# VOLVO MOTOR GRADERS G930B, G940B, G946B, G960B





### A PASSION FOR PERFORMANCE.

At Volvo Construction Equipment, we're not just coming along for the ride. Developing products and services that raise productivity – we are confident we can lower costs and increase profits for industry experts. Part of the Volvo Group, we are passionate about innovative solutions to help you work smarter – not harder.

#### Helping you to do more

Doing more with less is a trademark of Volvo Construction Equipment. High productivity has long been married to low energy consumption, ease of use and durability. When it comes to lowering life-cycle costs, Volvo is in a class of its own.

#### Designed to fit your needs

There is a lot riding on creating solutions that are suited to the particular needs of different industry applications. Innovation often involves high technology – but it doesn't always have to. Some of our best ideas have been simple, based on a clear and deep understanding of our customers' working lives.





#### You learn a lot in 180 years

Over the years, Volvo has advanced solutions that have revolutionized the use of construction equipment. No other name speaks Safety louder than Volvo. Protecting operators, those around them and minimizing our environmental impact are traditional values that continue to shape our product design philosophy.

#### We're on your side

We back the Volvo brand with the best people. Volvo is truly a global enterprise, one that is on standby to support customers quickly and efficiently – wherever they are.

#### We have a passion for performance.











Volvo Trucks

Renault Trucks

Mack Trucks















Volvo Buses Volvo Construction Equipment

Volvo Financial Services



The latest Volvo engines are good for the environment and even better for your productivity. That's because they combine the most advanced design with innovative new technology, meeting new Tier 4 emissions requirements – and your high performance standards.

#### Powerful Tier 4i or EU Stage IIIB engine

Volvo Tier 4-certified engine with V-ACT (Volvo Advanced Combustion Technology) and automatic over-speed protection.

Increased and enhanced power and torque for every model. Results in less lug-down, faster recovery, reduced emissions and greater fuel efficiency. Provides lower operating costs and increased performance.

#### Cooled EGR

Volvo's cooled Exhaust Gas Recirculation (EGR) technology helps meet new emission requirements by reducing the temperature in the combustion chamber. This reduces the formation of nitrogen oxides by up to 50 percent.



#### Separate radiators

Volvo's cooling module features a unique design with non-stacked coolers, resulting in minimized clogging and reduced service intervals. Access to radiators is easy through the hinged radiator door. Variable speed, hydraulically-driven fan draws power only when needed. The fan is optionally available in a reverseable version.

# **SMOOTH, STREAMLINED OPERATION.**



The Volvo powershift HTE840S transmission or the industry-exclusive HTE1160S transmission are designed to provide the right gear for any application. Both transmissions have been further enhanced to ensure smooth gear change and shuttle shift operation. When equipped with **optional** joystick control, transmission shifter is incorporated in the left hand joystick.





#### Choice of 8 or 11 gears

Volvo's HTE840S and optional HTE1160S transmissions feature shuttle shift that enables effortless shifts between forward and reverse without use of brakes or the inching pedal.

HTE840S powershift, sequential transmission features 8 speeds forward and 4 speeds reverse.

HTE1160S transmission features 11 gears forward and 6 reverse gears. It provides more gears in a typical working range, plus slower gears for fine grading and faster gears for snow removal and travel. Shifting through the gears is smooth via an intuitive sequential shifter.



#### Two autoshift modes

Volvo transmissions provide a choice of work and travel autoshift modes and programmable target gears. This secures optimal productivity and reduced fuel consumption. Autoshift feature is standard with HTE1160S and optional with the HT840S transmission.



#### **Differential Lock**

Volvo rear axle with planetary gears reduces load on the axle components for extended life. Operator-controlled hydraulic lockup differential ensures optimal traction when needed.



#### Smart Shift & Shuttle Shift

Smart Shift and Shuttle Shift are standard features of Volvo transmissions. Smart Shift recalls the last used forward or reverse gear. Combined with Shuttle Shift, it makes direction changes quick and effortless, reducing cycle time in typical grader applications.

### WHERE SPEED MEETS TRACTION.

The Volvo AWD (All Wheel Drive) system is built around two variable displacement hydraulic pumps and direct drive wheel motors. The system provides additional blade pull of up to 3 855 kg (8,500 lb) and greater frontend stability under low traction conditions like snow and ice.



