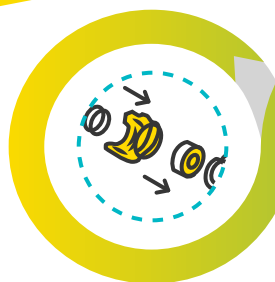


The making of a Brightline train

@ the Siemens Mobility Sacramento Manufacturing Plant



Sub-Assembly

- Determine subcomponents and place order
- Subcomponents include electrical, engines, windows and seats
- Major subcomponents assembled by Siemens Mobility in house



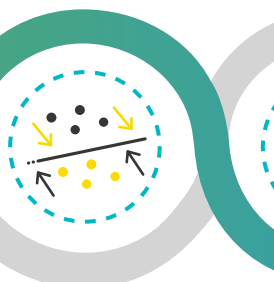
Locomotive Weld Assembly Shop

- Locomotive structure is made of high strength carbon steel
- Floor structure, side walls, and end walls are fabricated and assembled in this shop
- Includes the fuel tank that is integrated into the locomotive
- Includes Crash Energy Management (CEM) system on cab end



Coach Carshell Weld & Fabrication Assembly Shop

- Coach carbody structure is made of high strength stainless steel
- Floor structure, side walls, and end walls are fabricated and assembled in this shop
- Stainless outer skin is welded to the wall structure with welding robot



Finishing /Blast/ Paint and Passivation (Coach and Loco)

- After welding assembly is complete, carshell must be prepared for primer and paint
- Blasting and passivation process cleans up the metal
- Paint booths are clean, temperature controlled rooms controlled for paint and primer application



Flooring, Exterior Doors, HVAC units, and Windows

- Carbody side windows are dual pane glass made from FRA-certified safety glass
- Exterior doors are plug doors that seal to the carbody
- Each car has 2 rooftop HVAC Units



Water Testing

- Cars with installed windows, doors and HVAC units are run through a water test booth where pressurized water jets spray the entire car to ensure water tightness before the interior components are installed



Locomotive Final Assembly Shop

- Major subcomponents installed on each locomotive:
 - Brake racks, main engine, alternator and air compressor
- Undercar equipment, like trucks and wheels, also installed



Locomotive Static Testing

- Headlight, horn and bell testing
- Fire up the main engines and perform load testing
- Brake system and air compressor testing



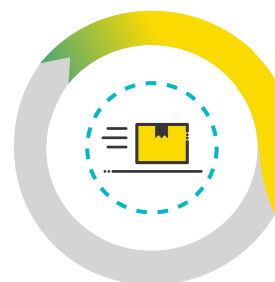
Coach Car Final Assembly Shop

- Major subcomponents installed on each car:
 - HVAC units, exterior doors, undercar equipment, lavatory, seating
 - Luggage racks, floor covering and wall panels
- Floor panels are phenolic panels adhered to the carbody for a high strength, light weight, durable and fire resistant floor



Coach Car Static Testing

- Car gets powered up and all electrical component functionality is checked
- Test doors, outlets, displays, lavatory, audio system and lighting



Trainset Ships

Trainsets are moved 2,500 miles cross country

