

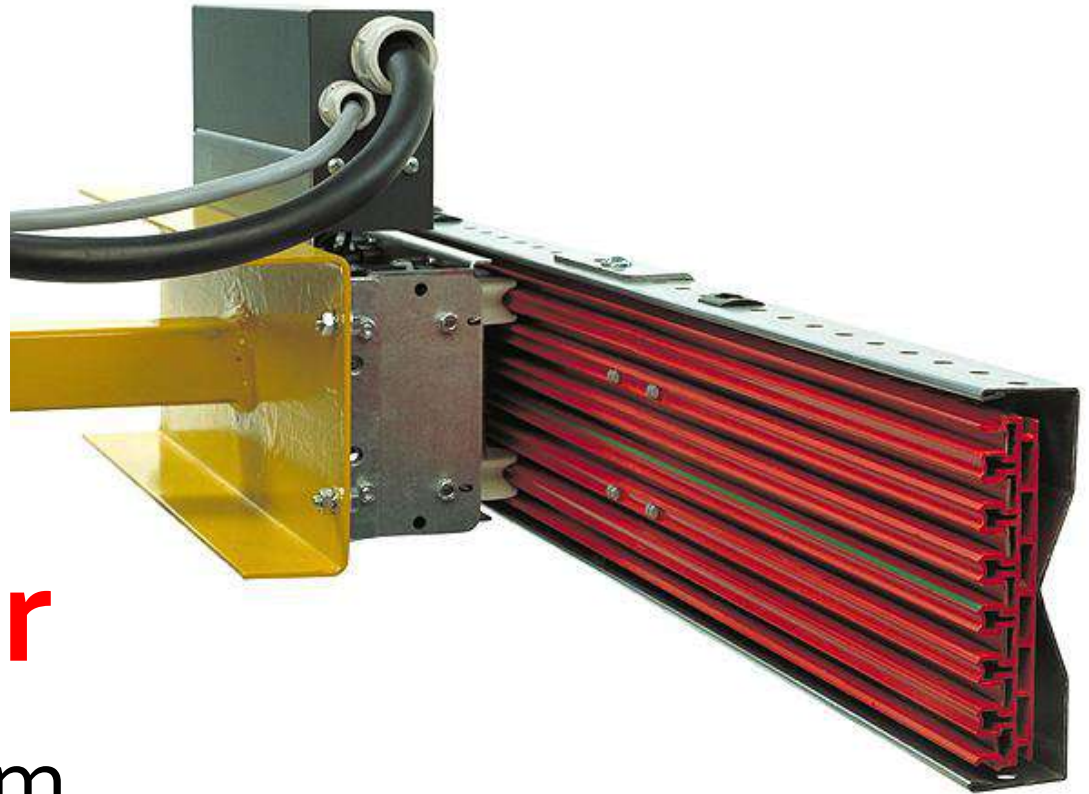


Unique solution for you



AKAPP-STEMMANN

A **Wabtec** company



Pro-Ductor

conductor system
specially designed for you!

Continuous reliability!

Pro-Ductor

- Copper conductors without joints
- Minimal wearing, no unplanned down time
- Double carbon brushes for extra reliability
- 30% savings on maintenance costs
- 15% saving on mounting costs

Akapp

- Local support through well trained distributors
- Support through instructions and videos
- World leading conductor supplier

Continuous reliability!

Internal logistics should be

RELIABLE

Continuous reliability!

Goal

At the end of this presentation you will know how to rely on your automated warehouse

Continuous reliability!

Founded in 1953

Movable power supply

Since 1973 producer **conductor systems**

Product development from market request

Own R&D department

Specialist in **custom solutions**

Continuous reliability!

Export to **75 countries**

Represented in 65 countries

At home in many markets



Continuous reliability!



Akapp-Stemmann

Industrial EOT crane





Akapp-Stemmann

Gantry cranes





Akapp-Stemmann

16t

Concrete industry





Akapp-Stemmann

Paper industry





Akapp-Stemmann

Window washing





Akapp-Stemmann

Internal logistics of
automatic warehouses
(AS/RS)



Akapp-Stemmann

Internal logistics of
automatic warehouses
(AS/RS)



Akapp-Stemmann

Internal logistics of
automatic warehouses
(AS/RS)



Does your customer also demand **0%**
down time?

Continuous reliability!

