Current as of March 31, 2019

Overview of Tokyo Metro's rolling stock fleet

Line	Track Gauge	Electrification	Series	Trainset	Number of trainsets (cars)	Operation start	Carbody	Rolling Stock Performance	Bogies	Traction Inverter	Brake Equipment	Power Supply	Signalling system, Telecommunication system	
Ginza Line	1,435 mm	600 V DC Third-rail	1000	6	40 (240)	2012 ~2017	Aluminum- alloy	Acceleration 0.92 m/s² (3.3 km/h/s)  Deceleration (service/emergency) 1.11/1.25 m/s² (4.0/4.5 km/h/s)  Maximum design speed 80 km/h	Mono-link guide type Bolster type Single axle steering bogies	Traction inverter (VVVF inverter) (MM: PMSM)	Foundation brake equipment:  Tread brake unit  + Disc brake unit (single-disc brake)  Electric command electropneumatic blended brake (regenerative brake)  Security braking device Snow proof braking device  TCMS (TIS) trainset comprehensive blending control (electro-pneumatic blended brake control of regenerative brake on a total trainset)	Auxiliary power supply (Static inverter) Alkaline batteries	CS-ATC (Cab Signal- continuous induction type Automatic Train Control) , Radio communication system (space wave type)	
Marunouchi Line	1,435 mm	600 V DC Third-rail	02	6	50 (300)	1988 ~1995	Aluminumalloy	Acceleration 0.89 m/s² (3.2 km/s) Deceleration (service/emergency) 1.11/1.39 m/s² (4.0/5.0 km/s) Maximum design speed 80 km/h	[#01~06.08~19] Metal-rubber cushion guide type Bolster bogies  [#07] Conical bonded rubber type guide Bolsterless bogies(cars: 02-107, 207), PQ (L/V) monitoring bogies (car: 02-307), and Metal-rubber cushion guide type Bolster bogies (other cars)	[#01~19] Traction inverter (VVVF inverter) (MM: PMSM)	Electric command electro- pneumatic blended brake (regenerative brake) Security braking device Snow proof braking device	[#01~19] Power supply for auxiliary electric devices: Motor-generator; Power supply for HVAC: Auxiliary power supply (Static inverter) Alkaline batteries	CS-ATC (Cab Signal- continuous induction type Automatic Train Control), Radio communication system (inductive radio type)	
									[#20~53] Mono-link guide type Bolsterless bogies	[#20~53] Traction inverter (VVVF inverter)		[#20~53] Power supply for auxiliary electric devices: Auxiliary power supply (Static inverter); Power supply for HVAC: Auxiliary power supply (Static inverter) Alkaline batteries		
						2000	6	4 (24)	2019~	Aluminum-alloy	Acceleration 0.92 m/s² (3.3 km/h/s) during Recovery mode in ATO 0.97 m/s² (3.5 km/h/s)  Deceleration (service/emergency) 1.11/1.39 m/s² (4.0/5.0 km/h/s)  Maximum design speed 80 km/h	Mono-link guide type Bolster type Single axle steering bogies	Traction inverter (VVVF inverter) (MM: PMSM)	Foundation break equipment:  Tread brake unit  +  Disc brake unit (single-disc brake)  Electric command electro- pneumatic blended brake (regenerative brake)  Security braking device Snow proof braking device  TCMS (TIS) trainset comprehensive blended brake control of regenerative brake on a total trainset)
			02 (branch line)	3	6 (18)	1996	Aluminum- alloy	Acceleration 0.89 m/s <sup>2</sup> (3.2 km/h/s)  Deceleration (service/emergency) 1.11/1.39 m/s <sup>2</sup> (4.0/5.0 km/h/s)  Maximum design speed 80km/h	Mono-link guide type Bolsterless bogies	Traction inverter (VVVF inverter)	Electric command electro- pneumatic blended brake (regenerative brake) Security braking device Snow proof braking device	Auxiliary power supply (Static inverter) Alkaline batteries	CS-ATC (Cab Signal- continuous induction type Automatic Train Control), Radio communication system (inductive radio type)	
