

HANKOOK
driving emotion

 **GOOD DESIGN
AWARD 2013**

Dynapro HP2

The new Dynapro HP2 high-performance tire for luxury and power SUVs

Hankook Tire & Technology



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Features and performance information

Dynapro HP2



Technology icon



Low noise

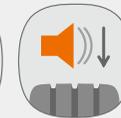
Performance icon



Wet handling



Wet braking



Low noise

Technical profile

Speed symbol : H, V, T

Tread width : 215~285

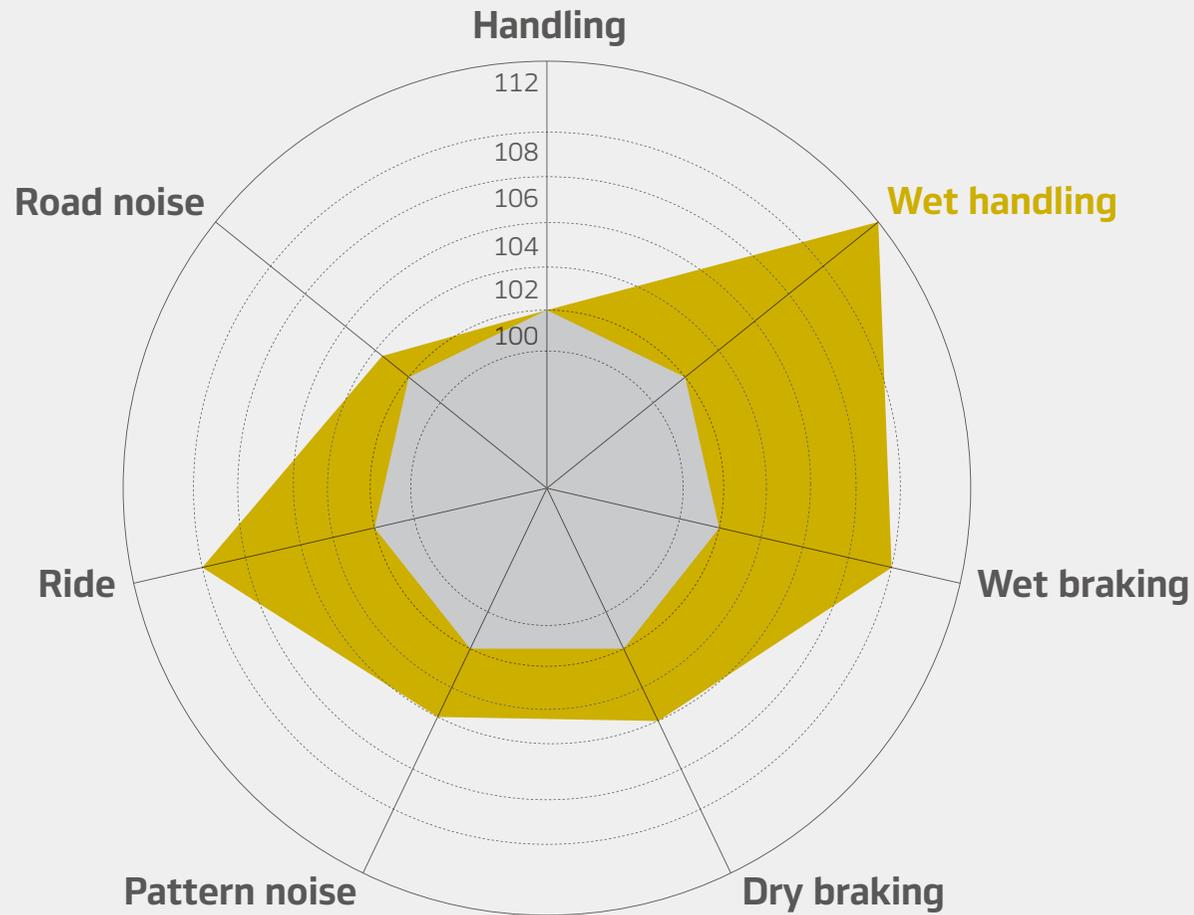
Series : 50~70

Rim diameter : 16~19

Key performance

Improvement in performance compared to predecessor.

■ Conventional
■ **Dynapro HP2**





Product concept

High-performance tire for luxury and power SUVs

By applying aqua technology

Dynapro HP2

- Non-direction, 4 straight groove
- Wet, steering and braking, low noise, low RR, long mileage
- On-road high-performance SUV vehicle for OE/RE

Dynapro HP2

Key benefits

Provides excellent ice and snow performance

Straight 4-channel waterway



Resists hydroplaning and aquaplaning performance up.

