



312GR / 316GR SPECIFICATIONS

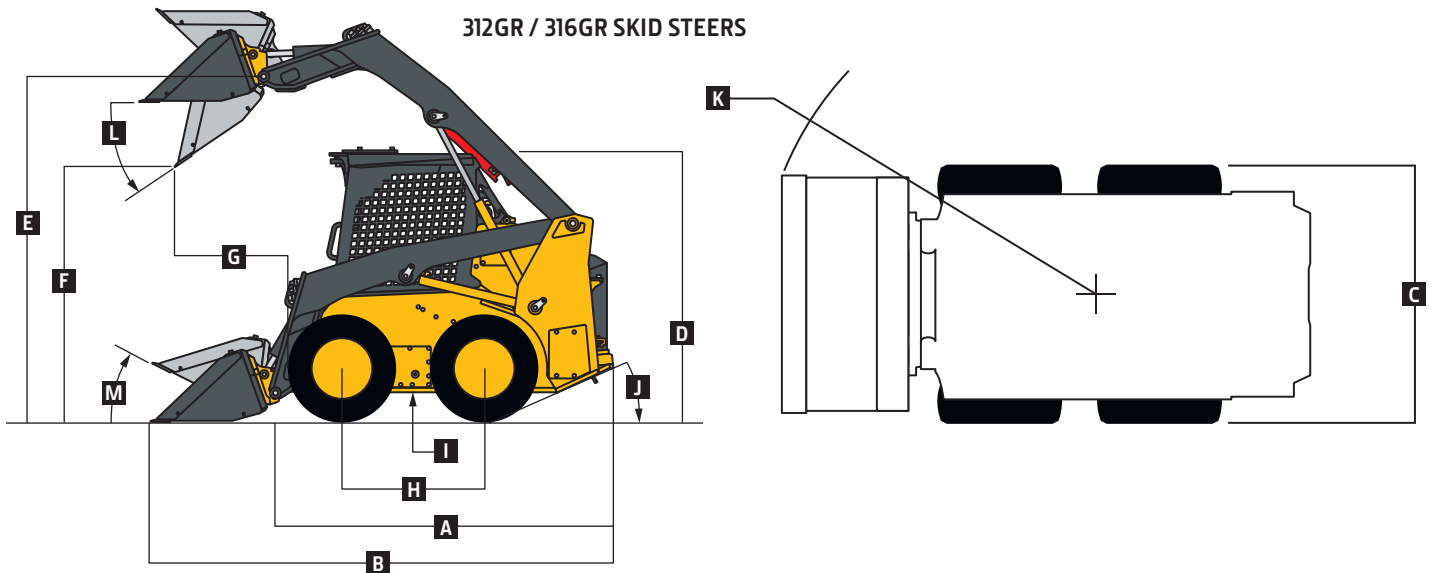
Engine	312GR	316GR
Manufacturer and Model	Yanmar 4TNV86CT	Yanmar 4TNV86CT
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV	EPA Final Tier 4/EU Stage IV
Cylinders	4	4
Net Power (SAE J1349 / ISO 9249)	35.8 kW (48 hp) at 2,600 rpm	45.6 kW (61 hp) at 2,600 rpm
Gross Rated Power (ISO 14396)	37.8 kW (51 hp) at 2,600 rpm	48.5 kW (65 hp) at 2,600 rpm
Peak Torque	168 Nm (124 ft.-lb.) at 1,690 rpm	207 Nm (153 ft.-lb.) at 1,690 rpm
Displacement	2.1 L (128 cu. in.)	2.1 L (128 cu. in.)
Rated Engine Speed	2,600 rpm	2,600 rpm
Torque Rise	21% at 1,690 rpm	21% at 1,690 rpm
Aspiration	Turbocharged	Turbocharged
Air Cleaner	Dry dual element	Dry dual element
Cooling	312GR / 316GR	
Fan Type	Direct belt drive	
Powertrain	312GR	316GR
Type	Hydrostatic-manual or electrohydraulic (EH); 4 – 80 heavy-duty (HD) continuous-loop chain	
Speeds		
Single	10.8 km/h (6.7 mph)	11.1 km/h (6.9 mph)
2 Speed, High	—	16.3 km/h (10.1 mph)
Axles	Induction-hardened, one-piece forged axle shafts with maintenance-free oil-bath lubrication of inner and outer axle bearings	
Maximum Axle Torque	4664 Nm (3,440 lb.-ft.)	6459 Nm (4,764 lb.-ft.)
Tractive Effort	2565 kgf (5,655 lbf)	3552 kgf (7,831 lbf)
Final Drive	High-strength, adjustment-free chains	
Brakes	Integral, automatic, spring-applied, hydraulically released, wet-disc park brake	
Hydraulics		
Pump Flow, Standard	63 L/m (17 gpm)	63 L/m (17 gpm)
System Pressure at Couplers	22 408 kPa (3,250 psi)	23 787 kPa (3,450 psi)
Hydraulic Horsepower Flow (calculated), Standard	23 kW (31 hp)	25 kW (33 hp)
Auxiliary Hydraulics	With flat-faced couplers	Optional connect-under-pressure with flat-faced couplers
Cylinders	312GR / 316GR	
Type	John Deere heat-treated, chrome-plated polished cylinder rods, hardened steel (replaceable bushings) pivot pins	
Electrical	312GR	316GR
Voltage	12 volt	12 volt
Battery Capacity	750 CCA standard / 925 CCA with optional cold weather start package	750 CCA standard / 925 CCA with optional cold weather start package
Alternator Rating	70 amp	70 amp with no air conditioning (A/C) / 90 amp with A/C
Lights		
Standard	Halogen: 2 front and 1 rear	Halogen: 2 front and 1 rear
Deluxe	—	LED: 2 front, 2 side, and 1 rear
Operator's Station	312GR / 316GR	
	ROPS (ISO 3471) / FOPS (ISO 3449) structure with quick pivot standard	
Tires/Wheels		
Standard Tire Size	10 x 16.5	
Serviceability		
Refill Capacity		
Fuel Tank	71 L (19 gal.)	
Operating Weights	312GR	316GR
Base Machine	2680 kg (5,905 lb.)	2806 kg (6,180 lb.)

