

Porcelain Insulator

Light Rail Transit

-Light rail

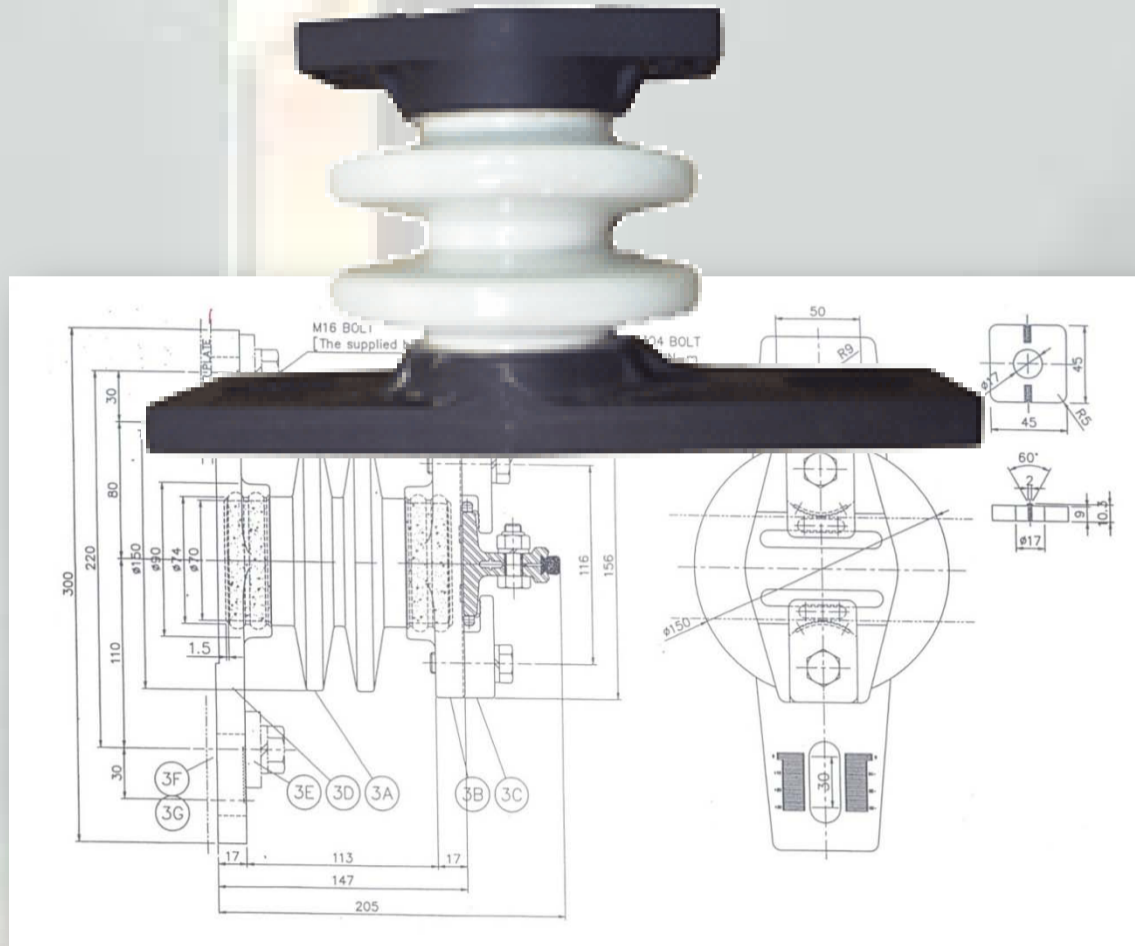
LR(Light Rail) is classified by operation method, one is street car which need to driver, the other is AGT[Automated Guide way Transit] which do not need to driver.

-Magnetic levitation train

1. Electromagnetic Suspension type is using the attraction force of between electromagnet and rail, the train levitate and propelled by linear motor system.
2. Superconducting magnetic levitation type is using repulsion force of electromagnet, the train levitate and propelled by linear motor system.