#### Factors for grader productivity

Grader productivity is determined through blade down pressure and blade pull force. Thanks to the optimal overall machine balance achieved through the frame design and the distribution of the main grader components, G900B graders have the highest blade down pressure in each class. High blade down pressure, combined with precision controls and the traction of tandem drive or AWD drive, result in the best productivity in every application.

In AWD mode, the G946B features top speeds of 31.4 km/h (19.6 mph) with 8-speed transmission and up to 36.8 km/h (23.0 mph) with optional 11-speed transmission. This makes the G946B the top-of-the-line model for optimum snow removal or other high speed AWD applications.



### A CAB BUILT FOR COMFORT.

Volvo is committed to making operators' jobs easier and more productive. Cabs include plenty of glass for unobstructed views; easy-to-use ergonomic controls; a familiar steering wheel; comfortable seating and a Contronics system to keep operators informed of all functions in real time.

#### Cab visibility

The Volvo cab provides an unobstructed line of view to the moldboard, over the front frame and through the side and rear windows. Provides safer operation and easier maneuverability.

#### Industry standard controls

Controls with a familiar, industry-standard pattern include low effort, shortstroke levers and an adjustable pedestal centered in front of the operator.





#### **Ergonomic comfort**

The ergonomic cab is designed to make operators more comfortable. It features a high performance heating and ventilation as well as optional air conditioning system and an adjustable seat that reduces operator fatigue.



#### Contronics monitoring

Volvo's Contronics monitoring system has been expanded to provide real-time information on more grader functions. Integrated with MATRIS, Volvo's monitoring and tracking system, Contronics comes standard to enhance operation and protect your investment.





#### Familiar steering

When equipped with optional joystick controls, the steering wheel is still there for familiar, intuitive steering.







Volvo Motor Graders enhance profitable ownership by providing a quality machine inside and out, advanced safety features and easy service access that leads to more productivity.

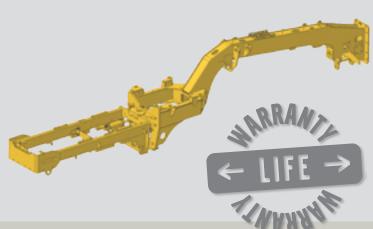
#### Twin gear circle turn system

Volvo's exclusive circle turn system uses twin gear, direct-acting hydraulic cylinders that provide instant, high output torque, enabling moldboard rotation under any load. This means there is no need to stop, reverse and change moldboard angle. This design has proven its superior power and durability through several generations of Volvo graders.

#### Lifetime frame warranty

Volvo exclusively offers an optional first user Lifetime Warranty on the front and rear frame, as well as on the articulation hinge and bearings. Provides even more peace of mind for owners.

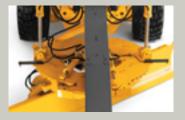






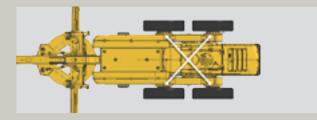
#### Transmission location

The transmission is mounted beneath the cab and ahead of the articulation hinge, enhancing service access and contributing to the blade down pressure for greater productivity.



#### Level drawbar

Feature an asymmetrical drawbar ball stud that can be rotated 180 degrees in order to keep the drawbar in a horizontal, level position. Keeping the drawbar parallel to the ground is important when performing fine grading.



#### Dual crossover brake system

Individual, wet-type brakes are used on each wheel. A dual crossover brake system provides two circuits that work separately. If one circuit fails, balanced braking is still maintained.

# TAKE A WALKAROUND.

Volvo Tier 4i and EU Stage IIIB engine

less lug-down, faster recovery and

greater fuel efficiency.

**Differential lock** 

differential.

Operator controlled lock/unlock



Delivers optimum power in each gear for reduced wheel

slippage and fuel consumption.

#### Choice of controls

Choose standard, industry pattern

hydraulic controls or contemporary Volvo joystick controls.

#### Contronics





#### Choice of transmissions

8 or 11 speed transmissions feature dual autoshift mode (optional with 8 speed transmission), Shuttle Shift, Smart Shift, programmable target gears and ground speed matching.