Hibiya Line	1,067 mm	1,500 V DC Overhead catenary	03	8	8 11 (88)	1988 ~1994	Aluminum-alloy	Acceleration 0.92 m/s² (3.3 km/h/s)  Deceleration (service/emergency) 1.03/1.25 m/s² (3.7/4.5 km/h/s)  Maximum design speed 110 km/h	[#01~08] SU Minden type (plate-type guiding arm on one side with U-shaped rubber pad) Bolsterless bogies		(regenerative brake until just before stopping)  Auxilia  (St	[#01∼08,35,36] Auxiliary power supply (Static inverter) Alkaline batteries	CS-ATC (Cab Signal- continuous induction type Automatic Train Control) Tobu type ATS (Automatic Train Stop) Tokyu type CS-ATC, Radio communication system (inductive radio type) Tobu-Tokyu types radio	
									Mono-link guide type Bolsterless bogies		[#39] Electric command electro- pneumatic blended brake (regenerative brake) Security braking device Snow proof braking device	[#39] DC-DC converter Alkaline batteries	communication system (space wave type)	
			13000	7	29 (203)	2017~	Aluminum- alloy	Acceleration 0.92 m/s² (3.3 km/h/s)  Deceleration (service/emergency) 1.03/1.25 m/s² (3.7/4.5 km/h/s)  Maximum design speed 110 km/h	Mono-link guide type Bolster type Single axle steering bogies	Traction inverter (VVVF inverter) (MM: PMSM)	Foundation brake equipment:  Tread brake unit  H Disc brake unit (double-disc brake)  Electric command electro- pneumatic blended brake (regenerative brake until just before stopping)  Security braking device Snow proof braking device TCMS (TIS) trainset comprehensive blending control (electro-pneumatic blended brake control of regenerative brake on a total trainset)	Auxiliary power supply (Static inverter) Alkaline batteries	CS-ATC (Cab Signal- continuous induction type Automatic Train Control) Tobu type ATS (Automatic Train Stop) Tokyu type CS-ATC, Radio communication system (inductive radio type) Tobu-Tokyu types Radio communication system (space wave type)	

Tozai Line	1,067 mm	1,500 V DC Overhead catenary	05			1991 ~2005	Aluminum-alloy	[#14~33] Acceleration 0.92 m/s² (3.3 km/h/s) Deceleration (service/emergency) 0.971/.39 m/s² (3.5/5.0 km/h/s) Maximum design speed 110 km/h	[#14] ES Minden type (plate-type guiding arm on one side with revised U-shaped rubber pad); Bolsterless bogies  [#15~18] SU Minden type (plate-type guiding arm on one side with U-shaped rubber pad) Bolsterless bogies	[#14~18,21] Traction inverter (VVVF inverter) (MM: PMSM)	[#14~18,21] Electric command electro- pneumatic blended brake (regenerative brake until just before stopping) Security braking device Snow proof braking device TCMS (TIS) trainset comprehensive blending control (electro-pneumatic blended brake control of regenerative brake on a total trainset)	[#14~24] Auxiliary power supply (Static inverter) Alkaline batteries	CS-ATC (Cab Signal- continuous induction type Automatic Train Control)										
				10	30 (300)				[#19∼43] Mono-link guide type Bolsterless bogies	[#19,20,22~43]	[#19,20,22~39] Electric command electro- pneumatic blended brake (regenerative brake) Security braking device Snow proof braking device	[#25~30] DC-DC converter Alkaline batteries	Automatic Train Control) (digital) JRE type ATS-P (Automatic Train Stop - Pattern type) Toyo rapid Railway type WS- ATC (Way side Signal- continuous induction Automatic Train Control), Radio communication system (inductive radio type) JRE type Radio communication system (space wave type)										
								[#34~43] Acceleration 0.92 m/s² (3.3 km/h/s)  Deceleration (service/emergency) 0.97/1.39 m/s² (3.5/5.0 km/h/s)  Maximum design speed 120 km/h		[#19,22,22 -4-3] Traction inverter (VVVF inverter)	[#40∼43] Electric command electro- pneumatic blended brake (regenerative brake until just before stopping) Security braking device Snow proof braking device	[#31~43] Auxiliary power supply (Static inverter) Alkaline batteries											
