

podis - power distribution system

Powerbus Systems

for Airport Applications

podis® Power Bus System



podis® is a modular, pluggable power bus system for decentralized power distribution and simplifies the

- Planning and Design
- Procurement and Material Flow
- Installation and Set-up
- Maintenance and Service

podis® replaces traditional conduit, junction boxes and the need to pull wire and cable through ridged metal tubing.

podis® reduces electrical installation costs by up to 75 percent vs. traditional wiring methods.



podis® Power Bus System



The special features of *podis*® provide unique advantages in the applications of airport baggage conveyors.

These features also provide similar advantages in automated assembly production and wind turbine tower illumination.



podis® Power Bus System



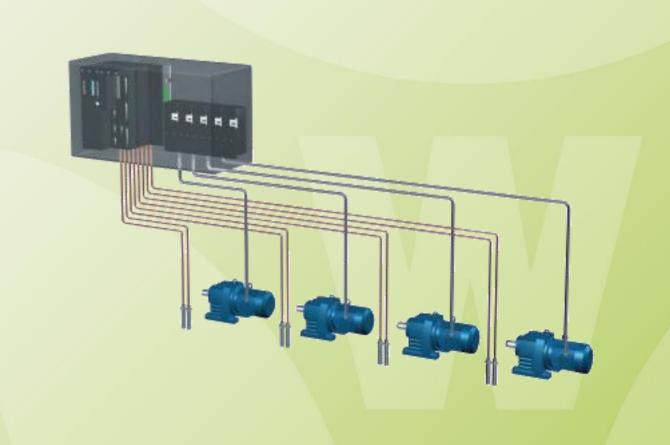
Advantages of decentral installations

- Less wiring, fewer cables
- Simplified structures
- Dedicated for extensive machines and plants



Note:

The longer the cables and the more drives applied, the more podis pays out its advantages.



