

Roads, Parking Lots  
and Airfields  
(Asphalt-based)

# ST Dual

NETIS Registration No.: QS-980139-V



This is a pavement with excellent ability to absorb the noise generated by the road surface and tires.

## Overview

- When automobiles drive, air enters between the tire and road surface, which creates noise. Low-noise pavement can discharge this air into the pavement so that the amount of noise can be reduced.
- Noise generated from tires and road surface is caused by a friction between them and striking noise from the tires. Given this point, smaller grain of aggregate seems to provide a desirable noise suppression effect in low-noise pavement. Smaller grain of aggregate mixtures, however, impairs fluidity resistance. Preventing this with High-Durability Polymer-Modified Asphalt H also results in high material costs. ST Dual has resolved all these issues.

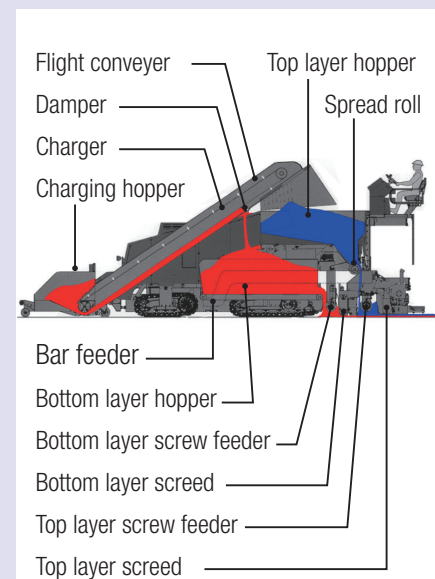
## Features

- To maintain drainage and low-noise functions while reducing the amount of expensive asphalt mixtures, ST Dual pavement employs a two-layer structure as a surface: small grain porous asphalt mixtures as the upper surface, and ordinary porous asphalt mixtures as the lower surface.
- Problems related to the thickness and maximum particle size for one layer are resolved by using a multi-asphalt paver that allows for two-layer synchronous construction resulting in reduced cost and a shorter construction time.

## Applications

- Roads where noise needs to be reduced such as expressways and city roads.

### ■ Diagram of ST Dual Mechanism



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