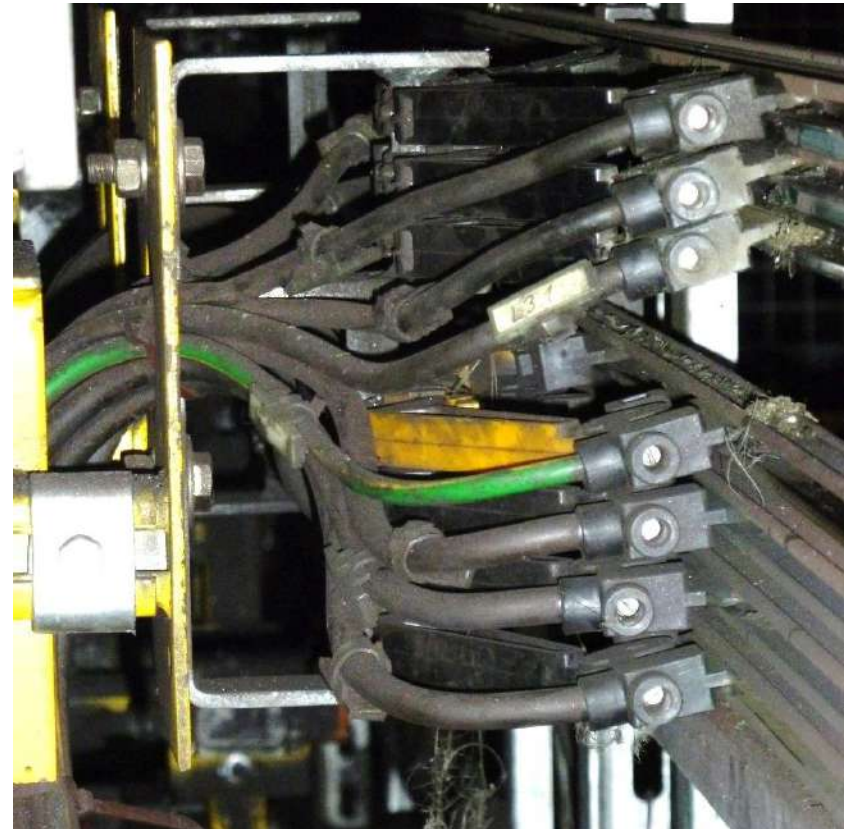
0% Research TCO

Research reveals number of **critical** aspects of conductor systems which can lead to unplanned down time

Continuous reliability!

0% ResearchTCO

Quick **wearing**
of components



Continuous reliability!

0% Research TCO

Which leads to

pollution

by PVC-particles



Continuous reliability!

0% Research TCO

Contactloss

due to isolation of copper
conductors by to PVC-
particles depositions



Continuous reliability!

0% Research TCO

Collection

of carbon dust at the joints in
the copper conductors



Continuous reliability!

0% Research TCO

Bouncing

of carbon brushes and
pantographs lead to
vicious circle



Continuous reliability!

Unplanned **down time** and

very costly maintenance!

Continuous reliability!



