

RACECARD

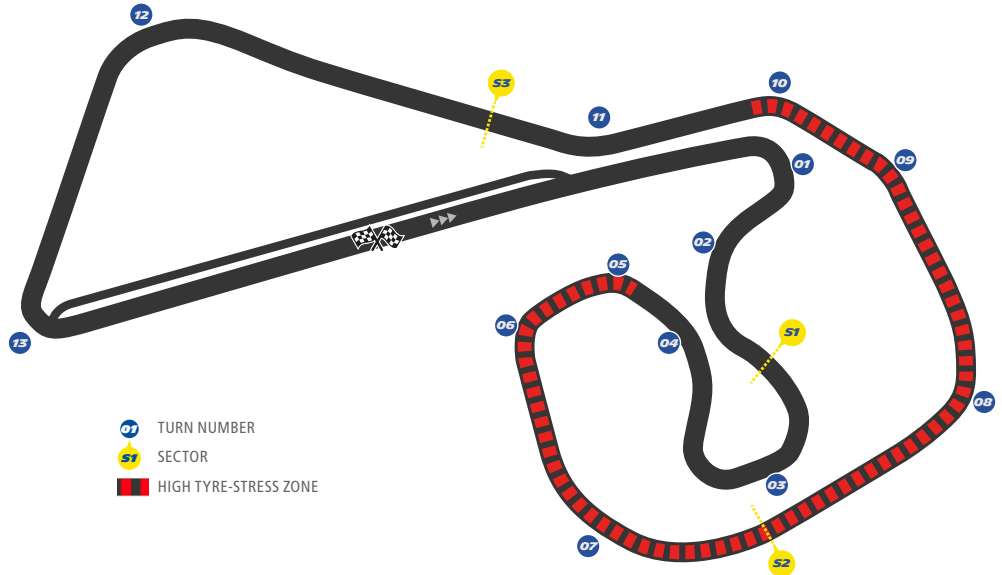
2019 MICHELIN MotoGP™



09
HJC HELMETS
MOTORRAD GRAND
PRIX DEUTSCHLAND
JULY 5»7
2019
SACHSENRING
GERMANY

TIMETABLE

FREE PRACTICE FRIDAY, JULY 7		
09:00 - 09:40	Moto3	FP1
09:55 - 10:40	MotoGP	FP1
10:55 - 11:35	Moto2	FP1
11:50 - 12:20	MotoE	FP1
13:15 - 13:55	Moto3	FP2
14:10 - 14:55	MotoGP	FP2
15:10 - 15:50	Moto2	FP2
16:50 - 17:20	MotoE	FP2
QUALIFYING PRACTICE SATURDAY, JULY 8		
09:00 - 09:40	Moto3	FP3
09:55 - 10:40	MotoGP	FP3
10:55 - 11:35	Moto2	FP3
12:35 - 12:50	Moto3	QP1
13:00 - 13:15	Moto3	QP2
13:30 - 14:00	MotoGP	FP4
14:10 - 14:25	MotoGP	QP1
14:35 - 14:50	MotoGP	QP2
15:05 - 15:20	Moto2	QP1
15:30 - 15:45	Moto2	QP2
16:00	MotoE	E-Pole
RACE SUNDAY, JULY 9		
8:20 - 8:40	Moto3	WUP
8:50 - 9:10	Moto2	WUP
9:20 - 9:40	MotoGP	WUP
10:00	MotoE	RAC
11:00	Moto3	RAC
12:20	Moto2	RAC
14:00	MotoGP	RAC



