

**IDEC**

**SWD®**  
**SAFETY WHEEL DRIVE**

easier & safer

# SAFETY ON BOARD

**SWD**  
Safety Wheel Drive

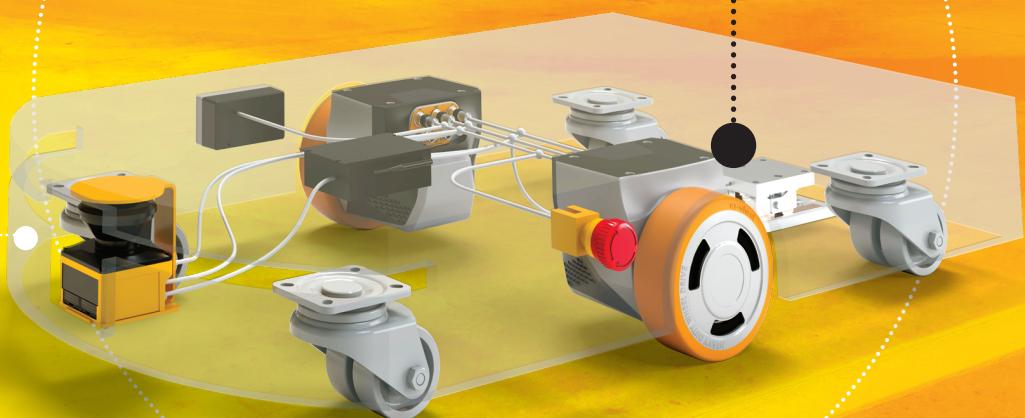


**ez-wheel**  
The Electric Wheel

**EZ-WHEEL SAS**

# THE SIMPLEST MOBILE ROBOT SET-UP EVER

SWD® technology disrupts AGVs and AMRs architecture thanks to its unique level of integration



