

VOLVO MOTOR GRADERS

# ATTACHMENTS



**MORE CARE. BUILT IN.**



# ENGINEERED FOR STRENGTH

By properly understanding the work that your G900 Volvo Motor Grader will ever have to do, we build in the capacities and capabilities to not only meet the demands of the job you have today, but the one you have tomorrow.

## One machine – many tasks

Getting your motor grader to expand its capability starts long before you buy a Volvo Motor Grader. At Volvo Construction Equipment, we are constantly pushing the boundaries. Whether it is to push more dirt, track straighter in particularly difficult footing or to break up asphalt or subgrade, to improve the compaction and grading process, we have thought about it too.

Many grader operators who acquire a machine for a specific task often find themselves doing more. Heavy cutting and pushing or fine grading is not enough. Today, the jobs also include ripping, scarifying, benching and blading in tight spots.

## Intelligent design

Volvo engines are designed to perform hand-in-hand with Volvo Motor Graders equipped with our attachments. High torque at low RPMs provides the right power. Power that delivers.

Dynamic attachments that are controlled from the cab access a large displacement pump that provides perfect power for a seamless operation of functions regardless of the application.

## 4 Season Engineering

Whatever the weather, Volvo Motor Graders are called upon to clean up, maintain, cut through, clear away or just open up the road. Our engineers know that every inch of your grader is under stress from every imaginable direction. They designed, tested and built a frame that could take on the task of getting you home. The box frame and full perimeter rear frame section provides a firm foundation and a pull point for attachments – front, rear or side-mounted.

Volvo Motor Graders are engineered to simplify installation and ensure the integrity of the machine while the drivetrain components are safely isolated away from the excessive loads created by clearing, benching, ripping and scarifying.

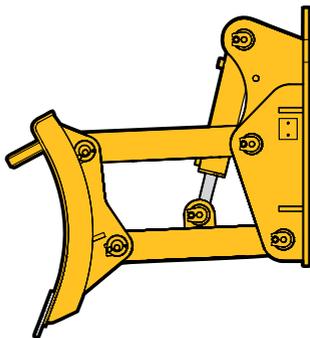
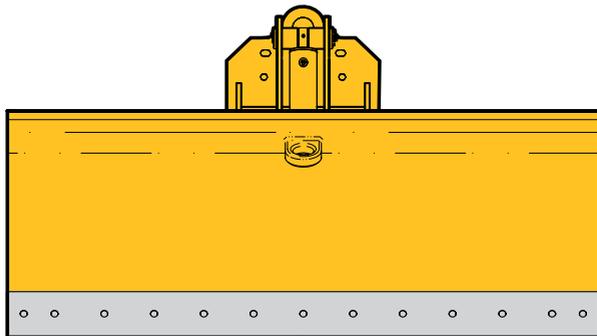
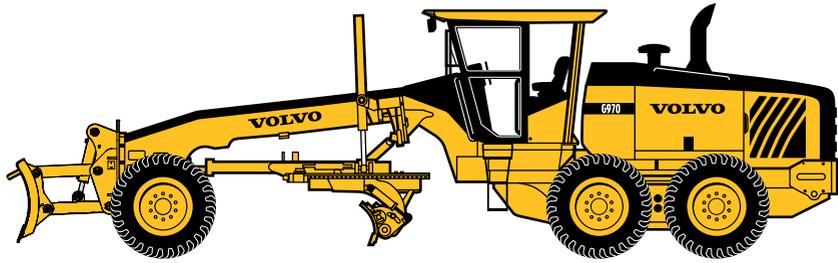
Engineered for versatility, your Volvo G900 Motor Grader comes ready to work, no matter the application or attachment. Talk to your Volvo dealer for all the details on attachments for your grader. Maximum productivity 365 days a year.



# Dozer Blade

The Dozer Blade a front mounted tool used for bulldozing jobs such as displacing gravel piles, small stump removal, fallen rock clearance from road shoulders and other blading applications where access with the grader moldboard may be difficult.

