



AUTOMATED GUIDEWAY TRANSIT (AGT) SYSTEM

Gawang Pinoy, Para Sa Pinoy!



AGT...
Ang Galing Talaga ng Pinoy!

for more information, please write, fax, call, or email:



**DEPARTMENT OF SCIENCE AND TECHNOLOGY
METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER**

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AGT-Light



The Philippines' Very Own Automated Guideway Transit (AGT) System

The Department of Science and Technology - Metals Industry Research and Development Center (DOST-MIRDC) proudly presents the AGT, a mass transportation alternative locally designed and developed to significantly help in easing road traffic congestion and reducing vehicular emissions in key cities in the country.

As outputs of R&D activities for the AGT project, the DOST-MIRDC is offering to adopters and potential end-users the AGT System which currently has two versions: (1) the AGT-Light; and (2) the AGT.

AGT



SPECIFICATIONS AND TECHNICAL CHARACTERISTICS	MODEL	
	AGT LIGHT	AGT
Length	8.5 m	12 m
Width	2.1 m	2.5 m
Height	3.5 m	3.8 m
Doors	1.4 m wide	2.0 m wide
	Equipped with interlocking system and safety light and sound indicators	Equipped with interlocking system and safety light and sound indicators
Tare Weight per Coach	5900 kg	11000 kg
Gross Weight per Coach (Full Load)	9500 kg	18200 kg
Passengers/coach (Full Load)	60	120
No. of Coaches	2, Articulated	
Coach Body Panel	Fiberglass Reinforce Plastic (FRP) Pre-coated Steel Sheets	
Primary Power	2 motors x 60 HP, Inverter Duty	2 motors x 125 HP, Inverter Duty
Number of Bogies per Coach	2, Single Axle, Double Tire	
Tires	Pneumatic Tires - Tubeless	
Maximum Speed	45 kph	60 kph
Suspension	Semi-Air with shock absorbers	
Minimum Turning Radius	25 m	30 m
Braking	Service Brake: Electric	
	Secondary/Emergency Brake: Full Air Brake	

Features:

- Fully automated - driverless vehicle
- Employs rubber tires running on concrete track
- Powered through a built-in conductor rail along the guide way
- Small turning radius
- Locally designed and manufactured rapid mass transit system
- Full-airconditioned
- Zero carbon emission

INVESTMENT COST (Php) for 6 km, 2-way systems	AGT LIGHT	AGT
CIVIL WORKS	702,903,300	1,401,483,900
STATIONS	560,000,000	880,000,000
DEPOT	254,545,500	400,000,000
ROLLING STOCKS	218,400,000	316,800,000
ELECTROMECHANICAL WORKS	626,727,100	1,193,600,000
RIGHT OF WAY EXPENSES	1,080,000,000	1,080,000,000
CONTINGENCIES (10%)	344,257,600	527,188,400
ENGINEERING	66,552,200	132,695,100
TOTAL COSTS	3,853,385,700	5,931,767,400
COST/KM (2-WAY)	642,231,000	988,627,900

Notes:

1. Investment cost is based on a rolling stock (peak hour operation) of 10 trains running on a 6 km, 2-way track with a maximum ridership of 5,000 to 6,000 passengers per hour per direction.
2. Civil works include the track, retaining assembly, emergency walkway and lighting. Stations and Depot include structures and equipment.
3. For both AGTs, the track's gradient is 6%. AGT Light has a track column dimension of 0.8 m x 0.8 m while AGT has a track column dimension of 1.0 m x 1.0 m.



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