## The MECHANICAL MECHANICAL MULE



WILLYS MOTORS, INC. –
Toledo, Ohio ———

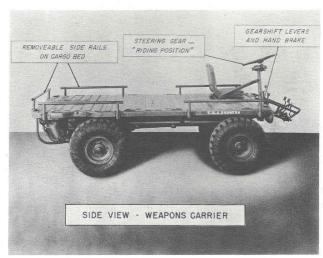




"The Mechanical Mule" is the finest friend that the infantryman has. It weighs 760 lbs. and is capable of carrying 1000 lbs. up a 70% grade. The vehicle can move through the roughest of terrain.



The Mule can be operated at speeds varying from 1 to 25.6 MPH and is equipped with 4-wheel steering to make it the most maneuverable 4-wheel drive vehicle.





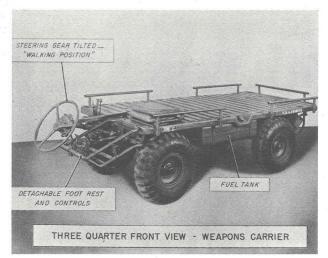


The Mule has an unobstructed flat bed of over 30 sq. ft. and can be used as a BAT Weapon vehicle, heavy ammunition carrier and can mount four litters.



The Mule is an excellent cargo carrier for munitions, parts, armament, food and personnel and can easily maneuver heavy loads.



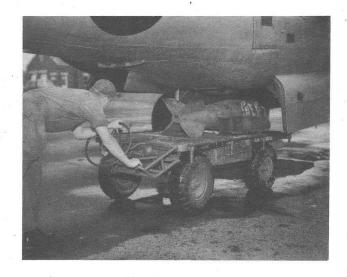




The Mule is equipped with steering controls that permit operation by riding, walking or crawling positions over all types of terrain.



The Mule is light weight and is an excellent support vehicle for airborne and helicopter operations. An extremely low silhouette makes it practical for moving by truck, air or sea to any location.



## THE MECHANICAL MULE **SPECIFICATIONS**

## WILLYS XM274 1/2 TON WEAPON CARRIER

CHASSIS	TRANSMISSION
Wheelbase         57 inches           Track         37.4 inches	3 Speed and Reverse with 2 Ranges.
Track	REAR AXLE & TRANSMISSION
Turning Radius [Outside of Tire]	Rear Axle is of a Rear Wheel Drive with Steering design. Spiral Bevel
Overall Length Less Steering and Foot Rest	Drive with Helical Gear Reduction. Transmission is designed as a unit
With Steering Mounted. 106 inches With Foot Rest Mounted 117.4 inches	with Rear Axle.  Propeller Shaft
Overall Width	
Over Platform	Overall Length
Heights [Loaded]	Clutch
Over Platform	Diameter6.5 inches
Over Driver Seat	Brake
Over Steering	Brake [Propeller Shaft Mounting]
At Front Steering Arm	ENGINE
At Rear Under Axle	Type [Opposed Air Cooled]
Under Engine	Displacement
Angle of Approach:	Compression Ratio
With Foot Rest41 degrees	Horse Power [Maximum at R.P.M.]
Angle of Departure36 degrees	IgnitionConventional Flange—Mounting Magneto
Weight: 750 nounds	StartingManual Pull with Rewind Cable Fuel [Recommended]80 Octane
Vehicle [With Gas and Lubrication]	CoolingCentrifugal Belt Driven Fan
Gross Vehicle Weight1760 pounds	Engine GuardTubular Frame
WHEELS & TIRES	BODY
Wheel Rim	Platform Size95 inches x 46 inches
Tire	PERFORMANCE
Tire Ground Pressure8 pounds	Road Load Fuel Consumption:
STEERING & CONTROLS	Gross Vehicle Weight—High Gear, @ 20 Miles per Hour, 18 Miles per Gallon
SteeringTwo or Four Wheel via Pivoted Type 17 inch Diameter Wheel	Fuel Tank Capacity
ThrottleFoot & Hand Throttle BrakesFoot Pedal and Tie-in Hand Ratchet Lever with Cable Linkage	Speeds:
ClutchFoot Pedal	High Gear
Gear ShiftMounted on Forward End of Platform to Right of Steering	Ratios:
Column ChokeAt Front adjacent to Starter Handle	Final Ratio [Transmission in Low]
FRAME	Final Ratio [Transmission in 2nd]
Two tubular members which are connected to the front and rear axle	Bevel Gear in Axle
housing form the chassis Frame. These tubes are made of Steel N.A.X	Gear Ratio @ Wheel2.22
9112 or equivalent, minimum yield 50,000# P.S.I. outside diameter.	Gradeability [Tangent]:
3½" nominal #16 [.0598 U.S.S. Ga. welded]."	High Gear
FRONT AXLE	*Note: Limited by the Amount of Traction
Front Axle is of the front wheel drive and steering design. Spiral Bevel	Willys Motors, Inc. 3-22-56
drive with helical gear reduction.	3-22-06