While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries.

312G R / 316G R SPECIFICATIONS



Machine Dimensions	312GR / 316GR
A Length Without Bucket	2.63 m (103.0 in.) (8 ft. 7 in.)
B Length With Foundry Bucket	3.24 m (127.6 in.) (10 ft. 8 in.)
C Width Without Bucket	1.60 m (62.9 in.) (5 ft. 3 in.)
D Height to Top of ROPS	1.96 m (77.2 in.) (6 ft. 5 in.)
E Height to Hinge Pin	2.92 m (115.1 in.) (9 ft. 7 in.)
F Dump Height With Foundry Bucket	2.25 m (88.6 in.) (7 ft. 5 in.)
G Dump Reach	
With Foundry Bucket	0.40 m (15.8 in.)
With Construction Bucket	0.58 m (22.8 in.)
H Wheelbase	1.05 m (41.5 in.) (3 ft. 5 in.)
I Ground Clearance	0.18 m (7.0 in.)
J Angle of Departure	22.3 deg.
K Front Turn Radius With Foundry Bucket	2.01 m (79.0 in.) (6 ft. 7 in.)
L Dump Angle (full lift height)	45 deg.
M Bucket Rollback (ground level)	30 deg.



Loader Performance	312GR	316GR
Tipping Load	1407 kg (3,100 lb.)	1589 kg (3,500 lb.)
SAE Rated Operating Capacity	704 kg (1,550 lb.)	795 kg (1,750 lb.)
With Counterweight	772 kg (1,700 lb.)	863 kg (1,900 lb.)
Boom Breakout Force		
With Foundry Bucket	2043 kg (4,500 lb.)	2157 kg (4,750 lb.)
With Construction Bucket	1816 kg (4,000 lb.)	2043 kg (4,500 lb.)
Bucket Breakout Force		
With Foundry Bucket	2270 kg (5,000 lb.)	2384 kg (5,250 lb.)
With Construction Bucket	1680 kg (3,700 lb.)	1816 kg (4,000 lb.)

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