

Patria

Vammas
Motor Graders

RG 281

RG 286



RG 281

R G 2 8 1

RG 286

R G 2 8 6

Power, speed, accuracy and agility

VAMMAS motor graders are the most advanced compact motor graders for construction, road building and maintenance. Patria Vamma has been a leading manufacturer of motor graders for the past 50 years.

The Vamma motor grader is superbly designed, with advanced control systems for demanding applications and ready to utilize a large number of different attachments. The VAMMAS cab is ROPS tested and provides unsurpassed visibility of the work. All the driveline, hydraulic and electric components are supplied by globally known suppliers, ensuring excellent reliability and service.

The VAMMAS RG 281 is a 4-wheel rear drive unit, The VAMMAS RG 286 a 6-wheel drive unit for applications where more traction is needed. In most other respects these two units are identical.

Massive torque for earthmoving

The unit is powered by a modern low emission electric controlled Cummins 209 kW (280 hp) engine. The heavy duty transmission, ZF 6 WG 210, with torque converter, automatic lock-up and automatic gear-shift delivers constant high torque at speeds from 0 to 50 km/h with only 6 forward + 3 reverse gears. The rear tandem is designed for continuous high speeds and loads by utilizing only gears with bearings and large disc brakes.

Drawbar, circle and moldboard designed for durability and accuracy

The Vamma motor grader has a unique Vamma system where circle rotation is only with hydraulic cylinders. Vamma offers for the blade either lock valves or floating systems, including VAMMAS Super Floating.

Cab for operator comfort

The Vamma RG 281 and RG 286 cab has a large tinted window area and other areas fully upholstered for insulation and sound-suppression. The main functions are by electric joysticks for accurate handling. The joysticks are either for 2-hand operations or for right hand operations.



Technical specifications	RG 281	RG 286
Weight		
Weight (with extra weight 1 500 kg)	19 000 kg	19 500 kg
Rear axle weight	13 100 kg	13 100 kg
Front axle weight	5 900 kg	6 400 kg
Blade pressure	10 000 kg	11 300 kg
Dimensions		
Turning radius outer wheel	6.9 m	7.2 m
Total transportation length	8 615 mm	8 855 mm
Total transportation width	2 550 mm	2 550 mm
Total transportation height	3 360 mm	3 360 mm
Engine	Cummins QSC8,3-C260, 8.3 liter, Tier 3 209 kW/33.3 r/s,(280 hp, 2000 r/min)	Cummins QSC8,3-C260, 8.3 liter, Tier 3 209 kW/33.3 r/s,(280 hp, 2000 r/min)
Max torque	1180 Nm, 20-23.3 r/s	1180 Nm, 20-23.3 r/s
Alternator	100 A 28 V (2800 W)	100 A 28 V (2800 W)
Transmission	ZF 6 WG 210 Torque converter with lock-up	ZF 6 WG 210 Torque converter with lock-up
Max speed	49.5 km/h	49.5 km/h Max speed with 6 WD engaged 30 km/h.
Front axle		
Heavy-duty axle, oscillation	±15°	±15°
Wheel leaning	±18° (optional axle)	±18° (standard)
Rear axle – Tandems	Full floating, gear driven.	Full floating, gear driven.
Differential	100 % lock	100 % lock
Brakes	Hydraulic 2-circuit dry disc brakes Parking brake is also automatic emergency brake	Hydraulic 2-circuit dry disc brakes Parking brake is also automatic emergency brake
Fuel tank	Volume 410 l, with water drain	Fitted with water drain, total volume 410 l
Hydraulic system	Axial piston pump 75 cc/rev Constant pressure with hydrostatic control levers	Axial piston pump 75 cc/rev Constant pressure with hydrostatic control levers Hydraulic driven front wheels
Steering	Hydrostatic wheel and articulated frame steering	Hydrostatic wheel and articulated frame steering
Steering angle, frame articulation	Full ± 35°	Full ± 35°
Steering angle, wheel steering	Full ± 50°	Full ± 40°
Tyres	17.5 R25 RADIAL PR 16	17.5 R25 RADIAL PR 16
Moldboard	3 930 x 600-760 x 25 mm or 3 620 x 600-760 x 25 mm	3 930 x 600-760 x 25 mm or 3 620 x 600-760 x 25 mm
Blade range	Lateral reach outside wheels 2 650 mm	Lateral reach outside wheels 2 650 mm
Max blade position angle	R.h. upwards 62°	R.h. upwards 62°
Max blade position angle	R.h. downwards 29°	R.h. downwards 29°
Max lift above ground	650 mm	650 mm
Hydraulic blade tip	40°...110°	40°...110°
Circle – drawbar	Circle drive with two cylinders Overload valves	Circle drive with two cylinders Overload valves
Cab	ROPS tested Low noise level, meets EEC standards	ROPS tested Low noise level, meets EEC standards



OPTIONS

O P T I O N S

Optional equipment for VAMMAS motor graders

VAMMAS RG-series graders have a large number of build-in options and add-on attachments. All attachments at front, rear or side of the unit can be operated from the cab from factory installed controls. Most attachments can be installed quickly on existing units on field.

- additional hydraulic ports at rear, side or front of the machine with controls in the cab
- VAMMAS Super Floating System for lift cylinders, independently adjustable on both sides
- blade length and profile selection for various applications, blades from 3.6 to 4.5 meters, dozer blades from 2.7 to 3.0 meters, all with various cutting edge locking mechanisms
- front wheel lean
- dozer blade attachment system with turn, tilt and inclination
- heavy-duty rear ripper, adjustable number of shanks
- freon free air-conditioning with thermostatic control
- central lubrication system to minimize maintenance time
- automatic adjustable blade control to maintain the blade angles from absolute horizontal minimizing the need for surveying
- laser control system to maintain the blade height from preset laser level at work site
- wide range of tire patterns for summer and winter construction and road maintenance work
- selection of radio and multimedia systems including rear view camera
- auxiliary heating systems for cab, engine and hydraulics
- rear windrow spreader for spreading graded material evenly back to the surface
- windrow stop / snow stop to hold material temporarily on the blade rather than discharging it.

Several other options, please ask for complete list and specifications.



CUSTOMER SERVICE

C U S T O M E R S E R V I C E

Patria Vammas and its local dealer network offer complete pre- and aftermarket support including training, service and parts.

All Vammas motor graders are designed for long service life and are backed up by VAMMAS Customer Service. The service concept is based on local factory trained support with quick response - in the local language.

The VAMMAS dealer network fully supports all VAMMAS motor graders but also provides OEM support for various other brands of motor graders such as Lokomo, Lännen and Mattson.

Customer Service also offers re-building, overhauling, exchange components, service contracts, maintenance and operator training and trading of used equipment. This is part of Patria's commitment to complete lifetime support for its products.

VAMMAS Customer Support provides the documentation for the motor graders in most languages in printed and electronic format.

Please visit www.patria.fi for more information and inquiries and to see what pre-owned equipment is available.



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