



INTERNATIONAL  
AUTOMATED  
SYSTEMS



## Maintenance and Cargo Hauler (MACH-1)



## MACH-1

### Features:

#### Engine Specifications

Make.....	3TNV70
Type.....	*Diesel
Displacement.....	854 cc
Cylinders.....	3
Oil Filter.....	Spin On Filter
Air Cleaner.....	Dual Element, Replaceable
Cooling.....	Liquid

#### Drive Train

Type..... Continuously Variable Transmission  
(CVT) with Clutch Enclosure

Gear Ranges..... Forward HI and LO -  
Neutral - Reverse

#### Travel Speeds:

Forward HI.....	51 km/h (35 mph)
Forward LO.....	27 km/h (17 mph)
Reverse.....	32 km/h (20 mph)
Torque at Wheels.....	3,200 ft-lbs (Total) 800 ft-lbs/wheel

#### Electrical System

Type.....	12 Volt
Battery Size.....	480 Cold Cranking Amps @ -18° C (0° F)
Alternator.....	55 Amp

#### Fuel System

Fuel Filter.....	Replaceable Element
Fuel.....	Diesel

#### Fluid Capacities

Fuel Tank.....	26.5 L (7.0 gal)
Crankcase (with filter).....	1.7 L (1.8 qt)
4WD Front Differential.....	0.59 L (19.6 oz)
Transaxle.....	3.8 L (4.0 qt)
Cooling System (including recovery tank).....	5.0 L (5.2 qt)
Brake.....	237 ML (8 oz)

#### Steering and Brakes

Steering.....	Rack and Pinion with Power Steering
Brakes.....	Hydraulic Disc

#### Tires

NOTE: Tire load conditions are not to exceed Gross Vehicle Weight Rating (GVWR).

Front and Rear Tires.....	General Grabber AT2 27x8.50 R14LT
Load Capacity.....	689 kg (1520 lb)
Max Inflation Pressure.....	344 kPa (50 psi)

The MACH-1 available in Gas.....4-cycle Electronic Fuel Injection (EFI)

#### Dimensions

Width (overall).....	1.6 m (62 in)
Length (with bumper).....	3 m (119 in)
Height.....	1.9 m (75.0 in)
Ground Clearance.....	27.9 m (11.0 in)
Approach Angle.....	50°

#### Hitch

Front.....	Standard 2 in Receiver
Rear.....	Standard 2 in Receiver

#### Cargo Bed

Material.....	Aluminum
Width (overall).....	1,422 mm (56 in)
Length (with lift/tie down provisions).....	1,194 mm (47 in)
Height.....	102 mm (4.0 in)
Weight (Bed, cargo tie downs, lift/tie down provision).....	75 kg (165 lbs)

#### Weights and Capacities

Weight (Empty vehicle with full fluids).....	936 kg (2063 lb)
Gross Vehicle Weight Rating (GVWR).....	1,517 kg (3344 lb)
Wheel Loads	<b>LF: 267 kg (590 lb) RF: 290 kg (640 lb) LR:</b> <b>476 kg (1,050 lb) RR: 483 kg (1064 lb)</b>
Payload Capacity.....	635 kg (1400 lb)
Cargo Bed Capacity (Not to exceed GVWR).....	454 kg (1000 lb)
Towing Capacity (Not to exceed GVWR).....	907 kg (2000 lb)

#### Recommended Lubricants

Engine Oil.....	John Deere PLUS-50™
Grease.....	John Deere Multi-Purpose HD Lithium Complex Grease
Transmission Oil (Transaxle).....	John Deere HY-GARD™ (JDM J20C)
Transmission Oil (4WD Front Differential).....	HY-GARD™ (JDM J20C)

(Tested to meet or exceed MIL-STD209K. Configured with MIL-STD209K cargo tie downs and lift/tie down provisions.)

CAGE Code: 0B3A9  
DUNS: 175362375  
GSA Contact: GS-07F-0479N

4325 Pheasant Ridge Dr.  
NE Blaine, MN 55449

T 763.717.9066  
F 763.717.9068

ias@iasmn.com

[www.iasmn.com](http://www.iasmn.com)

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