

BM-VOLVO

ROAD GRADER VHK 118

A reliable and economical road grader with high capacity. Now with a new engine, higher service weight and greater tractive power



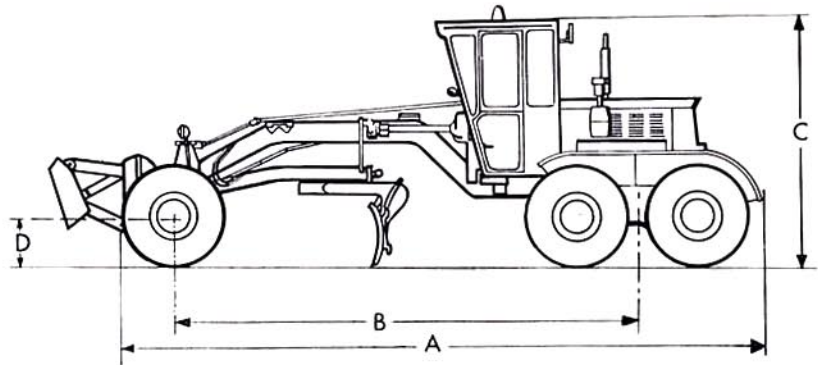
The BM-VOLVO VHK 118 — a reliable, nimble and highly manoeuvrable grader of more rugged design than its predecessor, the VHK 116. Higher service weight and a powerful engine (the D 70 B) for increased capacity and profitability. Great driver comfort with conveniently located controls, excellent all-round visibility and a spring-cushioned seat with a high back-rest. Good heating and ventilation. Rubber-mounted cab en-

sures a low noise level. Hydro-mechanical adjustment of blade settings. Differential to reduce stress on the transmission. Hydraulic adjustment of the grader blade attack angle (optional extra). A large number of attachments for different jobs — front blade, scarifier, gravel windrow eliminator, blade extensions, head and one-way ploughs for snow clearance, etc.



Dimensions

A in (mm)	307 (7 800)
B in (mm)	220 (5 600)
C in (mm)	118 (3 000)
D in (mm)	24 (600)
Width in (mm)	90 (2 300)



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TECHNICAL DATA

Weights

Service weight without scarifier or dozer blade lb (kg)	27 000 (12 300)
Rear wheels	..... lb (kg)	18 750 (8 500)
Front wheels	..... lb (kg)	8 400 (3 800)
Service weight with windrow eliminator and front blade	..... lb (kg)	30 400 (13 800)

Engine

Volvo direct-injection diesel engine	..... Type	D 70 B
Rating at 1 900 rev/min, SMMT, SAE, DIN, hp	.....	125, 135, 123

Gearbox

Type	..... Mechanical
Speeds forward/reverse	..... 8/2

Speeds (at 1 900 rev/min)

Gear:	1	2	3	4	5	6	7	8
miles/h	2.2	3.3	4.4	5.8	6.7	8.8	11.6	17.6
km/h	3.5	5.3	7.1	9.3	10.8	14.1	18.7	28.4
Reverse: low high								
miles/h	3.3	5.0						
km/h	5.3	8.1						
Speed range (idling to max. rev/min)								
Forward: 0.8—18.6 miles/h (1.3—30 km/h)								
Reverse: 1.2—5.0 miles/h (1.9—8.1 km/h)								

Clutch

Type	..... Dry plate
Dimensions	..... 2×14 in

Steering

Mechanical, with independent hydraulic servo		
Turning circle	..... ft (m)	59.1 (18)

Tyres

Dimensions, front and rear wheels		
Standard	.....	1300×24
Optional	.....	1400×24

Brakes

Foot-operated: Hydraulic with Hydrovac vacuum servo acting on 17×4 in brake drums on the leading pair of rear wheels.
Handbrake: Mechanical.

Frame

Type: Welded box section with internal reinforcements.
Clearance from ground to frame underside in (mm) 00 (1 525)

Circle

Diameter in (mm) 58.5 (1 486)
Mechanical rotation 360°
Teeth: case-hardened steel

Grader blade

Blade length
Blade height with cutting edge, chordal dim. in (mm) 60 (625)
Blade thickness in (mm) 0.71 (18)
Cutting edge in (mm) 7.9×3.9×144 (200×10×3 650)

The blade is reinforced by a welded box section with guides along rear side.
Optional equipment: Blade to International standards, 560×18×3 650 mm (22×0.71×144 in), with two dished cutting edges, 6×5/8×72 in, giving a lift above ground of 21 in (530 mm) at 38° attack angle and an attack-angle setting range of 47°—103°

Grader blade settings

Lift above ground with standard tyres in (mm) 20 (509)
Lateral shift of circle in (mm) 39 (1 000)
Lateral shift of blade, hydraulic in (mm) 52 ((1 320)
Max. reach outside wheels in (mm) 95 (2 425)
Attack-angle setting range.. 33°—100°
Max. slope angle 90°

Driver's cab

Flat floor area in (mm) 52×27 (1 320×680)
Height of floor above ground in (mm) 44 (1 120)
Inside height, floor to roof in (mm) 73 (1 900)

Liquid capacities

Fuel tank	..... Imp. gal (l)	48.4 (220)
Cooling system	..... Imp. gal (l)	7.7 (35)
Crankcase	..... Pt (l)	22 (12.5)
Gearbox	..... Pt (l)	109 (62)
Tandem transmissions, each	..... Pt (l)	44 (25)
Hydraulic system	..... Pt (l)	79 (45)

Electric system

Voltage	..... 24 V
Alternator rating	..... 800 W

Windscreen wipers

Electrically powered		
Number	.....	3

OPTIONAL EQUIPMENT

Scarifier

Weight	..... lb (kg)	1 320 (600)
Shape	.....	Vee
Effective width	..... in (mm)	49 (1 235)
Number of teeth	.....	11
Tooth dimensions	..... in (mm)	3×1 (75×25)
Tooth pitch	..... in (mm)	4.7 (120)
Distance from scarifier to front axle	..... in (mm)	29 (735)
Max. cutting depth	..... in (mm)	8.5 (215)
Max. scarifier pressure	..... lb (kg)	8 820 (4 000)

Dozer blade

(hydraulic control)

Weight	..... lb (kg)	1 980 (900)
Width	..... in (mm)	96 (2 440)
Height	..... in (mm)	32 (810)
Thickness	..... in (mm)	0.47 (12)
Max. lift above ground	..... in (mm)	18 (470)
Max. cutting depth	..... in (mm)	7.5 (190)

Gravel windrow eliminator

Weight	..... lb (kg)	1 145 (520)
Effective width, max.	..... in (mm)	104.5 (2 654)
Distance from outermost tyre to outer edge of wing	..... in (mm)	22—25 (560—630)

Roading width: Eliminator blade retractable within overall width of grader

Lift height	..... in (mm)	18—19 (450—485)
Draught below ground level	..... in (mm)	6.5—7.9 (165—200)

Attack angle of cutting edge	.....	90°—110°
Angular setting of cutting edge relative to grader	.....	25°—30°

Specifications are subject to change without prior notice.



BOLINDER-MUNKTELL

— a member of the Volvo Corporation
Eskilstuna, Sweden

Nr 2197 E

5, 10, 71 KURIRTRYCK, ESKILSTUNA