The dozer assembly is engineered for excellent visibility over and around the dozer blade.



## Key Features:

- Parallel linkage maintains blade angle at all depths.
- Rugged thick moldboard plate provides long life.
- Excellent digging penetration.
- Boxed beam blade support provides excellent blade rigidity.
- 5/8" x 8" (15 mm x 200 mm) C1084 cutting edge.
- Lock valve in hydraulic circuit maintains stability.
- Full hydraulic control using lever on steering pedestal.
- Optional mounting location increases ground clearance 4" (100 mm) to assist trailer loading.
- Lift group will also accept Front Mounted Scarifier.
- Down force at cutting edge 16,000 lb (7 260 kg).

## Dimensions

		G930-G960	G940-G990	G970-G990 Only
Width Class	ft (m)	8 (2,5)	9 (2,7)	10 (3,0)
Weight	lb (kg)	2,380 (1 080)	2,515 (1 140)	2,600 (1 180)
Width of cut	in (m)	98 (2,5)	108 (2,75)	118 (3,0)
Blade height	in (mm)	37.5 (953)	37.5 (953)	37.5 (953)
Plate thickness	in (mm)	0.5 (12)	0.5 (12)	0.5 (12)
Lift cylinder diameter	in (mm)	4 (102)	4 (102)	4 (102)

## Add to overall length of G900 Motor Graders

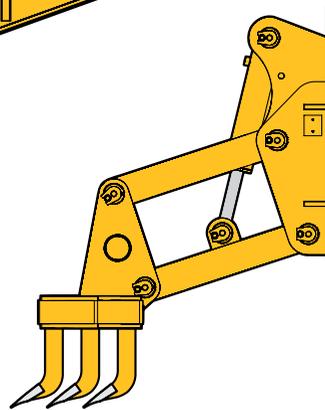
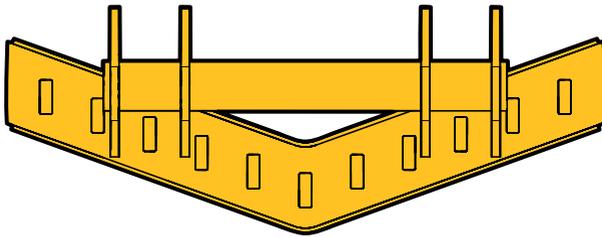
Tire size		G930-G960	G940-G960	G970-G990
14:00 x 24	in (mm)	45.5 (1 155)	46 (1 170)	47 (1 195)
17:50 x 25	in (mm)	45.5 (1 155)	46 (1 170)	47 (1 195)
16:00 x 24	in (mm)			44.5 (1 130)
20:50 x 25	in (mm)			44.25 (1 125)

## Ground clearance

Tire size		Raised clearance	Depth of cut
14:00 x 24	in (mm)	19.75 (500)	8.75 (225)
17:50 x 25	in (mm)	19.25 (490)	9.25 (235)
16:00 x 24	in (mm)	22 (555)	6.5 (165)
20:50 x 25	in (mm)	21.75 (550)	6.75 (170)

# Front Mounted Scarifier

The Front Mounted Scarifier is mounted to the nose plate of the grader and is designed to break up compacted material, asphalt and rocky subgrade. Being front mounted simplifies scarifying operations against curbs or walls or near other obstacles.



## Key Features:

- Excellent visibility.
- Five standard (eleven possible) shanks and points.
- Four point lift group linkage provides excellent stability during operation.
- Parallel action ensures even penetration of all teeth at all working depths.
- V-shape design permits efficient material flow.
- Optional mounting location increases ground clearance 4" (100 mm) to assist trailer loading.
- Lift group will also accept Dozer Blade.

