
FLÖDE L/M					— FLOW IN L/M					

The hydraulic equipment includes a flow regulator, operated from inside the cab. It enables you to match hydraulic flow to the needs of the attachment.

Hydraulic assembly for vibrating cable-layer

with twin pump where the flow from one section can be regulated to a suitable flow for the cable-layer.

Order No. 99020

Also includes take-off for handheld tools (99022).

NOTE! Requires hydraulic oil cooler.

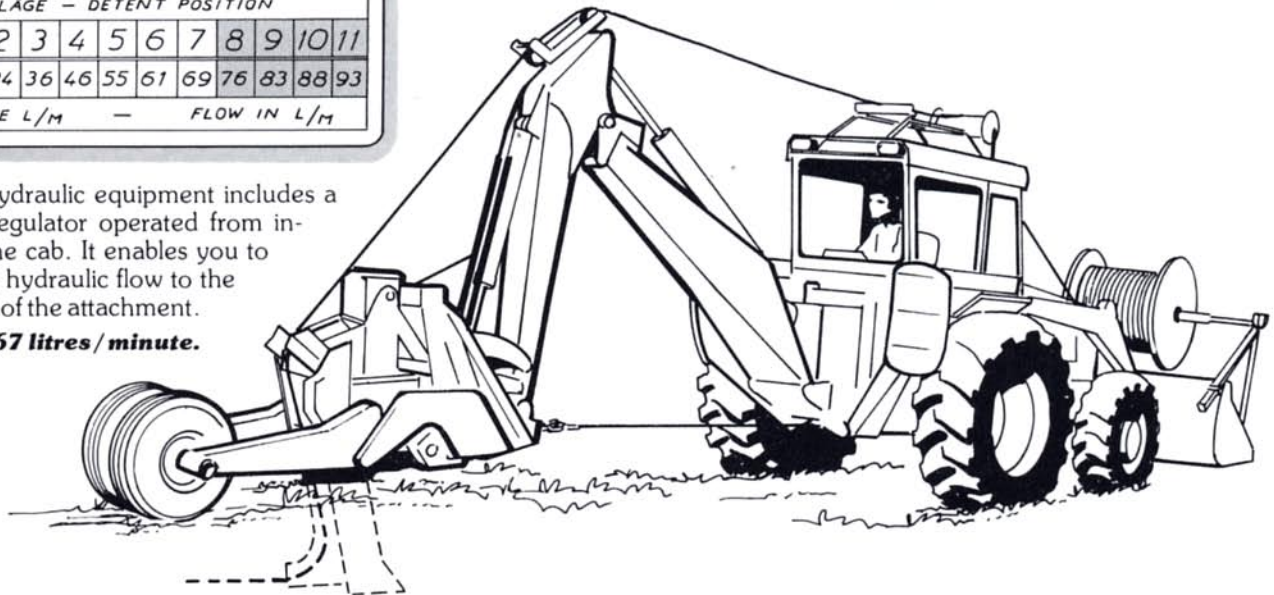
Order No. 97733

The Volvo BM 646 is the only excavator-loader recommended for cable-laying

VOLYMS TRÖMREGULATOR FLOW REGULATOR 2F96										
RATTLÄGE - DETENT POSITION										
1	2	3	4	5	6	7	8	9	10	11
13	24	36	46	55	61	69	76	83	88	93
FLÖDE L/M					FLOW IN L/M					

The hydraulic equipment includes a flow regulator operated from inside the cab. It enables you to match hydraulic flow to the needs of the attachment.

Max. 67 litres / minute.



Cable drum holder

for mounting on loader bucket (98370). Cable guide rollers on the cab roof and on the excavator boom are included.

Order No. 98927.

Counterweight

for fixing under the loader bucket to obtain higher front axle load on machines equipped for cable-laying.

Order No. 99576

Vibrating cable-layer

with support wheel for laying cable and marking tape in hard stony ground.