CareTrack is the Volvo telematics system. It is equipped as standard on this machine and is designed to provide information to



#### Shuttle Shift control

Saves cycle time by allowing change of forward-reverse direction without use of brakes and inching pedal.

#### Circle turn system

Unique Volvo circle turn system develops the highest turning power in the industry, along with longlasting components for precise grading.

Provides up to 3 855 kg (8 500 lb) of additional drawbar pull. Creep mode enables front wheel drive only for precise grading.

<sup>\*</sup> In markets where CareTrack is available

# ATTACHMENTS.

ATTACHMENTS		
G930B, G940B, G946B, G9	60B	
Dozer Blade		
Weight	kg	1080
Width	m	2.44
Weight	kg	1140
Width	m	2.7
Front Mounted Scarifier		
Weight	kg	715
Width of cut	mm	1248
Number of teeth	up to	11
Penetration	mm	260
Mid Mounted Scarifier		
Weight	kg	905
Width of cut	mm	1298
Number of teeth	up to	11
Penetration	mm	292
Push Block		
Weight	kg	515
Ripper/Scarifier		
Weight	kg	1495
Width of cut	mm	2148
Number of scarifier teeth	up to	9
Number of ripper teeth	up to	9
Max. ripping depth	mm	280



#### Attachment mounting

The rugged frame is factory equipped with the attachment brackets making future field installation easy and reliable.



#### 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.

#### Dozer Blade

The Dozer Blade is usefull for displacing gravel piles, clearing fallen rocks from the road and other blading applications when access with the grader moldboard may be difficult.



## TOP PERFORMANCE DESERVES SUPPORT.

The day you receive your new Volvo Grader is just the start of your working relationship with Volvo. From service and maintenance to our CareTrack telematics system – Volvo has a comprehensive and sophisticated aftermarket portfolio to continuously add value to your business.

Volvo designed and built your machines, so no-one knows how to keep them working in top condition more than us. When it comes to your machine, our Volvo trained technicians are the experts.

Our technicians work with industry leading diagnostic tools and techniques, using only Genuine Volvo Parts to deliver the highest levels of quality and service. Talk to your Volvo dealer about how genuine Volvo services can best provide the service and maintenance plan that is the right fit for you and your business.







State-of-the-art machines require state-of-the-art support and your Volvo dealer can provide a catalogue of services designed to get the most out of your machine, helping you maximise uptime, productivity and residual value. Your Volvo dealer can provide a number of sophisticated support offers, including:

Service plans ranging from routine wear inspections, through to comprehensive maintenance and repair agreements.

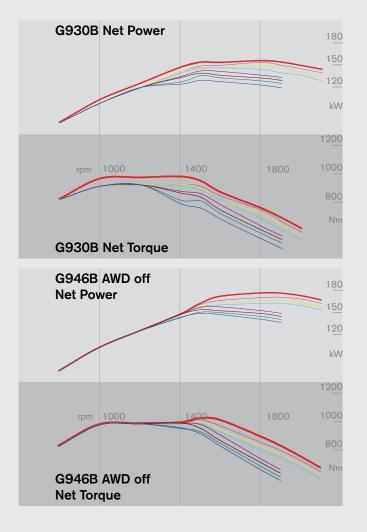
Analysis and diagnostics to help you understand how your machine is running, highlight potential maintenance issues and identify where performance can be improved.

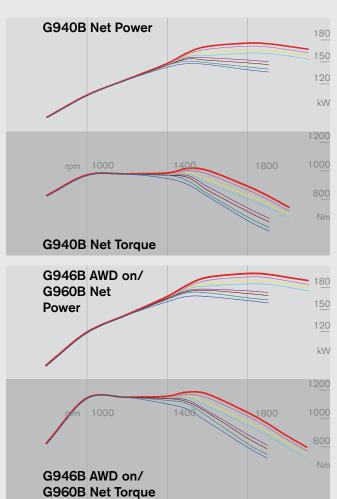
Eco Operator training courses can help your operators work towards a safer, more productive and fuel efficient performance.



