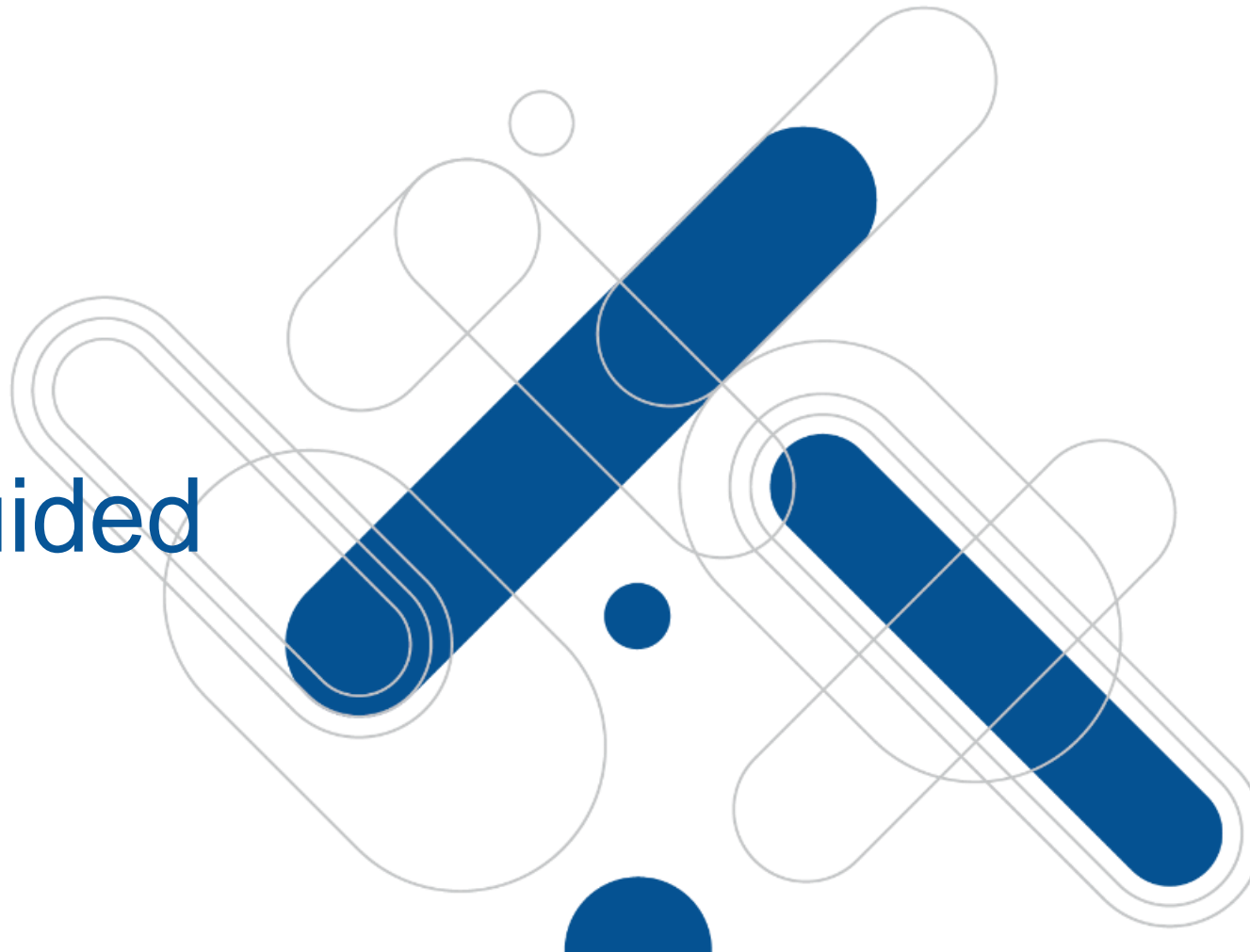


We put innovation to the right course.



