



From line to plane

Flexible material flow for high-mix, low-volume production.

Full flexibility in motion

True 3-DOF motion:

- Simultaneous motion in X, Y and rotation
- Individual routing for every shuttle
- Process stations can be bypassed

Patent-pending integrated drive unit

More than a concept

Demonstrated performance



Positioning accuracy on the production plane

±0.3 mm



Positioning accuracy at the docking station

±0.02 mm



Maximum demonstrated payload

15 kg



Maximum demonstrated speed

3 m/s

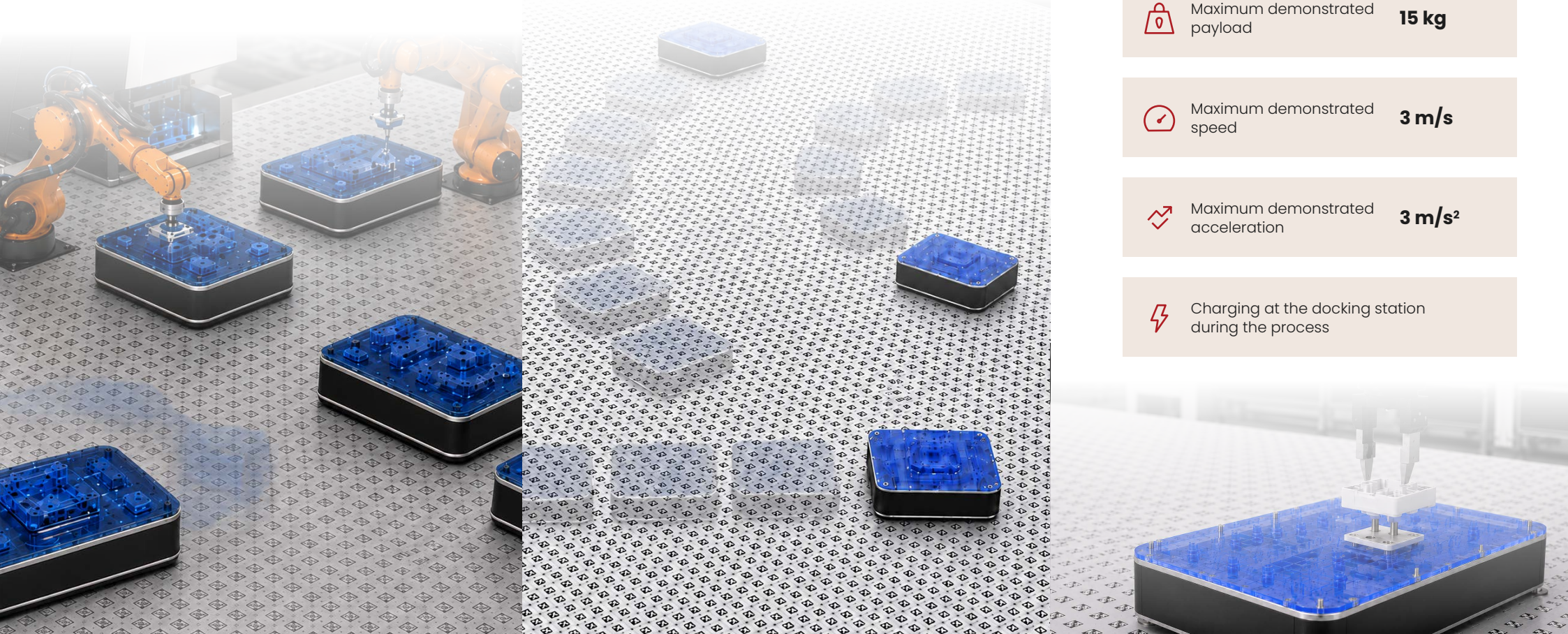


Maximum demonstrated acceleration

3 m/s²



Charging at the docking station during the process



Designed for human interaction



Reduced shuttle speed in human work areas

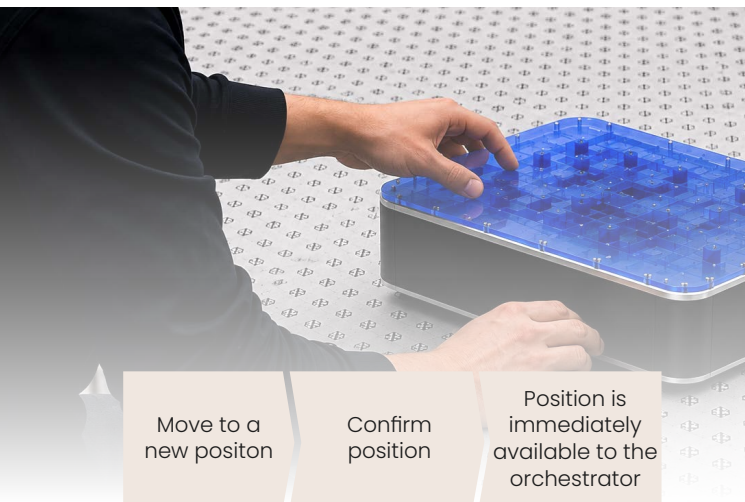


Shuttles can be moved freely by hand



Absolute coded-surface localisation continuously corrects any displacement

Move it. Teach it. Use it.



Move to a new position

Confirm position

Position is immediately available to the orchestrator

Scale. Connect. Adapt

Modular scalability

Add shuttles and process stations as your production grows.

Reuse across processes

Shuttles can be used for multiple products and processes.

Easy integration

Compact design, flexible table layouts and standardised interfaces.

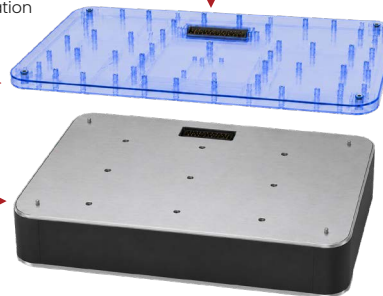
Electrical interface

- Power
- Sensor I/O
- Industrial communication

Customer-specific workpiece carrier

Mechanical interface

- Positioning pins
- Screw connections



Enables firmware flashing, partial commissioning and active product testing directly during transport

Tested OPC UA integration with external process stations and higher-level industrial systems

Become a pilot partner

We are looking for a pilot partner to validate Planaro in a controlled environment and explore its potential together.

Ideal pilot applications

- High-mix, low-volume production
- Assembly & testing
- Lab automation & diagnostics
- Intralogistics & material handling
- Process with frequent changeovers

PLANARO

developed within



supported by

**WISSENSCHAFT.
BEWEGEN**
GEBERT RUF STIFTUNG

Let's shape the future of production together.

planaro.ch

samuel.gasser@planaro.ch

+41 77 447 33 60

