

Voyager MDR-235 Four Track Articulated Carrier Specifications



DIMENSIONS FOR COMBINED VEHICLE (2 SECTIONS)

| | | |
|-------------------------|------------|----------------------------------|
| Overall Length | 410" | (10.42 m) |
| Overall Width | 96" | (2.44 m) without mirrors |
| Overall Height | 96" | (2.44 m) |
| Ground Clearance | 20" | (50.8 cm) |
| Curb Weight | 24,000 lbs | (10,886 kg) depending on options |
| Payload | 28,000 lbs | (12,700 kg) combined |
| GVWR | 60,000 lbs | (27,216 kg) |

DIMENSIONS FOR FRONT VEHICLE

| | | |
|-------------------------|------------|-------------|
| Overall Length | 189" | (4.80 m) |
| Overall Width | 96" | (2.44 m) |
| Overall Height | 96" | (2.44 m) |
| Ground Clearance | 20" | (50.8 cm) |
| Curb Weight | 16,000 lbs | (7,258 kg) |
| Payload | 8,000 lbs | (3,629 kg) |
| GVWR | 28,000 lbs | (12,700 kg) |

DIMENSIONS FOR REAR (POWERED) CAR

| | | |
|-----------------------------------|-------------------------------|---|
| Overall Length | 173" | (4.39 m) |
| Overall Width | 96" | (2.44 m) |
| Deck Height | 43" | (109.2 cm) |
| Deck Area & Dimensions | 110 sq ft (96" x 165" approx) | 10.22 m ² (2.44 m x 4.19 m approx) |
| Frame Height | 39" | (99.1 cm) |
| Ground Clearance | 20" | (50.8 cm) |
| Curb Weight | 10,000 lbs | (4,536 kg) without deck |
| Payload | 22,000 lbs | (9,979 kg) |
| GVWR | 32,000 lbs | (14,515 kg) |

PERFORMANCE

| | | |
|--|-------------------|-------------|
| Maximum Speed | 18 mph | (30 km/h) |
| Ground Pressure | at 0" penetration | |
| Unloaded | 3.6 PSI | (24.82 kPa) |
| Loaded | 5.6 PSI | (38.61 kPa) |
| Maximum Gradeability (static test when loaded) | | |
| Up Hill | 70% | (35°) |
| Side Hill | 47% | (25°) |



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STANDARD ENGINE

| | |
|-------------------------|------------------------------------|
| Make | FPT - Fiat Powertrain |
| Model | FPT Iveco N67 ENT |
| Type | 6 Cylinder Diesel |
| Displacement | 6.7 L (408.8 cu. in.) |
| Injection System | Electronic |
| Horsepower | 235 HP (175 kW) at 2,200 rpm |
| Torque | 753 ft lbs (1,020 Nm) at 1,500 rpm |

POWER TRAIN FOR HYDROSTATIC DRIVE

| | |
|------------------------|---|
| Transmission | Hybrid electric drive |
| Drive Sprockets | Steel sprocket hubs |
| Steering | Articulated with wheel steering operating twin steering cylinders |
| Control Type | Steering wheel with adjustable column |
| Parking Brakes | Multi-disc, spring applied, hydraulic release |

FRAME, SUSPENSION & WHEELS

| | |
|-------------------|---|
| Frame | Corten, welded tub |
| Suspension | Walking beam with double twin rocker bogie wheels |
| Wheels | 16 front car + 16 rear car = 32 steel wheels |
| Size | 12" steel with oil hub |

TRACKS

| | |
|---------------|--|
| Tracks | One piece 24" rubber track with steel reinforcements |
|---------------|--|

FLUID CAPACITIES

| | LITRES | U.S. GALLONS |
|-----------------------|---------------|---------------------|
| Cooling System | 15.2 | 4.0 |
| Fuel Tank | 151 | 40.0 |