# **VOLVO G930B, G940B, G946B, G960B IN DETAIL.**

		G930B	G940B	G946B	G960B
Base operating weight - approximate weights shown include end	closed low profile ca	b with ROPS, all ope	erating fluids, operator a	nd standard equipment	t.
Base - Total	kg	16 070	16 980	17 470	18 070
On front wheels	kg	4 500	4 750	4 890	5 060
On rear wheels	kg	11 570	12 230	12 580	13 010
Maximum combined capacity	kg	21 300	21 319	21 172	21 863
Maximum weight - front	kg	7 575	7 575	7 575	7 575
Maximum weight - rear	kg	14 243	14 243	14 243	14 288
Note that adding weight and attachments to the base grader may	necessitate a tire u	pgrade as maximum	weight capacity of tire	may be exceeded.	
Productivity (Standard equipment)					
Blade pull at base weight (0.9 traction co-efficient)	kg	10 413	11 007	15 177	11 709
Blade pull at max. base weight (0.9 traction co-efficient)	kg	12 819	12 819	16 674	12 859
Blade down force capability	kg	7 839	8 218	8 460	8 754
Blade down force is the maximum downward force which may be	applied at the cuttin	g edge.			
Engine data					
Model	Volvo	D8HGBE4	D8HGBE4	D8HGAE4	D8HGAE4
Turbocharged, aftercooled with replaceable wet-type cylinder liner	S.				
No. of cylinders	In Line	6	6	6	6
Bore & stroke	mm	110 x 136	110 x 136	110 x 136	110 x 136
Displacement	1	7,8	7,8	7,8	7,8
Engine certified to US EPA Tier 4i/EU Stage IIIB exhaust emissio	n standards.				
Electrical system					
	volt	24	24	24	24
	watt	2 640	2 640	2 640	2 640
Alternator	amp	120	120	120	120
Batteries (two 12 volt) maintenance free, heavy duty	CCA	760	760	1 125	760
1 125 CCA or 1 570 CCA batteries available optionally.					





		<b>G</b> 930E	3		G940B	;	G9	46B AW	D off	<b>G</b> 960	B/G946E	AWD on
	Net engi	ne power	Net peak torque	Net engi	ne power	Net peak torque	Net engin	e power	Net peak torque	Net engi	ne power	Net peak torque
	kW	hp	N.m	kW	hp	N.m	kW	hp	N.m	kW	hp	N.m
3 Range engine power control (8 sp	eed trans	mission)										
Base range power - (F1-F2)	119	162	597	146	199	990	146	199	990	167	227	1 123
Mid range power - (F3 - F5)	141	192	950	154	209	990	154	209	990	176	239	1 123
High range power - (F6 - F8)	155	211	995	173	235	1 021	173	235	1 021	197	268	1 151
8 Range engine power control (11 s	peed trans	smission)	)									
Power Range for F1-F4	119	162	597	146	199	990	146	199	990	167	227	1 123
Power Range for F5	135	184	950	149	203	990	149	203	990	171	232	1 123
Power Range for F6	138	188	950	152	207	990	152	207	990	175	238	1 136
Power Range for F7	141	192	950	154	209	990	154	209	990	176	239	1 136
Power Range for F8	145	197	945	160	218	991	160	218	991	183	249	1 126
Power Range for F9	149	203	955	164	223	1 001	164	223	1 001	187	254	1 131
Power Range for F10	153	208	955	170	231	1 011	170	231	1 011	193	262	1 141
Power Range for F11	155	211	995	173	235	1 021	173	235	1 021	197	268	1 151
Engine de-rating at 3 000 m altitude		None			None			4%			4%	
Rated net horsepower SAE J1349/ISC	9249											

#### Transmission

Fully sequential, direct drive, Volvo powershift transmission. Engine cannot be started if transmission is in gear. Single lever electronic transmission controller provides self-diagnostics and overspeed protection. Optional HTE1160S has automatic shifting and travel mode as standard equipment.