podis® Product Group



podis® CON

podis® EFC

podis® LED

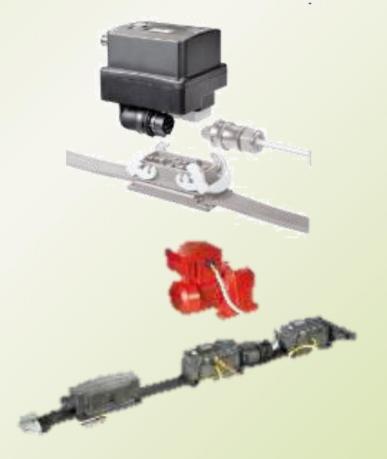
podis® S+A

Decentral Power Distribution

Electronic Field Components

LED-Luminaires, Emergency light Specialties and Accessories





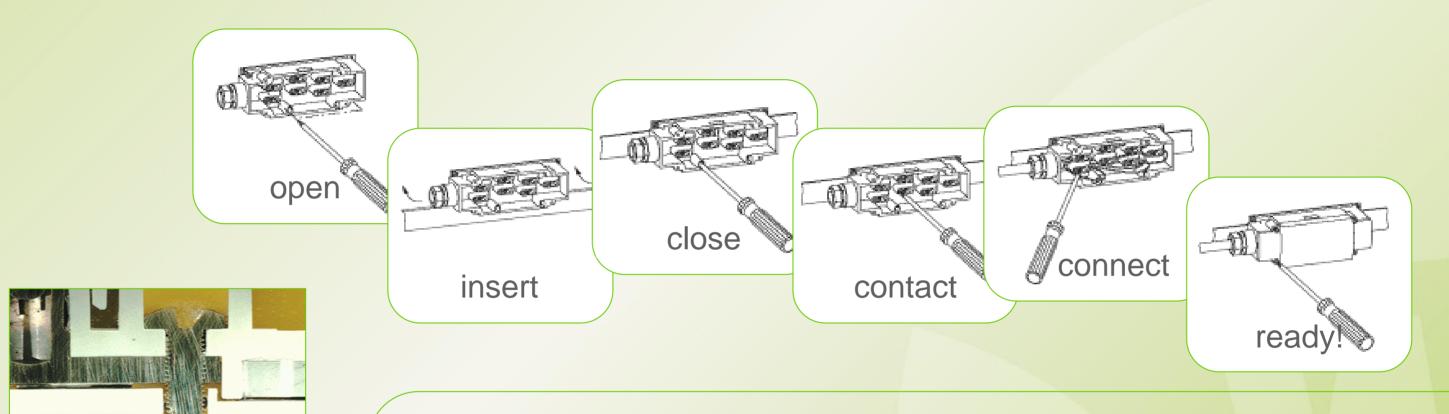




podis® Piercing Contacts



The fastest, easiest, faultless, and waste-free installation method.





The connecting devices are contacted by piercing contacts to the TC-ER cable power bus.

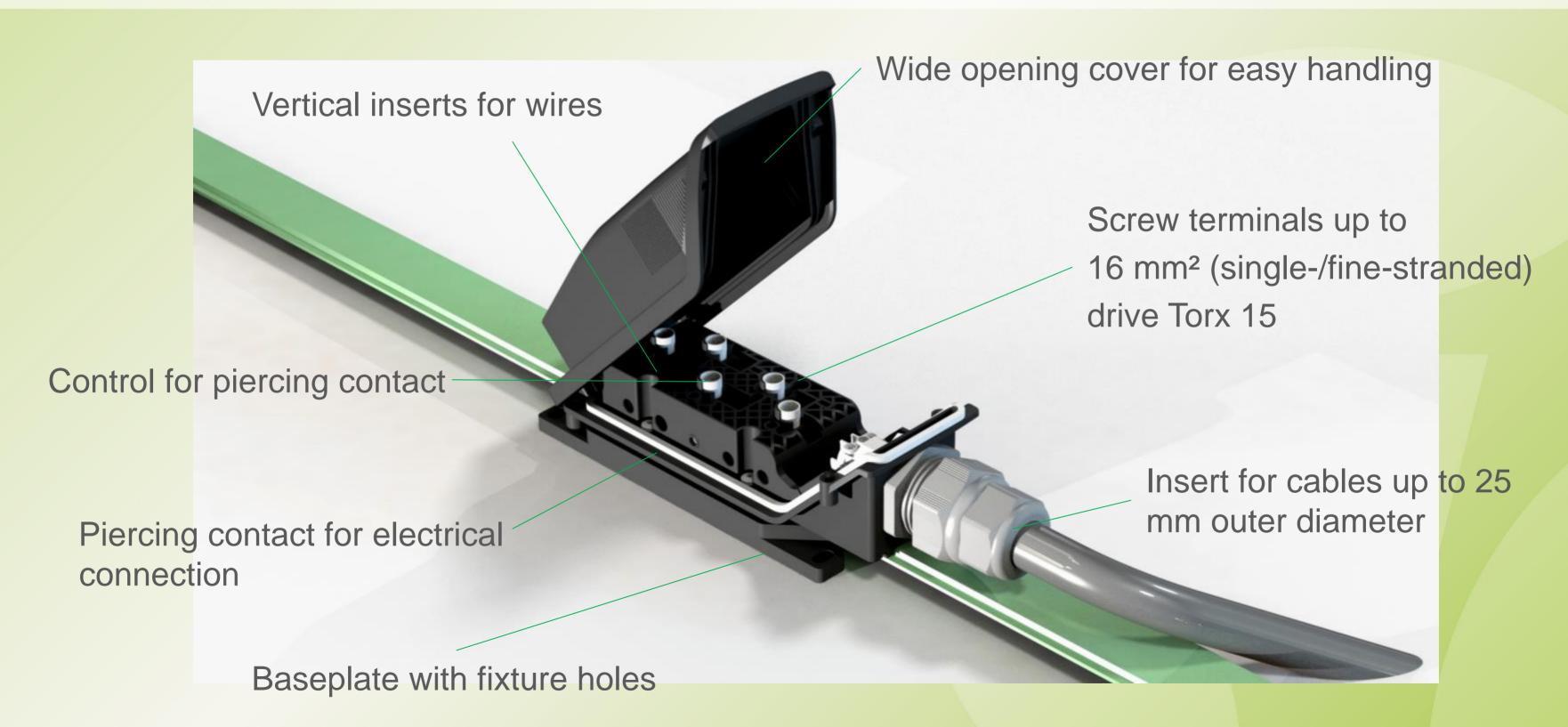
Dismantling and cable striping is no longer required.