						1993 ~1994	Aluminum-alloy	Acceleration 0.92 m/s² (3.3 km/h/s)  Deceleration (service/emergency) 0.97/1.39 m/s² (3.5/5.0 km/h/s)  Maximum design speed 110 km/h	Mono-link guide type Bolsterless bogies	[#01,02,05,06] Traction inverter (VVVF inverter)	[#01,02,05,06] Electric command electro- pneumatic blended brake (regenerative brake) Security braking device Snow proof braking device		CS-ATC (Cab Signal- continuous induction type Automatic Train Control) (digital) JRE type ATS-P (Automatic										
			07	10	6 (60)					[#03,04] Traction inverter (VVVF inverter) (MM: PMSM)	[#03,04] Electric command electro- pneumatic blended brake (regenerative brake until just before stopping)  Security braking device Snow proof braking device  TCMS (TIS) trainset comprehensive blending control (electro-pneumatic blended brake control of regenerative brake on a	Auxiliary power supply (Static inverter) Alkaline batteries	Train Stop - Pattern type) Toyo rapid Railway type WS- ATC (Way side Signal- continuous induction Automatic Train Control), Radio communication system (inductive radio type) JRE type radio communication system (space wave type)										
			15000	10	16 (160)	2010 ~2017	Aluminum- alloy	Acceleration 0.92m/s² (3.3km/h/s)  Deceleration (service/emergency) 0.971/1.39 m/s² (3.5/5.0 km/h/s)  Maximum design speed 110 km/h	[#01~12,14~16] Mono-link guide type Bolster bogies  [#13] PQ (L/V) monitoring bogies (car: 15713), and Mono-link guide type Bolster bogies (other cars)	Traction inverter (VVVF inverter)	Electric command electro- pneumatic blended brake (regenerative brake until just before stopping) Security braking device Snow proof braking device	Auxiliary power supply (Static inverter) Alkaline batteries	CS-ATC (Cab Signal- continuous induction type Automatic Train Control) (digital) JRE type ATS-P (Automatic Train Stop - Pattern type) Toyo rapid Railway type WS- ATC (Way side Signal- continuous induction Automatic Train Control), Radio communication system (inductive radio type) JRE type radio communication system (space										
		1,500 V DC Overhead catenary											6000	10	1 (10)	1971	Aluminum- alloy	Acceleration 0.92 m/s <sup>2</sup> (3.3 km/s) Deceleration (service/emergency) 1.02/1.30 m/s <sup>2</sup> (3.7/4.7 km/h/s) Maximum design speed 100 km/h	[#02] S Minden type (plate-type guiding arm on one side) Bolster bogies	Traction inverter (VVVF inverter)	Electric command electro- pneumatic blended brake (regenerative brake) Security braking device Snow proof braking device	Power supply for auxiliary electric devices: Motor-generator; Power supply for HVAC: Auxiliary power supply (Static inverter) Alkaline batteries	wave type)  CS-ATC (Cab Signal- continuous induction type Automatic Train Control) Odakyu type D-ATS-P (Digital - Automatic Train Stop - Patturn type), Radio communication system (inductive radio type) JRE, Odakyu types radio communication system (space wave type)
Chiyoda Line	1,967 mm		1,000	10	37 (370)	2010 ~2017	Aluminum- alloy	Acceleration 0.92 m/s <sup>2</sup> (3.3 km/h/s)  Deceleration (service/emergency) 1.021.30 m/s <sup>2</sup> (3.7/4.7 km/h/s)  Maximum design speed 110 km/h	[#01∼11,13∼37] Mono-link guide type Bolster bogies	Traction inverter	Electric command electro- pneumatic blended brake (regenerative brake until just before stopping) Security braking device	Auxiliary power supply (Static inverter)	CS-ATC (Cab Signal- continuous induction type Automatic Train Control) Odakyu type D-ATS-P (Digital - Automatic Train Stop - Patturn type),										