Approximate values - ground speeds may vary based upon tire brand

Transmission	HTE8405	8-Speed		HTE1160S	11-Speed
Tire Size	14:00	17.5		14:00	17.5
Gear @ RPM	km/h	km/h	Gear @ RPM	km/h	km/h
F1 @ 2 100	4.1	4.1	F1 @ 2 100	3.2	3.2
F2 @ 2 100	5.8	5.7	F2 @ 2 100	4.2	4.1
F3 @ 2 100	8.1	8.0	F3 @ 2 100	5.6	5.5
F4 @ 2 100	11.3	11.1	F4 @ 2 100	7.2	7.1
F5 @ 2 100	16.0	15.8	F5 @ 2 100	9.4	9.3
F6 @ 2 100	22.4	22.1	F6 @ 2 100	12.2	12.2
F7 @ 2 100	31.4	31.0	F7 @ 2 100	16.2	16.0
F8 @ 2 100	43.8	43.3	F8 @ 2 100	21.6	21.4
			F9 @ 2 100	28.1	27.7
			F10 @ 2 100	36.8	36.5
			F11 @ 2 100	47.6	47.0
R1 @ 2 100	4.1	4.0	R1 @ 2 100	3.2	3.1
R2 @ 2 100	7.9	7.8	R2 @ 2 100	5.5	5.4
R3 @ 2 100	15.8	15.6	R3 @ 2 100	9.3	9.2
R4 @ 2 100	30.9	30.5	R4 @ 2 100	12.3	12.2
			R5 @ 2 100	21.3	21.0
			R6 @ 2 100	36.2	35.7

Transmission Gear					
<b>Engine Power Range</b>	Volvo H	TE840S	Volvo	HTE1160	s
Base Range	F1, F2	R1	1st Range	F1 - F4	R1
Mid Range	F3 - F5	R2, R3	2nd Range	F5	R2
High Range	F6 - F8	R4	3rd Range	F6	R3
			4th Range	F7	R4
			5th Range	F8	R5
			6th Range	F9	R6
			7th Range	F10	
			8th Range	F11	

Note: For additional fuel savings, the RPM's can be capped at 1 900 rpm in gears F1-F5 (11 spd) and F1-F2 (8 spd) through VCADS

### SPECIFICATIONS.

		G930B	G940B	G946B	G960B
l'andems					
Depth	mm	226.5	226.5	226.5	226.5
Height	mm	616	616	616	616
Thickness					
inner wall	mm	25	25	25	25
outer wall	mm	20	20	20	20
Center distance	mm	1 550	1 550	1 550	1 550
Drive chain pitch	mm	51	51	51	51
Oscillation	degrees ±	15°	15°	15°	15°
Differential / Final drive					
Model	Volvo	24197	24197	24197	APR70
Planetary final reduction with an operator controlled wet multiple disc lock	unlock differential.				
Wheels & tires (Standard equipment)					
Tire size		14:00 x 24, G-2			
Ply rating (PR)		12	12	12	12
Rim size	mm	223	223	254	254
	One piece rim	•	•		•
	Three piece rim			•	
Bolt-on rims interchangeable between front and rear		Yes	Yes	No	Yes
Front axle and articulation					
Wheel lean	degrees R & L	18°	18°	18°	18°
Oscillation	degrees up & down	16°	16°	16°	16°
Ground clearance	mm	610	610	610	610
Minimum turning radius using front axle steering, articulation, wheel lean and unlocked differential	mm	7 265	7 265	7 265	7 265
Steering arc	degrees	50°	50°	50°	50°
Frame articulation angle	degrees	23°	23°	23°	23°
Anti-drift lock valve ensures stable operation. Articulation lock standard.					

Anti-drift lock valve ensures stable operation. Articulation lock standard.

Hydrostatic power steering of front wheels incorporating two steering cylinders. Meets SAE J1511 FEB. 94, ISO 5010:1992, EN12643:1997 with optional secondary steering.

#### Brakes

Service Brakes: Foot operated

Fade resistant, hydraulically actuated, wet multiple disc service brakes located at the 4 tandem drive wheels are fully sealed and maintenance free. System features crossover dual braking circuits for uniform braking on both sides of the grader. Includes reserve power assist and operator warning system (visual and audible).

Parking Brake

Spring applied hydraulically released enclosed wet multiple disc type parking brake in final drive. Effective on all 4 tandem drive wheels. Transmission cannot be engaged with park brake on.

Braking systems comply to SAE J/EN ISO 3450:1996.

Volvo uses asbestos free brake components.