Unique solution for you

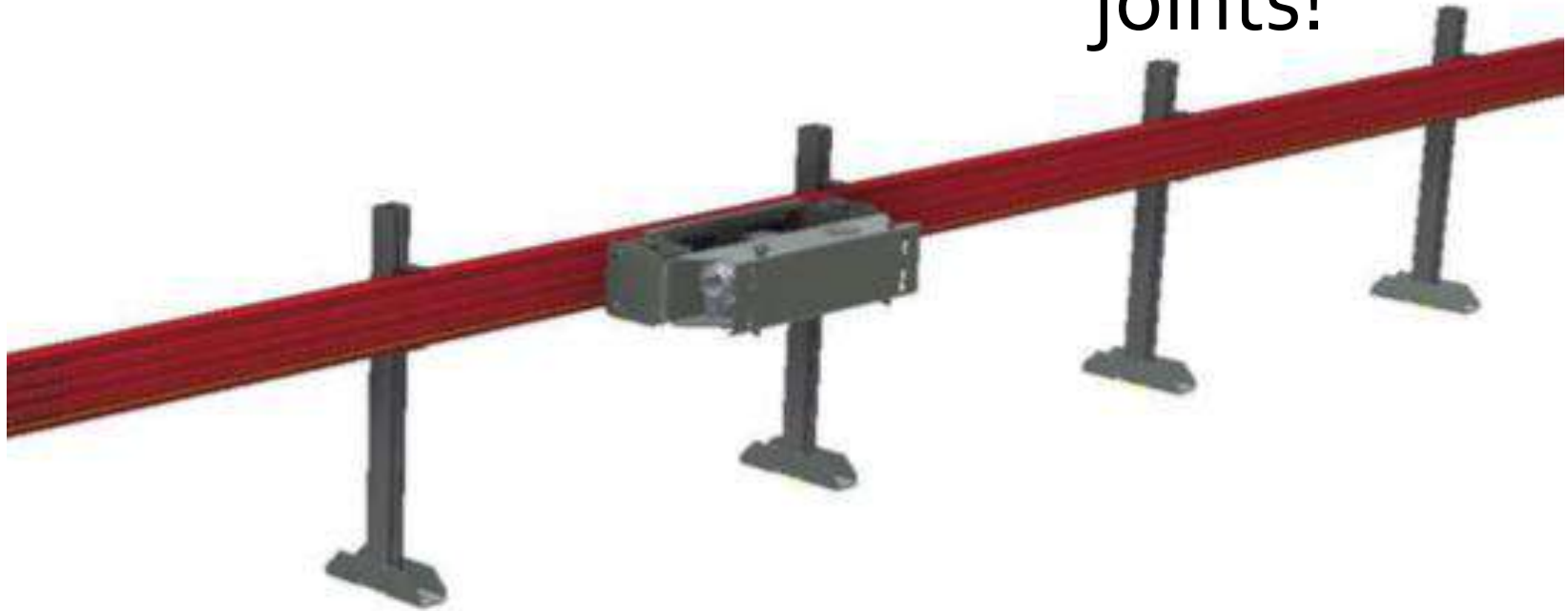


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AKAPP ADVANTAGES

Copper conductors **without**
joints!



Continuous reliability!



Unique solution for you



AKAPP-STEMMANN

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No joints in the copper conductors!

No additional electrical **resistance**

High speeds (<500m/min)

Continuous reliability!



Unique solution for you



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Minimal wearing

of carbon brushes by absence of joints
and through even spring pressure



Continuous reliability!



Unique solution for you



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> 25.000 km!

Our carbon brushes have an extremely long life span!

Continuous reliability!

