



Agenda

- Introduction
- Challenges
- Solution
- Results/Success Stories
- How to contact us





In the past:



"...A customer can have a car painted any color he wants, as long as it's black..."



Today, Manufacturers need:

- AgilityFlexibility
- Speed-to-Market
- Innovation
- Fast Changes
- Customer Čentric
- Etc.





Challenge: No Flexibility



..conventional conduit & wire...







"...Once you hard pipe something it is almost like a castle, it's immovable...

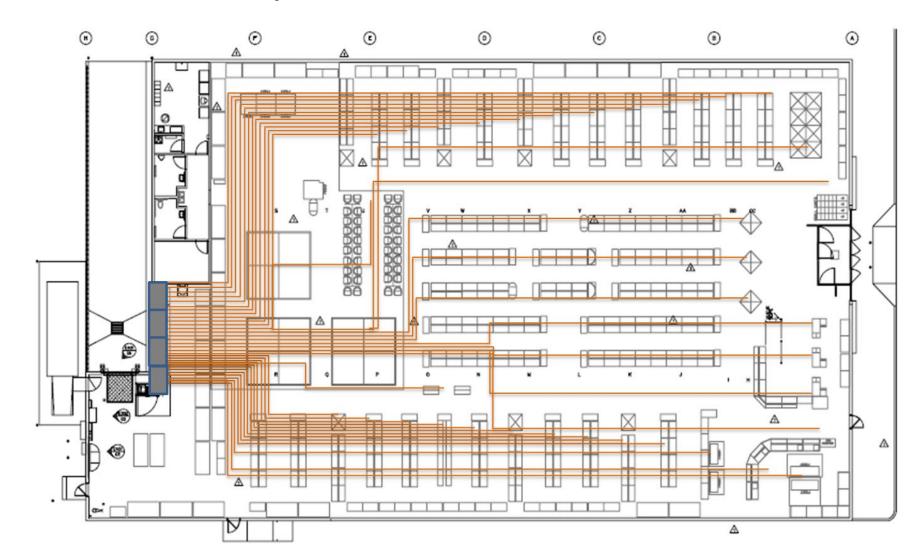
Jeffrey Rees, CEO Richfield, OH



Challenge: No Flexibility

Pipe & Wire

- •Numerous home runs to panel
- •Numerous junction boxes
- Labor intensive
- Material not reusable
- Inflexible



Challenge: No Flexibility

CASE STUDY

- End User: Global leader in gas detection devices
- New circuit board printer equipment: <u>9</u> days to install rigid conduit & cable





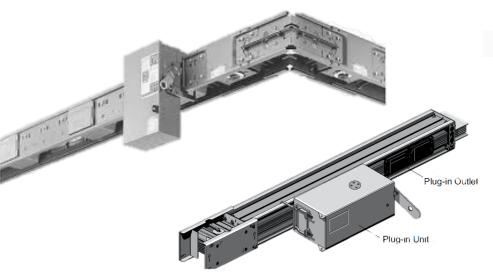
Challenge: Equipment upgrades & relocations



Kaizen Event Case Study

Cutting machine relocation to optimize output, material transportation distance: Required only minutes to modify electrical installation with busway.

Challenges:







BUSDUCT

- High installation costs
- Limited access points
- High Maintenance costs
- Heavy, clunky
- Complex Joints design









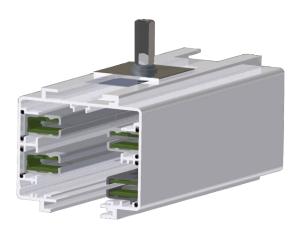
- Limited Scalability
- Requires Pipe & wire
- Final connections require outside source

