



MOTORIZED ASSISTANCE

ez-Wheel®
EW1A ASSIST WHEEL DRIVE

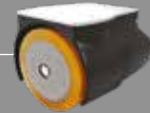
- AUTONOMOUS, COMPACT AND FULLY INTEGRATED WHEEL
- MANUAL HANDLING ASSISTANCE
- HEAVY LOADS TRANSPORTATION
- SUITABLE FOR THE MOST DEMANDING ENVIRONMENTS

EW1A ASSIST WHEEL DRIVES

AWD[®] 150

For industrial use

P.30



AWD[®] 160

For logistics and controlled environments

P.30

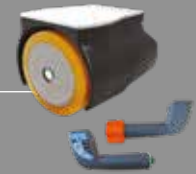


EW1A KIT

AWD[®] 150 Evaluation kit

For easy and quick integration

P.32



SOFTWARE

AWD[®] ez-Config

For Assist Wheel Drive products

P.34



AWD[®] ez-Diag

For Assist Wheel Drive products

P.36



AWD[®] Update tool

For Assist Wheel Drive products

P.38



THE MOST INTEGRATED INDUSTRIAL ELECTRIC WHEELS

THE EZ-WHEEL® ASSIST WHEEL DRIVE RANGE IS A SIMPLE AND EFFICIENT SOLUTION TO QUICKLY BRING ELECTRIC ASSISTANCE TO ANY ROLLING EQUIPMENT OR VEHICLES.