High stiffness center rib

Stiff center tread blocks provide precise steering.



Silencer sipes

Prevents harmonic tread pattern sound.



Aqua slant sipes and groove

Radial direction sipes provide improved handling in wet and dry conditions by locking together for greater rigidity. Lateral grooves provide resistance to hydroplaning.

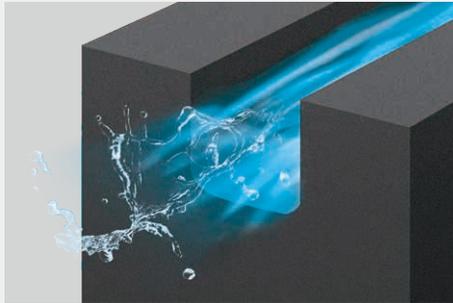


Design features

Wet performance

A Straight 4-channel waterway

Resists hydroplaning and aquaplaning performance up.



B Aqua slant sipes and groove

Radial direction sipes provide improved handling in wet and dry conditions by locking together for greater rigidity. lateral grooves provide resistance to hydroplaning.



Design features

Dry performance

C High stiffness center rib

Stiff center tread blocks provide precise steering.



D Silencer sipes

Prevents harmonic tread pattern sound.



Tire structure

Base tread compound

Absorbs shock from the road and offers better comfort.

Jointless full cover reinforced belt

Ideal tread strength.

Wide 2 steel belt layer

Better dry / wet handling.

High density polyester carcass

Better steering and handling response.

Strong single strand bead wire

Better steering and handling response.



Handling performance

Wide and square tread

Wide tread (increased%) enables longer mileage and better grip.



Conventional

Dynapro HP2

High stiffness centre rib

Stiff centre tread blocks provide precise steering.



The Dynapro HP2 provides improved handling performance for your driving by applying an optimised high stiffness centre block. By applying an optimised profile and tread block stiffness, the foot print pressure is dispersed equally across various load conditions. Even lots which transfer vertically and laterally maintain a stable foot shape through an optimal design. This is based on 3D sipe and 3D shoulder block technologies providing the best handling performance.

Braking performance

Wide TW (Tread Width)



Optimised foot print



The Dynapro HP2 provides improved braking performance by applying wide TW (tread width) and an optimised foot shape. The wide tread delivers loads equally to the ground ensuring foot print pressure is dispersed equally in various braking conditions.

Technical presentation

Ride and noise performance

Optimised tread block stiffness and profile.

Foot print



Conventional

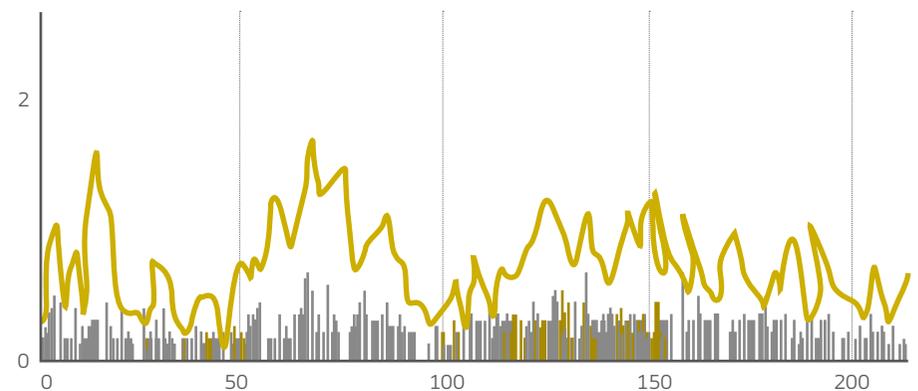
Dynapro HP2

· Test Condition (Rim : 7.0J x 17, Air Pressure : 2.0kg/cm²)

Silencer sipes



Prevents harmonic tread pattern sound.



Technical presentation

Hydroplaning performance

By applying wide main grooves and an optimized profile.