Innovative Alternative: Flexible Power Track System



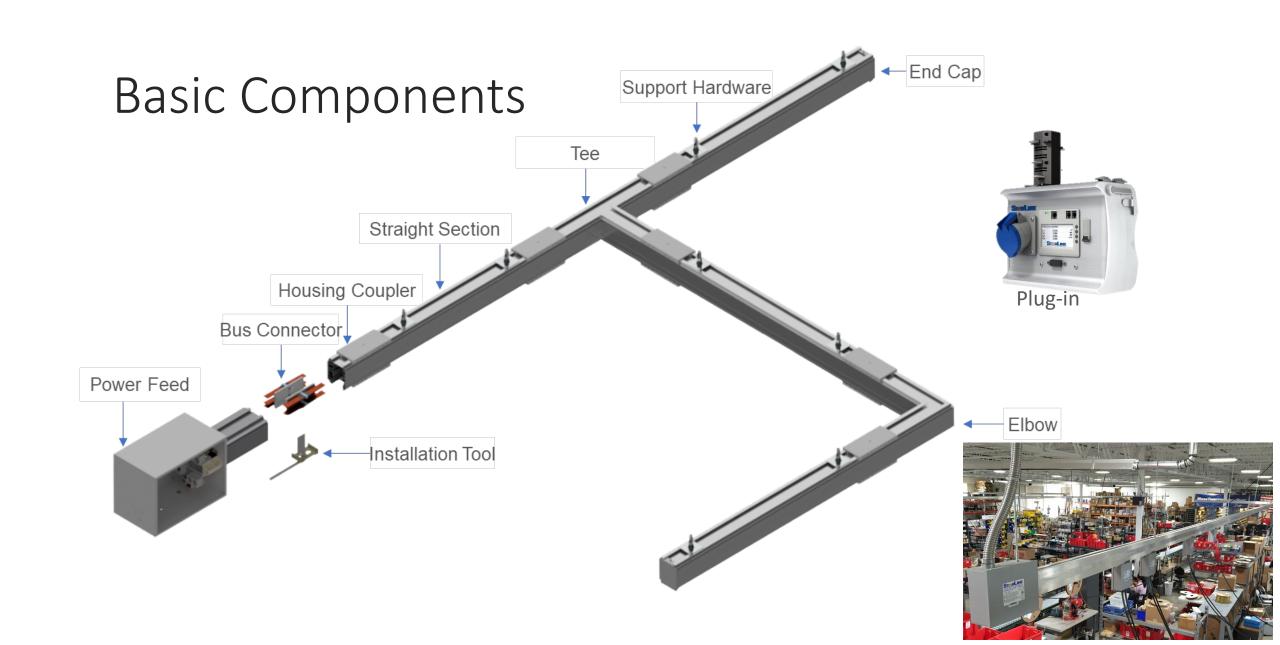






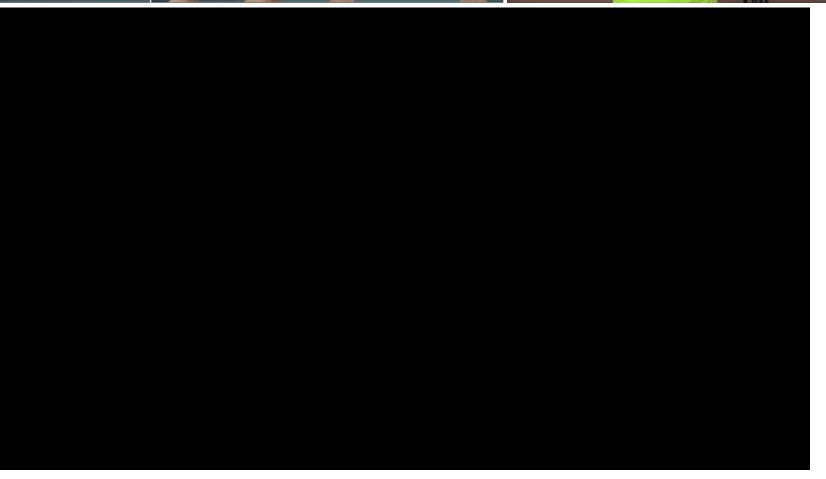
Enclosed conductor bars with continuous open-channel bottom access enabling unlimited electrical connection points, to deliver power at the exact point of use in a manufacturing facility

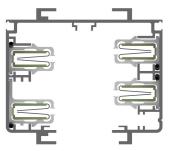






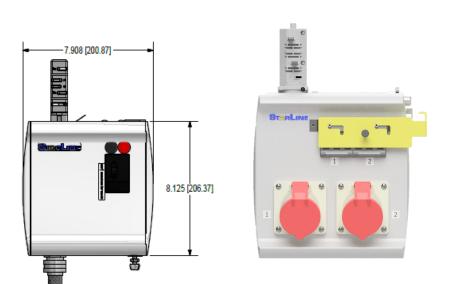
Safe Plug n' Play live insertion (UL857)

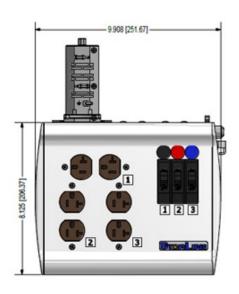






Components Integration





- Millions of SKUs combinations
- Maximum integration
- Valued Engineered
- Replication-Testing at Factory



