



PORSCHE

2020 Porsche Models Technical Data	2020 911 Carrera S	2020 911 Carrera 4S
Engine		
Engine layout	Rear Engine	Rear Engine
Engine type	Boxer, twin-turbo	Boxer, twin-turbo
Cylinders	6	6
Valves per cylinder	4	4
Construction	Aluminum crankcase and heads	Aluminum crankcase and heads
Fuel injection	Direct Fuel Injection (DFI)	Direct Fuel Injection (DFI)
Fuel	Premium	Premium
Displacement (Liters)	3.0 l	3.0 l
Bore/Stroke (mm/mm)	91.0 mm / 76.4 mm	91.0 mm / 76.4 mm
Maximum power output @ engine speed	443 hp @ 6500	443 hp @ 6500
Maximum torque @ engine speed	390 lb.-ft. @ 2300-5000	390 lb.-ft. @ 2300-5000
Maximum engine speed	7500	7500
Compression ratio (tolerance +/- 0.3)	10.2 : 1	10.2 : 1
Output per liter	148 hp	148 hp
Lubrication	Integrated dry-sump	Integrated dry-sump
Power to weight ratio (lb/hp)	7.7	7.9
Drivetrain	Rear-wheel drive	Active all-wheel drive
Chassis & Suspension		
Body	Monocoque lightweight body in a combination of steel, aluminum, and magnesium	Monocoque lightweight body in a combination of steel, aluminum, and magnesium
Front Axle	MacPherson strut with anti-roll bar	MacPherson strut with anti-roll bar
Rear Axle	Aluminum multi-link with anti-roll bar	Aluminum multi-link with anti-roll bar
Steering System	Variable ratio electromec. power steering	Variable ratio electromec. power steering
Steering Ratio	15.0 : 1 (on-center) to 12.25 : 1	15.0 : 1 (on-center) to 12.25 : 1
Steering Ratio with rear-axle steering	14.1 : 1 (on-center) to 12.25 : 1	14.1 : 1 (on-center) to 12.25 : 1

Turning Circle	36.8 ft / 35.8 ft. (with rear axle steering)	36.8 ft / 35.8 ft. (with rear axle steering)
Brakes & Wheels		
Caliper type	Aluminum monobloc fixed-caliper brake	Aluminum monobloc fixed-caliper brake
Rotor material	Steel	Steel
Caliper color	Red	Red
Number of pistons (front/rear)	6 / 4	6 / 4
Rotor diameter (front/rear) mm	350 mm / 350 mm	350 mm / 350 mm
Rotor thickness (front/rear) mm	34 mm / 28 mm	34 mm / 28 mm
Caliper type (optional PCCB system)	Aluminum monobloc fixed-caliper brake	Aluminum monobloc fixed-caliper brake
Rotor material (optional PCCB system)	Carbon-ceramic composite	Carbon-ceramic composite
Caliper color (optional PCCB system)	Yellow	Yellow
Number of pistons (front/rear - optional PCCB system)	6 / 4	6 / 4
Rotor diameter (front/rear - optional PCCB system) mm	410 mm / 390 mm	410 mm / 390 mm
Rotor thickness (front/rear - optional PCCB system) mm	36 mm / 32 mm	36 mm / 32 mm
Standard wheels	20" / 21" Carrera S	20" / 21" Carrera S
Wheels (front/rear)	8.5J x 20" / 11.5J x 21"	8.5J x 20" / 11.5J x 21"
Tires (front/rear)	245/35 ZR 20 / 305/30 ZR 21	245/35 ZR 20 / 305/30 ZR 21
Transmission		
Number of gears	8	8
Transmission type	8-speed dual-clutch PDK	8-speed dual-clutch PDK
Ratios		
1st	4.89	4.89
2nd	3.17	3.17
3rd	2.15	2.15
4th	1.56	1.56
5th	1.18	1.18
6th	0.94	0.94
7th	0.76	0.76
8th	0.61	0.61
Reverse	3.99	3.99
Final drive ratio front axle	0	3.33
Rear Axle Ratio / rear constant transaxle ratio	3.39 / 0.92	3.39 / 0.92
Clutch 1/Clutch 2 diameter (inches)	8.7 / 6.6 inches (PDK)	8.7 / 6.6 inches (PDK)