Daum + Partner Maschinenbau GmbH

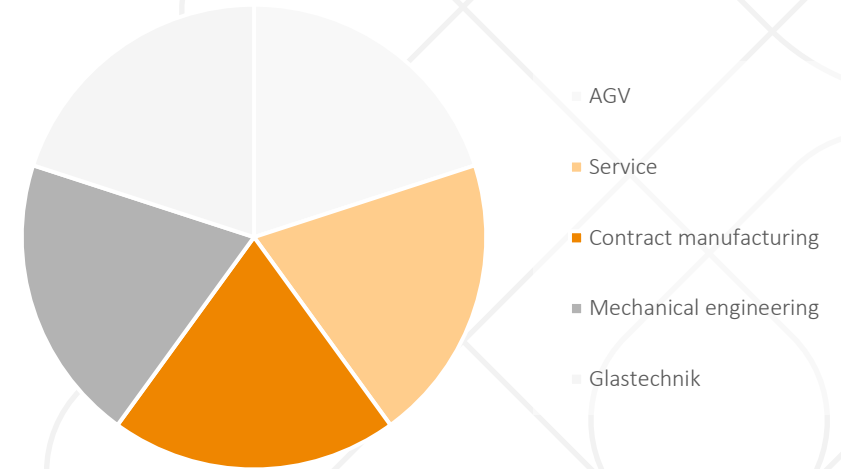
# Automated Guided Vehicles



# 1. Company

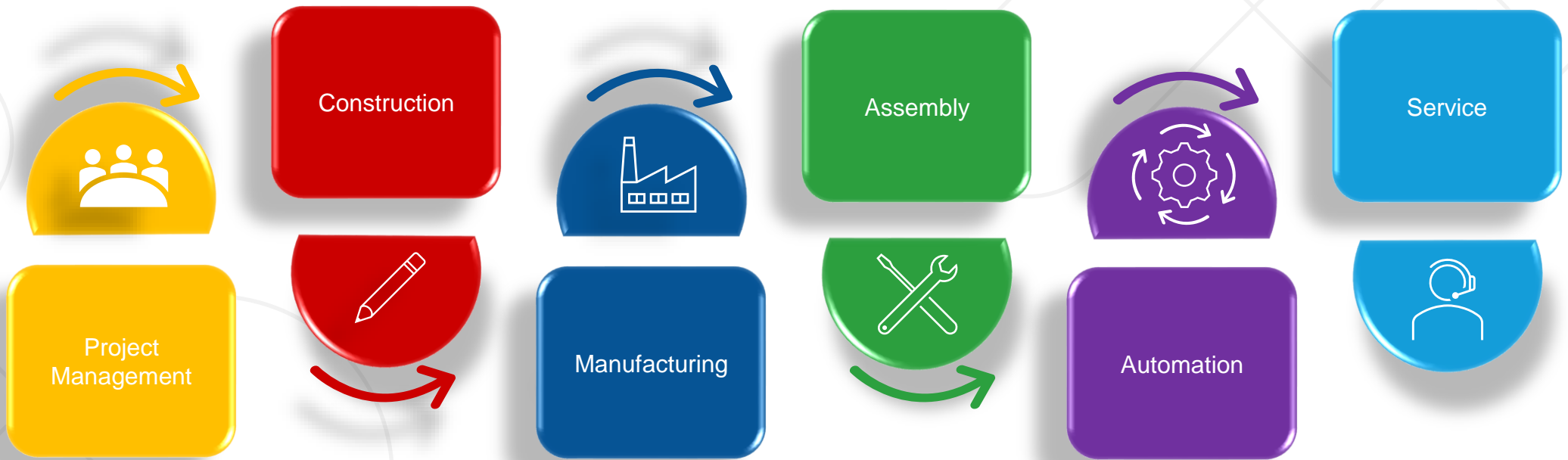
# 1. Company

- Family business in Aichstetten since 1975
- ~ 60 employees
- Mechanical engineering, contract manufacturing and glass technology
- Since 1993: Automated guided vehicles

