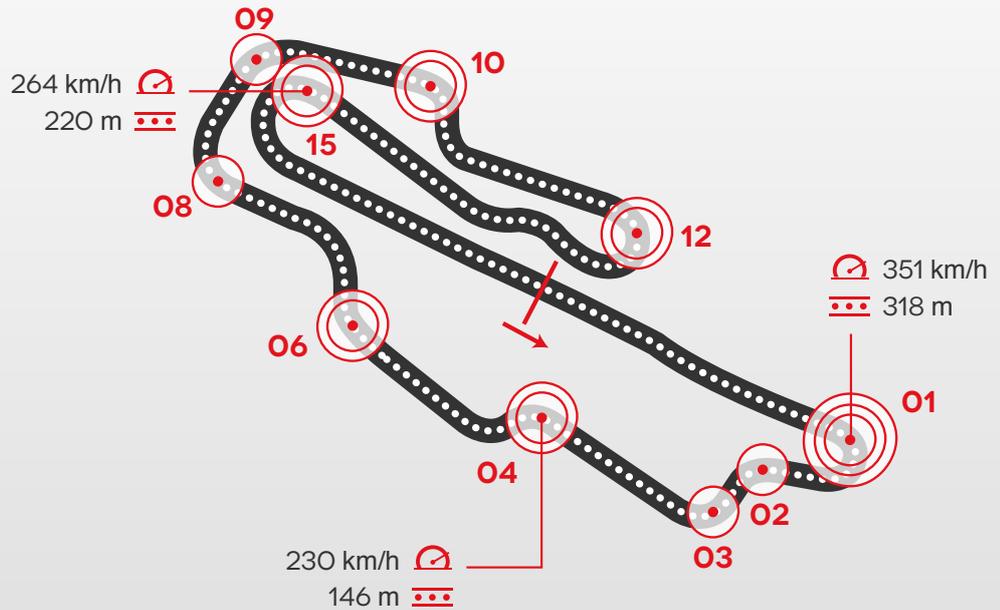
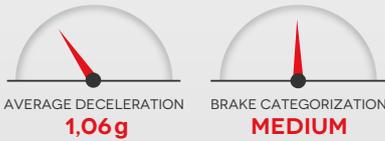


# MOTO GP | BRAKE CIRCUIT IDENTITY CARDS

2016 GRAN PREMIO  
D'ITALIA TIM

**20-22 MAY 2016**

## AUTODROMO DEL MUGELLO (SCARPERIA)



### CIRCUIT DATA

**Length: 5,245 m**  
**Number of laps: 23**  
**Number of brakings: 10**

### COMMENT

It is not a particularly demanding circuit for the braking system with the exception of the first cut out after the finish line which is very difficult because of the extremely high speed which the motorcycles reach thanks to the preceding straight stretch, the longest of the world championship. Here the motorcycles in little more than 6 seconds go from over 350 km/h to a speed of approximately 91 km/h.

The other brakes are not particularly demanding and allow the braking systems to cool.

**\* Turn 01 is considered the most demanding for the braking system.**

#### 01

|                      |     |        |
|----------------------|-----|--------|
| Initial speed        | 351 | (Km/h) |
| Final speed          | 91  | (Km/h) |
| Stopping distance    | 318 | (m)    |
| Braking time         | 5.6 | (sec)  |
| Maximum deceleration | 1.5 | (g)    |
| Max force on lever   | 7.0 | (Kg)   |

#### 02

|                      |     |        |
|----------------------|-----|--------|
| Initial speed        | 156 | (Km/h) |
| Final speed          | 114 | (Km/h) |
| Stopping distance    | 64  | (m)    |
| Braking time         | 1.7 | (sec)  |
| Maximum deceleration | 0.8 | (g)    |
| Max force on lever   | 3.7 | (Kg)   |

#### 03

|                      |     |        |
|----------------------|-----|--------|
| Initial speed        | 132 | (Km/h) |
| Final speed          | 111 | (Km/h) |
| Stopping distance    | 41  | (m)    |
| Braking time         | 1.2 | (sec)  |
| Maximum deceleration | 0.5 | (g)    |
| Max force on lever   | 1.7 | (Kg)   |

#### 04

|                      |     |        |
|----------------------|-----|--------|
| Initial speed        | 230 | (Km/h) |
| Final speed          | 118 | (Km/h) |
| Stopping distance    | 146 | (m)    |
| Braking time         | 3.0 | (sec)  |
| Maximum deceleration | 1.3 | (g)    |
| Max force on lever   | 5.9 | (Kg)   |

#### 06

|                      |     |        |
|----------------------|-----|--------|
| Initial speed        | 217 | (Km/h) |
| Final speed          | 131 | (Km/h) |
| Stopping distance    | 141 | (m)    |
| Braking time         | 2.8 | (sec)  |
| Maximum deceleration | 1.1 | (g)    |
| Max force on lever   | 5.2 | (Kg)   |

#### 08

|                      |     |        |
|----------------------|-----|--------|
| Initial speed        | 210 | (Km/h) |
| Final speed          | 161 | (Km/h) |
| Stopping distance    | 87  | (m)    |
| Braking time         | 1.6 | (sec)  |
| Maximum deceleration | 1.0 | (g)    |
| Max force on lever   | 3.9 | (Kg)   |

#### 09

|                      |     |        |
|----------------------|-----|--------|
| Initial speed        | 189 | (Km/h) |
| Final speed          | 151 | (Km/h) |
| Stopping distance    | 76  | (m)    |
| Braking time         | 1.6 | (sec)  |
| Maximum deceleration | 0.7 | (g)    |
| Max force on lever   | 2.1 | (Kg)   |

#### 10

|                      |     |        |
|----------------------|-----|--------|
| Initial speed        | 214 | (Km/h) |
| Final speed          | 102 | (Km/h) |
| Stopping distance    | 152 | (m)    |
| Braking time         | 3.4 | (sec)  |
| Maximum deceleration | 1.0 | (g)    |
| Max force on lever   | 5.5 | (Kg)   |

#### 12

|                      |     |        |
|----------------------|-----|--------|
| Initial speed        | 237 | (Km/h) |
| Final speed          | 98  | (Km/h) |
| Stopping distance    | 185 | (m)    |
| Braking time         | 4.1 | (sec)  |
| Maximum deceleration | 1.3 | (g)    |
| Max force on lever   | 5.7 | (Kg)   |

#### 15

|                      |     |        |
|----------------------|-----|--------|
| Initial speed        | 264 | (Km/h) |
| Final speed          | 109 | (Km/h) |
| Stopping distance    | 220 | (m)    |
| Braking time         | 4.4 | (sec)  |
| Maximum deceleration | 1.4 | (g)    |
| Max force on lever   | 5.5 | (Kg)   |