Not sold through Volvo BM.

Float position

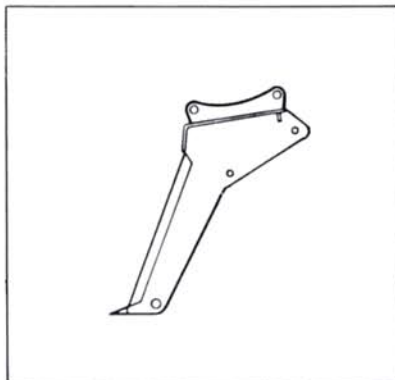
on the boom function aids cable-laying on uneven terrain.

Order No. 98925.

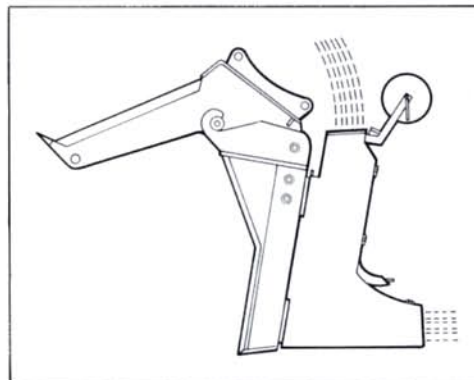
Intended for both fixed and vibrating cable-layers.

Fixed cable laying leg

Suitable for cable laying operations in light homogeneous, stone free ground.



Makes hand-fed cable laying easier and faster.

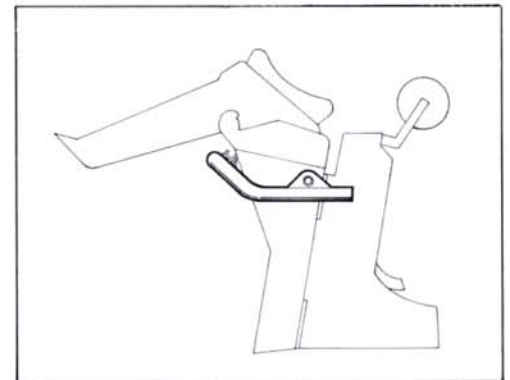


Fixed cable-layer

Cable-layer for simultaneous laying of cables and marking tape.

Order No. 98924 (2-cable-laying)

Order No. 98923 (3-cable-laying)



Skid

Maintains a constant depth when cable-laying.

Order No. 98926

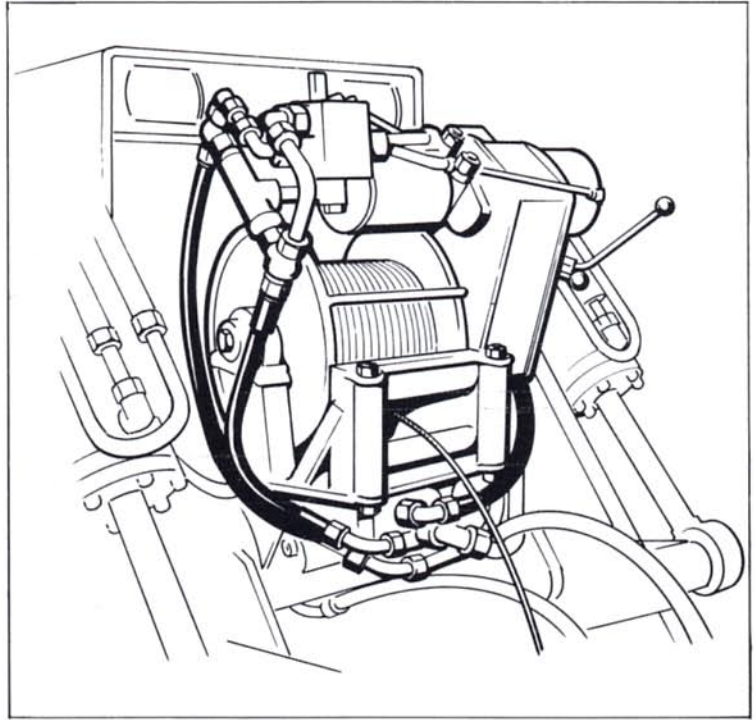
Hydraulic winch

mounted on the loader's cross-tube and connected to the 3rd hydraulic control (98888). A 3-way electric valve and a lever controlling the 3rd hydraulic control activate the drum for forward and reverse modes, as well as controlling the winding speed.