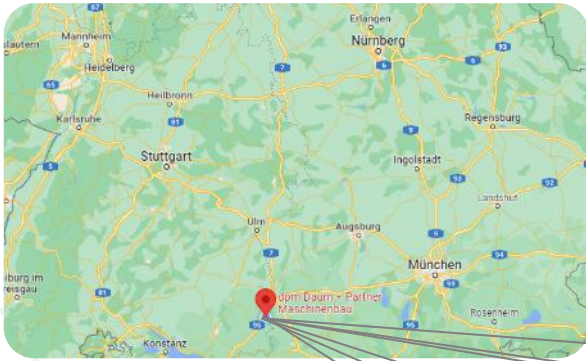


# 1. Company

Holistic solutions from a single source



# 1. Company

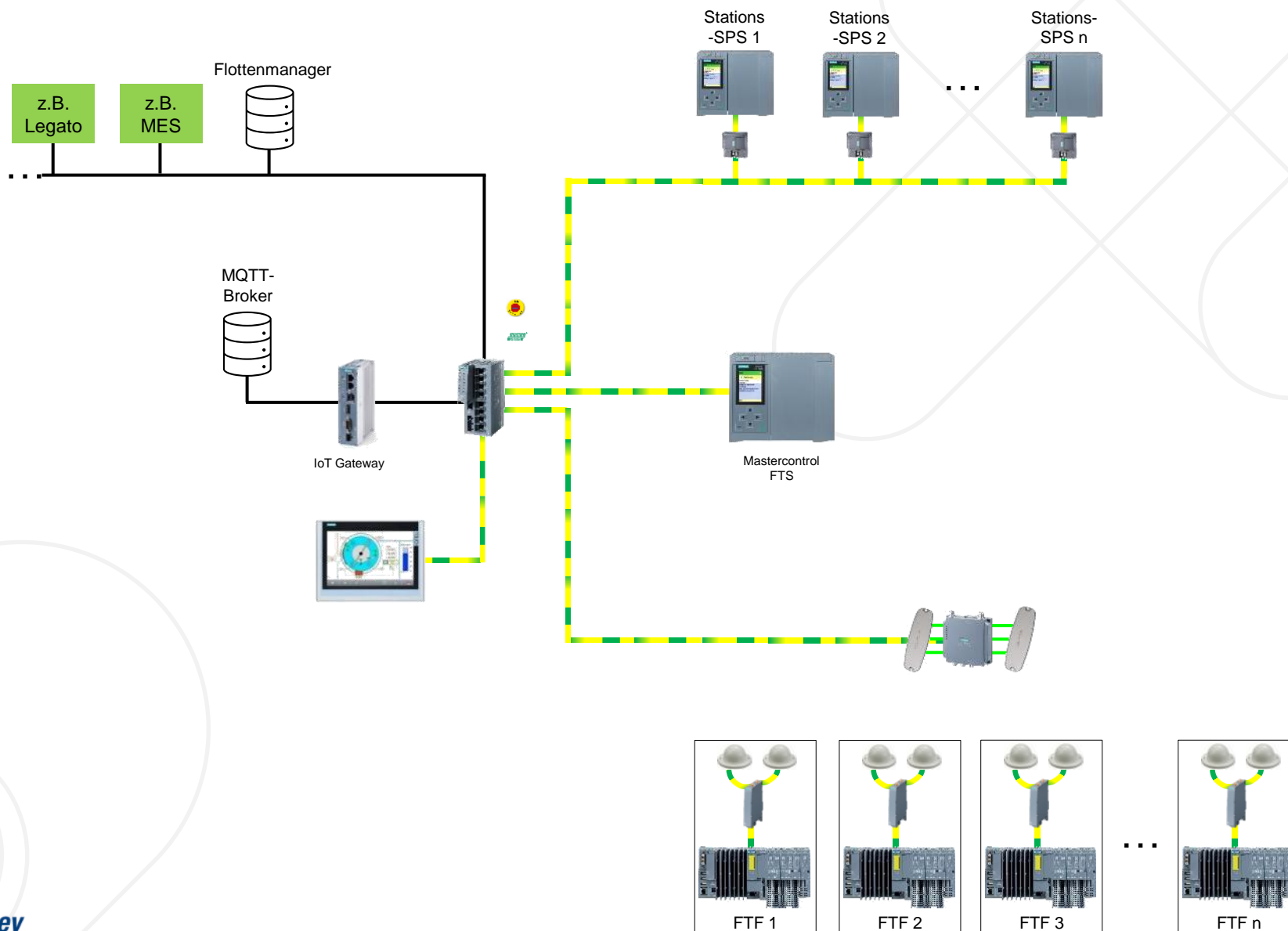


Total over 2,500 vehicles worldwide



## **2. Automated Guided Vehicles**

## 2. Automated Guided Vehicles



Also available with:



## 2. Automated Guided Vehicles

### Control

- Siemens S7
- With free navigation:  
additional IPC

### Communication

- Assembly lines: iWifi,  
Siemens Profisafe
- Logistics applications:  
Standard-Wifi

### Safety

- Laser scanner, Ultrasound
- Safety edges, Safety mats  
etc.