Results:

Cost of Ownership \blacksquare

- Faster Installation
- Reduced Downtime
- No Maintenance
- Future-Proof Facilities



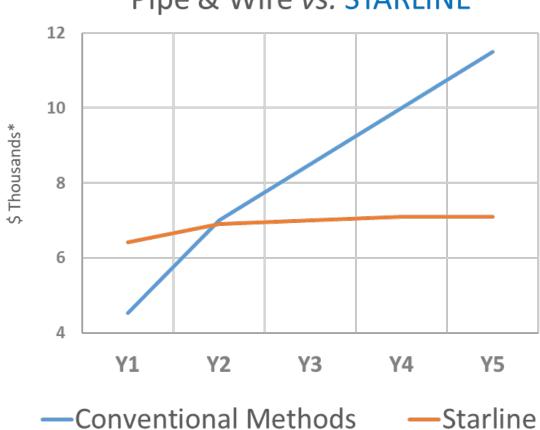


Results: TCO Reductions

- Acquisition Costs: 1
- Operating Costs: -
- Personnel Costs:

"...Reconfigurations are now cheap and easy..." End User @ Univ. of Hawaii School of Ocean & Earth Sc. & Tech.

5yr COST COMPARISON Pipe & Wire vs. STARLINE









Results: Fast Installation

CASE STUDY

- End User: Global
 Automotive OEM in
 Detroit, MI
- Ventilator Assembly Plant: Covid-19 response
- System installed in **2** days





Results: Future-Ready Facility

CASE STUDY

End User: Franklin County

School Board

Application: New welding lab

shop

Location: Eastpoint, FL







Results: Downtime Minimized

Sent: Monday, March 11, 2019 1:37 PM

Subject: XXYY Adding a receptacle



"...The Production Line added a piece of equipment to the line for their robotics modification. Installed the plug, wire managed the cord in under 55 min.

Previous application, we would have had to pulled wire, changed or add the breaker, numerous PPE, barricading the area affecting our operators, with an install time of 6 hours...our project manager would have had to send a RFQ, PO request and involve (5) upper management signatures for approval. Adding an additional 5-day lead time...a response time of 55 min. vs. a minimum of 7,560 min......"

Facilities-Master Electrician Seguin, TX



Implement Flexible Power in your facility!



.conventional pipe & wire..







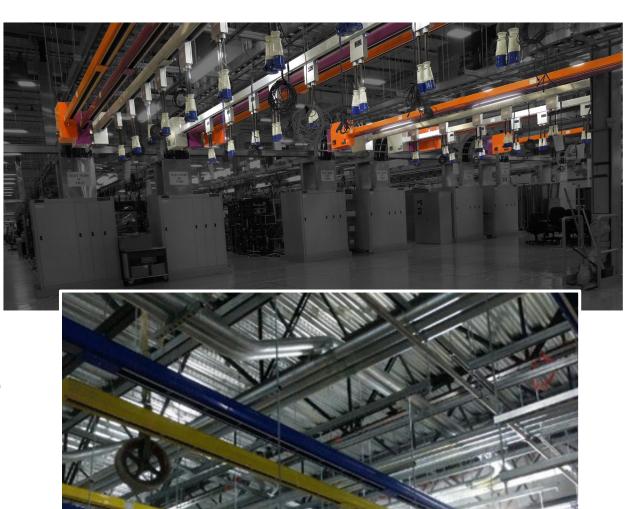




Scalability







Starline.

