

East Japan Railway's E 751 for limited express "Tsugaru" in North Japan

◀ south terminal of Morioka



type	T _c E751	M ₂ E750-100	M ₁ E751-100	M ₂ E750	M ₁ E751	T _{sc'} E750
tare weight [tons]	29.0	34.8	33.1	34.8	33.1	30.7
passenger seated capacity	68	72	72	72	72	16(first class) +22
vehicle body material	double skin car body shell of aluminum alloy hollow extrusion					
vehicle body size [mm]	21,000(L)x 2,946(W)x 3,965(H)	20,500(L)x 2,946(W)x 3,550(H)	20,500(L)x 2,946(W)x 3,550(H)	20,500(L)x 2,946(W)x 3,550(H)	20,500(L)x 2,946(W)x 3,550(H)	21,000(L)x 2,946(W)x 3,965(H)
track	1,067 mm					
overhead voltage	catenary system for AC 20,000 V 50 Hz					
security system	ATS-SN type, C type train radio, EB/TE device					
Max velocity	Max.design velocity: 140 km/hrs,					
pantograph	-	-	single arm type	-	single arm type	-
bogie	2 bolsterless air spring bogies per vehicle, wheel base 2,100 mm, wheel diameter 860 mm(New)					
wheel base	14,150 mm	14,150 mm	14,150 mm	14,150 mm	14,150 mm	14,150 mm
traction motor	-	145 Kw x 2 motors per bogie	145 Kw x 2 motors per bogie	145 Kw x 2 motors per bogie	145 Kw x 2 motors per bogie	-
motor type	-	3-phase squirrel cage induction motor	3-phase squirrel cage induction motor	3-phase squirrel cage induction motor	3-phase squirrel cage induction motor	-
driving gear ratio	-	5.65	5.65	5.65	5.65	-
braking system	electrical command brake, straight air reserve brake, holding brake, snow brake	electrical command pneumatic and regenerative blending brake, straight air reserve brake, holding brake, snow brake	electrical command pneumatic and regenerative blending brake, straight air reserve brake, holding brake, snow brake	electrical command pneumatic and regenerative blending brake, straight air reserve brake, holding brake, snow brake	electrical command pneumatic and regenerative blending brake, straight air reserve brake, holding brake, snow brake	electrical command pneumatic brake, straight air reserve brake, holding brake, snow brake
auxiliary electric power	-	AC 130 KvA, DC 100 V/30 Kw, SIV	-	AC 130 KvA, DC 100 V/30 Kw, SIV	-	-
main transformer	-	-	output:900Vac/100 kVA/240kVA	-	output:900Vac/100 kVA/240kVA	-
air compressor unit	screw type	-	-	-	-	screw type
air conditioning unit	one unit of cooling capacity: 22.1 kw (19,000 Kcal/hr) by 2 units/ vehicle					
traction control	VVVF inverter control, regenerative brake system, Constant-Speed Drive					
fixtures and fittings	-	Western style Lavatory, Men's Lavatory, cleansing room	crew room	Western style Lavatory, Men's Lavatory, cleansing room	vending machine for soft drinks, telephone room	Handicapped person Lavatory, Men's Lavatory, cleansing room, Nursing room, storage room