## Dimensions

		G930-G976 Only	
Weight	lb (kg)	1,575	(715)
Width of cut	in (mm)	49	(1 248)
Tooth spacing	in (mm)	4.7	(120)
Lift cylinder diameter	in (mm)	4	(102)
Number of teeth		5 supplied, accepts up to 11	
Maximum penetration	in (mm)	11.5	(292)
Teeth:			
Thickness	in (mm)	3 x 1	(76 x 25)
Medium carbon steel alloy			
Tip size	in (mm)	6.5 x 1.7	(165 x 44)

## Add to overall length

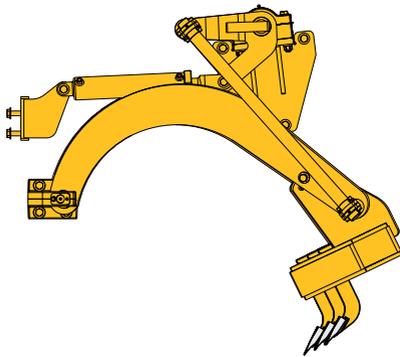
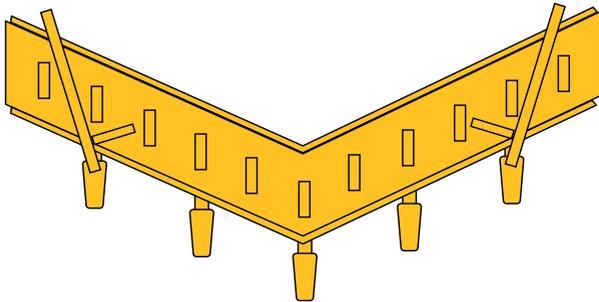
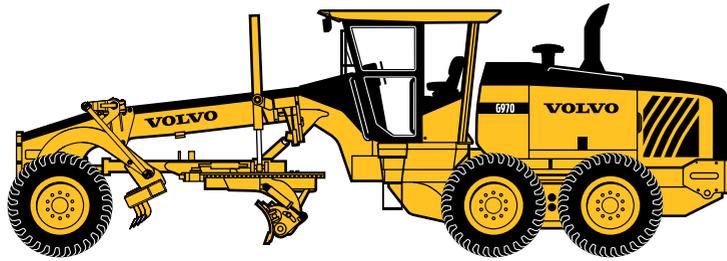
Tire size		G930	G940-G960	G970-G976
14:00 x 24	in (mm)	45.75 (1 160)	46.25 (1 175)	47.25 (1 200)
17:50 x 25	in (mm)	45.75 (1 160)	46.25 (1 175)	47.25 (1 200)
16:00 x 24	in (mm)			44.75 (1 135)

## Ground clearance

Tire size		Teeth installed Top position	Teeth installed Bottom position
14:00 x 24	in (mm)	18.4 (468)	17.4 (443)
17:50 x 25	in (mm)	18.4 (468)	17.4 (443)
16:00 x 24	in (mm)	21 (530)	20 (504)

# Mid Mount Scarifier

The Mid Mount Scarifier is mounted behind the front axle and is designed to break up compacted material, asphalt and rocky subgrade. It ensures optimum cutting capability combined with excellent visibility to the attachment. To gauge penetration depth or ground clearance, a visual indicator is standard equipment.



## Key Features:

- Fully welded box beam, "V" shaped.
- Three position manual tilt adjustment is provided for varied working applications.
- Full hydraulic control using lever on steering pedestal.
- Double acting cylinder with lock valve.
- V-shaped design permits efficient material flow.
- Mounted behind the front wheels ensures excellent visibility.
- Allows for another front mounted attachment such as a dozer blade to be used.
- Permits full circle mobility for bank sloping or ditching.