Automotive

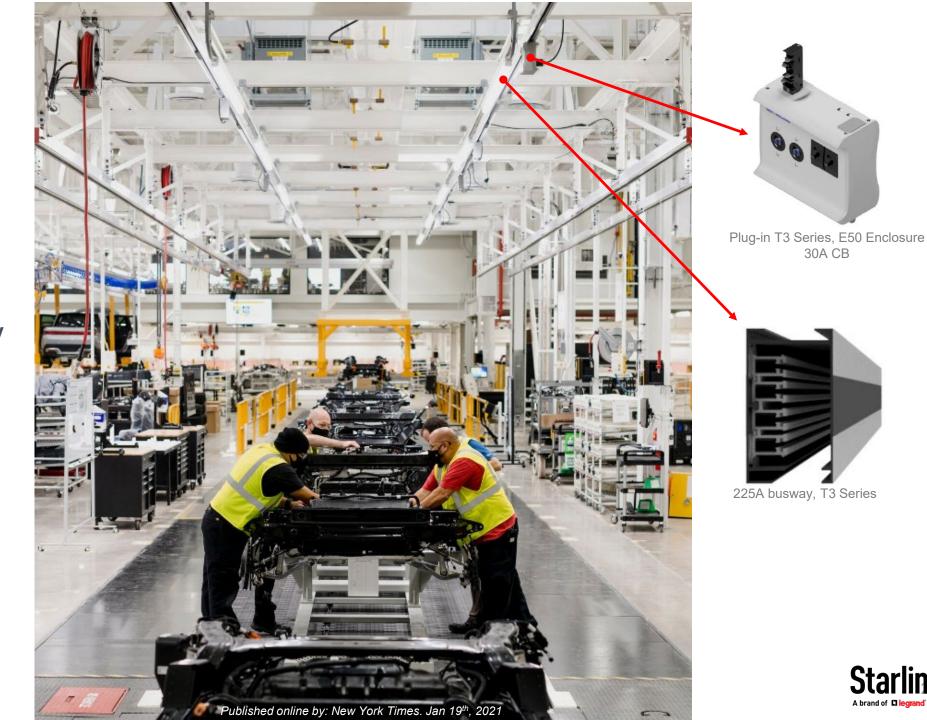
Solution:

T3 Series, 225A busway

Application:

Electric Vehicles final assembly line

Localization: Normal, IL





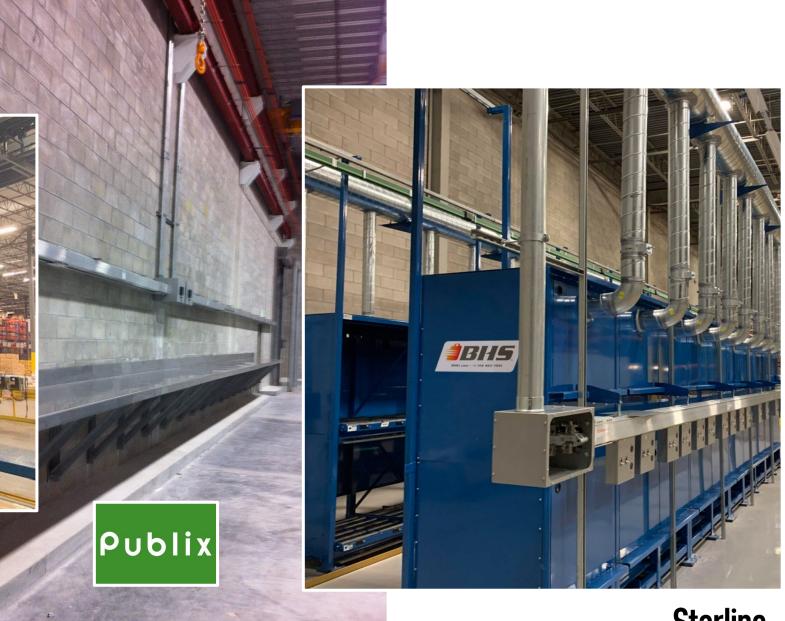


Distribution Centers: Electric forklifts



Future-Proof design

High Power-Density per sqft

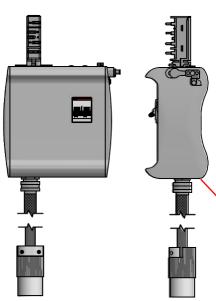


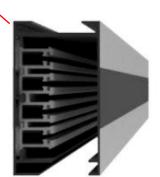


Traditional Manufacturing

Location: Phoenix, AZ







T3 Series 225a busway







Revolutionizing Power Distribution

NEW Series-S Track Busway

Starline



Series-S Product Overview



Features

- IEC IP54 Rating
- NEMA 3R Rating
- 100A through 1200A range
- Same functionality, versatility, and configurability
- Corrosion-resistant finish housing with painted options available
- Custom Series-S Plug-in Units





Increased ingress protection with unmatched versatility



First of a kind

Maintained proven features & benefits

Sleek & simple design



Broader applications Sprinkler-proof / Spl

- Sprinkler-proof / Splash-proof requirements
- Dusty or Debris-contaminated manufacturing



