

The driverless transport system RAY™ in use for finished vehicles logistics.

The fully automated transport system RAY™ takes over labour intensive activities in the finished vehicles logistics. By this automation, **storage processes will be optimised** and the operations of the staff improved.

The **integrated Yard Management** system in RAY™ ensures the efficient utilization of storage areas and human resources. RAY™ significantly reduced the required floor space

per vehicle. That means that up to **100% more vehicles** may be stored on the same surface.

If necessary, RAY™ will take the vehicles autonomously to the defined points of transfer, e.g. for rail loading, direct collection, custom edition etc.

RAY™ flexibly adapts to the runtime of assembly lines and to vehicle models. Our comprehensive sensor

technology ensures the safety of the vehicles.

Thanks to the **minimal installation requirements** RAY™ can be flexibly deployed and can also be moved any time.



© Audi AG

Find out more on the web:
www.serva-ts.com

Company details & contact

Serva Transport Systems GmbH
Renkenweg 3
83026 Rosenheim
Germany

Tel.: +49 8031 27288 70
Fax: +49 8031 27287 72
info@serva-ts.com
www.serva-ts.com

serva 
transport systems



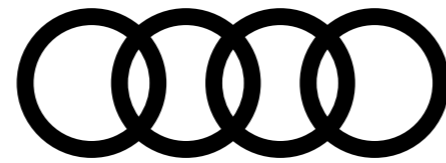
Fully automated storage of finished vehicles with RAY™

Automatic interim storage at the Audi plant in Ingolstadt

In the process house of the Audi plant in Ingolstadt, RAY has taken over the interim storage of the finished vehicles. Following production, the vehicles designed for shipment by railway will be placed at the RAY transfer stations. Here, RAY will take over the cars. The parking robots transport and sort in three-shift operation up to 2,000 cars per day.

Audi won the VDA Logistics award 2017 with Serva Transport Sys-

tems' automated guided vehicle (AGV) RAY. "With their flexible navigation we are improving efficiency in vehicle transport as well. FTS RAY is now in production operation at the Ingolstadt plant. We will be transferring the concept to other processes and sites," said Prof. Dr. Hubert Watzl, Board Member for Production and Logistics at AUDI AG.



© Audi AG

This is how RAY™ works

1 Point of transfer
After production the cars can directly be transferred to the RAY™ system.



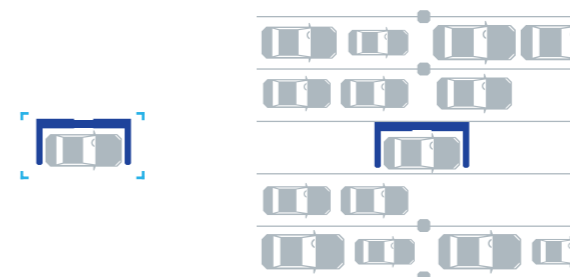
2 Scanning and measuring
At the point of transfer, the cars are measured by a 3D scan and received in our material control.



3 RAY™ taking over
After entering the vehicle data, RAY™ fully automatically takes over the car from the point of transfer.



4 Interim storage
Controlled by an integrated Yard Management, RAY™ efficiently carries out the interim storage of the cars. Thus, up to 100% more cars can be kept in the same space.



5 Provision
Also, RAY™ will provide the cars fully automated and just-in-time as required/on demand.

