

***RACING BATTLAX V02***

# Product Concept

**RACING  
BATTLAX  
V02**



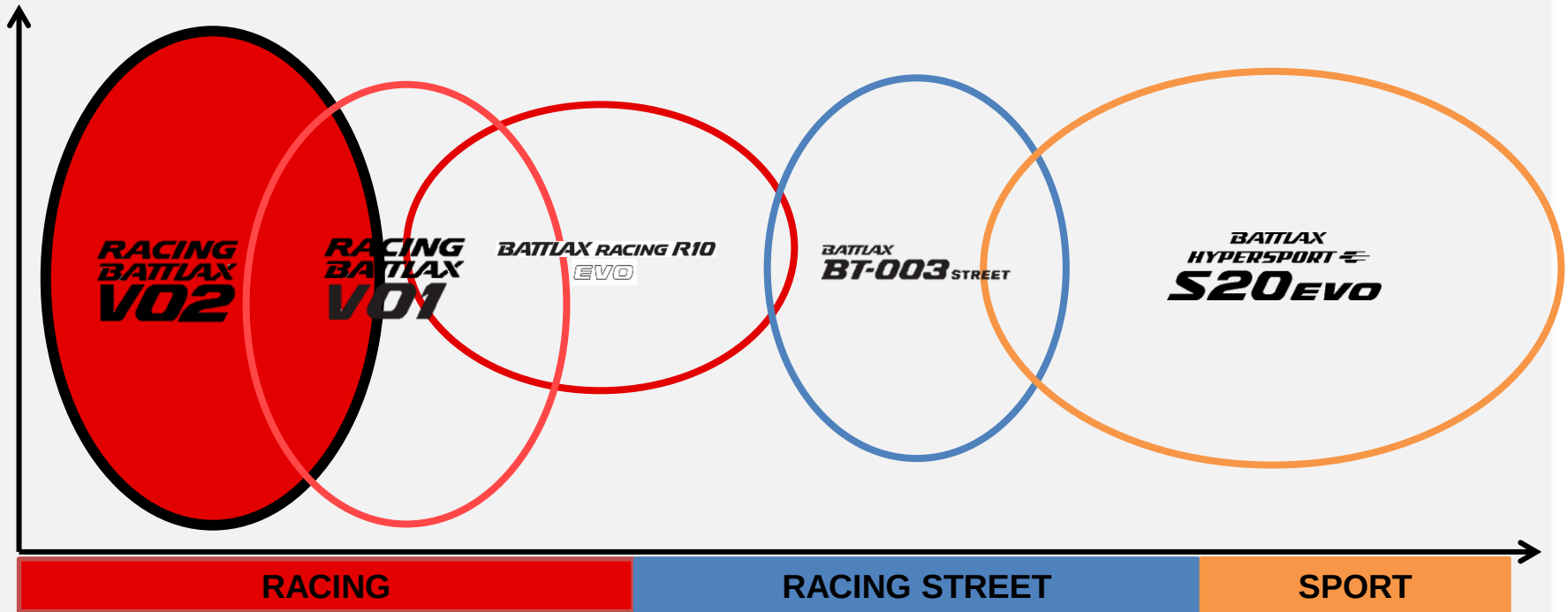
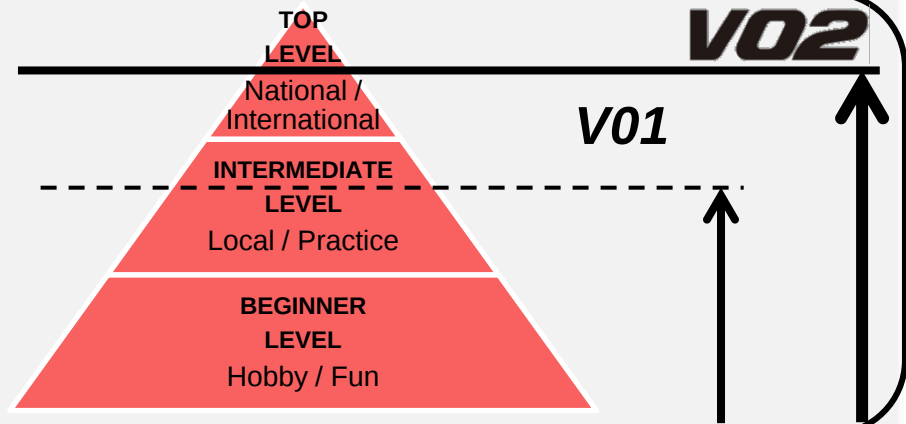
***Latest MotoGP technology,  
now available for  
superbikes everywhere !***

