A fresh approach to flexible assembly.
A new direction

Moving forward through innovation, Spaceline – the new linear transfer assembly line from Sortimat.

- for complex products with a large number of individual parts
- high speed and productivity – between 13 and 54 stations
- up to 80 cycles per minute – a maximum of 24 tracks
- extremely accurate positioning – space-saving design – twin drive

Spaceline is not just new. It is a totally fresh approach to flexible assembly. This latest addition to the Sortimat technology range successfully combines proven innovations with an entirely new concept, while setting higher standards in flexibility, output, speed and cost efficiency. Spaceline is a big step forward – in terms of the complete system, and in terms of each and every detail.
Spaceline is a high-precision assembly system that is configured to your specific requirements. It features a new and unique twin drive, and standardized modules that can be combined and tooled according to the task at hand. As a result, Spaceline is highly versatile – ready for whatever challenges the future holds.

Future-proof versatility.

What will your enterprise be manufacturing in the future? With Spaceline, you’ve less reason to worry about the requirements of tomorrow. This highly versatile solution can be configured for a particular product, but still remain open to change. Spaceline’s modular design means that stations can be positioned freely, and replaced or moved. So you can adapt quickly to new, or changing products.

Stations that can be positioned freely, extendable basic modules, a variety of nest sizes, easy to integrate with downstream systems...

Spaceline is extendable. All indexed basic modules can be combined with up to two add-on modules in one assembly direction. And you can include nests of varying sizes for multiple-track assembly, or large products.

Spaceline is highly integrative. Pallets can be transferred directly to downstream systems, such as packaging machines, without the need for a handling unit – ensuring the uninterrupted flow of production.
Twin drive. A smart solution.

Spaceline is the first linear transfer line with a twin drive, designed for rapid, precise assembly—even of complex products. The unique twin drive is a pioneering feature. It combines a highly reliable and robust cam drive for the stations with a servomotor-driven spindle drive for advancing pallets during assembly. Pallet cross transfer is accomplished with indexed forward and backward movements, saving space and providing additional workstations.

Individual machine segments can operate with differing cycle times. As a result, one machine can be employed for several processes and technologies running at a variety of speeds—while total output remains at the same high level.

In many cases, Spaceline eliminates the need for multiple systems, because it combines two pallet cycles and can operate with a variety of nests. As a result, final- and pre-assembly is possible on one machine. This integrated concept is both space-saving and cost-efficient, for example when deployed in cleanrooms.
Making light work of complicated assembly tasks.

For the assembly of complex products, opt for Spaceline and seamlessly integrate complex technology into your assembly processes. Here are just a few examples of the numerous products that this state-of-the-art solution can manufacture.

Insulin pens for the pharmaceutical industry
- Output: 520 insulin pens/minute
- Technologies: Glass handling, vision checks of ampules

Pen cannula for the medical-device industry
- Output: 900 pen cannula/minute
- Technologies: Handling cannula up to 33G, dosing of adhesive or high-frequency welding, flow-rate checks

In vitro diagnostic cartridges for the pharmaceutical industry
- Output: 120 cartridges/minute
- Technologies: Micro dosing of liquids, hot-foil printing, ultrasonic welding, leakage checks

Administration sets for the medical-device industry
- Output: 120 sets/minute
- Technologies: Tube coiling, dosing of solvent, integration with a packaging machine

... in addition: a range of made-to-measure sortimat feeder solutions is available ...
Spaceline technical data.

Machine
Length: basic module 3,710 mm; up to two add-on modules, each 1,400 mm
Width: single assembly direction 1,200 mm;
     forward and backward assembly 2,250 mm
Number of stations: between 13 and 54 stations with 200 mm indexed feed (example only)
Number of tracks: up to 24 tracks
Cycle speed: up to 80 cycles per minute
Positional accuracy: up to +/- 0.1 mm without indexing;
     up to +/- 0.01 mm with indexing

Pallets
Indexing time: approx. 0.3 seconds
Indexed feed: 100, 200 and 400 mm
Length: 200 or 400 mm
Width: between 140 and 220 mm
The best of both worlds. New and proven.

With Spaceline, we have combined proven sortimat technology with completely new features. Our tried-and-trusted modular design has been enhanced, and is now fully extendable — in terms of both width and length. It is also possible to assemble products in both directions. Moreover, this is the first linear-transfer machine with a twin-drive — combining the cam-driven stations from rotary-indexing technology with the familiar servomotor-driven spindle drive.

Added benefits: Every Spaceline comes with the easy-to-operate human/machine interface, User Pilot. If required, a statistics function can be included, and the technology needed for compliance with 21 CFR Part 11 and qualification.

Spaceline – a made-to-measure solution.

Every manufacturer, and every product, requires different things from an assembly line. And the sortimat standard linear transfer platform has been developed with this in mind.

That’s why it can be configured for whatever task you define. As a result, you can be sure to reap the benefits of standardization — and customization.

Spaceline is a fresh, future-proof solution, a new benchmark for assembly technology, and your manufacturing processes.

But that’s enough of the theory. Take a look at the hard facts...