- 01 TURN NUMBER
- S1 SECTOR
- High Tyre-Stress Zone

LENGTH	WIDTH	RIGHT CORNERS	LEFT CORNERS	LONGEST STRAIGHT	LAPS	TOTAL DISTANCE
3.671 KM	12 M	3	10	700 M	30	110.1 KM

RECORDS

All Time Lap Record
 Marc Márquez (Honda, 2018):
 1m20.270s

Best lap race
 Jonas Folger (Yamaha, 2017):
 1m21.442s

Race duration
 Marc Márquez (Honda, 2017):
 40m59.525s

Top Speed
 Andrea Dovizioso (Ducati, 2015):
 298.2Km/h

2018 PODIUM

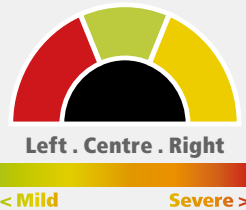
2018 Pole: M. Márquez (Honda) 1m20.270s

MICHELIN'S RECORD

Wins: 13
 (1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2016, 2017, 2018)

Pole positions: 12
 (1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2016, 2017, 2018)

TYRE SEVERITY RATING



DID YOU KNOW?

The programme of the HJC Helmets Motorrad Grand Prix Deutschland weekend also includes the first round of the inaugural FIM Enel MotoE™ World Cup!



LOCAL TIME - SOURCE: motogp.com - INFORMATION SUBJECT TO CHANGE



2019 TYRE REGULATIONS

Allocation per race

22 SLICKS:

10 front slicks:

- ✓ Up to 5 A-specification tyres
- ✓ Up to 5 B-specification tyres
- ✓ Up to 5 C-specification tyres

12 rear slicks:

- ✓ Up to 6 A-specification tyres*
- ✓ Up to 5 B-specification tyres
- ✓ Up to 4 C-specification tyres

(* Riders who participate in both Q1 and Q2 qualifying sessions (maximum 2 riders) will be allocated one extra front tyre of their preferred specification after Q2 (therefore, if taken, a maximum of 6 of that specification) and one extra rear slick tyre of specification A (highest grip level) after Q2 (therefore, if taken, a maximum of 7 of specification A).

In the case that Q1 and Q2 sessions are both declared wet by the Race Director, the extra tyres allocated will be a rain tyres (of the specification the rider prefer for both front tyre and rear tyre). In the case that Q1 and Q2 sessions are declared as different weather conditions (dry or wet) then no extra tyre will be allocated.

13 RAIN TYRES

6 front tyres of 2 specifications

7 rear tyres of 2 specifications

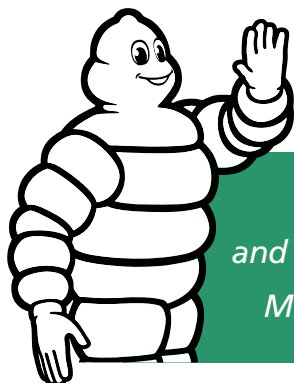
In the case that any 4 of the 5 sessions, being FP1, 2, 3, 4, and one Qualifying session (excluding warm-up), are declared wet, one more set of rain tyres will be allocated to every rider, and the allocation automatically becomes:
7 Front rain tyres, and 8 Rear rain tyres.



PIERO TARAMASSO

Michelin Motorsport Two-Wheel Manager:

"This is going to be a very busy weekend for all at Michelin as we have the very first MotoE™ race alongside the MotoGP™. As far as MotoGP is concerned, we know the requirements of this track, it is short and is also one of the slowest of the year, but it places a huge amount of demands on the left-side of the tyre. We bring a specific compound to Germany to cope with this and also for the weather. It is one of the tracks where you never know what to expect and it changes quickly, so we need to make a range of tyres that work in all conditions. It will be very interesting to see the first MotoE™ race, we have done a lot of testing and developed a range of tyres specifically suited to these machines, so it is now time to see them used in the field of competition. Michelin is delighted to participate in this new challenge as a technology partner, as it has a history of choosing projects that will improve mobility and make it safer, more economical and more environmentally friendly for all, and we see MotoE™ as a perfect platform to enable Michelin to be involved in fully electric motorcycles on a very visible worldwide stage."



Explore Dresden and the Sachsenring area with the Michelin Green Guide Berlin.