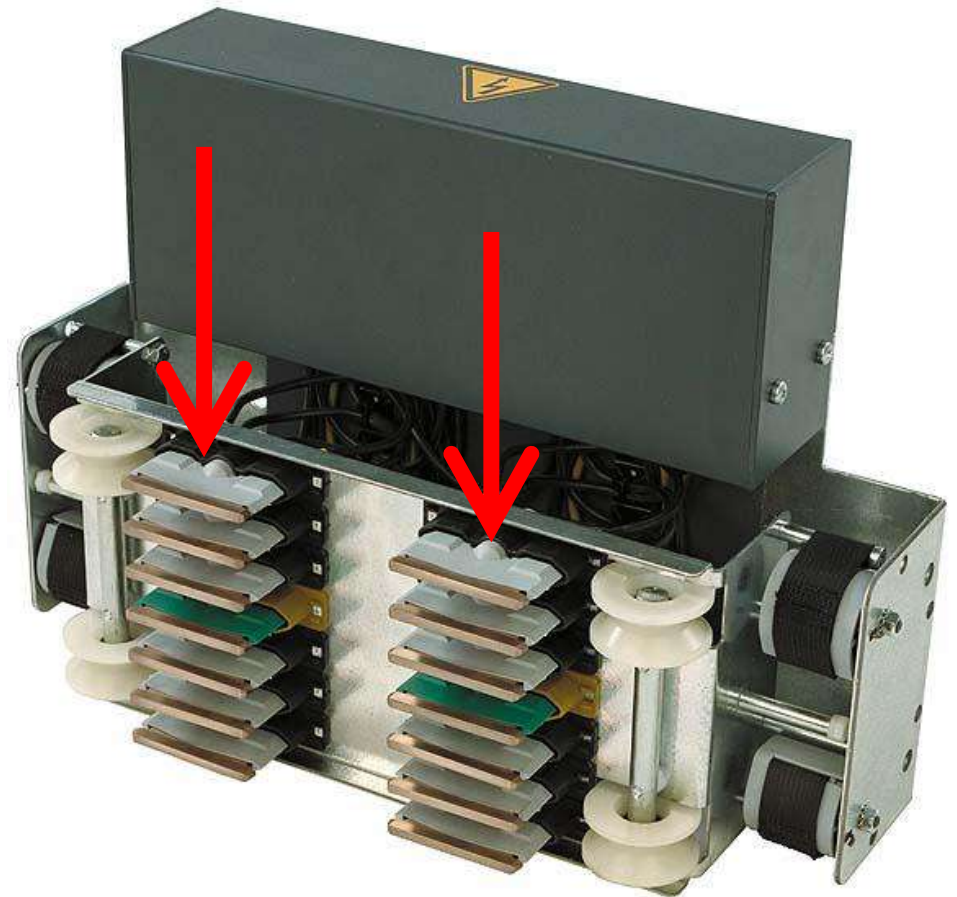


Unique solution for you



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Reliability

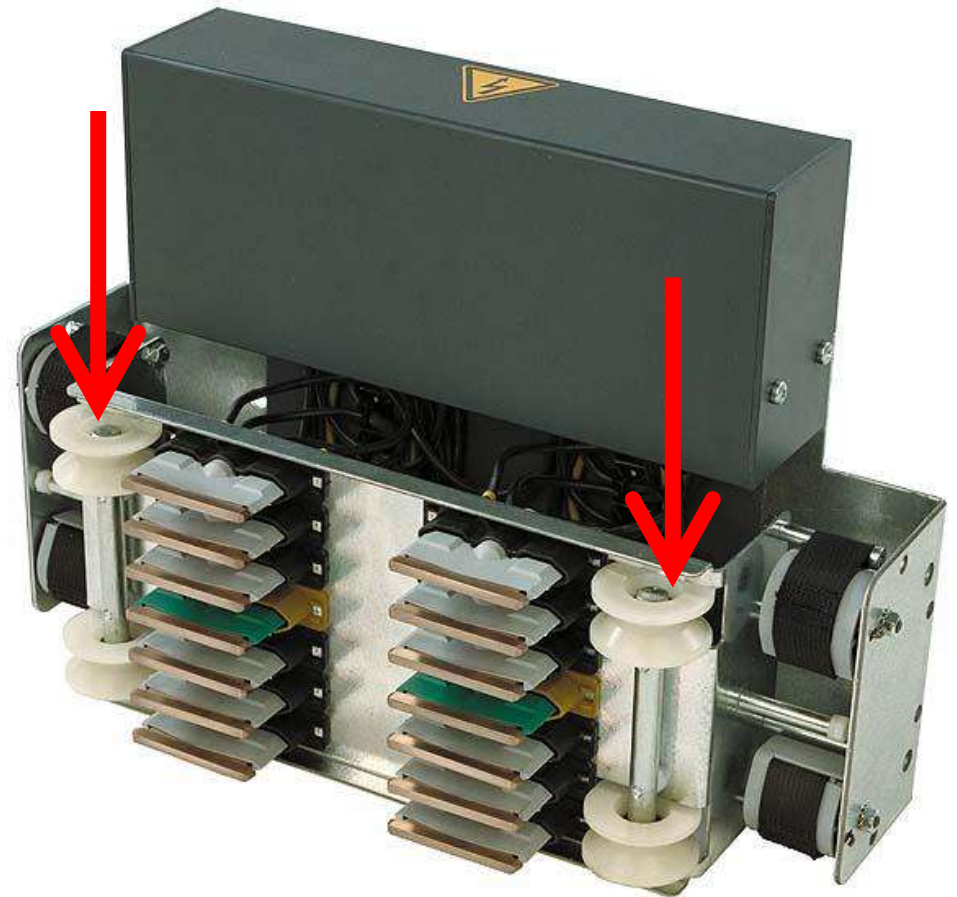
through double set of
carbon brushes

Continuous reliability!



Unique solution for you

Through mechanical
wheels guidance
no PVC-dust
and no unplanned down time



Continuous reliability!



Unique solution for you



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How often do you need to

clean your conductor system?

Continuous reliability!



Unique solution for you



With Pro-Ductor this is **not needed!**

Continuous reliability!



How much can you save?



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How much can **you save**
without needing to clean?

Continuous reliability!



How much can you save?



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Research in to **TCO** during 10 year
economical lifespan shows

Continuous reliability!



How much can you save?



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A **Wabtec** company

Research shows that a

30% savings

on total cost of ownership can be achieved with Pro-Ductor.

Continuous reliability!



How much can you save?

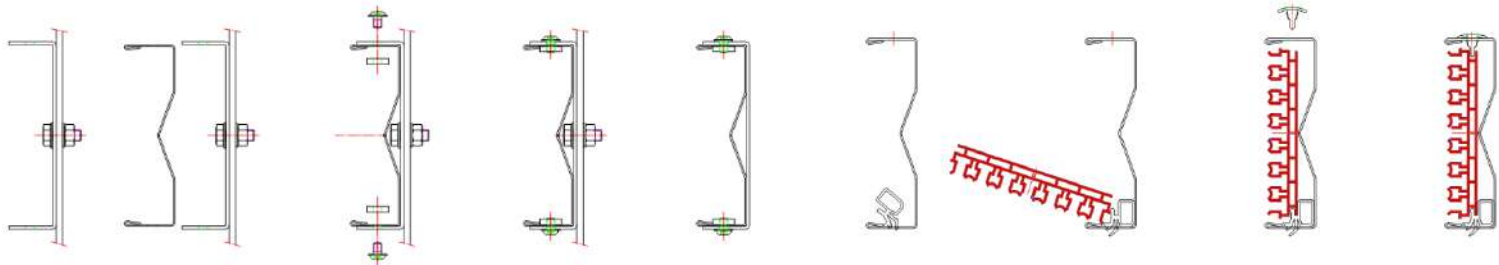


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15% savings on mounting

- Compared to conventional system (research TCO, 2005)



- Straight forwards and quick
- Few tools needed

Continuous reliability!