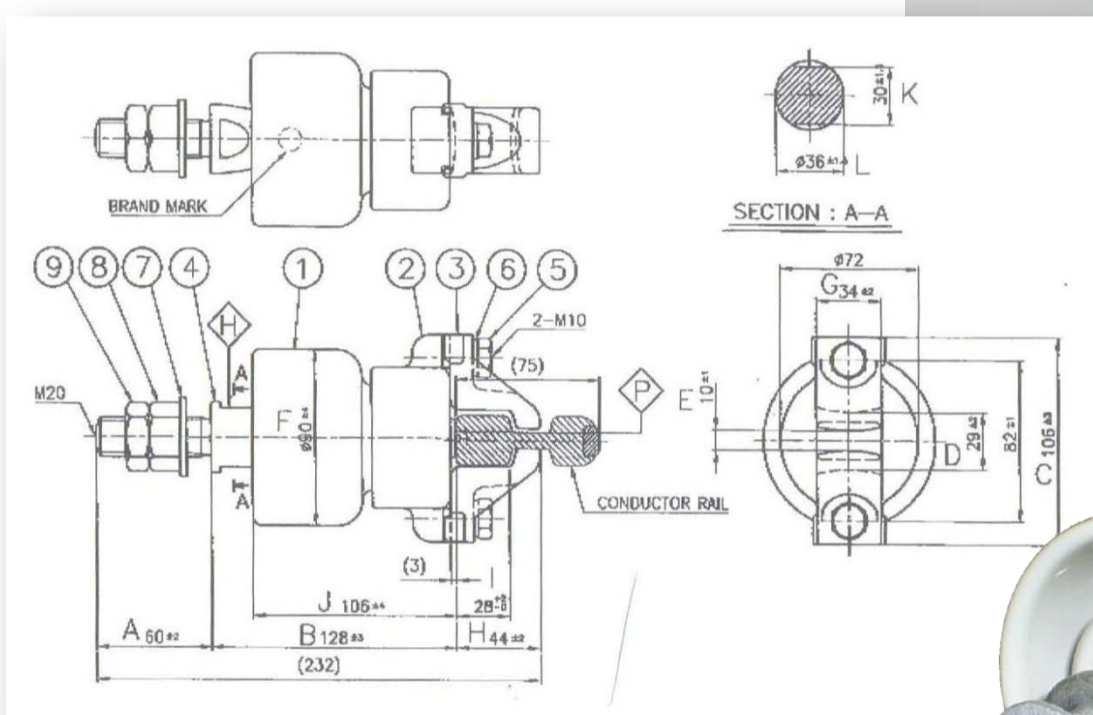
[Seattle Center monorail]



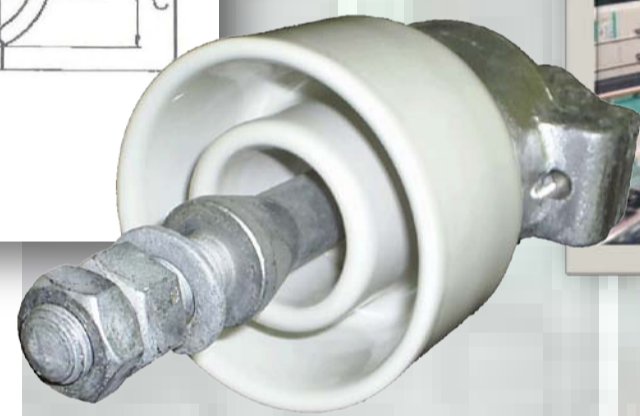
[Drawing: D.C 1,500V insulator]



