

Asphalt Finisher Remote Control System

Système de télécommande pour finisseurs d'asphalte



Overview

This system allows an asphalt finisher operator to control the machine remotely and automates its steering and travel speed.

Typical paving work using a large asphalt finisher requires a two-member crew consisting of a finisher operator and an adjuster. By allowing the operator to control the finisher remotely, this system eliminates the need for an on-site support worker, contributing to labor saving and productivity improvement.



This technology was awarded the first prize of the Katahira Award (Development of Remote Control Technology for Asphalt Finisher) at the 17th REAAA (The Road Engineering Association of Asia and Australasia) Conference.



Remote-controllable tasks

Control system	Remote-controllable item
Operation	Forward/backward movement
	Steering
	Speed adjustment
Placing and spreading	Hopper opening/closing
	Bar feeder operation
	Screw operation
Safety	Horn
	Dump truck guidance



Hopper and feeder



Screw



Dump truck guidance and dumping

Tasks involving automatic steering

The AI system uses a built-in camera to track the paving formwork and automatically steer the asphalt finisher. The speed control can also be automated.



AI system tracking the formwork



Automatic steering control system



Automatic travel speed adjustment