Wide groove area

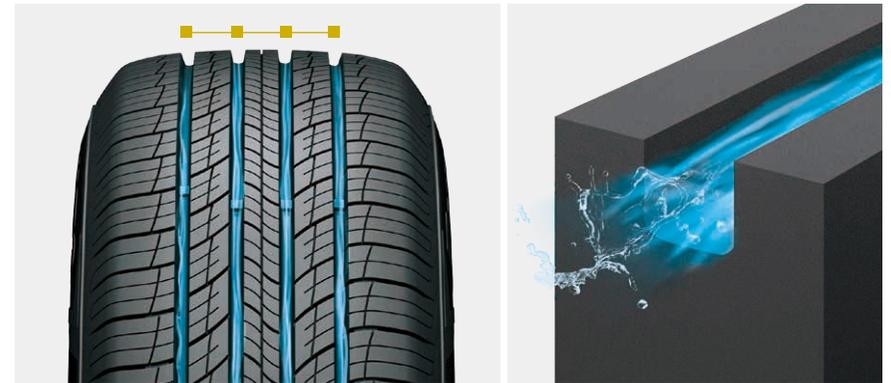
Center line



Dynapro HP2 Block : Groove → 77.9% : 22.1%

Conventional 80.0% : 20.0%

Straight 4-channel waterway



Straight 4-channel waterway

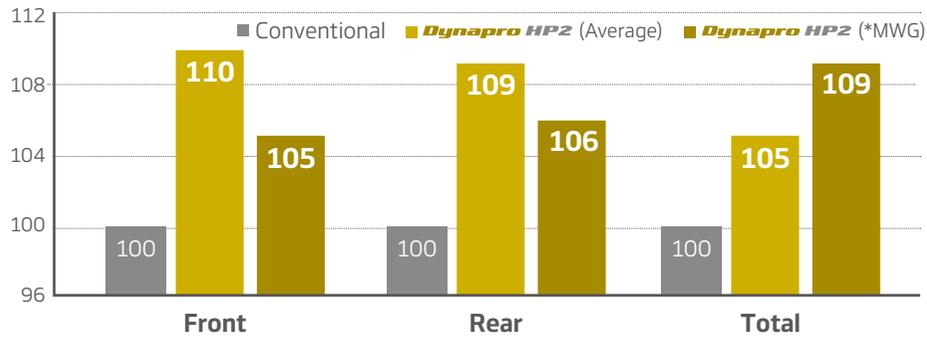
Resists hydroplaning and aquaplaning performance up.

Noise performance

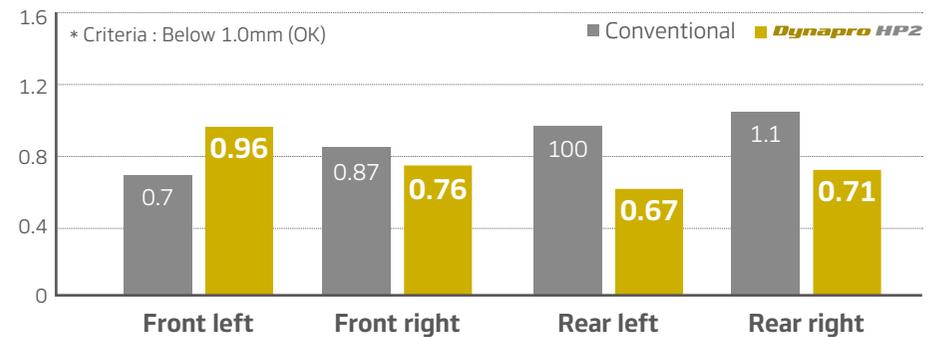
Wear

By applying optimized shoulder lateral groove and optimized block stiffness prevent block movement and irregular wear.

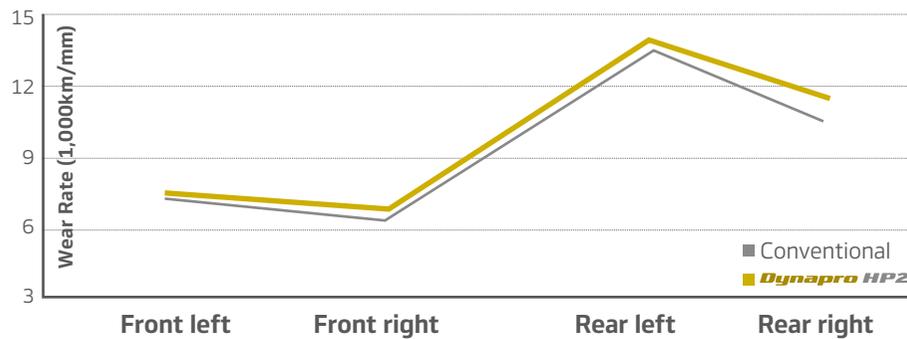
Total number of middle block studs



Heel and toe (index)



Wear rate



Center wear (index)