# Target and product positioning

**RACING  
BATTLAX  
V02**

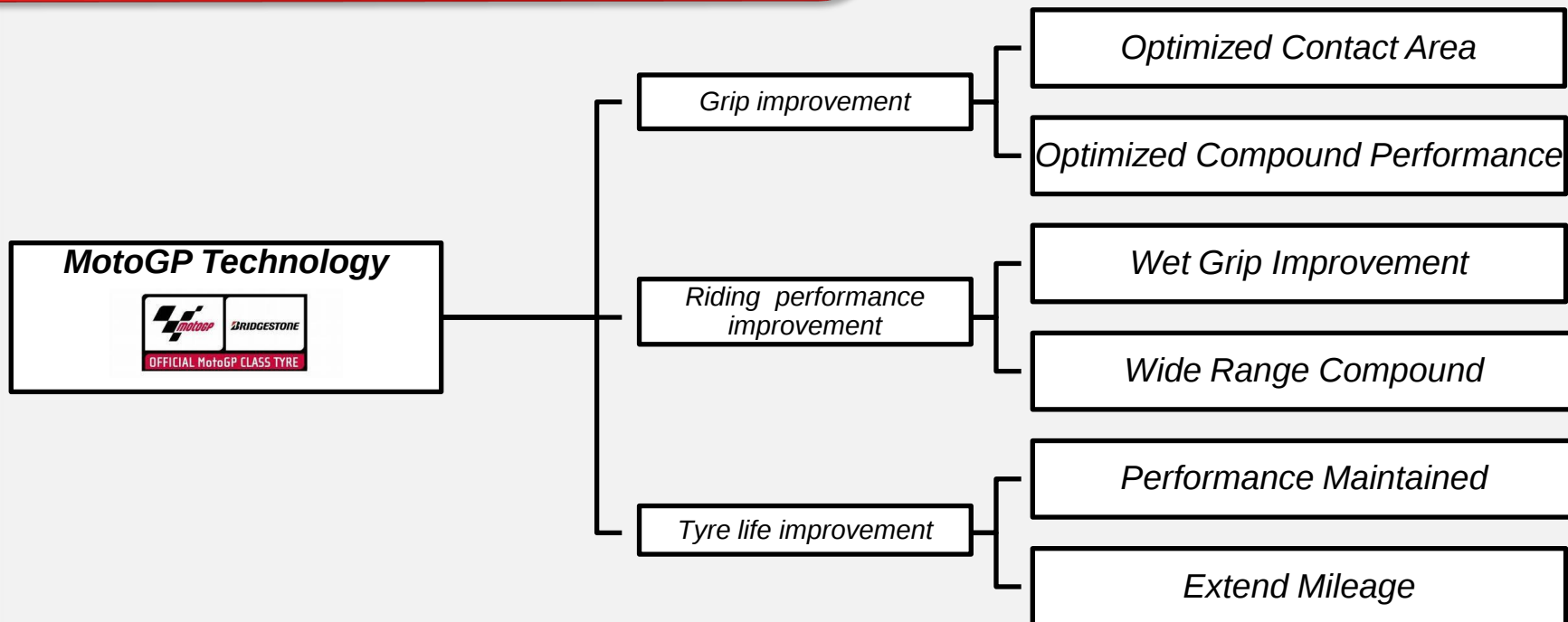
## TARGET

- ✓ Develop a competitive race tyre that can be used by beginners to experts.