Errors are ruled out by the mechanical coding of the TC-ER cable.

You simply can not install faster, easier, and with more flexibility than with *podis*® power bus.

podis® CON 5G6 Powerbus System

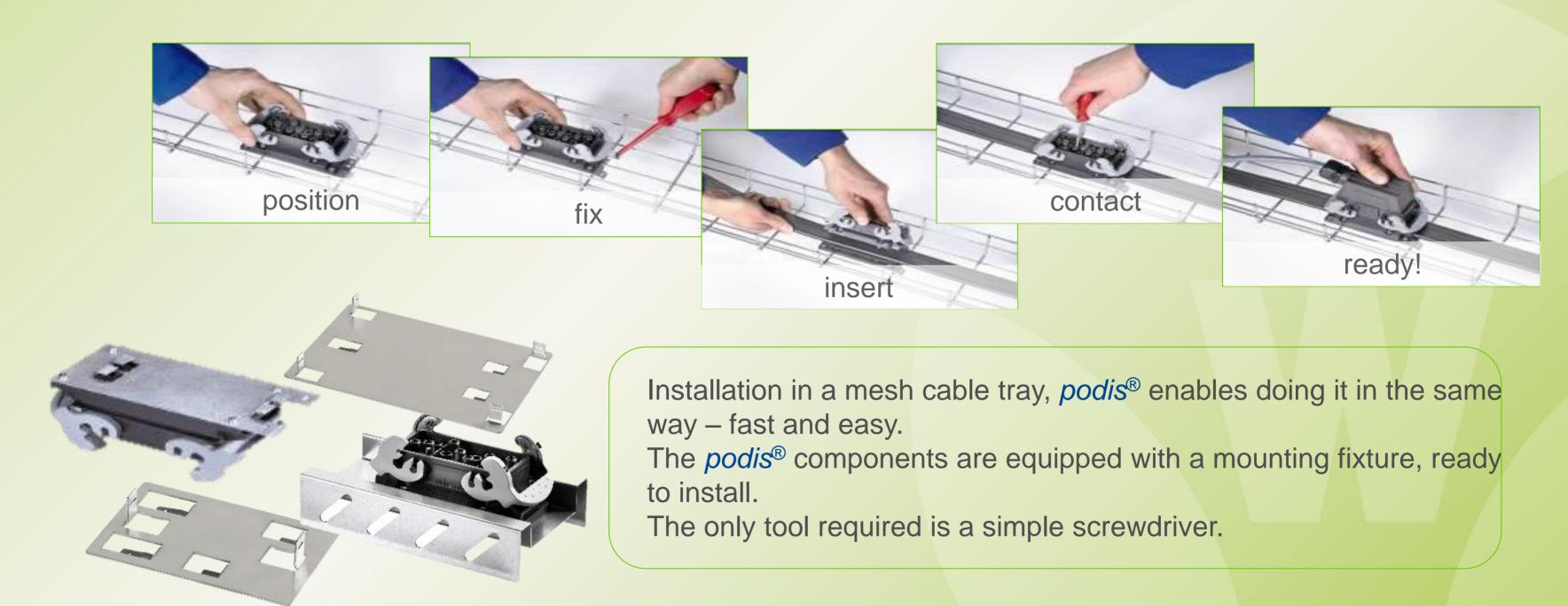




podis® Mounting Plates

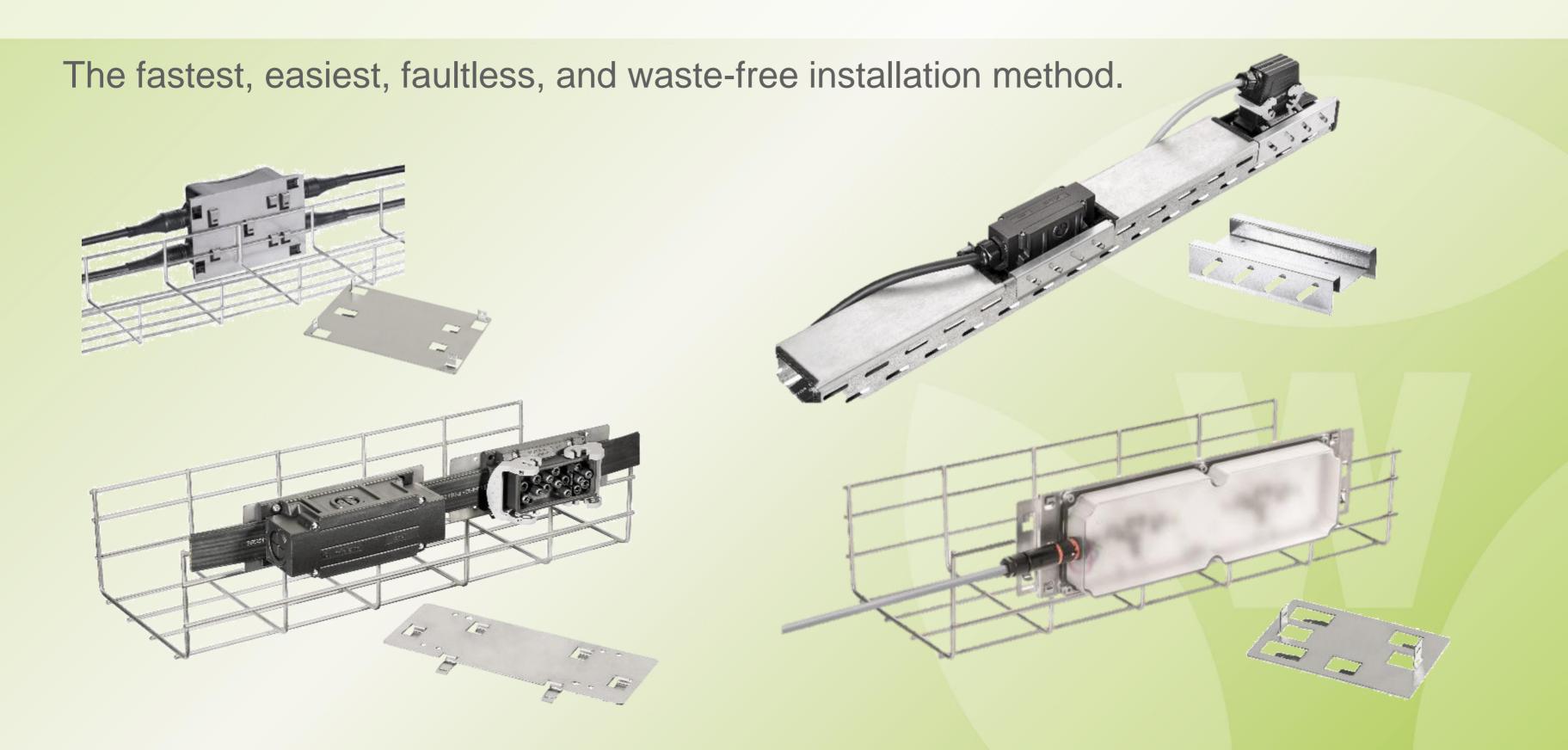


The fastest, easiest, faultless, and waste-free installation method.



