



ALL THE SECRETS BEHIND BREMBO'S FORMULA E BRAKES

The global leader in braking systems is the unique supplier to all the 11 Teams in the Championship with bespoke calipers, carbon discs & pads

Stezzano, 23. May, 2019 – Brembo, a global leader in braking systems, will be a protagonist of the upcoming **Berlin FIA Formula E E-Prix** as the **sole supplier of the entire braking system**, including carbon discs and pads, to **Spark Racing Technology** (SRT), the exclusive supplier of the chassis for the Championship's Seasons 5 (2018/19), 6 (2019/2020) and 7 (2020/2021).

Brembo has seen in the FIA Formula E a **valuable mobile laboratory to study, test and develop technology applied to the electric car**, which is the real challenge for the future - if not already for the present - of the automotive sector.

An absolutely **new and stimulating challenge** for Brembo, which entered in the Championship following the introduction of the new generation of single-seaters, the Gen2: much more powerful and performing than those that have raced in the previous years. This is why Brembo developed a bespoke braking system, tailored for the full electric category.

All the single-seaters of the Series are equipped with the same **complete Brembo braking system: discs, calipers, pads, bells and tandem pump**.

As early as season 5, the individual teams have been able to independently develop the Brake-by-Wire and their respective usage strategies, but as of season 6 synergies dedicated to BBW could be developed between the individual teams and Brembo.

The **discs** are carbon made, specifically designed for the needs of full electric cars.

Front: Thickness of 24 mm, diameter 278x24 mm, ventilated disk with 70 holes (diameter of single hole of 6.2 mm);

Rear: Thickness of 20 mm, diameter 263x20 mm, ventilated disk with 90 holes (diameter of the single hole of 4.2 mm);

The monobloc machined 4-piston caliper is made of an oxidized aluminum alloy and weighs less than 1 kg at the rear (with piston diameter 26-28 mm) and about 1.2 kg at the front (with piston diameter 30 -36 mm).

The design of the new caliper has been pushed to the limit: it has been considerably lightened in the less stressed areas in order to maximize weight reduction without compromising its stiffness. This has led to a dynamic and sporty aesthetic identity, in line with the features of the cars that equips.

The pads are carbon made: the front ones are 18 mm thick, while the rear ones are 16 mm. **The bell** is in aluminum with bobbin mounting. **The pump** is a single stage tandem (it is like having 2 pumps in 1).

In terms of **temperatures**, the data measured at the very beginning of the braking action have shown that the discs can reach temperatures of 400-500 degrees, with peaks of 800 degrees in the most rough situations.

Brembo Formula E brakes has been developed considering **the main challenge represented by the design of competition braking systems**: by their very nature they must always represent the best possible balance between performance, safety, lightweight, durability, constant efficiency and low costs.



Über Brembo SpA

Brembo SpA ist weltweit Marktführer und anerkannter Innovator auf dem Gebiet der Scheibenbremsen-Technologie für Kraftfahrzeuge. Brembo beliefert weltweit die wichtigsten Auto-, Nutzfahrzeug- und Motorradhersteller mit Hochleistungs-Bremsanlagen. Darüber hinaus produziert das Unternehmen auch Kupplungen und andere Komponenten ausschließlich für den Motorsport. Außerdem ist Brembo auch die Nummer eins im Motorsport und hat schon mehr als 400 Meisterschaften gewonnen. Die Geschäftstätigkeit des Unternehmens erstreckt sich heute auf 15 Länder auf 3 Kontinenten, es hat 25 Produktions- und Geschäftsstandorte und von ca. 10.600 Mitarbeiter, von denen ca. 10% im Forschungs- und Entwicklungsbereich tätige Ingenieure und Produktspezialisten sind. Der Umsatz 2018 liegt bei 2.640 Millionen Euro (31.12.2018). Brembo ist Inhaber der Marken Brembo, Breco, Bybre und Marchesini und ist außerdem durch die Marke AP Racing vertreten.

For further info:

Daniele Zibetti – E-Motorsport Media Relations Brembo S.p.A.

T: +39 035 605 3138

M: +39 340 150044

E: daniele_zibetti@brembo.it

Web: www.brembo.com

Dagmar Klein – Managing Director bmb-consult

T: +49 / 89 / 89 50 159-13

M: +49 / 172 / 85 32 208

E: d.klein@bmb-consult.com