Expansion into other markets

- Parking garages
- Fleet vehicles
- Forklift charging



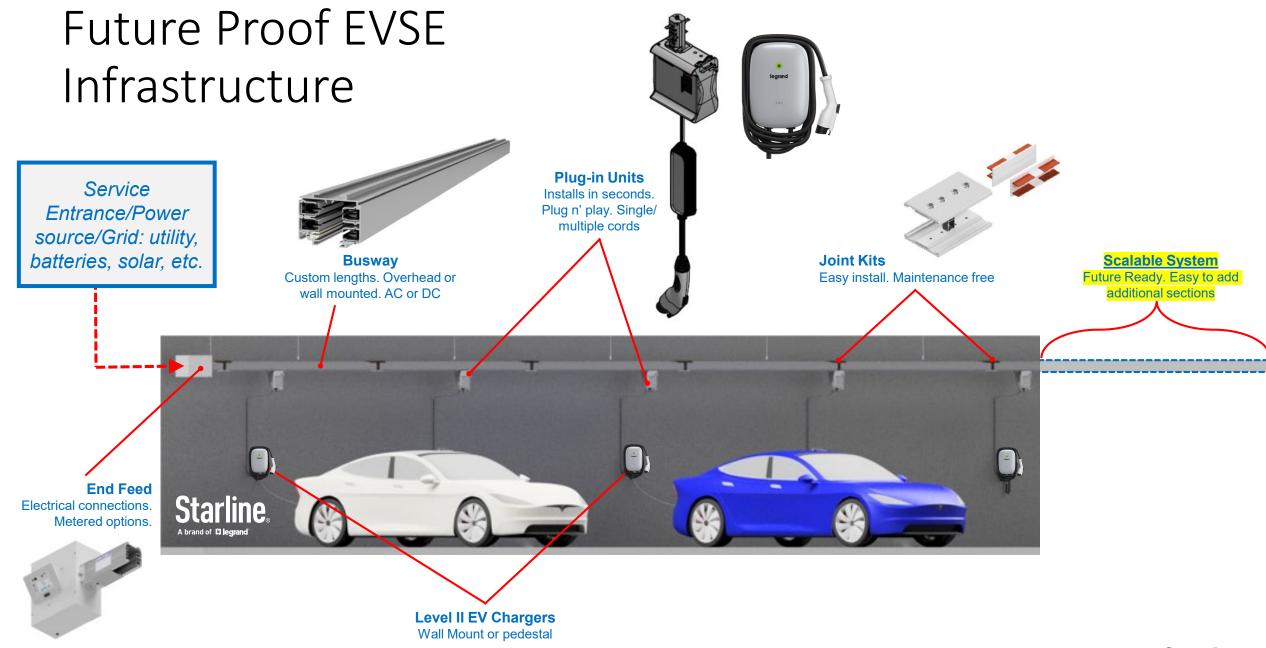


S3 System during water test



"If a picture paints a thousand words..."

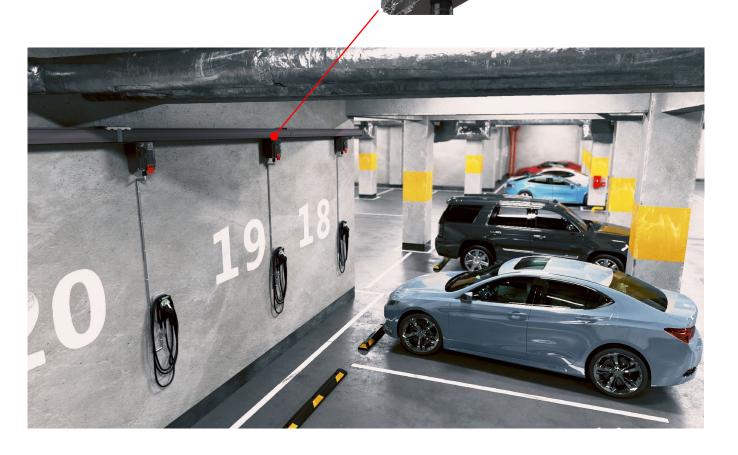






Starline EVSE Power Solution

- Overhead solution
- No trenching required
- ☐ Simple & fast installation
- ☐ Minimal downtime for parking areas
- ☐ Less planning required
- ☐ Scalable Easy expansion with growth
- ☐ Evolving technology requires flexibility
- ☐ Easy to relocate or change-out





Future-Proof Advocates:















LOCKHEED MARTIN









































Improving Lives





Facilities in over

90
countries

Products sold in nearly

180 countries





Starline.

Starline.

39,000+
Employees worldwide

Starline.



Improving Lives

How to implement flexible power:





www.starlinepower.com



+1 (800) 245.6378













Douglas.Moore@legrand.com / (412) 508-3456 m Adrian.sanchez@legrand.com / (412) 979-8793 m