podis® Piercing Contacts

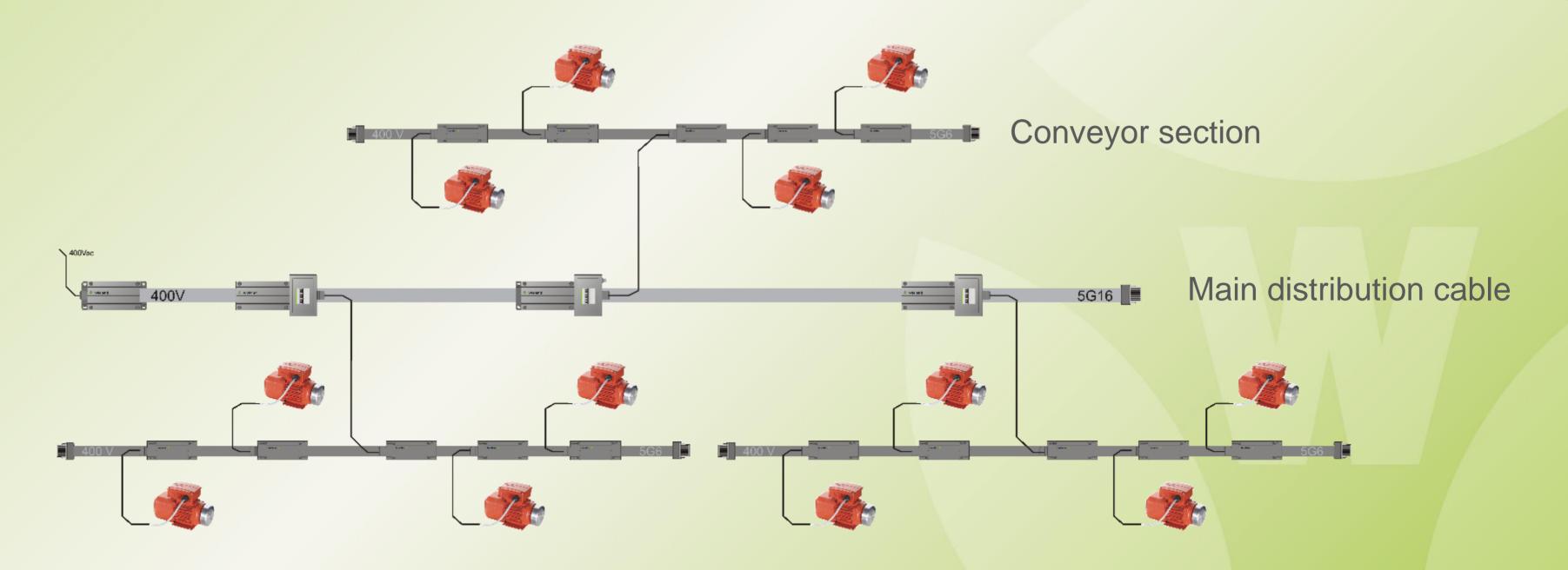




podis® CON 5G16 Powerbus System