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		16000	10					[#12] PQ(L/V) monitoring bogies (car: 16312), and Mono-link guide type Bolster bogies (other cars)	(VVVF inverter) (MM: PMSM)	Snow proof braking device  TCMS (TIS) trainset comprehensive blending control (electro-penumatic blended brake control of regenerative brake on a total trainset)	Alkaline batteries	Radio communication system (inductive radio type) JRE, Odakyu types radio communication system (space wave type)										
					05 (branch section)	3	3 4 1988 Aluminum- alloy 2 2 3 3 4 Decelera (service/em alloy 1.021/3.3 (3.7/4.7 km) Maximum des	Acceleration 0.92 m/s² (3.3 km/h/s) Deceleration (service/emergency) 1.02/1.30 m/s² (3.7/4.7 km/h/s) Maximum design speed 110 km/h	SU Minden type (plate-type guiding arm on one side with U-shaped rubber pad) Bolsterless bogies	Traction inverter (VVVF inverter)	Electric command electro- pneumatic blended brake (regenerative brake until just before stopping) Security braking device Snow proof braking device	Auxiliary power supply (Static inverter) Alkaline batteries	CS-ATC (Cab Signal- continuous induction type Automatic Train Control), Radio communication system (inductive radio type)										

Yurakucho Line Fukutoshin Line	1,067 mm	1,500 V DC Overhead catenary		10	6 (60)	1974 ~1983	Aluminum-alloy		[#01,02,04,05,10,18] S Minden type (plate-type guiding arm on one side) Bolster bogies (cars: 7100, 7700, 7800, 7900, 7000), and SU Minden type (plate-type guiding arm on one side with U-shaped rubber pad) Bolster bogies (other cars)	Traction inverter (VVVF inverter)	[#01,02,04,05,10,18] Electric command electro- pneumatic blended brake (regenerative brake until just before stopping) Security braking device Snow proof braking device	[#01,02,04,05,10,18]  Power supply for auxiliary electric devices: Motor-generator; Power supply for HVAC: Auxiliary power supply (Static inverter)  Alkaline batteries	CS-ATC (Cab Signal-continuous induction type Automatic Train Control) Tokyu type CS-ATC Tobu type D-ATC (Digital - Automatic Train Control) Seibu type ATS (Automatic Train Stop), Radio communication system (inductive radio type) Tokyu-Tobu-Seibu types Radio communication system (space wave type)	
					15 (120)	1974 ~1989		Acceleration 0.92m/s² (3.3km/h/s) Deceleration (service/emergency) 0.97/1.25m/s² (3.5/4.5km/h/s) Maximum design speed 110km/h	[#03,09,13,15,16,19] S Minden type (plate-type guiding arm on one side) Bolster bogies (cars: 7100, 7900, 7800, 7000), and SU Minden type (plate-type guiding arm on one side with U-shaped rubber pad) Bolster bogies (other cars)		[#03.09,13,15,16,19,20] Electric-command type Electric-air combined brake (regenerative brake) Security braking device Snow proof braking device	[#03,09,13,15,16,19,20,27 ~ 34]  Auxiliary power supply (Static inverter)  Alkaline batteries		
			7000						[#20] SU Minden type (plate-type guiding arm on one side with U-shaped rubber pad) Bolster bogies					
				8					[#27~34] SU Minden type (plate-type guiding arm on one side with U-shaped rubber pad) Bolster bogies		[#27,29,30,33,34] Electric command electro- pneumatic blended brake (regenerative brake until just before stopping) Security braking device Snow proof braking device			
											[#28,31,32] Electric command electro- pneumatic blended brake (regenerative brake) Security braking device Snow proof braking device			
			10000	10	36 (360)	2006 ~2010	Aluminum- alloy	Acceleration 0.92 m/s <sup>2</sup> (3.3 km/h/s) Deceleration (service/emergency) 0.97/1.25 m/s <sup>2</sup> (3.5/4.5 km/h/s) Maximum design speed 120 km/h	Mono-link guide type Bolster bogies	Traction inverter (VVVF inverter)	Electric command electro- pneumatic blended brake (regenerative brake until just before stopping)  Security braking device Snow proof braking device	Auxiliary power supply (Static inverter) Alkaline batteries	CS-ATC (Cab Signal- continuous induction type Automatic Train Control) Tokyu type CS-ATC Tobu type D-ATC (Digital- Automatic Train Control) Seibu type ATS (Automatic Train Stop), Radio communication system (inductive radio type) Tokyu-Tobu-Seibu types Radio communication system (space wave type)	