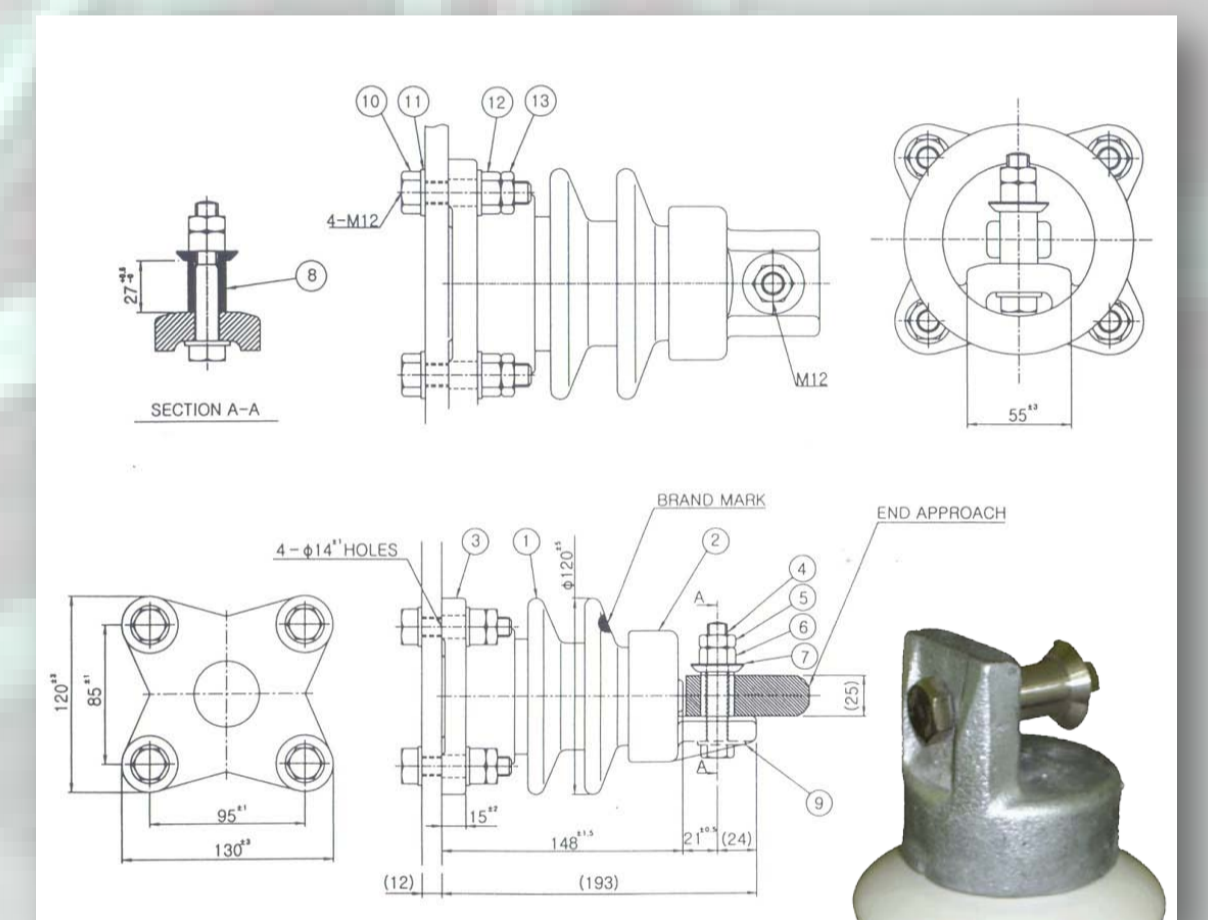
[Daejeon national science museum]



[Standard of D.C 1,500V insulator] drawing, product



[Busan urban railway Line No.4]



[End approach of D.C 750V insulator] drawing, product



[Specification (D.C 750V / D.C 1,500V)]

Type	For D.C 1,500V				For D.C 750V			
	Daegu urban railway line No. 3	Middle east	Magnetic levitation train	For overseas	Busan urban railway Line No.4			
Test item					Standard Supporting	Expansion	Anchoring	End Approach
Surface creepage distance	275mm	255mm	275mm	203mm	-	-	-	-
Low-frequency Dry withstand voltage	-	-	45kV/1min.	40kV/1min.	30kV/2min.	30kV/2min.	30kV/2min.	30kV/2min.
Low-frequency Wet withstand voltage	24kV/1min.	24kV/1min.	24kV/1min.	-	15kV/1min.	15kV/1min.	15kV/1min.	20kV/1min.
Lightning impulse Withstand voltage	75kV	75kV	75kV	50kV	50kV	50kV	50kV	50kV
Bending mechanical failing [proof] load	5,400N	6,000N	6,000N	6,000N	(250kgf/1min.)	(250kgf/1min.)	(600kgf/1min.)	Min. 600kgf
Tensile mechanical failing [proof] load	9,800N	10,000N	10,000N	4,900N/1min.	(1,000kgf/1min.)	(1,000kgf/1min.)	(1,000kgf/1min.)	Min. 1,700kgf
Torsional mechanical Failing load	600N-m	600N-m	600N-m	-	-	-	-	-
Thermal shock	70°C diff, 22min./3times	70°C diff, 15min./3times	70°C diff, 15min./3times	70°C diff, 15min./3times	90°C diff, 15min./3times	90°C diff, 15min./3times	90°C diff, 15min./3times	70°C diff, 15min./3times
Porosity	9.8MPa/4hours	100kgf/4hours	153kgf/12hours	153kgf/12hours	100kgf/4hours	100kgf/4hours	100kgf/4hours	100kgf/4hours
Galvanizing	350g/m ² (48.6μm)	350g/m ² (48.6μm)	500g/m ² (70μm)	350g/m ² (48.6μm)	350g/m ² (48.6μm)	350g/m ² (48.6μm)	350g/m ² (48.6μm)	350g/m ² (48.6μm)



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