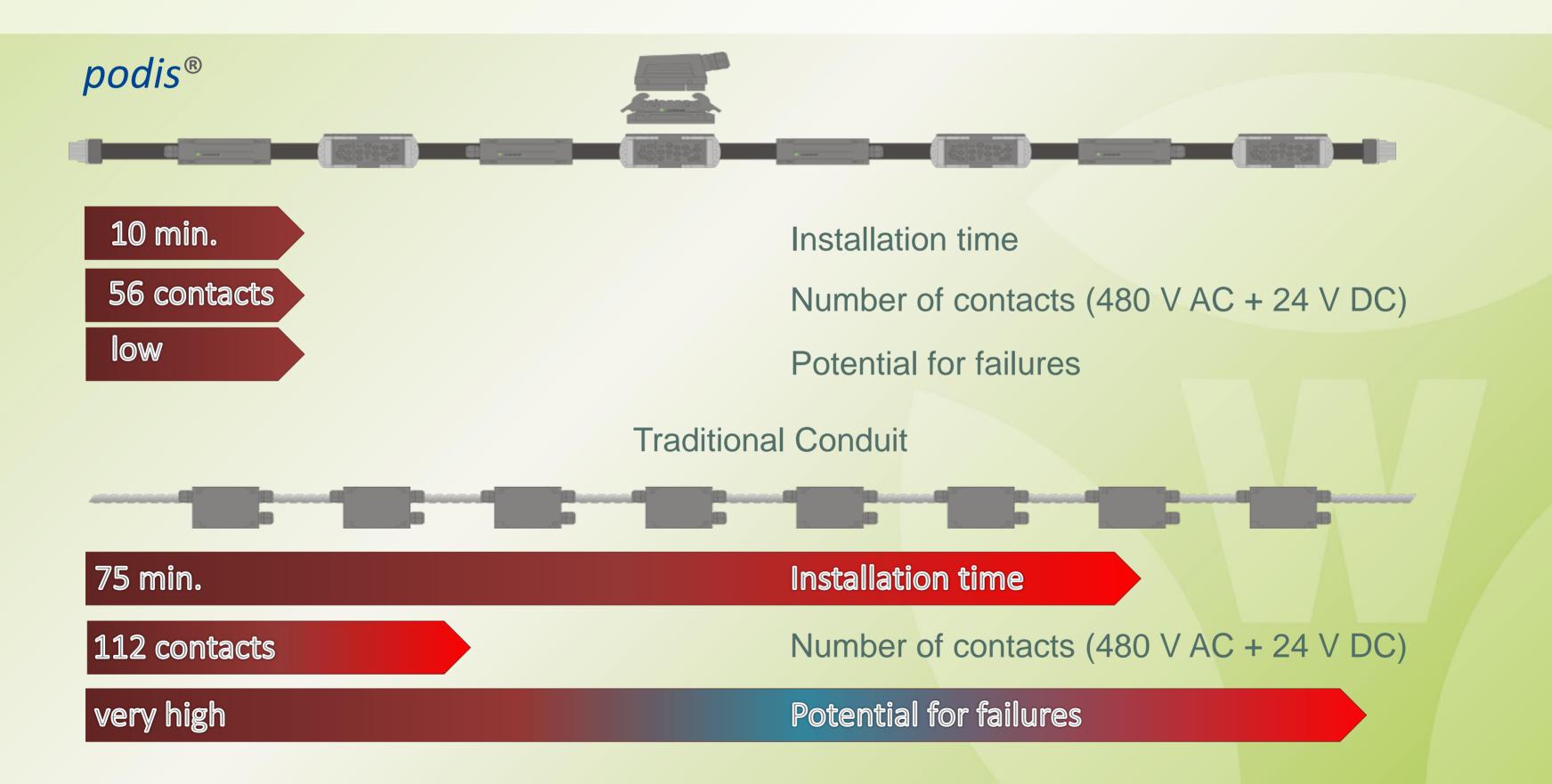


Example system configuration, Conveyor System



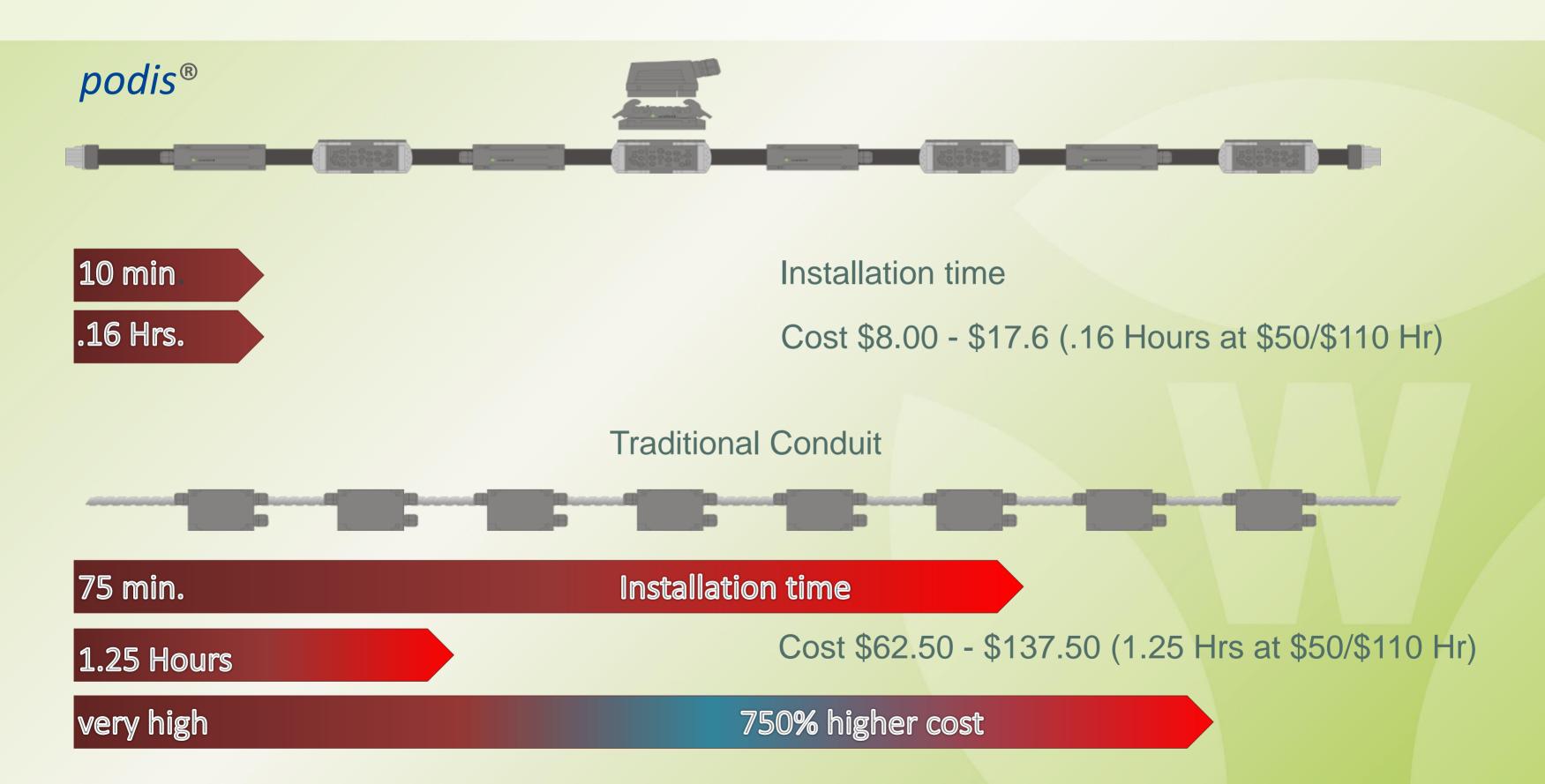
podis® Installation Comparison, Length 12M, 8 Motor Drops





podis® Comparison of labor cost.





