

MOTOGP 2019

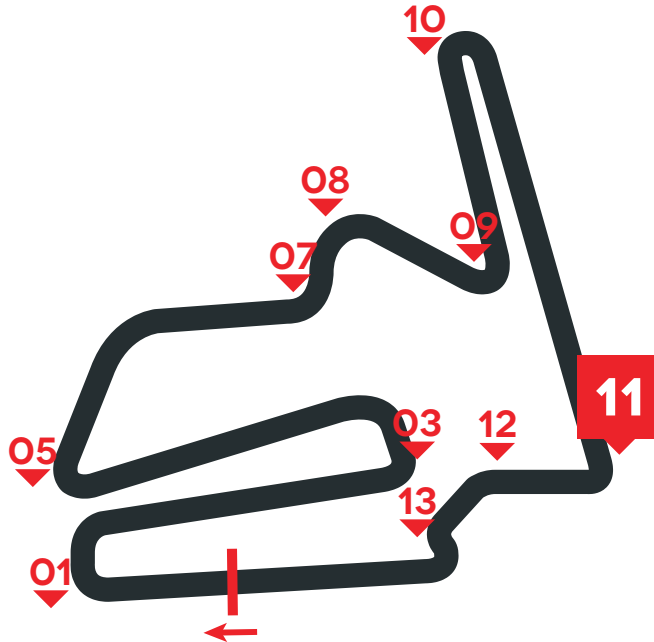
MOTUL GRAND PRIX OF JAPAN



**BRAKE CIRCUIT
IDENTITY CARDS**
18-20 OCT 2019

BRAKES EFFORT **VERY HARD**

TIME SPENT BRAKING **32%**



brembo DATA

The Japanese circuit, called "Twin Ring", has few fast curves and many slow curves, broken up by medium length straight stretches. It is maybe the most demanding circuit on brakes because of both the abundance of curves from second gear which intensely engage the brakes and the difficulty in cooling the brakes between one cut out and another. The perfect base, furthermore, offers a good level of grip which improves the ability to download to ground the braking torque and as a result the stress to which the brakes are subjected.

CIRCUIT DATA

Length: **4,801 m** - Number of laps: **24**
Number of brake zones/lap: **10**

IMPORTANT

* **TURN 11** is considered the most demanding for the braking system.

Should you publish any of the data contained here please quote Brembo as source used.

01	
Initial speed	284 (Km/h)
Final speed	93 (Km/h)
Stopping distance	233 (m)
Braking time	4.9 (sec)
Maximum deceleration	1.5 (g)
Max force on lever	4.8 (Kg)

03	
Initial speed	277 (Km/h)
Final speed	93 (Km/h)
Stopping distance	202 (m)
Braking time	4.2 (sec)
Maximum deceleration	1.5 (g)
Max force on lever	5.1 (Kg)

05	
Initial speed	271 (Km/h)
Final speed	77 (Km/h)
Stopping distance	216 (m)
Braking time	4.8 (sec)
Maximum deceleration	1.5 (g)
Max force on lever	4.9 (Kg)

07	
Initial speed	228 (Km/h)
Final speed	125 (Km/h)
Stopping distance	132 (m)
Braking time	2.8 (sec)
Maximum deceleration	1.3 (g)
Max force on lever	4.2 (Kg)

08	
Initial speed	133 (Km/h)
Final speed	115 (Km/h)
Stopping distance	37 (m)
Braking time	1.1 (sec)
Maximum deceleration	0.6 (g)
Max force on lever	1.0 (Kg)

09	
Initial speed	192 (Km/h)
Final speed	78 (Km/h)
Stopping distance	116 (m)
Braking time	3.2 (sec)
Maximum deceleration	1.2 (g)
Max force on lever	4.7 (Kg)

10	
Initial speed	232 (Km/h)
Final speed	68 (Km/h)
Stopping distance	163 (m)
Braking time	4.2 (sec)
Maximum deceleration	1.4 (g)
Max force on lever	4.7 (Kg)

11*	
Initial speed	308 (Km/h)
Final speed	86 (Km/h)
Stopping distance	250 (m)
Braking time	5.1 (sec)
Maximum deceleration	1.5 (g)
Max force on lever	5.7 (Kg)

12	
Initial speed	168 (Km/h)
Final speed	149 (Km/h)
Stopping distance	35 (m)
Braking time	0.8 (sec)
Maximum deceleration	0.8 (g)
Max force on lever	1.5 (Kg)

13	
Initial speed	146 (Km/h)
Final speed	97 (Km/h)
Stopping distance	92 (m)
Braking time	2.2 (sec)
Maximum deceleration	0.7 (g)
Max force on lever	2.5 (Kg)