## COST REDUCTION

- Up to 50% less components
- Simpler and faster assembly



## FIRST-CLASS SAFETY

- Suitable for collaborative robots
- ISO 3691-4 compliance



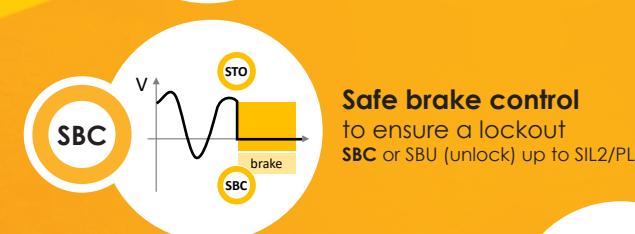
## TIME SAVING

- Shorter engineering time
- Simplified certification process



## MODULAR ARCHITECTURE

- Freedom of integration
- Flexible and scalable

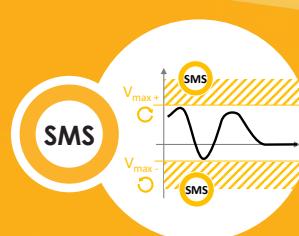


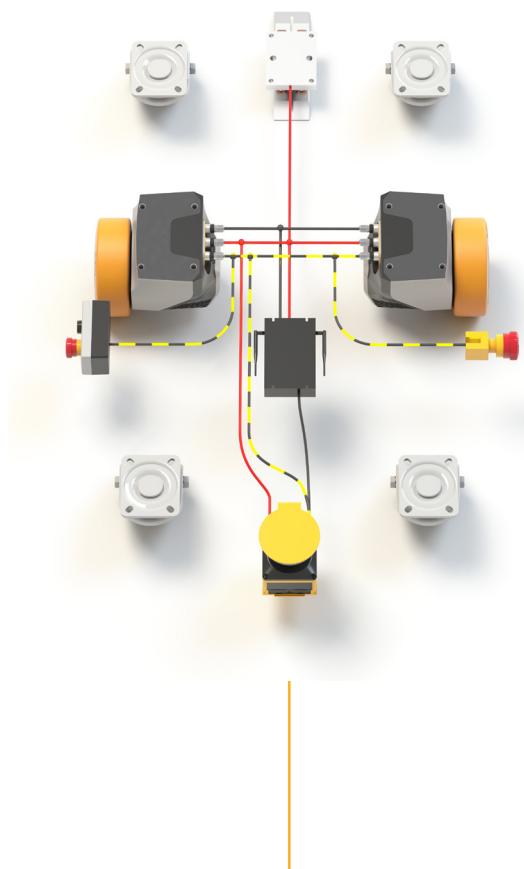
**SDI**

**Safe direction control**  
in case of collision risk  
SDI up to SIL2/PLd



facilitates the  
**ISO 3691-4**  
compliance with





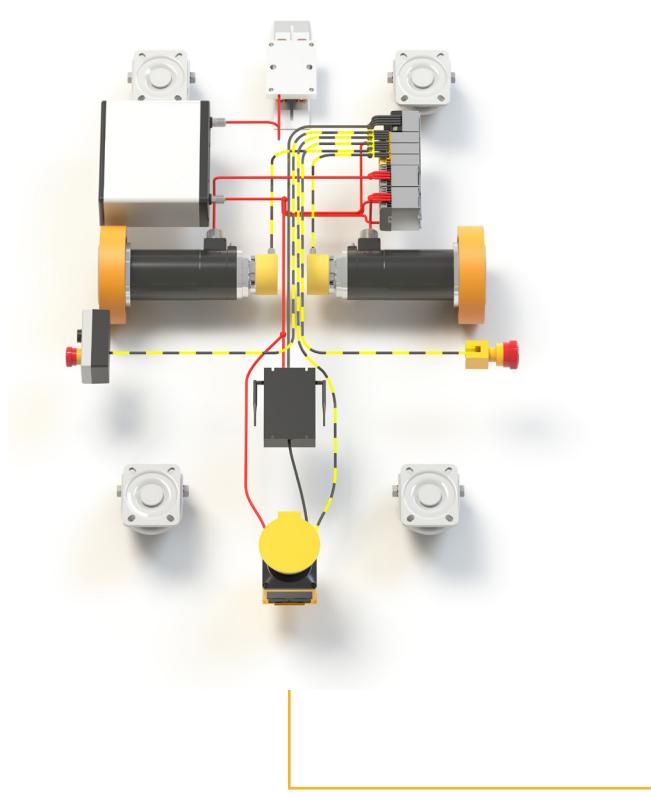
SAFETY WHEEL DRIVES

NAVIGATION PC

SAFETY LASER SCANNER

E-STOPS

## CONVENTIONAL SOLUTION



WHEELS  
GEARBOXES  
MOTORS  
SAFETY ENCODERS

PLC  
SAFETY PLC  
RELAYS  
MOTOR DRIVERS

BATTERY  
CIRCUIT BREAKERS

NAVIGATION PC  
SAFETY LASER SCANNER  
E-STOPS



INDUSTRY



AUTOMOTIVE



LOGISTICS / RETAIL



FOOD PROCESSING



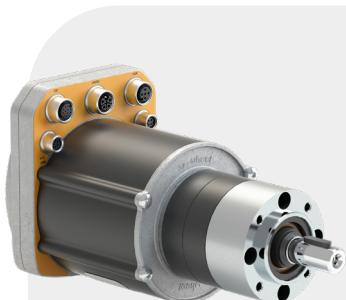
PHARMA / CHEMISTRY



MEDICAL

# UNIQUE TECHNOLOGICAL BRICK FOR ALL INTRALOGISTICS NEEDS

Drives and Wheel Drives with integrated safety



## SWD® Core Gear motor

Peak torque	37 Nm
Nominal power	185 W
Speed range	0 to 130 rpm

Values given for reference ezSWDcore.14/C



## SWD® 125 Medium duty wheel drive

Diameter	125 mm
Peak pushing effort	20 daN 500 kg moved
Max vertical load	250 kg
Speed range	0 to 11 km/h

Values given for reference ezSWD125IM.4/C

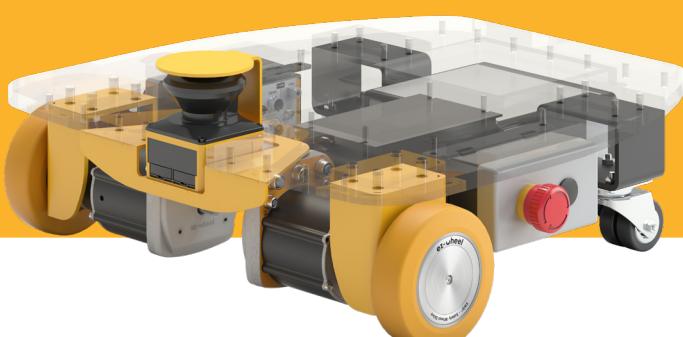


## SWD® 150 Heavy duty wheel drive

Diameter	150 mm
Peak pushing effort	60 daN 1 500 kg moved
Max vertical load	700 kg
Speed range	0 to 3.7 km/h

Values given for reference ezSWD150IH.14/C-x

Discover datasheets, manuals, product options, software support and our pre-packaged kits to accelerate the development of your mobile robot and much more!





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