ENTRY LIST

MONSTER ENERGY YAMAHA MOTOGP



Born: **January 12, 1995**
Grand Prix debut: **2015, Qatar**

80 6 18 7

RECORD WITH MICHELIN
6 18 7 (0)



Born: **February 16, 1979**
Grand Prix debut: **2000, South Africa**

331 89 198 55

World titles: (2009, 2008, 2005, 2004, 2003, 2002, 2001) (7)

RECORD WITH MICHELIN
65 123 43 (5)

REPSOL HONDA TEAM



Born: **February 17, 1993**
Grand Prix debut: **2013, Qatar**

116 48 84 56

World titles: (2018, 2017, 2016, 2014, 2013) (5)

RECORD WITH MICHELIN
24 45 26 (3)



Born: **November 29, 1989**
Grand Prix debut: **2012, Qatar**

108 0 1 1

DUCATI TEAM



Born: **March 23, 1986**
Grand Prix debut: **2008, Qatar**

204 13 55 7

RECORD WITH MICHELIN
12 26 4 (0)



Born: **October 24, 1990**
Grand Prix debut: **2012, Qatar**

126 1 9 0

RECORD WITH MICHELIN
1 8 0 (0)

TEAM SUZUKI ECSTAR



Born: **December 8, 1995**
Grand Prix debut: **2017, Qatar**

40 1 7 0

RECORD WITH MICHELIN
1 7 0 (0)



Born: **September 1st, 1997**
Grand Prix debut: **2019, Qatar**

8 0 0 0

APRILIA RACING TEAM GRESINI



Born: **July 30, 1989**
Grand Prix debut: **2009, Indianapolis**

154 0 1 2

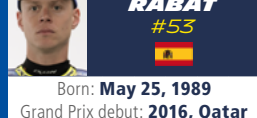


Born: **August 9, 1989**
Grand Prix debut: **2013, Qatar**

108 1 11 2

RECORD WITH MICHELIN
1 8 1 (0)

REALE AVINTIA RACING



Born: **May 25, 1989**
Grand Prix debut: **2016, Qatar**

54 0 0 0



Born: **January 2, 1990**
Grand Prix debut: **2011, Qatar**

110 0 0 0

PETRONAS YAMAHA SRT



Born: **December 4, 1994**
Grand Prix debut: **2018, Qatar**

24 0 0 0

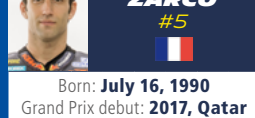


Born: **April 20, 1999**
Grand Prix debut: **2019, Qatar**

8 0 2 3

RECORD WITH MICHELIN
0 2 3 (0)

RED BULL KTM FACTORY RACING



Born: **July 16, 1990**
Grand Prix debut: **2017, Qatar**

44 0 6 4

RECORD WITH MICHELIN
0 6 4 (0)



Born: **June 10, 1991**
Grand Prix debut: **2014, Qatar**

94 0 1 0

RECORD WITH MICHELIN
0 1 0 (0)

LCR HONDA



Born: **October 29, 1985**
Grand Prix debut: **2011, Qatar**

146 3 17 4

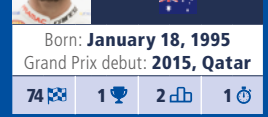
RECORD WITH MICHELIN
3 9 2 (0)



Born: **February 9, 1992**
Grand Prix debut: **2018, Qatar**

26 0 0 0

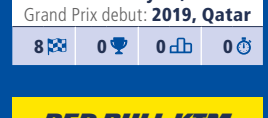
PRAMAC RACING



Born: **January 18, 1995**
Grand Prix debut: **2015, Qatar**

74 1 2 1

RECORD WITH MICHELIN
1 2 1 (0)