The winch has been inspected and approved for towing and winching. It is also equipped with a hydraulic spring pressure brake, which permits the winch to be used for lifting purposes after inspection.

Order No. 99302

Tractive force 3300—4000 kg (7275—8820 lb)
 Max. Rope speed 17—21 m/min (56—69 ft/min)
 Weight 110 kg (243 lb)

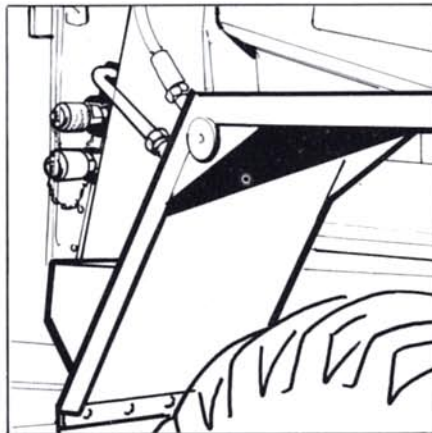


HYDRAULIC ASSEMBLY FOR HAND-OPERATED TOOLS

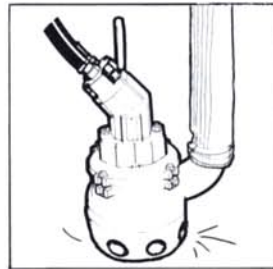
Order No. 99022

In addition to the tools illustrated, here are examples of other tools that can be utilised:

- rock drill
- chipping hammer
- packer, tamper
- grinder-cutter
- electric welder
- compressor



Certain attachments may require pressure reduction.
 Consult your tool supplier.



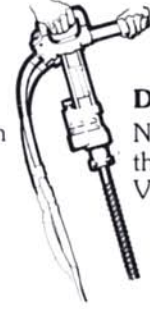
Drainage pump
 Not sold through Volvo BM.



Chain saw
 Not sold through Volvo BM.



Breaker
 Not sold through Volvo BM.



Drill
 Not sold through Volvo BM.

Hydraulic assembly for front loader

Third hydraulic control

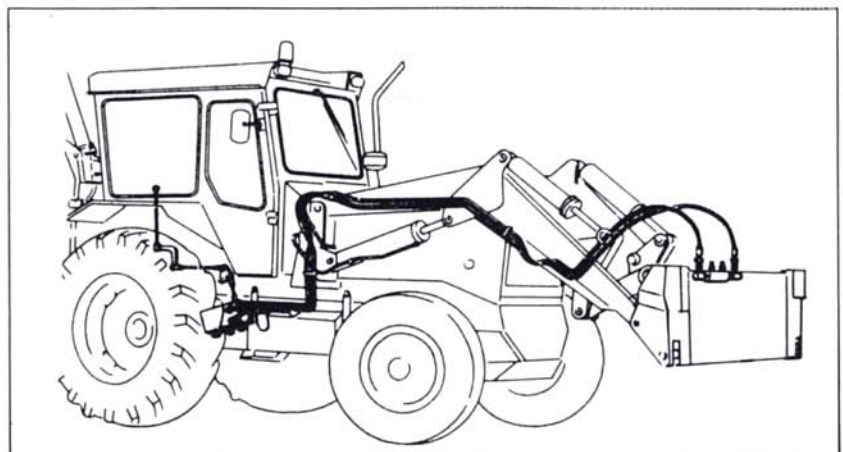
Order No. 98888

Provides power to operate hydraulic attachments, for example: 4-in-1 bucket, articulated crane jib, pivoted crane jib, rotary sweeper, and angling of dozer blade.