## Dimensions

		G930, G940, G960, G970	
Weight	lb (kg)	1,995	(905)
Width of cut	in (mm)	51.1	(1 298)
Top and bottom - plate thickness	in (mm)	.79	(20)
Box dimensions	in (mm)	56 x 7 x 8	(1 424 x 180 x 204)
Tooth spacing	in (mm)	5	(126)
Lift cylinder diameter	in (mm)	4	(102)

## Ground clearance

Tire size		Teeth removed		Teeth installed Top position		Teeth installed Bottom position	
14:00 x 24	in (mm)	23	(584)	14.1	(358)	12.3	(312)
17:50 x 25	in (mm)	22.4	(569)	13.6	(345)	11.8	(300)
16:00 x 24	in (mm)	25.2	(640)	16.3	(414)	14.6	(371)

## Teeth

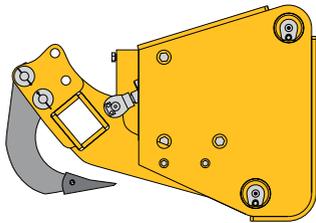
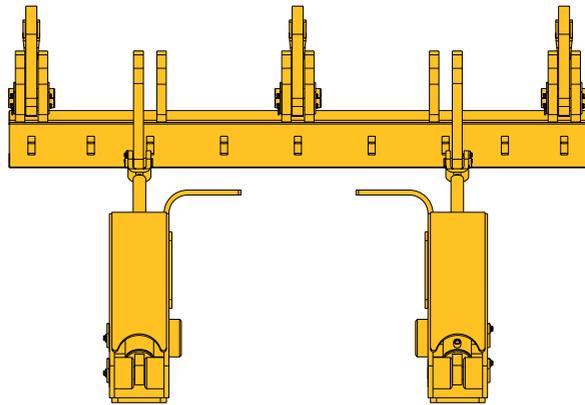
Number of teeth		5 supplied, accepts up to 11	
Maximum penetration	in (mm)	10.2	(260)
Shank thickness	in (mm)	3 x 1	(76 x 25)
Tip size	in (mm)	6.5 x 1.7	(165 x 44)

## Penetration Force

Model			
G930	lb (kg)	13,730	(6 230)
G940	lb (kg)	13,450	(6 100)
G960	lb (kg)	14,410	(6 535)
G970	lb (kg)	14,815	(6 720)

# Ripper / Scarifier

The Ripper/Scarifier is a rear frame mounted tool used for breaking up asphalt or other hard-pack aggregates prior to blading. Uniform mixing of coarse and fines can also be achieved for improved compaction of road surfaces.



## Key Features:

- The ripper features a revised attack angle. The field proven curved ripper shank design allows for easier penetration of hard surfaces while maximizing tip life.
- The parallel tooth path design ensures consistent ripping depth throughout the working range. This design provides consistent material break-up and or mixing of aggregates across the width of the ripper.
- Tooth angle changes as depth is varied to maximize ripping/scarifying efficiency.
- Design allows for close operation to fixed objects such as walls, curbs and embankments.
- The Ripper/Scarifier can be used with two different sets of ground engaging tools: 1 to 5 ripper teeth or up to 9 scarifier teeth.
- Full hydraulic control using levers on pedestal.