Born: **January 14, 1997**
Grand Prix debut: **2019, Qatar**

8 0 0 0

RED BULL KTM TECH 3



Born: **May 5, 1994**
Grand Prix debut: **2018, Qatar**

26 0 0 0



Born: **January 4, 1995**
Grand Prix debut: **2019, Qatar**

8 0 0 0

RACE STARTS WINS PODIUMS POLES WORLD TITLES



RIDERS' STANDINGS

RACE				QAT	ARG	USA	ESP	FRA	ITA	ESP	NED	DEU	CZE	AUT	GBR	SMR	ESP	THA	JPN	AUS	MYS	ESP			
				Losail 10/03	Rio Hondo 31/03	Austin 14/04	Jerez 05/05	Le Mans 19/05	Mugello 02/06	Catalunya 16/06	Assen 30/07	Sachsenring 07/07	Brno 04/08	Spielberg 11/08	Silverstone 25/08	Misano 15/09	Aragon 22/09	Chang 06/10	Motegi 20/10	Phillip Island 27/10	Sepang 03/11	Torres 17/11			
RIDERS' STANDINGS				Wins	Podium	Points	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19
1	Marc Márquez #93	3	7	160	20	25	DNF	25	25	20	25	20													
2	Andrea Dovizioso #4	1	4	116	25	16	13	13	20	16	DNF	13													
3	Danilo Petrucci #9	1	3	108	10	10	10	11	16	25	16	10													
4	Alex Rins #42	1	2	101	13	11	25	20	6	13	13	DNF													
5	Valentino Rossi #46		2	72	11	20	20	10	11	DNF	DNF	DNF													
6	Fabio Quartararo #20		2	67	0	8	9	DNF	8	6	20	16													
7	Maverick Viñales #12	1	2	65	9	DNF	5	16	DNF	10	DNF	25													
8	Jack Miller #43		1	60	DNF	13	16	DNF	13	DNF	11	7													
9	Pol Espargaró #44			52	4	6	8	3	10	7	9	5													
10	Cal Crutchlow #35		1	51	16	3	DNF	8	7	8	DNF	9													
11	Takaaki Nakagami #30			48	7	9	6	7	DNF	11	8	DNF													
12	Franco Morbidelli #21			45	5	DNF	11	9	9	DNF	DNF	11													
13	Aleix Espargaró #41			31	6	7	DNF	5	4	5	DNF	4													
14	Joan Mir #36			30	8	DNF	0	DNF	0	4	10	8													
15	Jorge Lorenzo #99			19	3	4	DNF	4	5	3	DNF	DNS													
16	Andrea Iannone #29			18	2	0	4	DNS	DNF	1	5	6													
17	Johann Zarco #5			16	1	1	3	2	3	0	6	DNF													
18	Miguel Oliveira #88			15	0	5	2	0	1	0	4	3													
19	Francesco Bagnaia #63			11	DNF	2	7	DNF	DNF	DNF	DNF	2													
20	Michele Pirro #51			9	-	-	-	-	-	9	-	-													
21	Tito Rabat #53			9	0	DNF	1	1	DNF	DNF	7	0													
22	Stefan Bradl #6			6	-	-	-	6	-	-	-	-													
23	Sylvain Guintoli #50			3	-	-	-	-	-	-	3	-													
24	Hafizh Syahrin #55			3	0	0	0	0	2	DNF	DNF	1													
25	Karel Abraham #17			2	0	DNF	0	0	DNF	2	DNF	0													
26	Bradley Smith #38			0	DNF	-	-	0	-	-	DNF	-													

1st 25 pts 4th 13 pts 7th 9 pts 10th 6 pts 13th 3 pts
 2nd 20 pts 5th 11 pts 8th 8 pts 11th 5 pts 14th 2 pts DNF: Did Not Finish
 3rd 16 pts 6th 10 pts 9th 7 pts 12th 4 pts 15th 1 pt DNS: Did Not Start



FACTS

15,000



The number of kilometres covered by a rider during a season (races and practice)



22

slick tyres a rider can use

during a grand prix weekend (free practice, qualifying, warm-up and race)