Dimensions, Aerodynamics, & Weight		
Length with standard PASM Sport Suspension (inches/mm)	177.9 in. / 4519 mm	177.9 in. / 4519 mm
Length with optional PASM Sport Suspension (inches/mm)	178.4 in. / 4530 mm	178.4 in / 4530 mm
Wheelbase (inches/mm)	96.5 in. / 2450 mm	96.5 in. / 2450 mm
Width w/ mirrors (inches/mm)	79.7 in. / 2024 mm	79.7 in. / 2024 mm
Width w/o mirrors (inches/mm)	72.9 in. / 1852 mm	72.9 in. / 1852 mm
Height with standard PASM suspension (inches/mm)	51.2 in. / 1300 mm	51.2 in. / 1300 mm
Height with optional PASM Sport Suspension (inches/mm)	50.8 in. / 1291 mm	50.8 in. / 1291 mm
Track width front (inches/mm)	62.5 in. / 1589 mm	62.5 in. / 1589 mm
Track width rear (inches/mm)	61.2 in. / 1557 mm	61.2 in. / 1557 mm
Drag coefficient (Cd)	0.31	0.31
Cargo area volume (cu.-ft.) front trunk	132 l / 4.66 cu.-ft.	132 l / 4.66 cu.-ft.
Cargo area volume (cu.-ft.) rear seats	264 l / 9.32 cu.-ft.	264 l / 9.32 cu.-ft.
Fuel tank capacity - refill volume (gal)	16.9 gal.	17.6 gal.
Curb weight (lbs)	3382 lbs.	3487 lbs.
Gross Vehicle Weight (lbs)	4376 lbs.	4431 lbs.
Payload range (lbs)	994 lbs.	945 lbs.
Off-road (Cayenne/Macan)		
Ground Clearance (Sports Cars)		
Performance		
Top track speed PDK (mph)	191 mph	190 mph
Acceleration 0-60 PDK (sec)	3.5 sec.	3.4 sec.
Acceleration 0-60 PDK with Launch Control (sec)	3.3 sec.	3.2 sec.
Quarter mile time PDK (sec)	11.9 sec.	11.8 sec.
Quarter mile time PDK with Launch Control (sec)	11.7 sec.	11.6 sec.
Fuel Economy/Rating		
Rating	-	-
City	18 mpg	18 mpg
Highway	24 mpg	23 mpg
Combined	20 mpg	20 mpg



PORSCHE

2020 Porsche Models Technical Data	2020 911 Carrera S with manual transmission	2020 911 Carrera 4S with manual transmission
Engine		
Engine layout	Rear Engine	Rear Engine
Engine type	Boxer, twin-turbo	Boxer, twin-turbo
Cylinders	6	6
Valves per cylinder	4	4
Construction	Aluminum crankcase and heads	Aluminum crankcase and heads
Fuel injection	Direct Fuel Injection (DFI)	Direct Fuel Injection (DFI)
Fuel	Premium	Premium
Displacement (Liters)	3.0 l	3.0 l
Bore/Stroke (mm/mm)	91.0 mm / 76.4 mm	91.0 mm / 76.4 mm
Maximum power output @ engine speed	443 hp @ 6500	443 hp @ 6500
Maximum torque @ engine speed	390 lb.-ft. @ 2300-5000	390 lb.-ft. @ 2300-5000
Maximum engine speed	7500	7500
Compression ratio (tolerance +/- 0.3)	10.2 : 1	10.2 : 1
Output per liter	148 hp	148 hp
Lubrication	Integrated dry-sump	Integrated dry-sump
Power to weight ratio (lb/hp)	7.5	7.7
Drivetrain	Rear-wheel drive	Active all-wheel drive
Chassis & Suspension		
Body	Monocoque lightweight body in a combination of steel, aluminum, and magnesium	Monocoque lightweight body in a combination of steel, aluminum, and magnesium
Front Axle	MacPherson strut with anti-roll bar	MacPherson strut with anti-roll bar
Rear Axle	Aluminum multi-link with anti-roll bar	Aluminum multi-link with anti-roll bar
Steering System	Variable ratio electromec. power steering	Variable ratio electromec. power steering

