

## Jeep® Grand Cherokee

### TECHNICAL SPECIFICATIONS

All dimensions are expressed in millimetres unless otherwise indicated. The information is based on data available on the date of publication. The technical specifications are valid for Italy and may vary in other international markets.

#### GENERAL INFORMATION

Vehicle type	4-door sport-utility vehicle
Assembly plant	Jefferson North Assembly Plant (JNAP), Detroit, USA
EPA vehicle class	Multi-purpose vehicle

#### 3.0-liter V-6 DOHC TURBODIESEL ENGINE

Availability	Laredo, Limited, Overland, Summit
Type and description	60-degree, 6 cylinders, V-type, liquid cooled
Displacement	2,987 cm <sup>3</sup>
Bore and stroke	83.0 × 92.0
Valve system	Chain-driven DOHC, four valves per cylinder
Injection	Electronic direct injection, 1,800-bar common-rail, MultiJet II technology
Engine	Cast-iron block, aluminium cylinder heads
Compression ratio	15.5:1
Power	250 HP DIN (184 kW) at 4,000 rpm 190 HP (140 kW) at 4,000 rpm (low-output version)
Torque	570 Nm at 2,000 rpm 440 Nm at 1,600/2,800 rpm (low-output version)
Maximum speed	4,800 rpm (electronically limited)
Fuel requirement	Diesel 10
Emission controls	Cast-iron exhaust manifolds, diesel oxidation catalyst and diesel particulate filter
Fuel consumption and emissions	7.5 litres/100 km (combined cycle) and 198 g/km of CO <sub>2</sub>
Assembly plant	VM Motori, Cento, Italy

#### 3.6-liter V-6 DOHC ENGINE

Availability	Laredo, Limited, Overland, Summit
Type and description	60-degree, V-type, liquid cooled
Displacement	3,604 cm <sup>3</sup>
Bore and stroke	96.0 × 83.0
Valve System	Chain-driven DOHC, 24 valves and hydraulic end-pivot roller rockers
Injection	Sequential, multi-port, electronic
Engine	Aluminium deep-skirt bloc, aluminium cylinder heads
Compression ratio	10.2:1
Power	286 HP DIN (210 kW) at 6,350 rpm
Torque	347 Nm at 4,300 rpm

Maximum speed	6,350 rpm (electronically limited)
Fuel requirement	Unleaded, 87 octane (R + M)/2
Emission controls	Dual three-way catalytic converters with heated oxygen sensors and internal engine features
Fuel consumption and emissions	10.4 litres/100 km (combined cycle) and 244 g/km of CO <sub>2</sub>
Assembly plant	Trenton South Engine Plant, Trenton, MI, USA

#### **5.7-liter V-8 ENGINE with MDS**

Availability	Summit and Overland
Type and description	90-degree, V-type, liquid cooled
Displacement	5,654 cm <sup>3</sup>
Bore and stroke	99.5 × 90.9
Valve System	Variable valve timing (VVT), pushrod-operated overhead valves, 16 valves, eight deactivating and eight conventional hydraulic lifters all with roller followers
Injection	Sequential, multi-port, electronic
Engine	Deep-skirt cast-iron block with cross-bolted main bearing caps, aluminum alloy heads with hemispherical combustion chambers
Compression ratio	10.5:1
Power	352 HP DIN (259 kW) at 5,200 rpm
Torque	520 Nm at 4,200 rpm
Maximum speed	5,800 rpm (electronically limited)
Fuel requirement	Recommended: unleaded mid-grade, 89 octane (R+M)/2, acceptable: unleaded regular, 87 octane (R+M)/2
Emission controls	Dual close-coupled three-way catalytic converters, quad heated oxygen sensors and internal engine features
Fuel consumption and emissions	13 litres/100 km (combined cycle) and 304 g/km of CO <sub>2</sub>
Assembly plant	Trenton South Engine Plant, Trenton, MI, USA