## 2. Automated Guided Vehicles



### Navigation

- Magnetic
- Optical
- Inductive
- SLAM

### Energy supply

- Battery: Lithium, Bleigel
- Inductive energy supply

### Drive

- 48 DC-Servodrives
- (230V)/400V Siemens/SEW

## 2. Automated Guided Vehicles

- All development and manufacturing processes at dpm in Aichstetten
- Selection of standardized AGVs, flexibly adaptable at any time to the respective requirements in terms of dimensions, payload, etc.
- Proven modular system of industrial components
- Reliability, honesty and flexibility

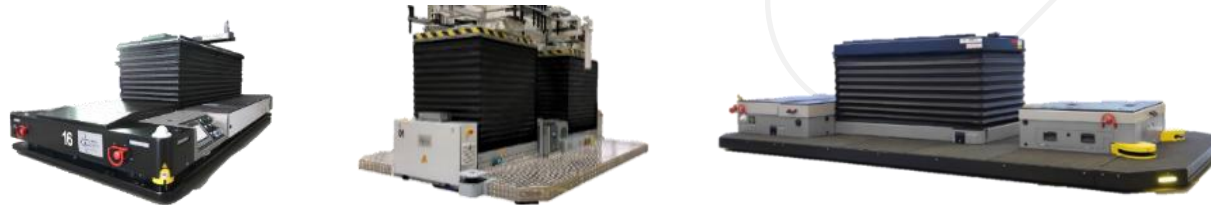


## 2. Automated Guided Vehicles

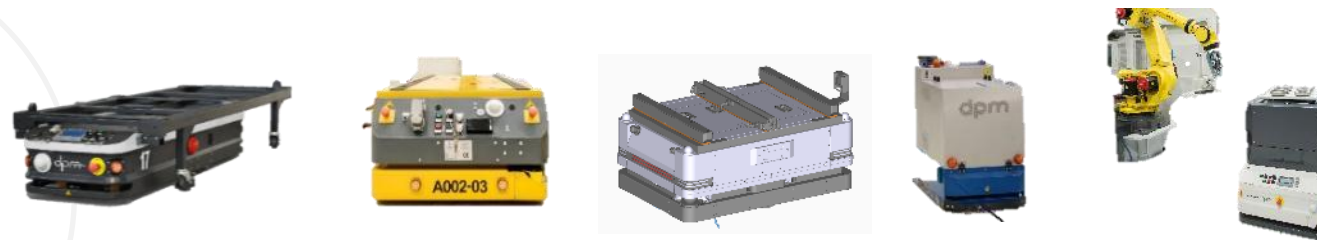
Pre-assembly



Final assemblies

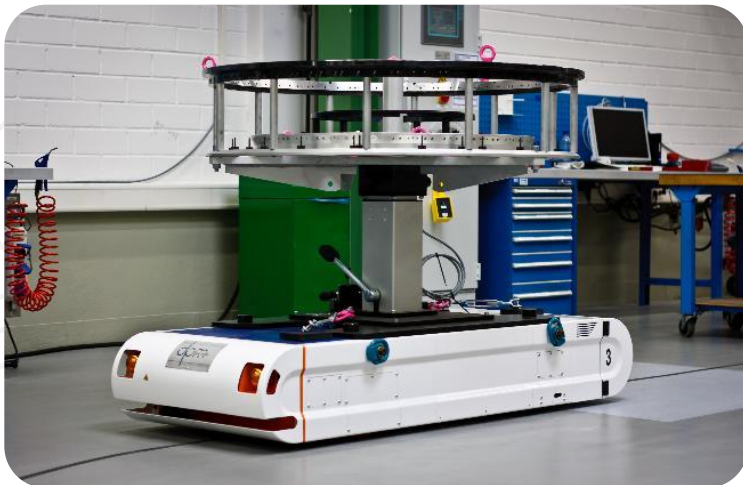


Logistics



## **3. Configurations**

### 3. Configurations



- AGVs for the transport of pre-assembly modules (e.g. bumper)
- Payload: 1 t
- Energy supply: Battery
- Velocity: 1 m/s
- Lane guidance: optical

### 3. Configurations



- AGV for axle assembly
- Feature: one basic vehicle, two devices
- Payload: 0,6 t
- Energy supply: hybrid
  - In the line inductive
  - Return route: Battery
- Velocity: 1 m/s
- Lane guidance: optical



### 3. Configurations



- For the transport of engines and drive units
- Special feature: ergonomic working thanks to lifting or rotary table
- Payload: 0.37 / 0.5 t
- Energy supply: Battery
- Velocity: 1.5 m/s
- Lane guidance: optical, free-navigating (SLAM)