CONCENTRATE OF TECHNOLOGY

- Ultra compact wheel drive
- Patented and award-winning technology



MODULARITY & SIMPLICITY

- Compatible with existing equipment
- User-friendly controls



ERGONOMICS AND USABILITY

- Musculoskeletal disorders prevention
- Ergonomic and customizable solutions

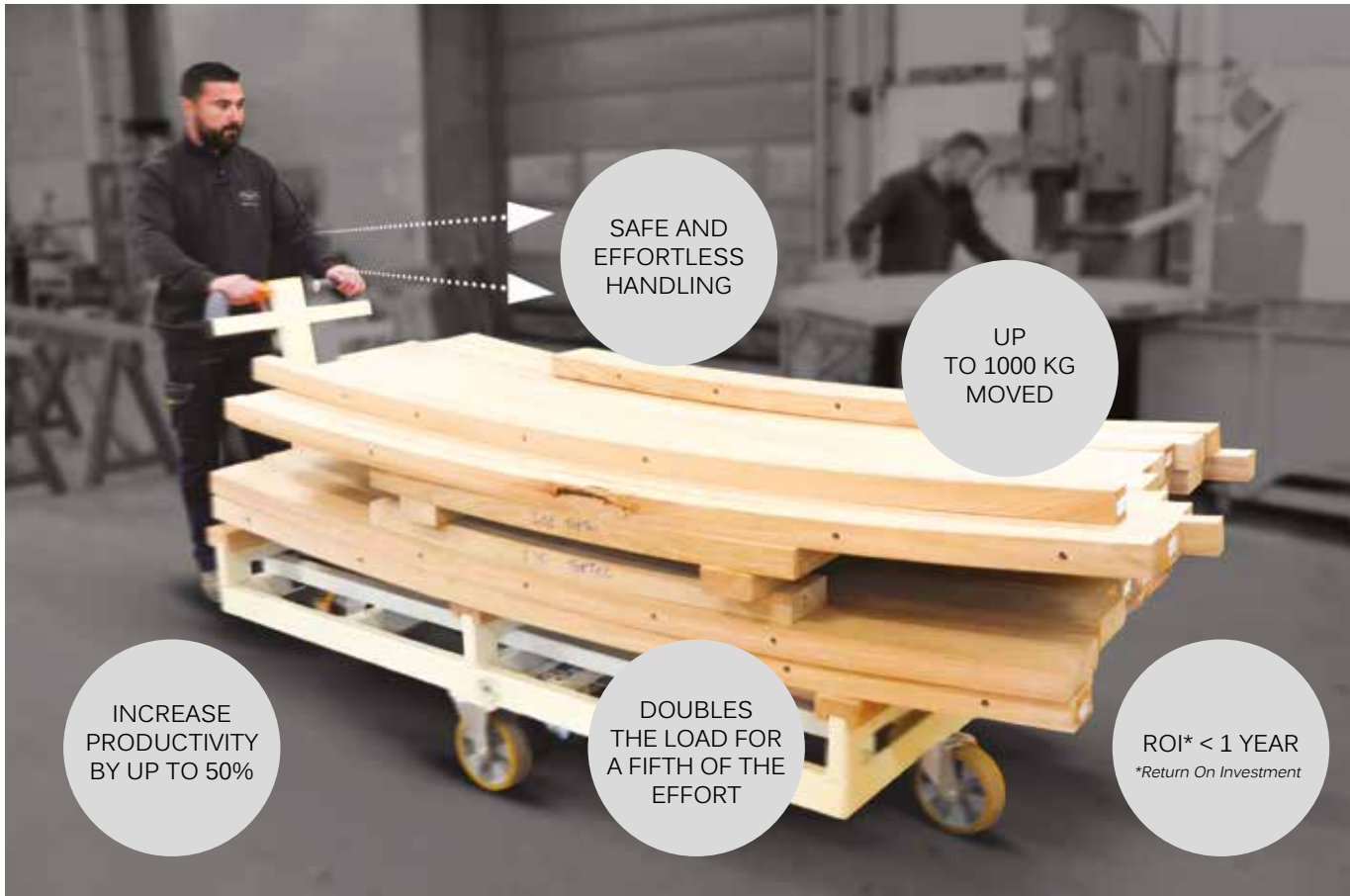


HIGH PERFORMANCE

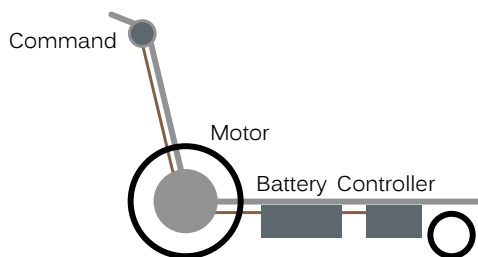
- High load transfer capacity
- Industrial tools modernization



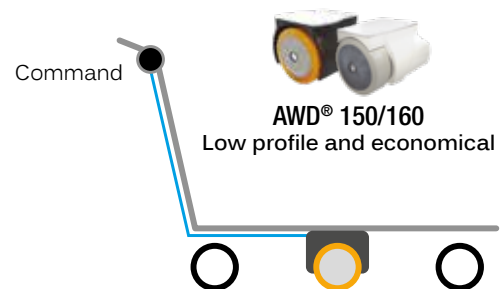
A SAFER AND MORE EFFICIENT HANDLING OF HEAVY LOADS



BEFORE EZ-WHEEL®...



...WITH EZ-WHEEL®



The first electric wheel featuring **embedded motor, batteries and electronics**.

Quick fitting ez-Wheel® technology removes most of peripherals from the chassis, making the integration of these solutions a fast and easy task compared to other alternatives.



