



SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)

COIMBATORE-35.



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Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai.

DEPARTMENT OF AUTOMOBILE ENGINEERING

COURSE NAME : 19AUE308 - SPECIAL VEHICLES

III YEAR /VI SEMESTER

Unit 5- Military and Motorsports Vehicles

Topic : Bridge Builder



CONTENT



- Introduction
- Components
- Constructions
- Advantages & Disadvantages
- Manufacturing Companies



INTRODUCTION



- A Bridge Builder is a combat support vehicle, sometimes regarded as a subtype of military engineering vehicle.
- It is designed to assist militaries in rapidly deploying tanks and other armoured fighting vehicles across gap-type obstacles, such as rivers.





COMPONENTS



- Turret
- Hull
- Folded metal bridge
- Hydraulic assembly
- Tracks





CONSTRUCTION



- Bridge builder is usually a tracked vehicle converted from a tank chassis to carry a folding metal bridge instead of weapons.
- Bridge layer unfolds and launches its cargo, providing a ready-made bridge.
- Once the span has been put in place, the vehicle detaches from the bridge, and moves aside to allow traffic to pass.





CONSTRUCTION



- Once all of the vehicles have crossed, it crosses the bridge itself and reattaches to the bridge on the other side.
- Bridge builder can carry bridges of 60 feet (19 metres) or greater in length.





ADVANTAGES



- Easy to transport the combat vehicles across the obstacles like river etc.





DISADVANTAGES



- Less Armour Protection.
- Stability needed to be maintained while unfolding the bridge.





MANUFACTURING COMPANIES



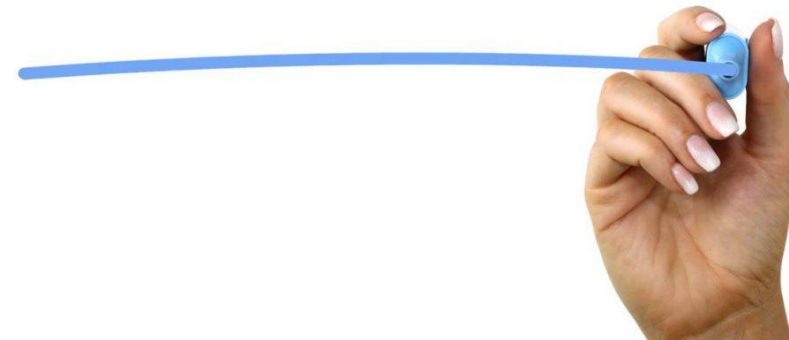
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1. What is the disadvantage of bridge builder?
2. What is the purpose of bridge builder?
3. Is it possible to attack the enemy with this vehicle?

ASSESSMENT





REFERENCE



- https://en.wikipedia.org/wiki/Armoured_vehicle-launched_bridge
- <https://www.youtube.com/watch?v=JlWUuXPS8Wk>
- <https://www.youtube.com/watch?v=bWMrY49qqDw>



THANK YOU !!!