44 SIX-CAR TYPE X METRO VEHICLES

Metro **Wiener Linien**

X-Wagen: The third metro generation in Vienna

Name	Number of cars	Construction years
Silberpfeil	504	1972 to 1995
V-Wagen	372	2000 to 2017
X-Wagen	270	2020 to 2030

The company Wiener Linien GmbH & Co. KG contracted with Siemens for the delivery and maintenance of 34 Type X metro vehicles in September 2017. An option for further ten trains was ordered in September 2023. The vehicles are suited for both fully automated operation and driver operation. They will be used on the future Line U5 in a driverless configuration, and will serve on the Metro Lines U1 to U4 of Wiener Linien with drivers. A pre-series train was delivered in 2020, and the last vehicle in this order is scheduled for delivery at the end of 2030. The first X-Wagen trains started passenger service in June 2023.

The trains will be manufactured at the Viennese Siemens plant. Maintaining the new vehicles is also part of the order. This will be performed by personnel from Wiener Linien, with Siemens as the ordering party.

The new X-Wagen will replace the old Silberpfeil models, which have in some cases been in operation since 1972, on a step-by-step basis. Just like their successor, the V-Wagen, the new cars will be barrier-free, air-conditioned, and equipped with video surveillance and inter-car gangways.

The new trains will also be equipped with a variety of innovative solutions.

The design of the driver's cabs, for example, allows them to be completely removed. When running fully automatically, this enables the area of the driver's cab to be used by passengers, which increases the passenger capacity of the trains.

The X-Wagen will also feature the innovative Passenger Information System Plus for the first time ever. Before reaching the next stop, information displays located above every door offer location-dependent passenger guidance about the next station, including all connecting trains. This lets passengers know what direction to go once they arrive, providing optimized passenger flow and travel comforti.

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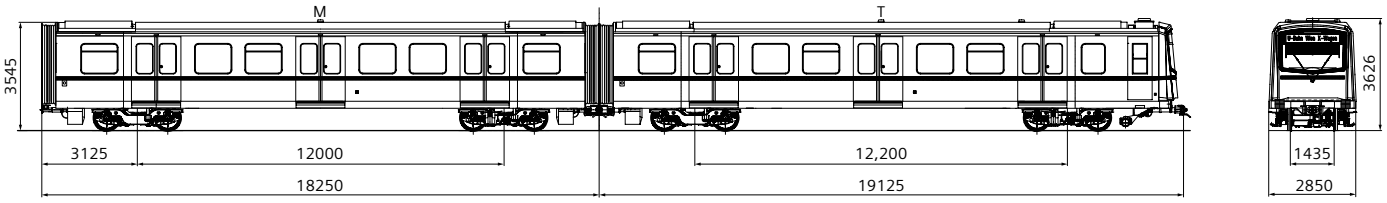

- Vehicles can be flexibly utilized in fully automated operation on the new U5 line or in conventional operation on existing lines
- A removable driver's cab offers the opportunity to utilize the cab area for passengers in fully automated operation, increasing the capacity of each train by 24 passengers
- Special lightweight construction measures in the carshell and the bogies significantly reduce weight and make the X-Wagen an extremely light vehicle for its class
- Electrodynamic braking down to a standstill ensures wear-free service braking and reduces maintenance costs
- Use of innovative, electric Siemens friction brake system (no use of pneumatic)
- Low-maintenance and energy-saving LEDs for interior and exterior lighting

Technical data

Train configuration	T-M-M-M-M-T
Car body material	Aluminum
Track gauge	1,435 mm
Length over couplers	111,250 mm
Width of car	2,850 mm
Floor height above top of rail	1,000 mm
Maximum axle load	10.9 t
Passenger capacity (4 passengers/m²)	928
Passenger doors per car side	3
Maximum operating speed	80 km/h
Power supply	750 V DC / third rail

- Sliding steps at every door offer barrier-free and comfortable access to the trains
- An open, bright interior and video surveillance with live broadcasting to the control center increase passenger safety
- The trains are designed with spacious and comfortable multi-function areas

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Krauss-Maffei-Strasse 2
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contact.mobility@siemens.com

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