MINIMUM PRESSURE FOR A TYRE

Front slick

1,9 BAR

Rear slick

1,7 BAR



THE OPERATING TEMPERATURE

Front slick

100°C

Rear slick

120°C

MICHELIN'S MotoGP™ RACE STAFF



2 DEVELOPERS



8 TECHNICIANS



11 FITTERS



1 MANAGER



1 PRESS OFFICER



3 MARKETING / COMMUNICATION



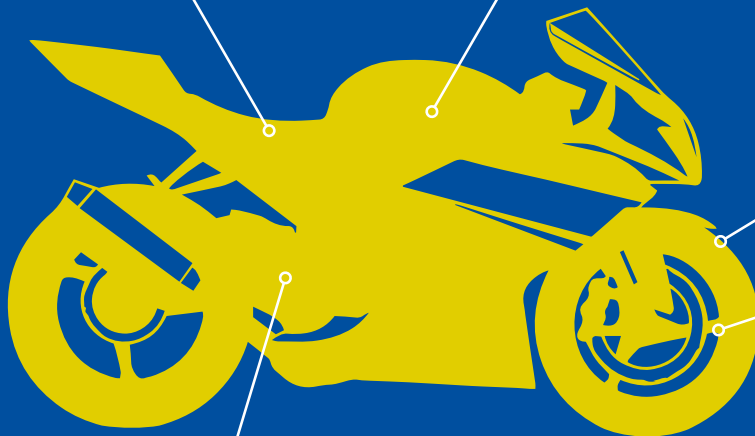
WEIGHT:

157 kg



MAXIMUM FUEL TANK CAPACITY:

22 LITRES



ENGINE DISPLACEMENT:

1,000 cc

4
stroke

POWER:

240 HP

TYRES



MICHELIN
POWER SLICK



OR MICHELIN
POWER RAIN

17"

RIM
DIAMETER:

17 INCHES

SIZES:

FRONT: **12 / 60 - 17**

Width (cm) Exterior diameter (cm) Rim diameter (inches)

REAR: **20 / 69 - 17**





MICHELIN'S MotoGP™ RANGE 2019 SEASON

MICHELIN POWER SLICK

FRONT
12/60 - 17



SOFT

MEDIUM

HARD

REAR
20/69 - 17



MICHELIN POWER RAIN

FRONT
12/60 - 17



EXTRA SOFT

SOFT

MEDIUM

REAR
20/69 - 17



DO YOU SPEAK MotoGP™?

Apex

The tightest point of a corner, which the rider usually rides through just before he begins to exit and accelerate away.

Highside

A crash in which the rear wheel of the bike slides out from under the rider – so that he is essentially at a right angle to his racing line (the direction in which he was going) – and then regains grip, which flips the bike and rider over.

Hole-shot

Taking the hole-shot means leading the race at the first corner.

OnBoard

An 'OnBoard' is a television camera carried by a MotoGP™ bike. Installed in various parts of the bike, these cameras offer some of the most spectacular perspectives of the race.

Paddock

The area adjacent to the pit boxes on the opposite side to the pit-lane, where teams and riders station their motorhomes and equipment for the duration of a grand prix weekend.

Parc Ferme

Designated area in the pit-lane where podium-finishing riders (first three) in each class are interviewed by television crews immediately after each race.

Pit box

The pit-boxes house teams over the course of a grand prix weekend, serving as a temporary garage and workshop.

Pit-lane

An access lane to the track which runs alongside the start/finish straight, adjacent to the pit-boxes and separated from the circuit by the pit wall.

Ride Through

A Ride Through procedure is a penalty where a rider is instructed to ride through the pit-lane – within a maximum speed limit – and can be imposed if he has contravened the regulations, for example, jump-starting before the race has officially commenced.

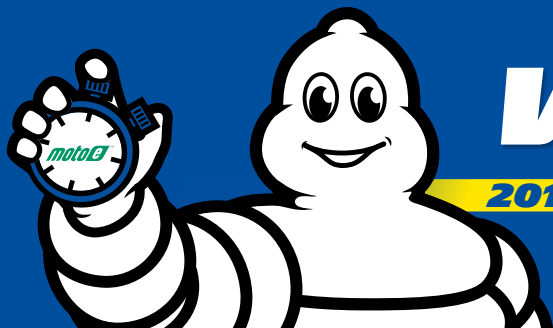
Rookie

A rider competing in his first year in any of the three categories of grand prix racing is referred to as a rookie.