Steering Ratio	15.0 : 1 (on-center) to 12.25 : 1	15.0 : 1 (on-center) to 12.25 : 1
Steering Ratio with rear-axle steering	14.1 : 1 (on-center) to 12.25 : 1	14.1 : 1 (on-center) to 12.25 : 1
Turning Circle	36.8 ft / 35.8 ft. (with rear axle steering)	36.8 ft / 35.8 ft. (with rear axle steering)
Brakes & Wheels		
Caliper type	Aluminum monobloc fixed-caliper brake	Aluminum monobloc fixed-caliper brake
Rotor material	Steel	Steel
Caliper color	Red	Red
Number of pistons (front/rear)	6 / 4	6 / 4
Rotor diameter (front/rear) mm	350 mm / 350 mm	350 mm / 350 mm
Rotor thickness (front/rear) mm	34 mm / 28 mm	34 mm / 28 mm
Caliper type (optional PCCB system)	Aluminum monobloc fixed-caliper brake	Aluminum monobloc fixed-caliper brake
Rotor material (optional PCCB system)	Carbon-ceramic composite	Carbon-ceramic composite
Caliper color (optional PCCB system)	Yellow	Yellow
Number of pistons (front/rear - optional PCCB system)	6 / 4	6 / 4
Rotor diameter (front/rear - optional PCCB system) mm	410 mm / 390 mm	410 mm / 390 mm
Rotor thickness (front/rear - optional PCCB system) mm	36 mm / 32 mm	36 mm / 32 mm
Standard wheels	20" / 21" Carrera S	20" / 21" Carrera S
Wheels (front/rear)	8.5J x 20" / 11.5J x 21"	8.5J x 20" / 11.5J x 21"
Tires (front/rear)	245/35 ZR 20 / 305/30 ZR 21	245/35 ZR 20 / 305/30 ZR 21
Transmission		
Number of gears	7	7
Transmission type	7-speed manual transmission	7-speed manual transmission
Ratios		
1st	3.91	3.91
2nd	2.29	2.29
3rd	1.58	1.58
4th	1.18	1.18
5th	0.94	0.94
6th	0.79	0.79
7th	0.62	0.62

Reverse	3.55	3.55
Final drive ratio front axle	0	3.333
Rear Axle Ratio	3.56	3.56
Clutch diameter (inches)	9.0 inches	9.0 inches
Dimensions, Aerodynamics, & Weight		
Length with standard PASM Sport Suspension (inches/mm)	177.9 in. / 4519 mm	177.9 in. / 4519 mm
Length with optional PASM Sport Suspension (inches/mm)	178.4 in. / 4530 mm	178.4 in. / 4530 mm
Wheelbase (inches/mm)	96.5 in. / 2450 mm	96.5 in. / 2450 mm
Width w/ mirrors (inches/mm)	79.7 in. / 2024 mm	79.7 in. / 2024 mm
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Height with standard PASM suspension (inches/mm)	51.2 in. / 1300 mm	51.2 in. / 1300 mm
Height with optional PASM Sport Suspension (inches/mm)	50.8 in. / 1291 mm	50.8 in. / 1291 mm
Track width front (inches/mm)	62.5 in. / 1589 mm	62.5 in. / 1589 mm
Track width rear (inches/mm)	61.2 in. / 1557 mm	61.2 in. / 1557 mm
Drag coefficient (Cd)	0.31	0.31
Cargo area volume (cu.-ft.) front trunk	132 l / 4.66 cu.-ft.	132 l / 4.66 cu.-ft.
Cargo area volume (cu.-ft.) rear seats	264 l / 9.32 cu.-ft.	264 l / 9.32 cu.-ft.
Fuel tank capacity - refill volume (gal)	16.9 gal.	17.6 gal.
Curb weight (lbs)	3298 lbs.	3402 lbs.
Performance		
Top track speed (mph)	191 mph	190 mph
Acceleration 0-60 mph (sec)	4.0 sec.	4.0 sec.
Fuel Economy/Rating		
Rating	Premium	Premium
City	17 mpg	17 mpg
Highway	25 mpg	24 mpg
Combined	20 mpg	20 mpg