#### **6.4-liter HEMI V-8 ENGINE with FUEL SAVER TECHNOLOGY**

Availability	SRT
Type and description	90-degree V-type, liquid-cooled
Displacement	6,417 cc
Bore and stroke	103,9 x 94,5
Valve System	Pushrod-operated overhead valves, 16 valves with sodium-filled exhaust valves and hollow stem intake valves, 16 conventional hydraulic lifters, all with roller tips
Injection	Sequential, multi-port, electronic, returnless; automatic features Fuel Saver mode
Engine	Deep-skirt cast-iron block with cross-bolted main bearing caps, aluminum alloy heads with hemispherical combustion chambers
Compression ratio	10.9:1
Power	468 HP (344 kW) @ 6,250 rpm

Torque	624 Nm @ 4,100 rpm
Maximum speed	6,800 rpm (electronically limited))
Fuel requirement	Premium 91 octane (R+M)/2 — recommended
Emission controls	Dual close-coupled three-way catalytic converters, quad-heated oxygen sensors and internal engine features
Fuel consumption and emissions	14 litres/100 km (combined cycle) and 327 g/km of CO <sub>2</sub>
Assembly plant	Saltillo Engine Plant, Saltillo, Mexico
<b>TRANSMISSION: ZF AUTOMATIC, EIGHT-SPEED WITH OVERDRIVE</b>	
Availability	All engine options
Description	Automatic 8-speed with driver-interactive manual control via steering wheel paddle shifters and electronically-modulated torque converter clutch
Transmission ratios	
1st	4.71
2nd	3.14
3rd	2.10
4th	1.66
5th	1.28
6th	1.00
7th	0.83
8th	0.66
Reverse	3.29
<b>QUADRA-TRAC II TRANSFER CASE</b>	
Availability	Standard with 3.6-liter engine
Type	Two-speed, electronically shifted
Operating mode	Full-time AWD Low (Lock)
Low Range Ratio	2.72:1
Torque Split, Front/Rear	Variable
<b>QUADRA-DRIVE II TRANSFER CASE</b>	
Availability	Standard on Overland and Summit models (never with the 3.6-liter V-6 engine)
Type	Two-speed, electronically shifted
Operating mode	Full-time active 4x4, AWD Low (Lock) with rear Electronic Limited-Slip Differential (ELSD)
Low Range Ratio	2.72:1
Torque Split, Front/Rear	Variable
<b>QUADRA-TRAC TRANSFER CASE</b>	
Availability	Standard with 6.4-liter HEMI engine (SRT model only)
Type	Single-speed, On demand, electronic proportioning

Operating Mode	Full-time 4WD
Torque Split, Front/Rear	Variable – 40/60 Auto, 50/50 Snow and Tow, 35/65 Sport and 30/70 Track
<b>FRONT AXLE</b>	
Differential type	Conventional
Availability	Standard
Diameter	195 mm
<b>REAR AXLE</b>	
Differential type	Conventional
Availability	Standard with Quadra-Trac II
Axle ratios	3.45:1 – 3.6-liter engine
Differential type	Electronic Limited-slip Differential (ELSD)
Availability	Standard with Quadra-Drive II
Axle ratios	3.45:1 — 3.0-liter CRD engine; 3.09:1 — 5.7-litre engine; 3.70:1 — 6.4-litre engine
<b>DIMENSIONS AND CAPACITIES</b>	
Wheelbase	2,915 (2,914 SRT)
Front track	1,628 (1,618 SRT)
Rear track	1,634 (1,633 SRT)
Overall length	4,828/4,875 Summit/4,846 SRT
Body width (without mirrors)	1,943 (1,954 SRT)
Overall height (at top of antenna)	1,802 – with mechanical suspension/1,792 – with air suspension/1,749 SRT
Approach angle	26.3 degrees – with mechanical suspension; 35.8 degrees – with Quadra-Lift in Off-Road 2 and front air dam removed
Ramp breakover angle	18.8 degrees – with mechanical suspension; 23.5 degrees – with Quadra-Lift in Off-Road 2 and front air dam removed
Departure angle	26.5 degrees – with mechanical suspension; 29.5 degrees – with Quadra-Lift in Off-Road 2 and front air dam removed
Frontal area	2.88 m <sup>2</sup> (2.93 m <sup>2</sup> SRT)
Drag coefficient	0.371 (0.39 SRT)
Fuel Tank Capacity	93.5 litres
<b>ACCOMMODATIONS</b>	
Seats, front/rear	2/3
<u>Front seats</u>	
Headroom	1,013
Legroom	1,025
Shoulder room	1,491