		G930B	G940B	G946B	G960B
ont Frame					
Minimum dimensions of box section	mm	265 x 340	265 x 340	265 x 340	265 x 340
Plate thickness sides, top & bottom	mm	20	20	20	25 & 30
Vertical section modulus at arch	cm3	1 950	1 950	2 671	2 671
minimum	cm3	1 663	1 663	2 256	2 256
maximum	cm3	3 474	3 474	4 652	4 652
ear Frame – Full perimeter type					
Minimum dimensions of side rail	mm	254 x 100	254 x 100	254 x 100	305 x 100
Side plate thickness	mm	9.6	12.7	12.7	25.4
oldboard					
Standard moldboard with replaceable end bits	mm	22 x 635 x 3 658	22 x 635 x 3 658	22 x 635 x 3 658	22 x 635 x 3 65
Moldboard material		SAE 1050	SAE 1050	SAE 1050	SAE 1050
	high carbon steel	•	•	•	•
Edge: through hardened	mm	152 x 16	152 x 16	152 x 16	152 x 16
	boron steel	•	•	•	•
Bolt spacing	mm	152	152	152	152
Bolt size	mm	16	16	16	16
Slide rails supported by Duramide™ bearings		Yes	Yes	Yes	Yes
oldboard range: Moveable Blade Control Syster	n (Dimensions shown with	standard 14:00 tires a	and moldboard)		
	Left/Right	•	•	•	•
Reach outside tires - articulated frame	mm	3 048/3 035	3 048/3 035	3 048/3 035	3 048/3 035
Reach outside tires - straight frame	mm	2 020/2 010	2 020/2 010	2 020/2 010	2 020/2 010
Moldboard slide	mm	673/673	673/673	673/673	673/673
Circle side shift	mm	775/749	775/749	775/749	775/749
Maximum bank sloping angle, left - right	degrees	90°/90°	90°/90°	90°/90°	90°/90°
7 Position Blade Control system linkage	YES	•	•	•	•
Moldboard ground clearance	mm	445	445	445	445
Moldboard cutting depth	mm	790	790	790	790
Moldboard tilt range	degrees forward	47°	47°	45°	45°
	degrees back	5°	6°	6°	6°

### SPECIFICATIONS.

		G930B	G940B	G946B	G960B
Circle					
Pitch diameter	mm	1 626	1 626	1 626	1 626
Thickness	mm	32	32	32	32
Adjustable circle wear plates - standard / optional		3/5	3/5	3/5	3/5
Duramide <sup>™</sup> wear plates prevents metal-to-metal contact and provides maximum service	life.				
Circle drive					
The Volvo dual gear Circle Drive System uses direct acting hydraulic power for exceptional turning and holding capability under full load. Circle Drive System uses two hardened drive pinions and is protected against impact damage by an overload relief valve as standard equipment.					

360 360 360 360 Rotation degrees Drawbar Dimensions of box section 165 x 165 165 x 165 165 x 165 165 x 165 mm Plate thickness 25 & 19 25 & 19 25 & 19 25 & 19 mm Cab & controls High profile cab with ROPS/FOPS Interior height 1 855 mm 1 855 1 855 1 855 Low profile cab with ROPS/FOPS Interior height 1 620 1 620 1 620 1 620 mm

All Volvo Grader cabs and canopies are designed to meet or exceed EN/ISO 3471:2008 and EN/ISO 3449:2008 Level 2 FOPS requirements.

The retractable seatbelt is 76 mm (3") wide and meets SAE J386 NOV. 97 and EN ISO 6683:1999. Industry standardized control lever arrangement.

Interior operator noise levels average 72 dB(A) per ISO 6394:1998 (enclosed cab).

#### **Hydraulics**

Circuit type: Closed center, load sense Proportional Demand Flow (PDF) Hydraulic System, with O-ring face seal hose connections.

Main hydraulic pump type	Axial piston type	•	•	•	•
Maximum pressure	Bar	207	207	207	207
Output at 2100 rpm	lpm	208	208	208	208
Stand by pressure	Bar	24	24	24	24

#### Hydraulic fan drive pump

Separate axial piston pump dedicated to the variable speed cooling fan.