ELECTRICAL

| | |
|-------------------------------------|---------------------------------|
| Voltage | 12 V |
| Battery Capacity at 0 deg. F | 2 x 850 CCA, 1,700 CCA combined |
| Alternator Capacity | 120 Amps |
| Ground | Negative |



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CAB

- 3-man or 6-man cab
- Open or closed cab with Roll Over Protection System
- 3x Front air suspension seats with seat belts
- Rear folding seats
- 2 front lights
- 1 rear light
- 1 dome light
- Cab heater defroster
- Cab A/C standard with closed cab

STANDARD EQUIPMENT

| | |
|---------------------------|--|
| Air cleaner - Type | Dry – two stages with air filter restriction gauge |
| Instruments | Tachometer Oil pressure Hydraulic oil temperature gauge Hour-meter Hydraulic oil temperature gauge Coolant temperature Fuel gauge Voltmeter Warning light gauge for: - Low engine oil pressure - High engine coolant temperature - High oil temperature Alternator charge Steering wheel with adjustable column 12V hydraulic tilt pump for cab tilt |
| Manuals | Two sets of Operations, Parts & Service manuals |

STANDARD MODELS

| Model | MDR-235 |
|--------------------|---|
| Engine Make | Fiat Powertrain Technologies |
| Model | N67 ENT |
| Horsepower | 235 HP |
| Vehicle Width | 96" |
| Cab | 6 man closed cab |
| Front Seats | 3 air suspension seats with 2 point seatbelts |
| Rear Seats | 3 rear folding seats |
| Front car deck | 8,000 lbs payload |
| Rear car open deck | 22,000 lbs payload |
| Speed | 18 mph (30 km/h) |

*Other engine alternatives available upon request



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ENGINE OPTIONS

- Spark arrestor
- Alternators from 120 to 200 amps
- Reversible fan
- Other engine option available

COLD WEATHER OPTIONS

- 120 V Hydraulic oil heater
- Diesel fired coolant heater
- 120 V Battery heaters
- 12 V DC Heated fuel filter
- Coolant heater for hydraulic oil
- Coolant heater for fuel tank
- Auxiliary cab heater

CAB OPTIONS

- Front brush guard
- Front & top guard
- Closed cab with windshield wiper, recirculation fan and heater defroster
- Tinted glass
- Intermittent windshield wiper
- Additional front wipers
- Premium cab sound and heat Insulation
- Front air suspension seats
- Rear folding seats
- Rear suspension seats
- 3 point seatbelts for front seats
- 3 point seatbelts for rear seats
- Glass escape hatches
- Escape hatch opening limiter
- 25,000 BTU air conditioning
- Air conditioning with pressurized cab
- 45,000 BTU heater for 6-man cab
- Dual inside rear view mirrors
- Dual side mirrors
- Dual side mirrors with electric heat
- Dual sun visors
- Door opening cylinder
- Rear view camera system
- GPS



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LIGHTING OPTIONS

- Additional front / rear lights
- Additional front / rear LED lights
- Remote control spotlight
- DOT Road lighting
- Rooftop strobe lights

FRONT CAR OPTIONS

- Front 2-way plow
- Front 2-way plow with float position
- 19" Front plow top extension
- Front bumper in lieu of plow
- Front winch
- Knuckle boom crane
- Outriggers for crane
- Additional hydraulic system cooling
- Winter preheat system
- Deck mounted auxiliary fuel tank
- Auxiliary hydraulic system
- Stake side rear deck
- Rear deck storage compartment

REAR CAR OPTIONS

- Flat deck
- Stake side flat deck
- Dump box
- Personnel carrier (seating for 12)
- Air conditioner/heater for rear car
- Pintle hook
- 5th wheel with air or electric brake connections
- Deck crane
- Outrigger for crane
- Tanks for liquids transport
- Winch

SUSPENSION OPTIONS

- The Voyager suspension can be configured for a wide variety of end user requirements based on engine, speed, front car GVWR and rear car GVWR.

MISCELLANEOUS OPTIONS

- Maintenance kit
- Other options available upon request

