

c-Link Systems, Inc.



# Forager-T-x

## Tracked Omni-Chassis

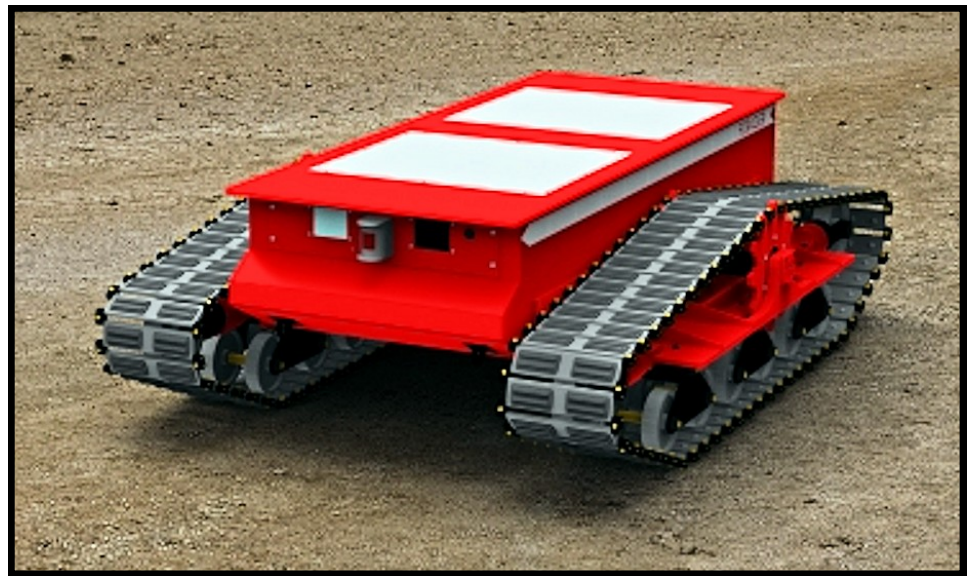
Product Brief—Revision C

20 April 2011

### System Highlights

- ◆ Omni-chassis
- ◆ Tracked
- ◆ "Green" Electric drive system
- ◆ 24VDC PMDC motor/gearbox drive
- ◆ Power distribution/battery charger board
- ◆ ABS Battery Boxes for easy removal
- ◆ All aluminum
- ◆ Standard Sealed Lead Acid (SLA)
- ◆ Future option of LiFePO
- ◆ Changeable track pads
- ◆ Future "Dozer" Blade
- ◆ Future Drag Blade with GPS control
- ◆ Quad Tower System controller

### Forager-T-x



This is the basic autonomous robotic vehicle (ARV) Omni-chassis. An Omni-chassis can be equipped with a variety of attachments or payloads. The overall system can be preprogrammed for a job via wireless computer link or network connection. Jobs can be taught via a remote control, this is accomplished by Forager being "driven" through it's path or action. The ARV constantly records position and condition information. Upon completion it becomes a looped playback, all the collision safety's are still in operation. Forager also handles the communications and data transfer to all payloads.

Tracks are aluminum with urethane bolt in pads, these can be swapped out for aggressive metal units. The tracks have a 22° attack taper to allow for climbing.

The unit contains a distributed multi-processor system. That system contains a full inertial navigation system, LiDAR, periphery range sensors, GPS, wireless communications, battery charging/monitoring system and cameras. A cable connection to the attached payload is brought out through the front panel. The electronics are draw mounted to facilitate field upgrade/repair.

This unit is ready for production.

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For updates check

[www.c-linksystems.com](http://www.c-linksystems.com)

## Corporate Brief

For the past seven years c-Link Systems, Inc. has focused on industrial control/automation of process lines in metal rolling and paper mills. Out of this emerged our expertise in Industrial Robotics and high speed fiber optic communications. A previous background in mechanics, dynamics and satellite guidance systems has positioned the company to support our customers in the growing field of robotics as it relates to autonomous robotic vehicles (ARV) with numerous commercial/industrial applications.—SEA

## SPECIFICATIONS

### Omni-Chassis Information

#### Interface

Battery charger/Power distribution  
Zig-Bee communications  
Sensor array plug-in

LiDAR/Cameras  
Ethernet  
CAN

#### Physical Characteristics:

Overall Length: 80.2 inches (2037mm)  
Overall Height: 24.4 inches (619.8mm)  
Overall Width: 56.5 inches (1435mm)  
Track Width: 10" (254mm)  
Track Attack Angle: 22° front and rear

Vehicle Weight: 900lbs. (408.3Kg)  
Total Vehicle Weight: 2000lbs. (907Kg)  
Ground clearance: 10 inches (254mm)  
Ground Pressure: 2.1psi at max weight  
Speed: 2.5mph (4kph)

#### Power Requirements:

24VDC, 300Ah battery system minimum

#### Environmental Characteristics:

Operating Temperature: -20°C to 90°C  
Storage Temperature: -40°C to 105°C  
Relative Humidity: 0 to 90% non-Condensing

**Model Number - Forager-T: Tracked Omni-chassis, No payload**

## ORDERING INFORMATION

Model Number	Quantity 1-9	Quantity 10+
Forager-T-SLA	\$27,495USD	Call Factory

**\*\* Forager is built-to-order, 12 weeks ARO \*\*\***