EW1A Assist Wheel Drives

AWD® 150/160

For low profile equipment

AWD® 150 AND 160

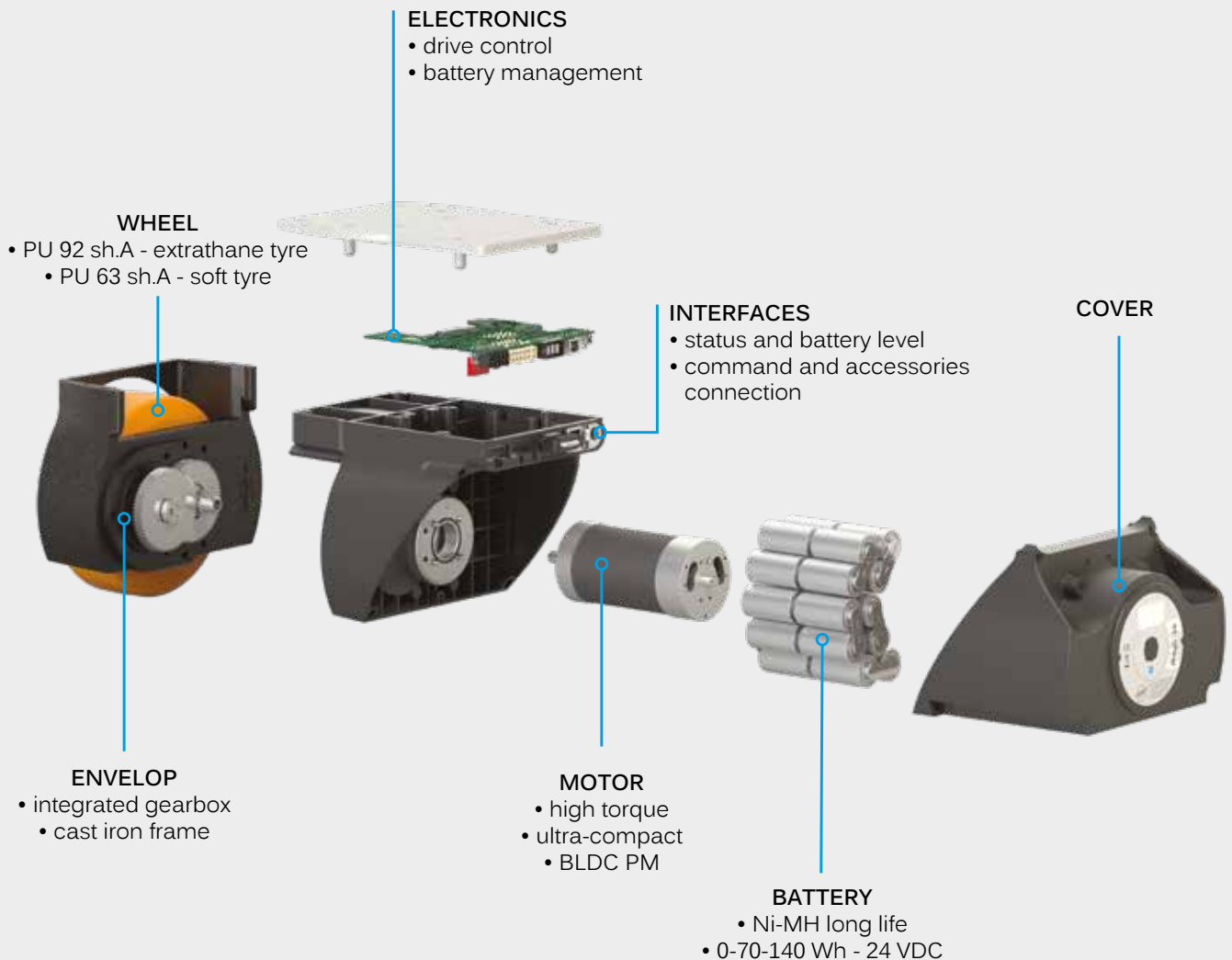
are compact electric wheel ranges designed to facilitate mechanical integration.

SPECIFICATION

- Ø from 150 to 158 mm
- Shockproof
- From IP43 to IP66
- Configurable products: available software - **Pages 34 to 39**

PERFORMANCE

- Up to 1000 kg moved
- From 50 to 400 kg max. vertical load
- From 0 to 5 km/h





DATASHEET

CAD 2D/3D - INSTRUCTION MANUALS

▶ available ONLINE

WHICH WHEEL FOR WHICH USE?

AWD® 150



EW1A-150xxx

- ✓ industrial use
- ✓ IP43
- ✓ shockproof
- ✓ cast iron housing

Available versions - EW1A-150 **H** **N** **A**



H Type of tyre

H: PU 92 sh.A (yellow tyre)
S: PU 63 sh.A (green tyre)



N Internal battery(ies)*

N: Without battery
1: One battery
2: Two batteries



A Parking brake

A: Without brake
B: With brake

AWD® 160



EW1A-160MxA

- ✓ controlled environment and logistics use
- ✓ IP66
- ✓ high pressure jet cleaning
- ✓ antistatic wheel