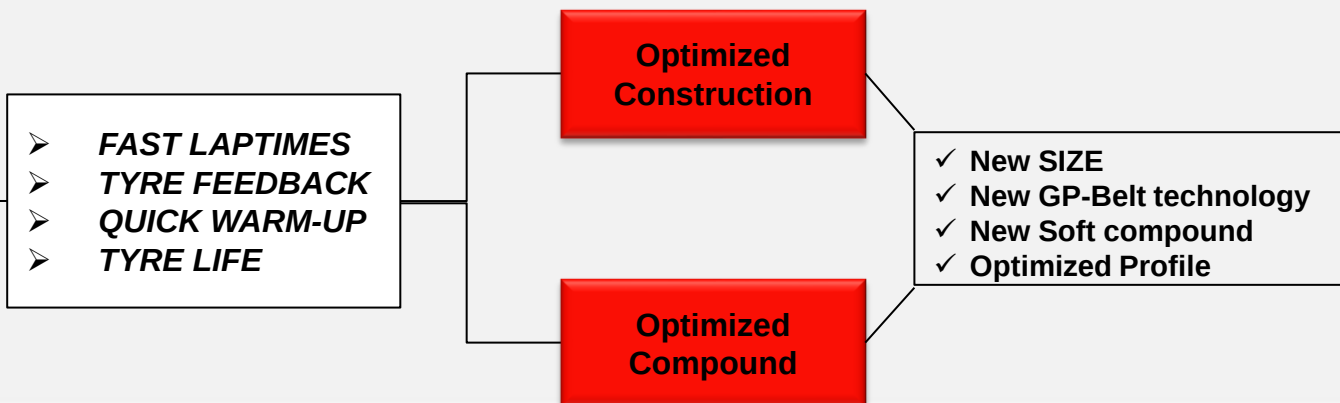


# Technology and “MotoGP heritage”

**RACING  
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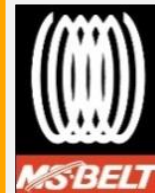
# Bridgestone's GP-Belt Technology



Racing Battlax V02R



**GP-Belt**, coming straight from MotoGP engineering, has been especially developed to limit tyre deformation in order to ensure optimum contact pressure area on the track. This finally generate **higher grip**.

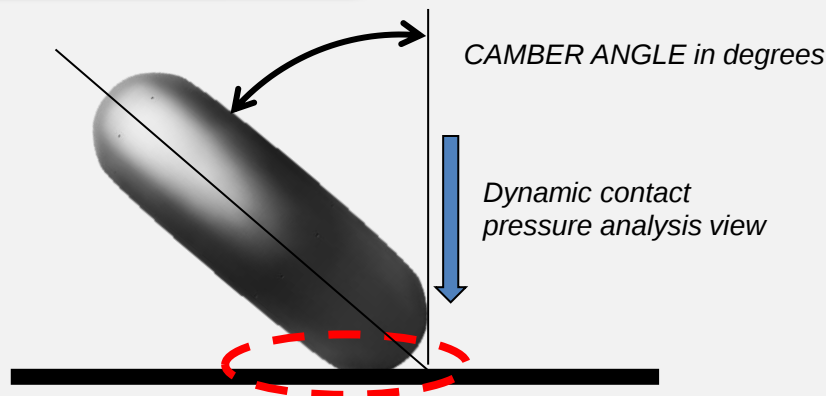


**Mono Spiral Belt** construction is a continuous single strand of special cord wrapped around the circumference of the tyre. It permits to eliminate the overlapping of belts, seams and joints from a conventional multi-cross belt construction. The advantage of the MSB is that less heat is generated in the tyre during rotation, giving you **greater stability on the track**.

**GP Belt + MSB → OPTIMAL REAR CONSTRUCTION for HIGH GRIP and STABILITY**

# Construction Features Rear “GP-BELT”

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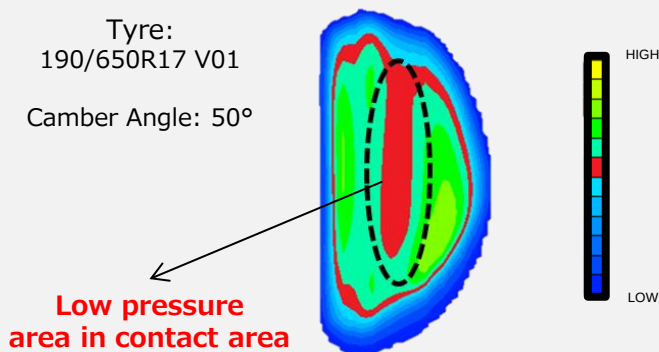


## V01 with conventional construction

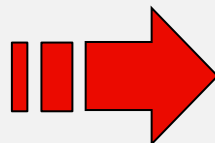
Dynamic Contact Pressure Analysis

Tyre:  
190/650R17 V01

Camber Angle: 50°



Low pressure area doesn't generate grip enough  
→ Improvement for reducing lower pressure area

