SCHAEFFLER

Fact Sheet XXL ABB FIA Formula E 2019/2020



Editorial

New manufacturers, new drivers, new tracks in major cities, and more suspense than ever – that's the 2019/2020 ABB FIA Formula E. "Never change a winning team" – that's why Audi and Schaeffler are again tackling this electrifying challenge together. With the more efficient MGU04 powertrain of the Audi e-tron FE06 optimized by Audi and us, we are fighting anew for victories and titles as Team Audi Sport ABT Schaeffler.



Daniel Pokorny Head of Corporate Communications Future Trends at Schaeffler



#WhyWeRace

Schaeffler is actively involved in shaping the rapid developments in mobility of tomorrow. The things that matter are quality, technology – and innovation. Besides digitalization and Industry 4.0, Schaeffler regards electric mobility as one of the key innovation drivers and concentrated all of its activities in this sector in its "E-Mobility" business unit as early as in 2018.

For Schaeffler, Formula E is a global stage for showcasing this enormous innovation prowess. At the same time, it is an ideal test laboratory for the development of e-mobility technologies – that's why Formula E is an ideal fit for Schaeffler. The commitment in what is arguably the most advanced and revolutionary motorsport series worldwide has a powerful external and internal effect. As a global technology group we are trailblazers in shaping a sustainable future of mobility. Schaeffler has been actively involved in Formula E ever since the series was formed in 2014.

Our second major motorsport pillar is the spectacular and popular DTM touring car series, in which we've been demonstrating our decades-long expertise in internal combustion technologies.

3 questions for ...

... Matthias Zink, CEO Automotive OEM

Why is Schaeffler involved in Formula E?

Our Formula E commitment helps us present ideas for sustainable mobility in the areas of the powertrain and chassis, and to pit ourselves against others in a sporting competition of the highest caliber. Only those who are at the forefront of technology there will subsequently be among the front runners in the production side of the house as well. Agility, efficiency and innovation prowess play a key role in motor racing. At the same time, our commitment has been thrilling fans and employees for years.

Has the IC engine outlived its usefulness at Schaeffler? Absolutely not. According to our market analyses, by 2030, about 30 percent of all new cars will have all-electric powertrains, 30 percent will exclusively be powered

by an IC engine, and 40 percent by a hybrid system. That's why we also continue to consistently optimize innovative technologies for the IC engine.

Gasoline, diesel, battery-electric, fuel cells or SynFuel? All of these technologies have prospects. Schaeffler believes in an open approach to technology – that's the only way to shape sustainable, carbon-neutral mobility.



Schaeffler facts & figures

>89,000

75

plants worldwi

170 locations in

14.2 bn euros in 2018 s

18

research and development centers worldwide

1,200

In 8

business units, Schaeffler develops and sells e-mobility products

15 to 300 kW

foutput is delivered by the •motors developed by Schaeffler

Proven Teamwork

The Daniel Abt and Lucas di Grassi duo enters Season Six

#11

Lucas di Grassi Birthday August 11, 1984 Birthplace São Paulo (BR) Residence Monaco (MC) Height 1.80 m Weight 75 kg



Daniel Abt

Birthday December 3, 1992 Birthplace Kempten (D)

Residence Kempten/Munich (D) Height

1.79 m **Weight** 72 kg

Partners

Bronon





Audi

Active in motorsport with factory-backed commitments since the 1980s +++ Success in rally, sports car and touring car racing +++ In Formula E, initially gives its name to the team +++ 2016/2017 partnership with Schaeffler and ABT intensifies +++ Manufacturer and entrant since the 2017/2018 season

ABT

Founded as a blacksmith shop in 1896 +++ Bavarian family-owned company +++ Leading refiner for automobiles of the Volkswagen Group +++ A fixture in motorsport since the 1990s +++ Formula E fielding team since the inaugural season +++ Daniel Abt is the son of owner Hans-Jürgen Abt

Audi e-tron FE06

Length 5,200 mm Width 1,800 mm Height 1,250 mm Wheelbase 3,100 mm

0-100 km/h approx. 2.8 sec Top speed 240 km/h Output in qualifying 250 kW Output in the race 200 kW

Minimum weight 900 kg (incl. driver)

Powertrain

Rear-wheel drive, Audi Schaeffler MGU04 motor-generator unit, 1-speed transmission

Bodywork

Specification Spark carbon body with specification aerodynamics, FIA crash and safety standard

Battery

Lithium-ion battery from McLaren Applied Technologies, usable capacity 52 kWh, charging time approx. 45 minutes, weight approx. 385 kilograms (wet)

Brakes

Hydraulic dual-circuit brake system, electronically controlled brake force distribution, carbon fiber brake discs, "brake by wire" on the rear axle

Pioneers and record holders

At the forefront from day one

In 2014, when no one truly believes in the Formula E idea, two pioneers of electric mobility, ABT and Schaeffler, embark on this big adventure. What follows is a motorsport success story in five acts.

Daniel Abt

11th place

Daniel Abt

7th place

68 points

32 points





1 victory 7 podiums 1 pole position 2 fastest laps

Lucas di Grassi Team 3rd place 3rd place 165 points 133 points

2015/16



3 victories 10 podiums 0 pole positions



2016/17 Champion Drivers (di Grassi)

2 victories 7 podiums 3 pole positions

Team 2nd place

Audi e-tron FE04

Team

Champion

264 points

ABT Schaeffler FE02

2nd place

221 points

Lucas di Grassi Champion 248 points 181 points

2nd place

153 points

2017/18

1 fastest lap

Champion

- 4 victories 11 podiums
- 1 pole position 6 fastest laps



- 2 victories 5 podiums
- 0 pole positions 4 fastestlap
- Audi e-tron FEO

Lucas di Grassi

2nd place

144 points

Lucas di Grassi Team 2nd place 3rd place 203 points 108 points



67 points the finale.

Daniel Abt

Daniel Abt

5th place

7th place

95 points

120 points

8th place

The best team

The adventure begins

race in Beijing.

Schaeffler inside

winning the title.

Champion!

In Season One, all teams race with specification cars. On the grid from day one: Schaeffler. The team's

Lucas di Grassi wins the inaugural

The series relaxes the technical regulations. From now on, Schaeffler develops the powertrain together with

ABT. With a mere deficit of two points,

In the evolution of the ABT Schaeffler

standings Sébastien Buemi. In the

end, he crowns it with the title win in

FE02, Lucas di Grassi starts a fightback pursuing leader of the

Lucas di Grassi just barely misses

history begins sensationally:

Audi enters the series as a manufacturer. Schaeffler remains the exclusive technology partner. Following a bumpy start, the Audi team wins the teams' championship with 11 podium finishes and 4 victories.

Never change a winning team

In 2018/19, Schaeffler is the exclusive technology partner of the Audi factory team. For the first time, Audi also supplies the FE05 powertrain developed together with Schaeffler to the Envision Virgin Racing Team.







Diverse portfolio available now

Schaeffler shapes change

Season 2019/2020 race calendar



#66 D. Abt

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