

## REFERENCES

METRO



The R160 replace the NYC Transit cars that have been in service since the 1960s.



The new cars feature Flexible Information and Notice Displays (FIND) to offer better passenger service.

## R160

### A MODERN SOLUTION FOR NEW YORK'S METRO

#### THE PARTNERSHIP

Originally awarded in July 2002 in partnership with Kawasaki, the \$961.6 million, 660-R160 car contract (Alstom 400/Kawasaki 260) remains today the largest subway car purchase in NYCT's history and the largest mass transit award in the U.S. Alstom and Kawasaki formed the joint-venture company ALSKAW to oversee the project. While each company manufactures their share at their respective facilities, the cars have a unified design. An option for 620 cars, worth \$1.12 billion, was awarded to ALSKAW (Alstom 360/Kawasaki 260) in July 2007. A second option for 382 cars, worth \$491 million, was awarded (Alstom 242/Kawasaki 140) in November 2008. The number of cars supplied by Alstom to NYCT will total 1002.

#### NEW PASSENGER SERVICE

The single level, stainless steel cars – which are assembled and tested in Alstom's 600,000-square-foot rolling stock manufacturing facility in Hornell, New York – are configured in four- and five-car units. They measure 60'6" long, 12' wide and 12'3" tall and have a maximum operating speed of 55 mph. There are two car types – one with train operator's cab that seats 42 people and one without the cab that seats 44.

The R160s replace cars in service since the 1960s and give NYCT additional capacity for expansion purposes.

Each R160 car features Flexible Information and Notice Display (FIND) using Light Emitting Diode and Liquid Crystal Display technology, increasing map and digital lettering size. Other highlights include modern soundproofing, air brake suspension, and Alternating Current propulsion that requires minimal maintenance and is more efficient as a significant part of the train's stopping energy can be regenerated back into the electrified third rail.

#### NEW YORK CITY TRANSIT

New York City Transit (NYCT) is the largest agency in New York's Metropolitan Transportation Authority and operates bus and subway services throughout the five Boroughs. NYCT has 47,000 employees, 4,518 buses and 6,200 subway cars. Established by the New York State Legislature on June 15, 1953, it now operates the largest subway car fleet in the world and has an annual subway ridership of 1.5 billion. Public transportation goes much farther back, however, with Abraham Brown establishing the city's first public transportation route in 1827. The original 28 subway stations were built and opened in Manhattan Oct. 27, 1904. Since then, the system has grown to include 468 stations.