Hanzomon Line	1.067 mm	1,500 V DC Overhead catenary	8000	10	19 (190)	1981 ~1994	Aluminum- alloy	Acceleration 0.92 m/s <sup>2</sup> (3.3 km/h/s) Deceleration (service/emergency) 0.97/1.25 m/s <sup>2</sup> (3.5/4.5 km/h/s) Maximum design speed 100 km/h	[#01~07] Mono-link guide type Bolsterless bogies (cars: \$8601~07, 8701~ 07), and SU Minden type (plate-type guiding arm on one side with U-shaped rubber pad) Bolsterless bogies (other cars)  [#08~19] SU Minden type (plate-type guiding arm on one side with U-shaped rubber pad) Bolsterless bogies	Traction inverter (VVVF inverter)	Electric command electro- pneumatic blended brake (regenerative brake until just before stopping) Security braking device Snow proof braking device	Auxiliary power supply (Static inverter) Alkaline batteries	CS-ATC (Cab Signal- continuous induction type Automatic Train Control) Tokyu type CS-ATC Tobu type ATS (Automatic Train Stop), Radio communication system (inductive radio type) Tokyu-Tobe types Radio communication system (space wave type)	
			08	10	6 (60)	2002 ~2003	Aluminum- alloy	Acceleration 0.92 m/s <sup>2</sup> (3.3 km/h/s)  Deceleration (service/emergency) 0.97/1.25 m/s <sup>2</sup> (3.5/4.5 km/h/s)  Maximum design speed 120 km/h	Mono-link guide type Bolsterless bogies	Traction inverter (VVVF inverter)	Electric command electro- pneumatic blended brake (regenerative brake) Security braking device Snow proof braking device	Auxiliary power supply (Static inverter) Alkaline batteries	CS-ATC (Cab Signal- continuous induction type Automatic Train Control) Tokyu type CS-ATC Tobu type ATS (Automatic Train Stop), Radio communication system (inductive radio type) Tokyu-Tobe types radio communication system (space wave type)	
Namboku Line		1,500 V DC Overhead catenary				14 (84)				[#01] ES Minden type (plate-type guiding arm on one side with revised U-shaped rubber pad) Bolsterless bogies  [#09~21] Mono-link guide type Bolsterless bogies		[#01,09~21] Electric command electro- pneumatic blended brake (regenerative brake) Security braking device Snow proof braking device	and electro- nded brake re brake)  [#01,09~21] DC-DC converter  Alkaline batteries	
	1,067 mm		9000	6	2 (12)	1991 ~2009	Aluminum- alloy	Acceleration 0.92m/s² (3.3km/h/s)  Deceleration (service/emergency) 0.97/1.25m/s² (3.5/4.5km/h/s)	[#22,23] Mono-link guide type Bolster bogies [#03,05,07]	Traction inverter (VVVF inverter)	[#22,23] Electric command electro- pneumatic blended brake (regenerative brake until just before stopping) Security braking device Snow proof braking device		CS-ATC (Cab Signal- continuous induction type Automatic Train Control), Tokyo Metro-Saitama Railway, Tokyu types radio communication system (space wave type)	
					7 (42)			Maximum design speed 110km/h	ES Minden type (plate-type guiding arm on one side with revised U-shaped rubber pad) Bolsterless bogies  [#02,04,06,08] ES Minden type (plate-type guiding arm on one side with revised U-shaped rubber pad) Bolsterless bogies (cars: 9100, 9800), and Mono-link guide type Bolsterless bogies (cars: 9200, 9300, 9600, 9700)		[#02~08] Electric command electro- pneumatic blended brake (regenerative brake until just before stopping) Security braking device Snow proof braking device TCMS (TIS) trainset comprehensive blending control (electro-pneumatic blended brak control of regenerative brake on a			