

5THR Achieved award

The new tangential rotor called the 5THR received the Tire Manufacturing Innovation of the Year award in the Tire Technology International Awards for Innovation and Excellence 2016 at Tire Technology EXPO which held in Hannover, Germany.

5THR is specialized to mix filling material evenly and efficiently.

Compare to our former products, 8% quality and 43% productivity is higher.

Recent years, Fuel-efficient tire is getting more demand to reduce the CO₂ automobile emissions. 5THR is adequate for rubber mixed with silica, which is the material for Fuel-efficient tire. That is the reason for getting this award.

The Tire Technology Expo is held by the British publisher of Tire Technology International (Tire specialized magazine). This Expo has 270 companies to exhibit their technology, material and service related to tire. This is the 16th year EXPO.

5THR is compatible with our conventional rotor, so our customer doesn't have to change any equipment. We believe using 5THR will benefit to grow the productivity of Fuel-Efficient tire for Tire Makers in the world and we would like to sell to global market progressively.

About 5THR

Fuel-efficient tire is reduced rolling resistant tire. It is made of carbon black mixed with silica. Silica is hard to mix more than carbon black and it use high energy to mix and compare to just mixing carbon black, increase heat during mixing. Rubber will start burning around 200°C and it is hard to control the temperature. If the camber temperature gets too high, it is necessary to remove the rubber and wait until to cool down, then insert the rubber again for mixing.

5THR has special cold water running structure to cool rotor blade and inside rotor. It has improved rubber cooling system performance. Therefore, even though silica uses high energy to mix, it can suppress the heat and improved productivity 43%. (Compare to our former products.) Also the performance of the rubber of Fuel-efficient tire is 8% improved by spreading particles evenly.