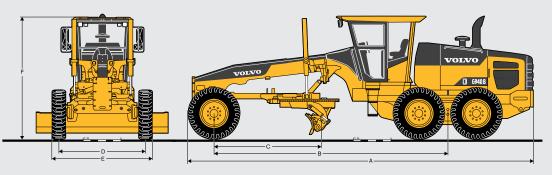
		00000	00.400	00.400	00000
		G930B	G940B	G946B	G960B
Capacities					
Fuel tank	1	340	400	400	400
Transmission	1	61	61	61	61
Final drive	1	22.7	22.7	22.7	22.7
Tandems (each)	1	134	134	134	134
Hydraulic oil tank	1	91	91	144	91
Coolant antifreeze protection to -50° C (-58° F) approx	1	31	31	34	34
Engine oil	1	21.5	21.5	21.5	21.5
Attachments (Optional unless otherwise stated as standa	rd equipmen	t)			
Push Block	kg	515	515	515	515
Ripper includes rear frame arch support and links	kg	1 495	1 495	1 495	1 495
Mid Mount Scarifier	kg	905	905	_	905
Front Mount Scarifier	kg	715	715	715	715
Dozer: 2,4 m	kg	1 080	1 080	1 080	1 080
Dozer: 2,7 m	kg	1 140	1 140	1 140	1 140
All Wheel Drive					
Maximum operating pressure	Bar	-	_	345	_
Minimum operating pressure	Bar	_	_	34	_
Top speed with AWD engaged	km/h	-	_	~ 30	_
Maximum rim pull	kg	_	_	3 855	_

When equipped with the HTE840S transmission, the Volvo high torque All Wheel Drive System operates in forward gears 1-7 and reverse gears 1-4.

When equipped with the HTE1160S transmission, the Volvo high torque All Wheel Drive System operates in forward gears 1-10 and reverse gears 1-6.

System provides the operator with the ability to fine grade in Creep Mode using only hydrostatic front wheel drive, between 0 - 4 km/h (0 - 2.5 mph).

Dimensions (All dimen	sions are approximate)		G930B	G940B	G946B	G960B
А		mm	8 930	9 150	9 150	9 150
В		mm	6 280	6 280	6 280	6 280
С		mm	2 675	2 650	2 650	2 650
D		mm	2 076	2 076	2 076	2 076
Е	14:00 STD	mm	2 537	2 537	2 537	2 537
	17.5	mm	2 717	2 717	2 717	2 717
F		mm	3 225	3 225	3 225	3 225



Legen	Legend						
А	Overall length						
В	Wheelbase						
С	Bladebase per ISO 7134						
D	Width - Front tire center lines						
Е	Width - Outside tires						
F	Overall height with Low Profile Cab add 217 mm for full height cab						

# **EQUIPMENT.**

#### STANDARD EQUIPMENT

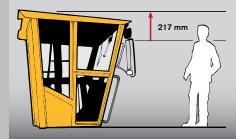
STANDARD EQUIPMENT				
	G930B	G940B	G946B	G960B
Safety				
Dual brake crossover circuit and reserve power assist	•	•	•	•
ROPS/ FOPS protected cab	•	•	•	•
Hazard lights	•	•	•	•
Horn	•	•	•	•
Left and right outside dual rear view mirrors	•	•	•	•
Retractable 3-inch safety belt	•	•	•	•
Front windshield wiper and washer	•	•	•	•
Handrails on steps and platforms	•	•	•	•
Comfort				
Independently adjustable pedestal and steering wheel with controls	•	•	•	•
Cab heater - 50,000 BTU with cab pressurizer and replaceable filters, 10 outlets	•	•	•	•
Overhead console for radio	•	•	•	•
Tinted glass	•	•	•	•
Cup holder / Tray for small items or lunch box	•	•	•	•
Ashtray	•	•	•	•
Space for lunch cooler	•	•	•	•
Overhead storage compartment	•	•	•	•
Engine				
Direct injected, electronically controlled	•	•	•	•
Turbocharged, intercooled	•	•	•	•
Remote oil drain	•	•	•	•
Cold start preheater	•	•	•	•
Electrical system				
Cab mounted headlights with dimmer switch (N/A on CE units)	•	•	•	•
Backup alarm 112 dB(A)	•	•	•	•
2 640 watt (120 amp) alternator	•	•	•	•
Battery disconnect switch	•	•	•	•
Extra 24 V socket	•	•	•	•
Lights				
Headlights	•	•	•	•
Parking lights	•	•	•	•
Direction indicators	•	•	•	
Rear lights	•	•	•	•
Back-up lights	•	•	•	
Brake lights	•	•	•	•