Available versions - EW1A-160M **N** **A**



N Internal battery(ies)*

N: Without battery
1: One battery
2: Two batteries



* Internal battery for AWD® 150/160
EW9Z-1BINT03V

REFERENCE	Designation
EW1A-150HxA	AWD® 150 wheel Industrial rubber with x battery(ies)
EW1A-150HxB	AWD® 150 wheel Industrial rubber with x battery(ies), with Brake
EW1A-150SxA	AWD® 150 wheel Industrial rubber with x battery(ies), with Soft PU
EW1A-150SxB	AWD® 150 wheel Industrial rubber with x battery(ies), with Brake and Soft PU
REFERENCE	Designation
EW1A-160MxA	AWD® 160 wheel Medical rubber with x battery(ies)
REFERENCE	Designation
EW9Z-1BINT03V	Internal battery for AWD® 150/160

EW1A KIT

AWD® 150 Evaluation kit

Typical kit to address a low profile use case

EW1A-SK150A KIT

provides a quick electrical assistance for industrial manual handling equipment such as tool trolley, rolling equipment for factories, mobile workstation, etc.



AWD® 150 Evaluation Kit
EW1A-SK150A



1 Electric wheel
EW1A-150S2A
Page 30

2 Suspension bracket (for heavy loads)
EW9Z-1MCS3
Page 77

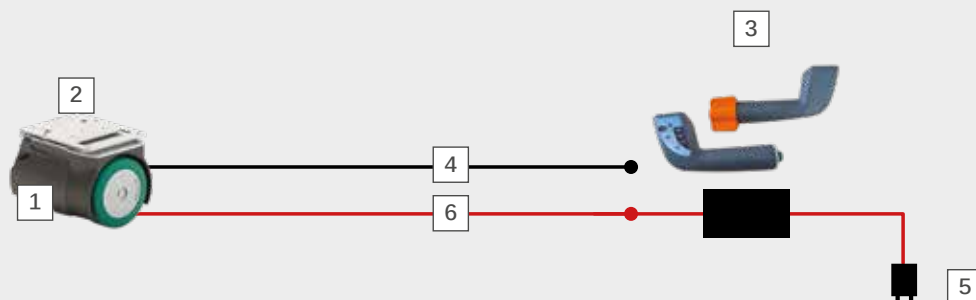
3 Rotating handle with button & display
EW9Z-1ARH2
Page 60

4 Adapter cable 3 meters
EW9Z-1AC3M
Page 72

5 1,8 Amp charger
Mascot1A8
Page 74

6 Charge cable
EW9Z-1CCxMW
Page 72

CABLE COMPATIBILITY





CONFIGURATION SOFTWARE FOR ASSIST WHEEL DRIVE PRODUCTS

► available ONLINE

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BUSINESS SECTORS

MOTORIZED ASSISTANCE

MOTORIZATION FOR AUTOMATION

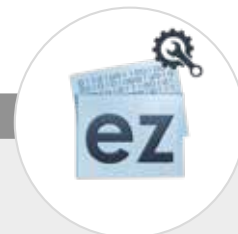
ACCESSORIES

REFERENCE	Designation
EW1A-SK150A	Assist Wheel Drive AWD® 150 evaluation kit (A)

AWD® ez-Config

for Assist Wheel Drive products

Configure your wheel



EZ-CONFIG is the core of the ez-Wheel® solutions. Thanks to their open connectivity, wheels and hand controls are programmable and can be perfectly adapted to any situation.

BENEFITS

- Simple and complete interface
- Precise configuration of the wheel behavior
- Ability to save configurations

PRODUCT COMPATIBILITY

- AWD® 150 and 160 - **Page 30**

OPERATING STEPS

1

ANALYSE

- Evaluate and understand the working place characteristics



2

CONNECT

- Open ez-Config and connect ez-Wheel® devices via a USB port



3

CONFIGURE

- Configure wheels and accessories
- Save parameters



TECHNICAL SPECIFICATIONS

EN

English
interface



Windows compatibility
7 and above



Offline
software



SOFTWARE AVAILABLE FOR DOWNLOAD

► on the ez-wheel.com website in the 'Download' section

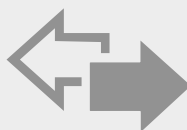
FEATURES SPECIFICATIONS

- This set of intuitive functions has been developed and adapted on the basis of years of experience and meets the requirements of every user.



Speed definition

Define the speed of the wheel.
Forward and Backward speed can be differentiated.



Direction change

Adjust the behaviour of the wheel during a change in the set direction.
2 modes are available:
"Deceleration" and "Inversion".