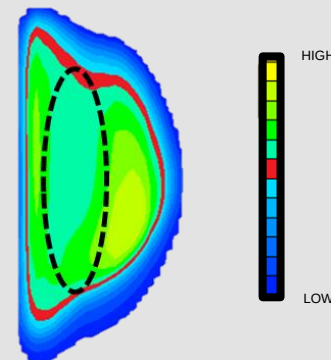


## V02 with GP-BELT construction

Dynamic Contact Pressure Analysis

Tyre:  
200/655R17 V02

Camber Angle: 50°



Increased area with optimum  
contact pressure to generate  
higher grip

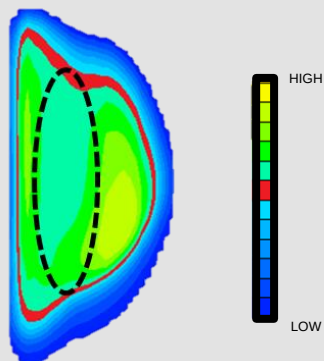
## V02 with GP-BELT construction

Dynamic Contact Pressure Analysis



Tyre:  
200/655R17 V02

Camber Angle: 50°



## Benefits

By **optimizing the contact patch** area and especially the optimum contact pressure area inside of contact area, **extra grip** is generated when coming out of corners.

As grip area has been increased, **slip area is reduced** enough to have the possibility to develop **new soft compound\***.

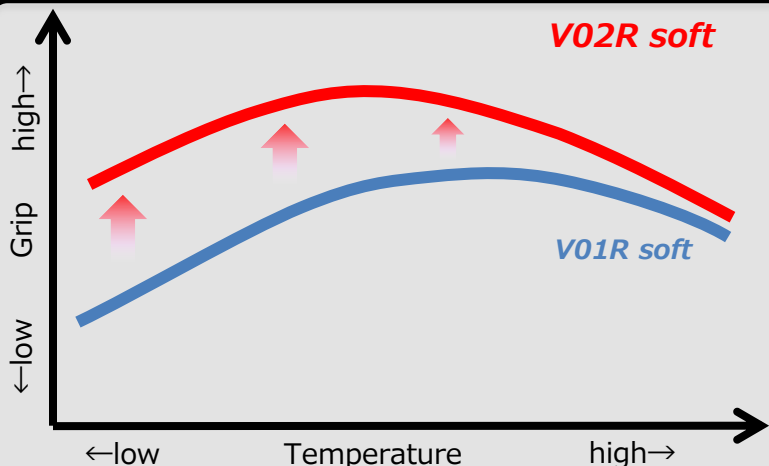
MAXIMAL  
Contact patch

MAXIMAL  
Grip Area

MINIMAL  
Slip Area

## New Soft Compound

- ✓ Quick Warm-up
- ✓ Higher Grip level
- ✓ Long Wear life
- ✓ High Consistency

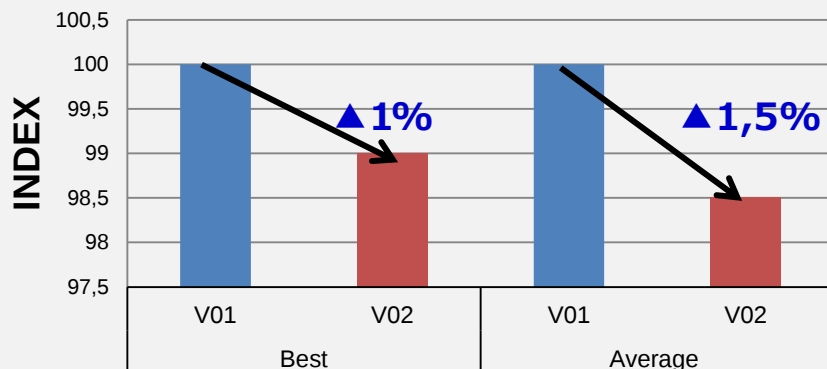


\* V02R medium keeps same comp'd as V01R medium

## LAPTIME Improvement

- ✓ 1% faster on best laptime
- ✓ 1,5% faster on average laptime
- ✓ Time conversion : 1% = 0.6s / min
- ✓ Improvement due to **consistency** and **high grip** performance of V02 tyres

