7th axis for UR10e robot used for inspection of clay thickness on the physical car body model

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APPLICATION

- Ad-hoc inspection of thickness of applied clay during modeling of a car body

- Use of 7th axis for collaborative robot by Igus to increase the reach of the robot enabling inspection of the whole car

KPIs:

- Estimated 20 % less clay consuption

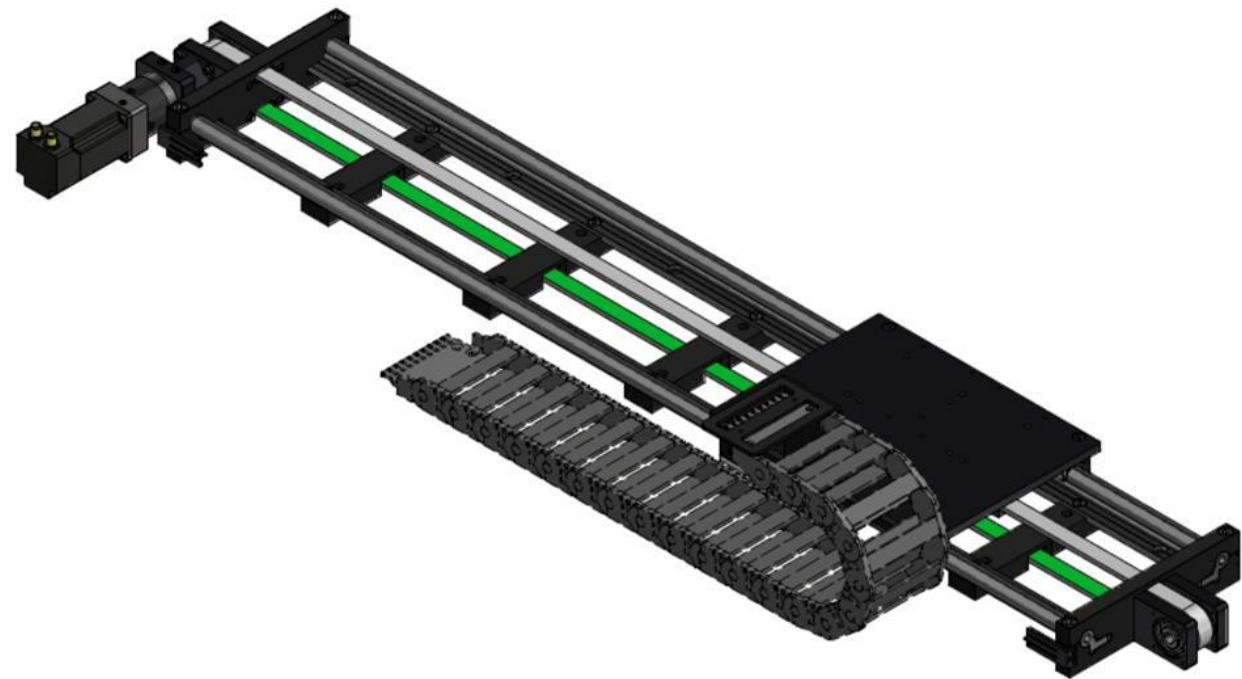- Faster production (omitting one milling stage)