Max speed mode

Set the behaviour of the wheel when the rolling speed exceeds the maximum speed value entered in ez-Config.



Acceleration time

Set the acceleration time according to your needs.
e.g. slow for patient moving, fast for picking trolley.



Deceleration mode

Choose the deceleration behaviour when releasing the hand control.
e.g. motor brake resistance, free wheel to continue rolling.



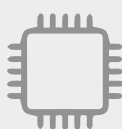
Start time limiter

Limit the motor drive time for each start. When the hand control is released, the wheel goes back to the selected deceleration mode.



Auto stand-by

Enter a value in seconds corresponding to the waiting time between the absence of activity on the hand control and switching back to stand-by.



Inputs Outputs

Configure external interfaces for the displays, buttons, external power supply.

+
Free of charge software



+
ID login & Password on demand



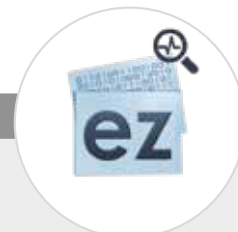
+
Available from our website



AWD® ez-Diag

for Assist Wheel Drive products

Diagnose your wheel



EZ-DIAG is your first device diagnostic assistant. This tool enables remote troubleshooting, making it quick and easy to get your equipment back into service.

BENEFITS

- Simple and complete interface
- General state of your device, in real time
- Quick diagnostic of your ez-Wheel® devices

PRODUCT COMPATIBILITY

- AWD® 150 and 160 - Page 30

OPERATING STEPS

1

CONNECT

- Open ez-Diag and connect ez-Wheel® devices via a USB port



2

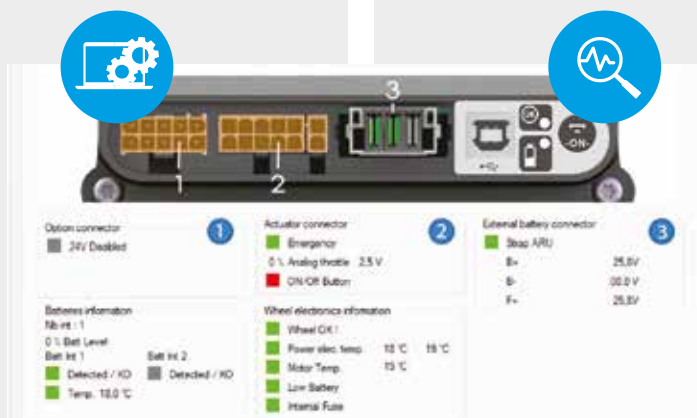
LAUNCH

- Get all the key parameters of your device gathered on the same spot

3

DIAGNOSE

- Understand the status of your device and identify errors
- Share diagnostics for a simplified support



TECHNICAL SPECIFICATIONS

EN

English
interface



Windows compatibility
7 and above



Offline
software



SOFTWARE AVAILABLE FOR DOWNLOAD

▶ on the ez-wheel.com website in the 'Download' section

FEATURES SPECIFICATIONS

Devices identities:

Serial Number,
software version



Devices status



Command state

Command setpoint,
On/Off status



Temperature monitoring

Motor, battery, electronics



Over/ undervoltage



Protections state

Emergency stop,
fuse



Battery monitoring

Charge level, voltage,
low battery status



Free of charge software



Without installation
or identification



Available from our website



AWD® Update tool

for Assist Wheel Drive products

Update your device

UPDATE TOOL

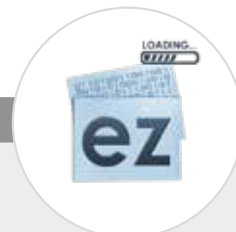
This tool provides the latest release for all your Assist Wheel Drive devices.

BENEFITS

- Easy access to the latest versions
- No risk: error-free update and configuration
- Fully automated management for convenience

PRODUCT COMPATIBILITY

- AWD® 150 and 160 - Page 30



OPERATING STEPS

1

CONNECT

- Open Update tool and connect ez-Wheel® devices via a USB port



2

LAUNCH

- Get an overview of your device version
- Start software update of your device



TECHNICAL SPECIFICATIONS

EN

English
interface



Windows compatibility
7 and above



Offline
software



Free of charge software



Without installation
or identification



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