Hip room	1,449
Seat travel	280
SAE volume	1.55 m <sup>3</sup>
<b>Rear seats</b>	
Headroom	995
Legroom	981
Shoulder room	1,474
Hip room	1,428
Knee clearance	110
SAE volume	1.4 m <sup>3</sup>
<b>Cargo volume</b>	
Behind Rear Seat (to the roof)	782 litres
Behind Front-row Seats with Rear Seats Folded (to the roof)	1,554 litres
<b>BODY/CHASSIS</b>	
Layout	Longitudinal front engine, 4-wheel drive
Chassis	Steel uniframe
<b>SUSPENSIONS</b>	
Front	Short - and long-arm independent (SLA), coil or air springs, gas-charged twin-tube shock absorbers, stabilizer bar
Rear	Multi-link independent rear suspension, coil springs with twin-tube or Nivomat shock absorbers or air springs with twin-tube shocks, aluminium lower control arm, independent upper links, rear stabilizer bar
<b>SRT SUSPENSIONS</b>	
Front	Short - and long-arm independent (SLA), coil springs, Bilstein Adaptive Damping Suspension (ADS), upper- and lower-control arms ("A" arms), stabilizer bar
Rear	Multi-link rear suspension, coil spring, Bilstein Adaptive Damping Suspension (ADS), aluminum lower control arm, independent upper links (tension and camber) plus a separate toe link, stabilizer bar
<b>WHEELS AND TIRES</b>	
Laredo: 18×8 (P265/60R18)	
Limited: 18×8 (P265/60R18) – optional: 20×8 (P265/50R20)	
Overland: 20×8 (P265/50R20)	
Summit: 20×8 (P265/50R20)	
SRT: 20×10 (P295/45ZR20)	
<b>WEIGHTS (kerb weight)</b>	
3.0-liter CRD	2,403 – 2,522
3.6-liter	2,266 – 2,354

5.7-liter	2,382 – 2,499			
6.4-liter	2,417 – 2,458			
TRAILER TOWING				
3.6-liter V-6	1,588/2,812 for Overland and Summit			
3.0-liter CRD	3,500/2,949 for Summit			
5.7-liter V-8	3,500/2,949 for Summit			
6.4-liter V-8	2,949			
PERFORMANCE				
	3.0-liter CRD Low output	3.0-liter CRD	3.6-liter	5.7-liter
Acc. 0–100 km/h	10.2 sec	8.2 sec	8.3 sec	7.3 sec
Top speed (km/h)	190	202	206	225 km/h - 210 km/h with 18"
Fuel consumption (l/100 km, EU-standard)				
Urban cycle	9,3	9.3	14.3	19.6
Extra-urban cycle	6,5	6.5	8.2	9.2
Combined cycle	7,5	7.5	10.4	13
CO <sub>2</sub> combined cycle (g/km)	198	198	244	304
Emissions class	Euro 5+	Euro 5+	Euro 6	Euro 6
SRT PERFORMANCE				
	6.4-liter HEMI			
Acc. 0–100 km/h	5 sec			
Top speed (km/h)	257			
Fuel consumption (l/100 km, EU-standard)				
Urban cycle	20,7			
Extra-urban cycle	10,1			
Combined cycle	14			
CO <sub>2</sub> combined cycle (g/km)	327			
Emissions class	Euro 6			