SYSTEM

car body

scanner

Universal robots UR10e
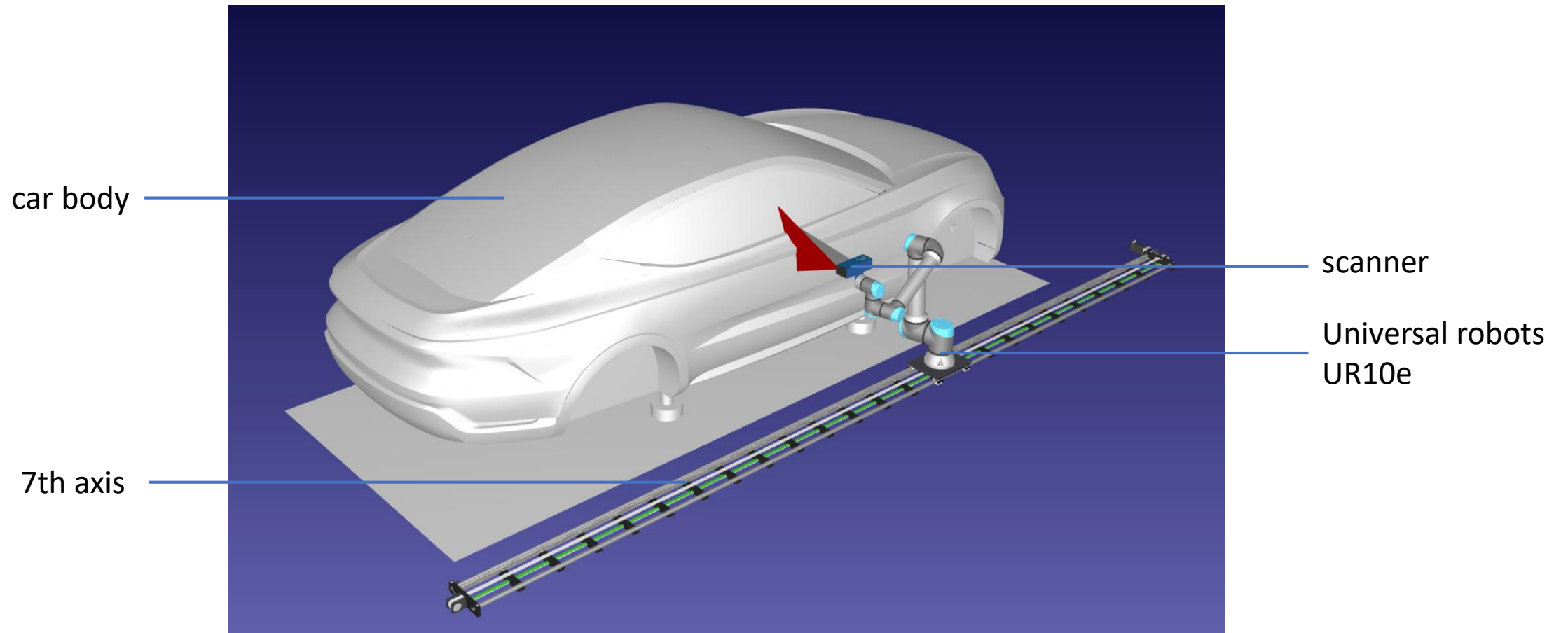
7th axis

VIDEO OF SIMULATION: https://www.robolab.si/sebastjans/RoboDK/aurora_car_scan.html
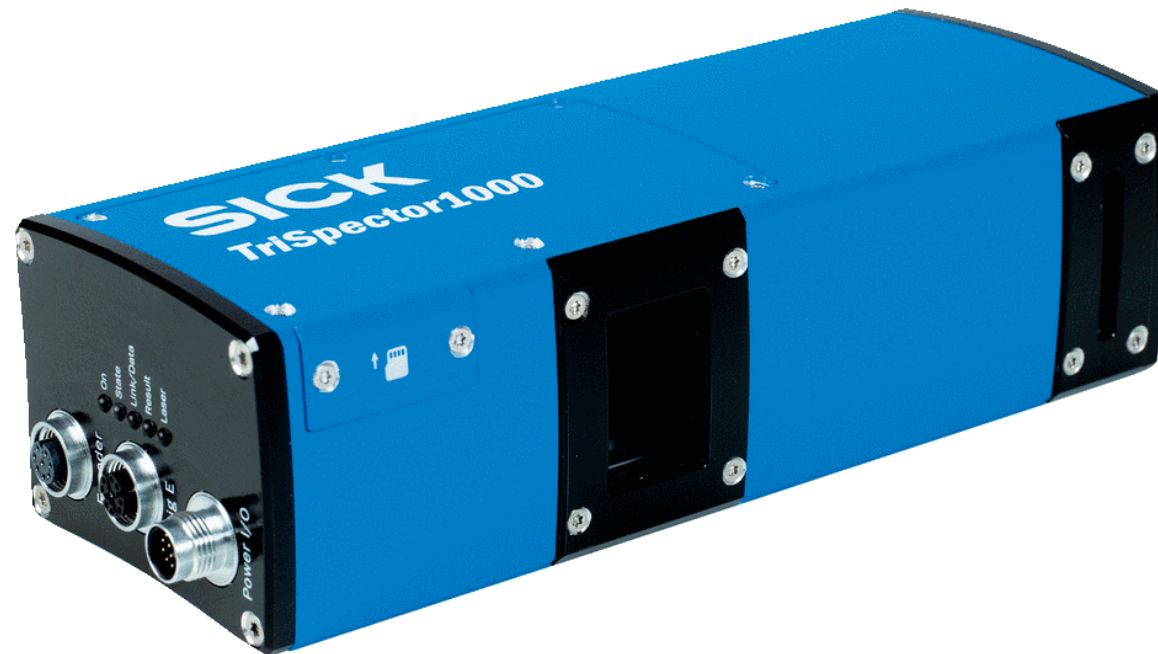
RAIL – 7th axis

- drylin® 7th axis for Universal Robots
- length 5 m

SCANNER

- Linear 3D profiler SICK TriSpector 1030

SCANNED RESULT

- mock-up testing (without rail)