## Dimensions

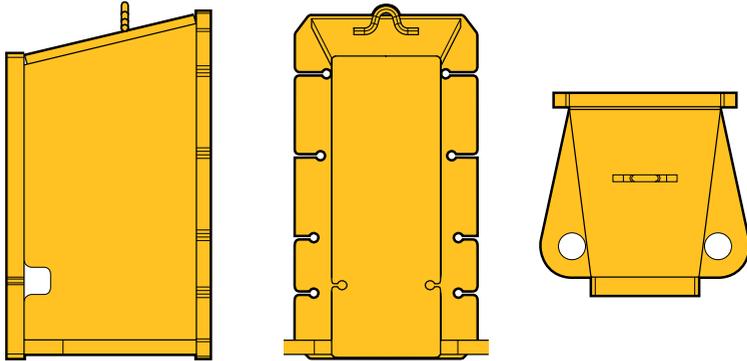
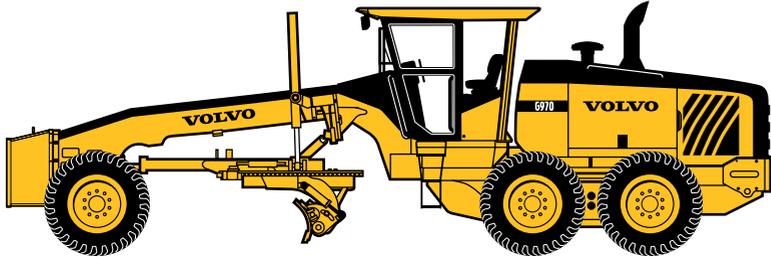
		G930 - G960		G970 - G990	
Weight	lb (kg)	3,295	(1 495)	3,340	(1 515)
Beam dimension	in (mm)	91.5 x 6.5 x 8 (2 326 x 165 x 203)		95 x 6.5 x 8 (2 413 x 165 x 203)	
Material thickness	in (mm)	.79	(20)	.79	(20)
Width of cut	in (mm)	84.5	(2 148)	88	(2 234)
Lift cylinder diameter	in (mm)	4	(102)	4	(102)
Add to overall length - travel position	in (mm)	19.5	(496)	19.5	(496)
<b>Ripper</b>					
- ripping depth, max.	in (mm)	18	(460)	18	(460)
- penetration force	lb (kg)	29,245	(13 265)	29,245	(13 265)
- pryout force	lb (kg)	15,208	(6 900)	15,208	(6 900)
<b>Scarifier</b>					
- ripping depth, max.	in (mm)	11	(280)	11	(280)

## Ripper shank ground clearance

Tire size		Tooth - Work position		Tooth - Carry position	
14:00 x 24	in (mm)	25	(635)	21.75	(550)
17:50 x 25	in (mm)	24.5	(620)	21.25	(540)
16:00 x 24	in (mm)	27.25	(690)	24	(610)
20:50 x 24	in (mm)	27	(685)	23.75	(605)

# Push Block

The Push Block is mounted to the grader nose plate and performs two basic functions: as a counterweight to maintain grader balance when a rear ripper/scarifier is installed and installed as a push point in applications when a grader may be called upon to be used as a push vehicle.



**Key Features:**

- Extends beyond the front tires to provide ample clearance for pushing other equipment.
- Sloped top and sides ensure forward visibility is maintained.
- The Push Block can be easily mounted and demounted to facilitate the use of other front mounted attachments.
- Equipped with one 1.5" (38 mm) diameter lift eye.
- Optional bolt-on rear tow hook can be mounted to push block.
- Recommended when using rear mounted Ripper/Scarifier.

**Add to overall length of G900 Motor Graders**

Tire size		G930	G940-G946	G960	G970-G976	G990
14:00 x 24	in (mm)	18.5 (465)	19.7 (500)	19.7 (500)	20.7 (527)	
17:50 x 25	in (mm)	18.5 (465)	19.7 (500)	19.7 (500)	20.7 (527)	
16:00 x 24	in (mm)				18.2 (460)	18.7 (475)
20:50 x 25	in (mm)					18.5 (470)

**Dimensions**

Weight	lb (kg)	1,138 (515)
Height	in (mm)	33.5 (851)
Width (at push point)	in (mm)	12 (305)
Depth to grader nose plate	in (mm)	23.3 (591)
Push area	in <sup>2</sup> (cm <sup>2</sup> )	402 (2 594)

## Optional Equipment



Fenders



Air conditioning



CD/Radio



Lighting options



Air suspension seat



Moldboard lights

Choose the right interior and exterior options for your Volvo G900 Motor Grader to maximize operator productivity. See dealer for complete list.



Volvo Construction Equipment is different. Our machines are designed, built and supported in a different way. That difference comes from an engineering heritage of over 175 years. A heritage of thinking first about the people who actually use the machines. About how to help them be safer, more comfortable, more productive. About the environment we all share. The result of that thinking is a growing range of machines and a global support network dedicated to helping you do more. People around the world are proud to use Volvo. And we're proud of what makes Volvo different – **More care. Built in.**



*Not all products are available in all markets. Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice. The illustrations do not necessarily show the standard version of the machine.*

# **VOLVO**

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[www.volvoce.com](http://www.volvoce.com)

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