

# Digital factory planning and simulation



Visual reality checks – your guarantee for verified solutions



Technologies · Systems · Solutions

# Intelligent planning – professional implementation

## Step into digital factory and logistics planning designed by Dürr


Digital planning methods have long been established at Dürr and planning processes are no longer imaginable without them. Through the consequent application of these tools Dürr has reached a high level of planning reliability, shortened processing and commissioning times which all lead to substantial cost savings.

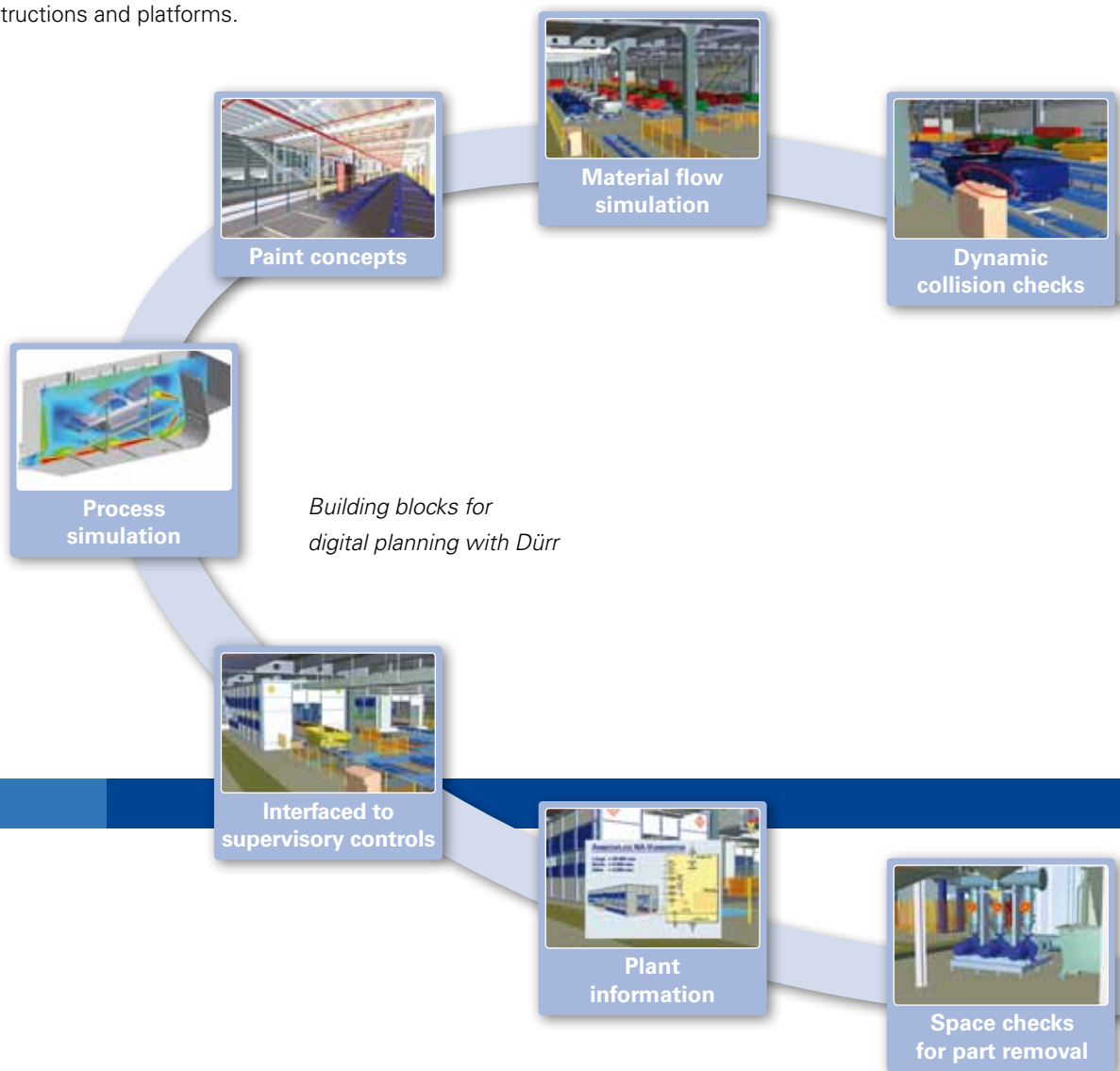
The digital planning results for production and logistics facilities together with their dynamic processes can be completely displayed in a three-dimensional format with the **powerwall**.

It is now possible, in a **three-dimensional layout**, to virtually immerse into buildings, conveyor and process equipment, ducts and pipes, electrical installations as well as steel constructions and platforms.

All **dynamic processes** such as material flow, fluid flow behavior, robot simulation, uptime reliability and shift model, as well as operation modes and controls can be checked and optimized.

Virtual reality designed by Dürr stands for transparency in the planning process together with a realistic and improved understanding of the process for all parties involved.

The powerful virtual reality software allows a three-dimensional visualization on standard PCs right up to stereoscopic multipage projections. 



# Virtual tour through your factory

## Portfolio of tools and expertise

### Factory / plant layout

- 3D layout planning
- Static collision check
- Visualization

### “Digital Factory Planning” consulting

- Introduction and usage of “Digital Factory Planning” tools

### Simulation

- Material flow (process and logistics)
- Robots
- Fluid dynamics
- Ergonomics

### Virtual reality

- Stereoscopic visualization on the powerwall
- 3D layout, interfaced with simulation and supervisory controls
- Virtual tours and training

### Virtual commissioning

- Testing of supervisory controls and PLC through emulation



## Application areas

Dürr stands for interdisciplinary, professional planning services in all areas of automobile and industrial production.

Whether for general production, paint application, logistics or storage technologies – Dürr simulates, checks and ensures the reliability of your layouts and processes.



3D layout



Robot simulation



Ergonomic testing

### Your advantages:

- Shorter construction and implementation times
- Lower planning and operation costs
- Improved quality assurance for products
- Higher flexibility with modifications and adjustments

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## Your advantages with Dürr

- Layout optimization
- Error reduction
- Shorter production lead times
- High process reliability and safety
- Lower costs

[www.durr.com](http://www.durr.com)

