

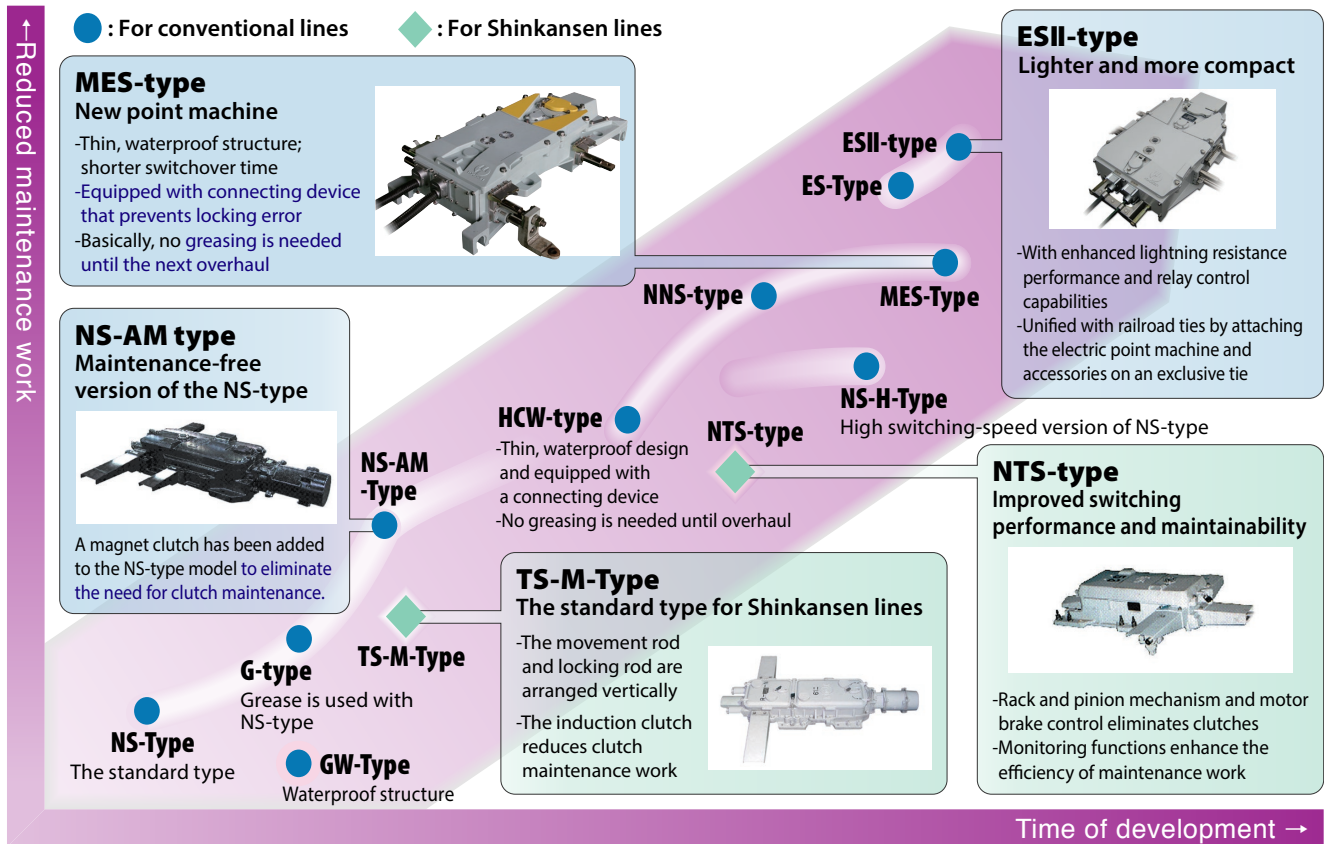
Electric Point Machines

Lighter and more compact machines, with lower maintenance requirements

Our Company has been involved in the design and manufacture of electric point machines since the first machine was manufactured in 1922. Even today, we continue to refine the basic NS-type electric point machines, for improved reliability, performance and maintainability. Numerous models tailored to diverse installation environments have been developed.



History of electric point machine products



Main product lineup

	For conventional lines					For Shinkansen lines	
	NS-AM	HCW	NNS	MES	ES II	TS-M	NTS
Features	·Enhanced switchover performance ·No clutch maintenance is needed	·Thin, waterproof structure ·No greasing is needed until overhaul	·Thin, waterproof structure ·Shorter switchover time	·Thin, waterproof structure ·Adopted servomotor ·Compact and lightweight	·Unified with railway ties ·Enhanced lightning resistance, induction resistance, and waterproof performance	·Vertically arranged motion and locking rods ·No need of clutch maintenance	·Rack and pinion mechanism ·Motor brake control ·Monitoring functions
Switchover time (50Hz/ 60Hz,sec)	5.2/4.8	3.5/3.4	3.0/3.2	3.5	6 or less	7.6/6.6	3.6/3.1
Switching force (kN) (Max.)	4	3	3	3	3	10	13
Clutch system	Magnet clutch	Induction clutch	Magnet clutch	No clutch	No clutch	Induction clutch	No clutch
Mass (kg)	380	355	310	160	190	430	330