


# THE YALE® WAREHOUSE SIMULATOR

Optimising efficiency & flexibility through scenario planning

When planning a

## 34,800 m<sup>2</sup> warehouse

in Jebel Ali, Dubai, Yale® turned to its Warehouse Simulator.



Instead of guessing how layouts, aisles, and equipment would perform, the team built a realistic 3D model of the facility, complete with racks, forklifts, trailers, pallets, and workflows.



## Simulation in Action

Within the model, Yale simulated a throughput of

### 190 pallets per hour

with a mixed fleet of forklifts.

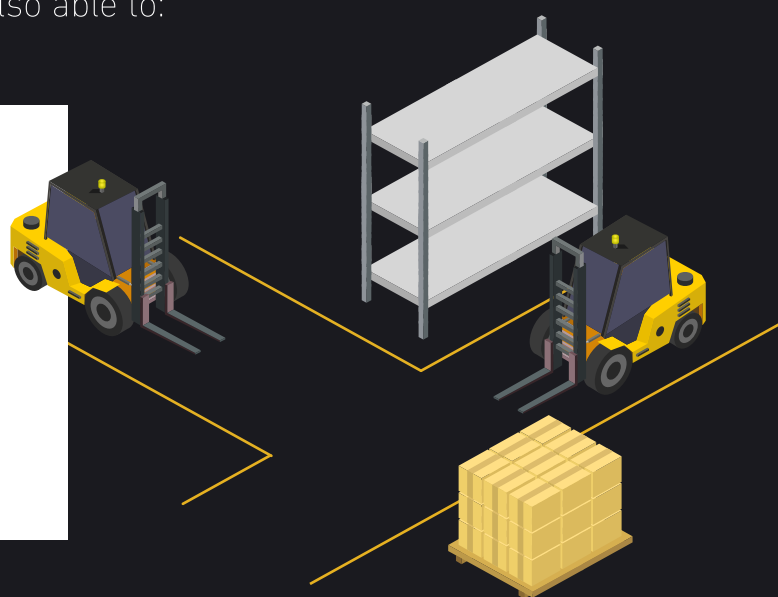
### 3 hours of simulation

uncovered congestion in the picking area, before a single investment was made.

### The Power of Scenario Planning

From that single simulation, planners were also able to:

- Compare multiple layouts and equipment options side by side
- Test "what-if" situations like demand surges or battery change delays
- Visualise the flow of goods in both 2D and 3D
- Identify bottlenecks and design around them
- Predict performance before committing millions in investment



### Why can we trust the simulator's accuracy?

It uses the proven engine behind Europe's busiest airports and rail systems, providing real-world precision.

### Why does it matter?

Studies show warehouse simulation can boost efficiency by up to **25%**

(McKinsey & Company)



+25%

By embedding data into design businesses can:

- future-proof operations
- reduce costs
- improve working conditions for operators.

Start optimising your warehouse with the **Yale® Warehouse Simulator** and see what's possible.