### 3. Configurations



- Assembly AGV for the final inspection of pre-assembly assemblies, e.g. motors and drive units
- Payload: 0.6 t
- Energy supply: Battery
- Velocity: 1 m/s
- Lane guidance: optical, free-navigating (SLAM)



### 3. Configurations



- AGVs for the transport of electric cars and car bodies
- Special feature: modifiable load holders
- Special feature: External power supply for cars possible
- Payload: 1.5 t
- Energy supply: Battery / Induction
- Velocity: 1.5 m/s
- Lane Guidance: optical

### 3. Configurations



- AGVs for automotive weddings or other joining processes
- Special feature: optional: Worker platform for riding along
- Payload: 3 t / 4 t
- Energy supply: Battery
- Velocity: 0.5 m/s
- Lane guidance: optical

### 3. Configurations



- AGVs for the transport of motors
- Special feature: compact design
- Payload: 4.5 t
- Energy supply: Battery
- Velocity: 0.3 m/s
- Guidance: optical



### 3. Configurations



- AGVs for the transport of motors
- Special feature: compact design
- Transport of containers, pre-assembly assemblies, car bodies
- Special feature: Load absorption by pin
- Payload: up to 2 t
- Energy supply: Battery
- Velocity: 1.0 m/s
- Lane guidance: optical

### 3. Configurations



- Logistics AGV for use in body construction (harsh environment IP 54)
- e.g. for the transport of sheet metal parts or car bodies
- Payload: 1.5 t
- Energy supply: Battery
- Velocity: 1.5 m/s
- Lane guidance: SLAM

## **4. Series products**



- For the transport of small load carriers, containers, assemblies, etc.
- Payload: 110 kg
- Dimensions: 750 mm x 575 mm x 350 mm
- Functions: platform, lift table, conveyor, customer's own application
- Control: Siemens S7
- Laser-based navigation with obstacle avoidance
- Interface: VDA5050
- Velocity: 90m/min
- Goods to be transported: 600 mm x 400 mm

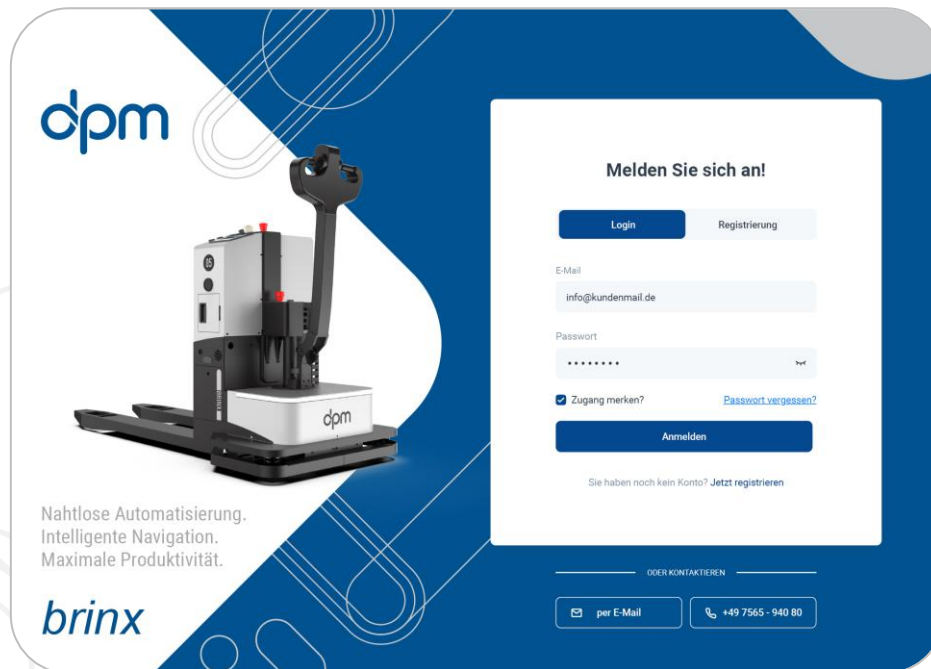


- Suited for the automated transport of pallets
- Easy and quick installation
- Simple operation
- Payload: max. 1t
- Dimensions: 1,794 mm x 860 mm x 1,049 mm
- Power supply: Battery
- Velocity: max. 60 m/min
- Communication: Wi-Fi
- Navigation: optical / free
- Security: Laser scanner
- Control: Siemens S7



## Drive Link

- The remote control for your AGVs
- With this app, you can call your vehicles to you, load them and send them to a desired destination



# Thank you very much

## CONTACT

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