Single-acting lift function

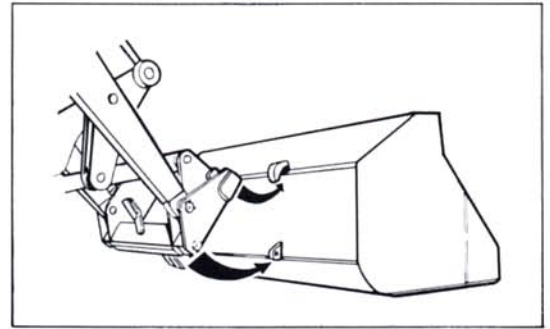
Float position, facilitates jobs such as snow clearance and stockpiling on hardened surfaces.

Order No. 97461

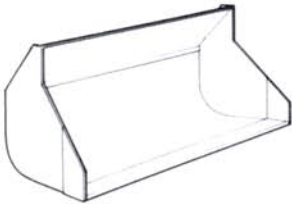


Attachments for front loader

The loader unit is equipped with snap-on coupling for instant attachment changes. Most attachments available for Volvo BM 621 and 641 allrounders can be used.



CARRYING AND GRADING BUCKET



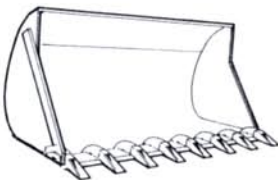
The bucket has an extra-large opening for transporting concrete rings up to 1200 mm (47 in) in diameter.

STRAIGHT LIP WITHOUT TEETH



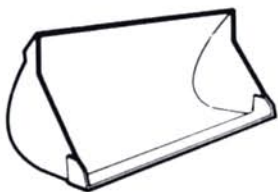
This bucket is used for stockpiling and loading loose material, or for excavating light or sandy soils.

STRAIGHT LIP WITH TEETH



This bucket is used for handling material needing high penetration and breakout forces. 8 teeth.

LIGHT MATERIALS BUCKET



This bucket is intended for handling low density material — wood chips, coal, coke, snow etc.

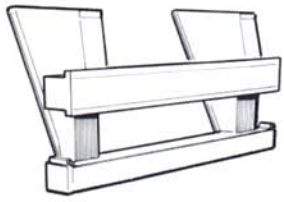
LIGHT MATERIALS BUCKET



This bucket is intended for handling low density material — wood chips, coal, coke, snow, etc.

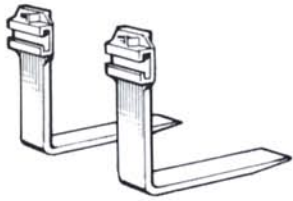
Order No.	Volume SAE		Width mm	Depth mm	Height mm	Weight kg
	m ³	cu yd				
98370	1.25	1.6	2220	830	960	430
97600	1.0	1.3	2350	735	850	390
97599	1.0	1.3	2350	735	850	440
97612	1.4	1.8	2350	910	965	460
97598	2.1	2.7	2350	1030	1130	510

FORK FRAME



The fork frame, used with a selection of fork tines is particularly suitable for building sites, sawmills, stockyards etc. A 1200 mm (47 in) fork frame is recommended for side loading trucks with palletized goods.

FORK TINES



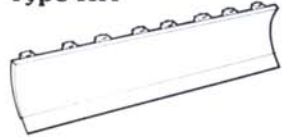
Three types of tines are available for handling different materials. All can be used with the fork frame described above.

Note: excessively long tines that protrude beyond the far edge of the load can damage material stacked behind that which is being worked.

Note! The order No. is for 1 fork tine.