	G930B	G940B	G946B	G960B
Operator information interface				
Gauges for coolant temperature, oil pressure and fuel level	•	•	•	•
Speedometer	•	•	•	•
Tachometer	•	•	•	•
Warning lights grouped and easy to re	ead			
Central warning (3 levels) for all vital functions	•	•	•	•
Central positioned information display				
Automatic pre-start checks	•	•	•	•
Troubleshooting diagnostics	•	•	•	•
Hour meter	•	•	•	•
Clock	•	•	•	•
Drivetrain				
Rear axle, operator controlled, lock/ unlock differential with planetary final reduction	•	•	•	•
Electronic hand throttle with RPM hold and resume functions	•	•	•	•
Direct drive, power shift Volvo HTE840S transmission with 8 forward and 4 reverse gears	•	•	•	•
Single transmission control lever, with electronic over speed protection, advanced memory shift and park posi- tion lockout with hinged transmission guard	•	•	•	•
Direct Forward to Reverse shuttle shift capability without using the Inching pedal	•	•	•	•
Brakes				
4 wheel wet disc braking system with crossover dual circuits and reserve power assist	•	•	•	•
Spring applied wet multiple disc park brake with operator warning alarm and indicator	•	•	•	•
Other				
Tool box	•	•	•	•

OPTIONAL EQUIPMENT				
	G930B	G940B	G946B	G960B
Comfort				
Rear view camera (standard with CE specs)	٠	٠	٠	٠
Sliding side windows	•	•	•	•
Opening front lower windows	٠	٠	٠	•
Sun visor	•	•	•	•
Adjustable air suspended seat	•	٠	٠	•
Air conditioner - 35,000 BTU • HFC- 134a (non-CFC refrigerant) with cab heater	•	•	•	•
Drivetrain				
Autoshift transmission	•	•	•	•
Volvo HTE1160S Transmission - 11 speeds forward 6 speeds reverse includes Autoshift				
Reversible cooling fan - manual or automatic modes	•	•	•	•
Electrical System				
Moldboards work lights - 2 or 4	•	•	•	ē
Rear work lights - 2 or 4	•	•	•	•
LED tail lights	•	•	•	•
Corner cab work lights - left or right - 2	•	•	•	•
Rear and front lower windows wipers/ washers	•	•	•	•
Intermitent function for all specified wipers	•	•	•	•
24 volt to 12 volt converter - 600 or 1440 watt (30 or 60 amp) with power	•	•	•	•
Productivity				
Heavy duty circle support system	٠	•	٠	•
Metallic lower moldboard slide bearing	•	•	•	•
Belly protection plate	•	•	•	•
Front fenders/lean and steer with front wheels - plastic	٠	٠	٠	•
Rear fenders - oscillate with tandem	٠	•	٠	•
Tires 17.5 x 25	•	•	•	•
Moldboard 3962 x 635 x 22 mm	٠	•	٠	•
Moldboard 4267 x 635 x 22 mm	•	•	•	•
Hydraulics and controls				
Joystick controls with steering wheel	•	٠	٠	•
Blade Lift Float Control	•	•	•	•
Front attachment float control  Up to 5 additional hydraulic circuits for	•	•	•	•
attachments Secondary steering (power assisted) -				
standard with CE specs				
Radio with CD player  Other	•	·	•	•
First user lifetime frame warranty – includes articulation pins and bearings	•	•	•	•
Low ambient fluids for extreme cold conditions below -10° C	•	•	•	•
Sound reduction packages (Standard with CE kit)				
Rear licence plate bracket				•
Air compressor - engine driven with tank capable of operating hand tools				
Volvo CareTrack - remote monitoring system				•

#### SELECTION OF VOLVO OPTIONAL EQUIPMENT

High Cab



Mudguards



Radio with CD player



Reversible cooling fan



Air compressor



Blade lift acumulator



### **VOLVO CONSTRUCTION EQUIPMENT**



**VOLVO** 

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