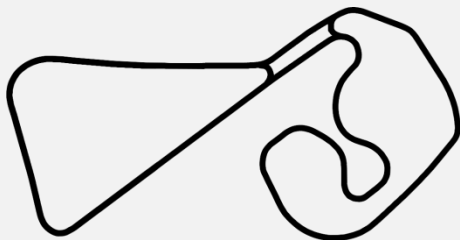
Lap time (Medium and Soft @ Sachsenring, Germany)



## Tyre Wear after more than 35 Laps @ Most (CZ)



- ✓ Smooth wear with consistent performance



**Sachsenring (DE)**  
 Length : 3671 m  
 Longest straight : 780 m  
 Nr of corners : 14  
 Right corners : 4  
 Left corners : 10

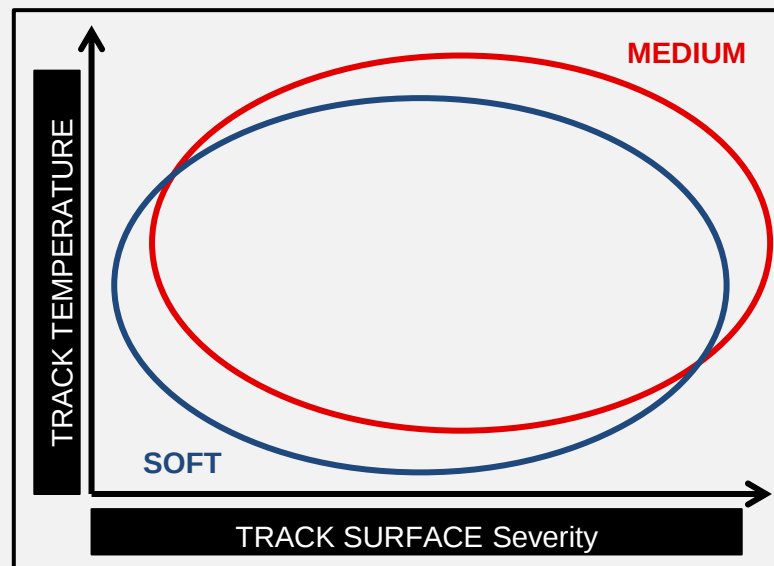


**Most Autodrom (CZ)**  
 Length : 4129 m  
 Longest straight : 792 m  
 Nr of corners : 21  
 Right corners : 12  
 Left corners : 9

## Use conditions

**RACING  
BATTLAX  
V02**

|              | Front         | Rear          |
|--------------|---------------|---------------|
| Size         | 120/600R17    | 200/655R17    |
| Pattern      | V02F (SBK)    | V02R (SBK)    |
| Soft         | ✓             | ✓             |
| Medium       | ✓             | ✓             |
| Cold         | 180~190kPa    | 140~150kPa    |
| Hot          | 220~230kPa    | 180~190kPa    |
| Standard Rim | 3.50inch      | 6.00inch      |
| Approved Rim | 3.50~3.75inch | 5.50~6.25inch |



## Achievement

- ✓ **Wide utilization range** for Soft and Medium compound

## Line up and availability

| FR/RR | SIZE           | V02 GP3           | V02 SBK           |
|-------|----------------|-------------------|-------------------|
| FRONT | 95 / 580 R17*  | ✓ (Soft / Medium) |                   |
|       | 120 / 600 R17  |                   | ✓ (Soft / Medium) |
| REAR  | 120 / 600 R17* | ✓ (Soft / Medium) |                   |
|       | 200 / 655 R17  |                   | ✓ (Soft / Medium) |

\* GP3 sizes will not adopt the same construction as the SBK sizes

**AVAILABILITY : V02 SBK February 2014**

**AVAILABILITY : V02 GP3 April 2014**

## Line up Bridgestone's other racing tyres

| FR/RR | SIZE       | V01               | R10(EVO)      |
|-------|------------|-------------------|---------------|
| FRONT | 120/600R17 | ✓ (Soft)          |               |
|       | 120/70ZR17 |                   | ✓ (Type 2)    |
| REAR  | 180/55ZR17 |                   | ✓ (EVO T2/T4) |
|       | 190/55ZR17 |                   | ✓ (TYPE 2/3)  |
|       | 190/650R17 | ✓ (Soft / Medium) |               |