HYDRAULIC MUNICIPAL DOZER BLADE

SNOW BLADE Type KH



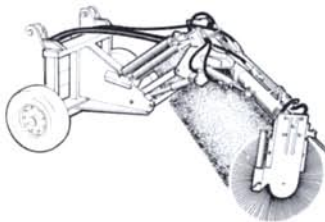
SNOW BLADE Type TKH



Recommended for snow clearance on roads etc. The blade has a reversible cutting edge divided into sections which fold back on contact with obstructions, such as manhole covers. The blade can be hydraulically angled up to 35°. The blade is not recommended for earth moving. An extra hydraulic control is required.

Hydraulically operated attachment. Requires assembly 98888.

ROTARY SWEEPER

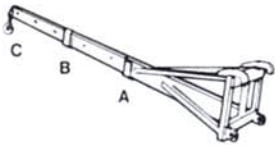


The rotary sweeper is invaluable in factories, on wharfs etc. where uncollected refuse can be a problem. The sweeper can be equipped with a sprinkler nozzle to lay the dust. One hydraulic control operates the brushes, while adjustments to blade angle of up to 30° on either side is done by hand.

Brush diameter: 600 mm (24 in)
Speed of rotation: 150 rpm
Reg. hydr. pres.: 75 kgf/cm²
Max. hydr. oil flow: 100–120 l/min.
Hydraulically operated attachment.
Requires hydraulic assembly 98888.

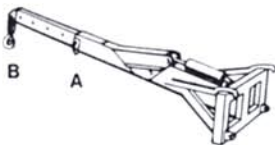
Order No.	Width mm	Depth mm	Height mm	Weight kg
99559	1500	—	—	240
97812	—	1050	575	85
97813	—	1225	575	95
97814	—	1450	575	105
Holms No 233527	3200	—	800	700
Holms No 234277	3200	—	1000	980
Holms No 231944	2200	—	1000	450
Holms No 231945	2500	—	1000	500

3-SECTION MECHANICAL CRANE JIB



The crane jib is used on building sites, for pipelaying etc. It has 2 telescopic sections with built-in mechanical stops.

HYDRAULIC 2-SECTION ARTICULATED CRANE JIB

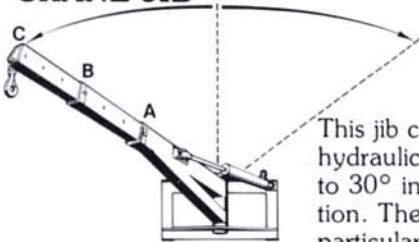


This jib has one extending outer section which can also be luffed. It is used on sites where loads have to be placed below ground level or for manoeuvring loads over obstacles.

The jib is equipped with a line rupture valve, the outer section being lowered at a controlled speed.

Hydraulically operated attachment. Requires hydraulic assembly 98888 (3rd hydraulic valve with control lever and tubes to attachment bracket).

HYDRAULIC 3-SECTION SLEWING CRANE JIB



This crane jib has two telescopic sections.

This jib can be hydraulically slewed up to 30° in either direction. The jib is particularly suitable for precision work. Requires one hydraulic control for the slewing function.

Hydraulically operated attachment. Requires hydraulic assembly 98888 (3rd hydraulic valve with control lever and tubes to attachment bracket).

Order No.	Length mm	Reach from front axle m	Max. load kg	Weight kg
97817	A 1750— B 2940— C 4100	3.85 4.85 5.95	825 675 525	300
97816	A 3300— B 4500	4.90 5.95	675 525	425
98009	A 1750— B 2940— C 4100	4.10 5.10 6.20	750 640 525	380



The Volvo BM 616B and 646 are versatile, sophisticated excavator-loaders for precision digging and loading work.

VOLVO BM

VOLVO BM AB ESKILSTUNA SWEDEN

Under our policy of continual product improvement, we reserve the right to change specifications or design without prior notice. Illustrations do not necessarily show the machine in its standard version.

Ref.No. 21 1 669 1575
ENGELSKA

Production group for basic printed matter Volvo BM
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