

Intelligent storage, buffer and test system

The automated storage and retrieval system (ASRS) ensures full control and quick response to changes.

System features

- Buffering, sorting, kitting, storing and testing functionality
- Quickly reconfigurable system using step-by-step automation
- Mixed production with full track and tracing
- Automated manipulator loading/unloading solution
- Ergonomic working conditions
- Short delivery times



Stock Flow Management (SFM) functions

The Automated storage and retrieval system (ASRS) is controlled by an SFM program, operating in the following modes:

- **Production buffering**, dynamically solving bottleneck problems during maintenance or production peaks.
- **Sorting**, temporary FIFO storage using several input and output places until batch completion.
- **Kitting**, storage of component, tools and fixtures enabling zero setup and minimal changeover times.
- **Storing**, storing products for a preset time for drying, cooling, heating, or ageing (burn-in).
- **Product testing**, efficient testing equipment utilization through automated and parallel 24/7 testing, with different phases in the same buffer.

The IPC/CAMX communication allows integration to production software (MES) and upper level business systems (ERP) as well as collection of real-time track and tracing production data for statistics, quality documentation, operator instructions and line balancing purposes.



Manipulator and handler



Input / output modules



Shelves and fences



Stock Flow Management