podis® Powerbus System - Applications



Luggage handling systems on airports



- Terminals
- X-ray areas
- Backtracks

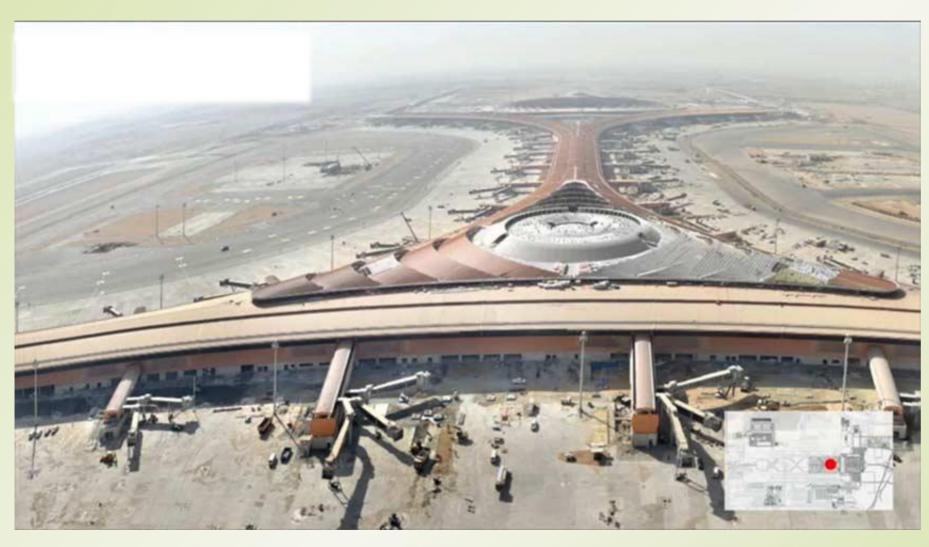


- → Tray cable
- → Connection module
- → Pluggable tap-off modules

podis® CON podis® CON



Jeddah King Abdulaziz International Airport, Saudi Arabia, 2012





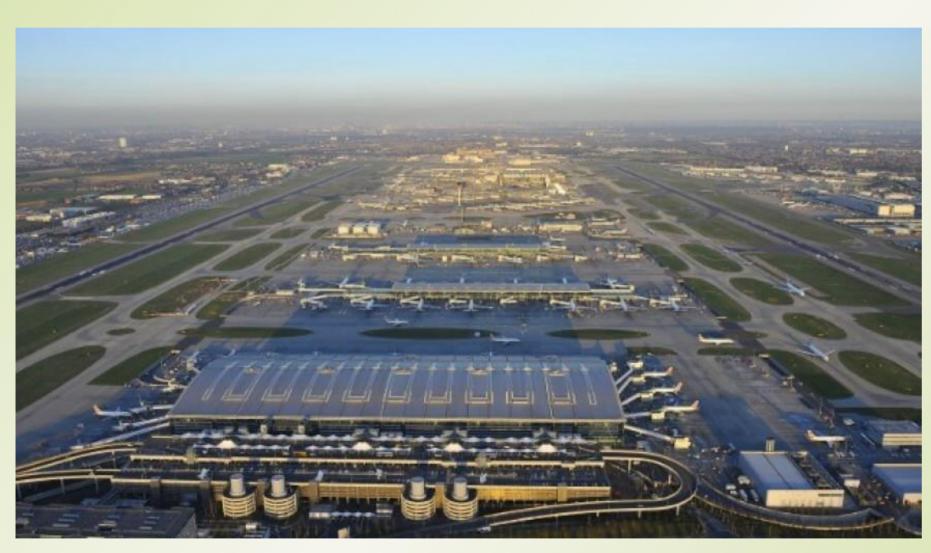
- Luggage handling system
- more than 50.000 m cable
- more than 5.000 connection modules

- → Tray cable
- → Connection module
- → Pluggable tap-offs

podis® 7G4
podis® CON
podis® CON



London Heathrow, Great Britain





- Luggage handling system
- close to 10.000 connection modules
- BAA does not keep podis[®] spare parts!

→ Tray cable

→ Connection module podi Because of highest reliability!

podis® 7G4 podis® CON



Toronto, Canada, 2015





- Luggage handling system
- UL and CSA approval
- Power distribution for drives, + LED-lights

- → Tray cable
- → Connection module
- → LED-lights

podis® 7G4
podis® CON
podis® LED



Vancouver, Canada, 2015



- Baggage Handling System, 6,000m
- UL and CSA approval, 2100 motor drops





- → Tray cable
- → Connection module



podis® 7G4
podis® CON



Macau Ferry Terminal and Guiyang Airport, China, 2012





- Luggage handling system
- Power distribution

- → Tray cable
- → Connection module

podis® 7G4 podis® CON



Singapore Changi Airport, Singapore





- Luggage handling system
- Power distribution
- 3.000 connections in T1 and T3

- → Tray cable
- → Connection module

podis® 7G4 podis® CON

podis® - Advantages



The fastest, easiest, error-free and waste-free way of installation.

- Planning time
- Planning complexity
- Procurement effort
- Effort in material flow
- Installation complexity
- Installation effort
- Installation time
- Labor cost
- Cable length
- Offcuts, waste
- Operational safety

- Service friendliness
- Availability
- Service time
- Start-up time
- Corrosion resistance
- Higher current, higher load
- Lower voltage drop
- 1 Longer cable sections
- More drives per segment
- Fewer feed-in connections, fewer feeder cables
- Material cost





Many thanks

www.wieland-electric.com