Wild cards

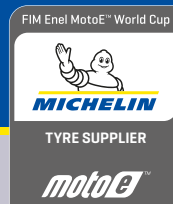
Unregistered riders who are entered for one-off grands prix, as opposed to regular World Championship competitors.





WORLD CUP

2019 FIM ENEL MotoE™



CALENDAR

07/07 2019		RACE 1 Sachsenring, Germany
11/08 2019		RACE 2 Red BullRing, Austria
15/09 2019		RACES 3 AND 4 Misano, Italy
17/11 2019		RACES 5 AND 6 Valencia, Spain



Bike: Energica Ego Corsa

Battery capacity: around 20 Kwh

Power: up to 120Kw (around 160 Hp)

Max speed: up to 270km/h

Minimum weight: 260kg



3 TECHNICIANS

TYRES

Michelin provides one type of front and rear slick tyre and one type front and rear rain tyre per race weekend. The specification may change according the track layout. The number of tyres per specification is four front slicks and five rears, with an additional three front rain tyres and four rears.



SLICK TYRE ALLOCATIONS

9 slick tyres:
4 fronts (12/60-17)
and **5 rears** (20/69-17)



RAIN TYRE ALLOCATIONS

7 rain tyres:
3 front and **4 rear**

One compound option per race weekend

Based upon the track layout and expected conditions for each Grand Prix, Michelin will select the most suitable tyre compound option for each race weekend.



✓ Every machine is delivered with 2 sets of tyre warmers for use with slick tyres, and 1 set of tyres warmers for use with rain tyres.



ENTRY LIST

ALMA PRAMAC RACING

JOSH HOOK
#16


ALEX DE ANGELIS
#5


ANGEL NIETO TEAM

MARIA HERRERA
#6


NICOLAS TEROL
#18


AVINTIA ESPONSORAMA RACING

XAVIER SIMÉON
#19


ERIC GRANADO
#51


LCR E-TEAM

RANDY DE PUNIET
#14


NICCOLO CANEPA
#7


TECH3 E-RACING

HECTOR GARZO
#4


KENNY FORAY
#78


TRENTINO GRESINI MOTOE

MATTEO FERRARI
#11


LORENZO SAVADORI
#32


DYNAVOLT INTACT GP

JESKO RAFFIN
#2


AJO MOTORSPORT MOTOE

NIKI TUULI
#66


EG 0,0 MARC VDS

MIKE DI MEGLIO
#63


ONE ENERGY RACING

BRADLEY SMITH
#38


PONS RACING

SETE GIBERNAU
#15


SIC58 SQUADRACORSE

MATTIA CASADEI
#27


RACE FORMATS

18 riders represent 12 teams, and wildcards are not permitted

PRACTICE

Two practice sessions (30 minutes) on Friday

E-POLE QUALIFYING PRACTICE

Each rider will carry out 3 laps of the circuit (one warm up lap - one timed lap - one slow down lap).

The riders will start one by one, from the end of the pit lane

The starting order of the riders will be the opposite of the combined free practice results

GRID

Grid positions will be based on the fastest time recorded by the riders in the E-Pole qualifying session.

In the case where the E-Pole qualifying session has been cancelled, the grid position will be based on the fastest times recorded by riders in all free practice sessions.

RACE

Riders will complete one sighting lap before taking their position on the grid. There is no warm up lap, once the grid preparations have finished, the red light will go out and the race starts.

Riders on the grid may change tyres to suit the track conditions. Tyre warmers may be used on the grid.

Charging of the battery on the grid is permitted

POINTS-SCORING SYSTEM

All races will count for the Cup classification.

1 st 25 pts	6 th 10 pts	11 th 5 pts
2 nd 20 pts	7 th 9 pts	12 th 4 pts
3 th 16 pts	8 th 8 pts	13 th 3 pts
4 th 13 pts	9 th 7 pts	14 th 2 pts
5 th 11 pts	10 th 6 pts	15 th 1 pt

