IPG Carmaker - Porsche 911 70Kg passenger LHD

TIRE MODEL	245/35/R20

Passenger Position	
axis	in m
x	2.2
y	0.3
z	0.6
weight	80kg
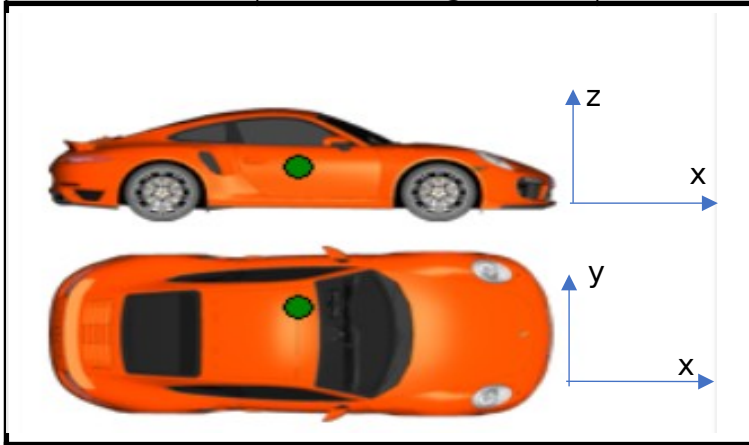
Maneuver Conditions	
Intial velocity entering curve	50 kph
Velocity after entering curve	51 kph
Steering wheel angle	260 deg

Basic Settings | Advanced Settings

Generate
- ☑ Vehicle Data Set — Porsche_911Turbo_a
- ☑ Vehicle Graphics — Luxury.tcl

Vehicle Class
- ○ Small Car
- ○ Compact Car
- ○ Medium Car
- ◉ Luxury Car
- ○ Delivery Van
- ○ Compact SUV
- ○ Full Size SUV

Vehicle Parameters
Unloaded weight	1595.0	kg
Vehicle length	4507.0	mm
Vehicle width	1880.0	mm
Vehicle height	1297.0	mm
Wheel base	2450.0	mm
Track width front	1541.0	mm
Track width rear	1590.0	mm
Rear overhang	1010.0	mm

Tire
Tire size 245 / 35 R 20
☑ Generate Tire Data Set   Tire Data Generator

Simulation Runtime	25.4s

Road
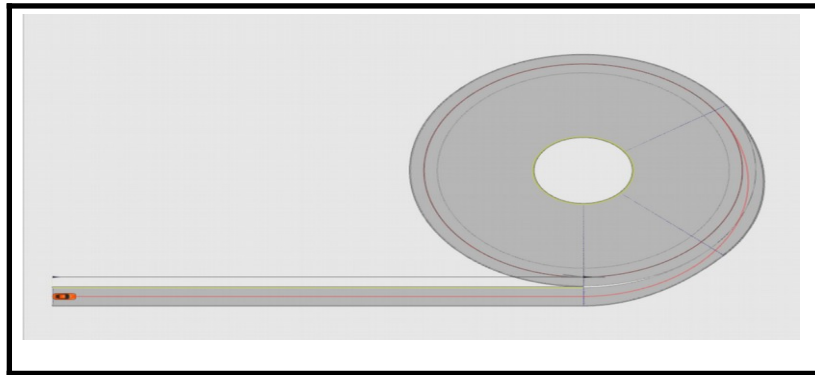
Circle with 30m radius

Driver Model	Parameterized
(Unit)	m/s2
Max.lat. Acc	5
Long. Acc	3
Long. Acc	-4

Basic Settings | **Advanced Settings**

Vehicle Body
- ⦿ Rigid Vehicle Body
- ○ Flexible Vehicle Body

Steering

Turning Circle	10.6	m
Max. Steering Angle	600.0	deg

Driving Axle
- ○ Front driven
- ○ Rear driven
- ⦿ All wheel driven

Engine

Nominal Power	397.0	kW
- at rot. speed	6400.0	rpm
Max. Torque	660.0	Nm
- at rot. speed	3000.0	rpm

Gearbox
- ⦿ Manual
- ○ Automatic

Transmission

Number of Gears	7.0	-
Spread of Gears	6.0	-

Axle Suspension

Front ride frequency	1.072	Hz
Rear ride frequency	1.233	Hz

Aerodynamics

Drag Coefficient	0.31	-