ST2 Light Rail Vehicle Procurement
S70-12: Powered by Passion
Sound Transit's New Link to the Future
With 1.5 million more residents projected to live in the Puget Sound region by 2040, public transit is increasingly essential in addressing congestion, mobility and environmental impact. Making transit more attractive helps commuters, businesses, and the economy. With improved access and connections that passengers can depend on, attracting current and future customers.

Inspired by 12, bringing passion and commitment to the Sound Transit team

The Siemens SL200A has been specially designed to meet the specific needs of Sound Transit and the Puget Sound region. The new design benefits from 20 years of experience with Siemens in the U.S., including reliable fleet operation. An American-made solution to fit all customers needs, whether it’s a ride to the airport, a ride from your neighborhood to downtown or perhaps, a ride to the big game, the Siemens SL200A will be a fully automatic, energy efficient transportation solution for all. The Siemens SL200A will provide the Puget Sound region’s passengers with a safe, reliable, comfortable ride that gets commuters to their destination on time.

Everything the public and people of Sound Transit:
• Higher capacity center section with more seats
• Lower center section for lower of low floor
• Optimized by Siemens to fit Sound Transit needs

A cleaner, greener way to travel

Our smiley-generating rail manufacturing plant has been in operation for more than 90 years and we are dedicated to green manufacturing practices. With recent expansions we are committed to the future of rail transportation in the U.S. Sound Transit can count on a trusted partner in Siemens; we are a short distance away to service all of Sound Transit needs. Siemens has already supplied electrification equipment to Sound Transit and worked with its teams to realize the aspirational growth plan of the region. We believe in being a true team player, backed by a rising team to ensure the success of our customers today and in the future.

Ergonomically vetted, best-in-class operator’s role and ability to operate at maximum
Optimized cost design to high floor section
The S70-12 gets you there **on time**

Sound Transit is committed to delivering the S70 vehicle **on time**, to ensure passengers get to their destinations on time.

- Improving the overall transit experience for the people of Seattle and the Puget Sound region.
- Modern design for a modern region.
- Refined, functional, and accessible.
- 49% more window area than specified.
- Significantly improved ADA accessibility.
The S70-12: A Sound Solution

Features & Benefits

1. Contemporary design: FRP sculpted front mask compared to steel
2. Improved operator visibility: thinner aisle and large cab side windows for a panoramic view
3. Ergonomics: operator's cab with wrap around outside reduces driver stress and fatigue
4. Maximized driver protection: service proven 3G and RT-1 crashworthiness design
5. On-cab mounted intelligent LED secondary lights
6. Improved CCTV system: sharp and high resolution with night-dark image and reverse camera view
7. Siemens designed high-quality propulsion system for robust and optimized interaction between components
8. Door layout and sinking points fit perfectly within existing infrastructure
9. LED in-life lights, headlight, spotlight, and turn signal ensure maximized energy consumption and reduced maintenance

Additional Features:
- Monitoring of diagnostic system with simple operator instructions to maintain system on time performance
- Optional LED signs incorporated into passenger doors for passenger flow and increased safety
S70-12:
Welcoming design for a comfortable ride

Customized for Sound Transit
- Massive Operations and maintenance same vehicle length, door locations and maintenance interfaces as ST1
- Increased capacity: 74 seats with improved passenger flow, and less obstructions than ST1

Optimized safety
- Wide-open appearance: vestibule and full-length articulated and center section area
- Natural lighting and a good view for everyone: 40% larger windows than ST1 vehicles

Reliable service
- ENSG expectations: Similar ST1 service and frequency
- Partially automated specified reliability targets by 2026 in 2025
- Proven systems from qualified and experienced manufacturers
- Siemens designed and manufactured 1500V propulsion and drivetrain for optimized system integration

Enhanced on-board experience & full accessibility

1. Higher capacity: creates 64 seats with 50% more seats than ST1 fleet
2. Open center layout for improved passenger flow
3. Large passenger windows, to increase convenience and improved passenger safety
4. Accessible doors, allowing passengers with disabilities to board
5. First-class doors with standard high floor transition steps for inclusive trip making
6. Connections at second floor and second floor transfer to connected to ST1 vehicles
7. Automatic migrant floor design: Clear and evenly spaced gaps between cars improving safety and sharing

- Designed to fit Sound Transit’s Operating Environment

<table>
<thead>
<tr>
<th>Feature</th>
<th>ST1</th>
<th>S70-12</th>
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</thead>
<tbody>
<tr>
<td>Maximum Operating Speed</td>
<td>65 mph</td>
<td>75 mph</td>
</tr>
<tr>
<td>Passenger Capacity</td>
<td>74 seats</td>
<td>100% more passengers of 64 pax</td>
</tr>
<tr>
<td>Maximum Operating Current</td>
<td>25%</td>
<td>35%</td>
</tr>
<tr>
<td>Length Over Couplers</td>
<td>95 ft (29.54 m)</td>
<td>99 ft (30.2 m)</td>
</tr>
<tr>
<td>Axle Width In</td>
<td>40 in</td>
<td>40 in</td>
</tr>
<tr>
<td>Center Section</td>
<td>50% more than ST1</td>
<td>50% more than ST1</td>
</tr>
<tr>
<td>Forward Door Locations</td>
<td>Identical to ST1</td>
<td>Identical to ST1</td>
</tr>
<tr>
<td>Clear Door Opening</td>
<td>48 in (1.22 m)</td>
<td>48 in (1.22 m)</td>
</tr>
<tr>
<td>Projected Vehicle</td>
<td>Less than 102.500 lbs</td>
<td>150.000 lbs</td>
</tr>
<tr>
<td>Empty Weight</td>
<td>66.500 lbs</td>
<td>66.500 lbs</td>
</tr>
<tr>
<td>Jacking Points for Maintenance</td>
<td>Identical to ST1</td>
<td>Identical to ST1</td>
</tr>
<tr>
<td>Elbowroom Center to Center of Track</td>
<td>35 ft</td>
<td>35 ft</td>
</tr>
</tbody>
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