

E-Tack BearCat's New! All-Electric Tack Truck



BearCat's Industry Leading Firsts

- | | | |
|-------------------------|-------------------------------------|------------------------------|
| Full Cab Control | 1-Foot Spray control | Internal Poppet Spray Valves |
| Computer Rate Control | Limit Switches on Wings | Double Fold Wings |
| All Electric Tack Truck | Self Contained Crumb Rubber Trailer | |

- Now! All Electric – Wing Raise, Bar Raise, Side Shift,**
- 48VDC Product heat that can be used while moving.
 - 48VAC Pump Drive motor.
 - Circulate & heat overnight with the 240VAC option.
 - Fully Automatic Flush System.

BearCat Mfg. Inc. "Innovation by Design"

E-Tack All-Electric Tack Truck

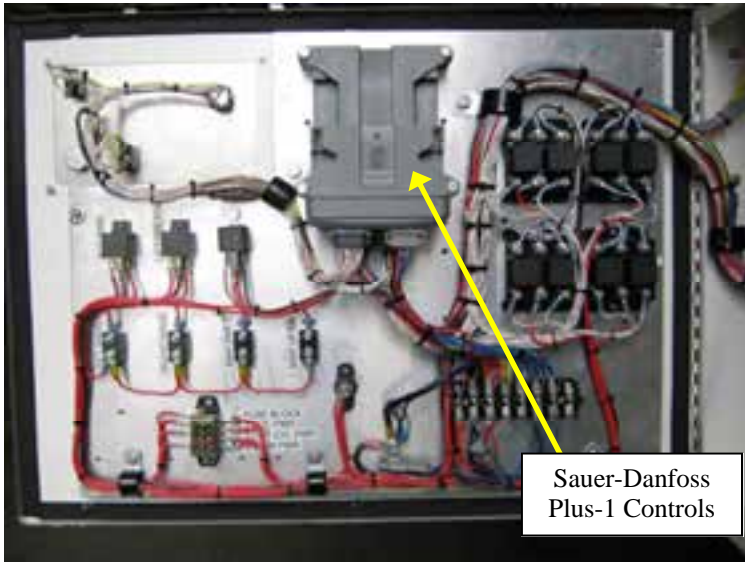
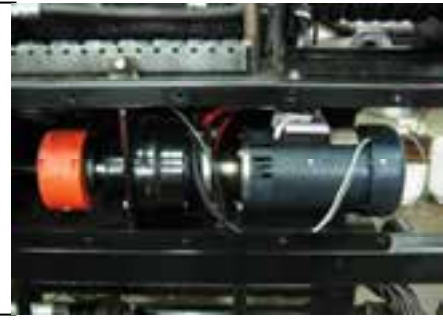
The Tack Truck is designed from the ground up to do light precision work from 1' to 14'



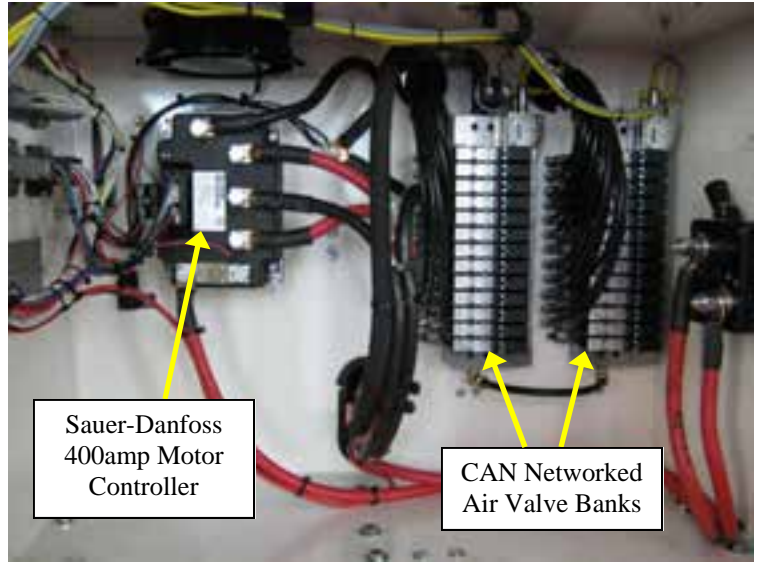
Pump Drive System

This is the heart of BearCat's New Technology!

An engine mounted 100 amp (200 amp option) 48Vdc alternator, charges the battery pack. The battery pack supplies power to the 48Vac CAN networked motor controller, which controls the speed, direction and torque of the AC motor. The optional 200 amp alternator also supplies enough power for four 48Vdc heating elements that can be used during transport.



Sauer-Danfoss Plus-1 Controls

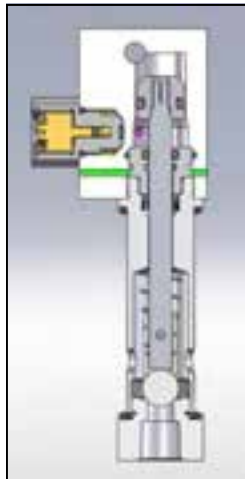


Sauer-Danfoss 400amp Motor Controller

CAN Networked Air Valve Banks



Tri-cylinder Poppet Valves have no external moving parts



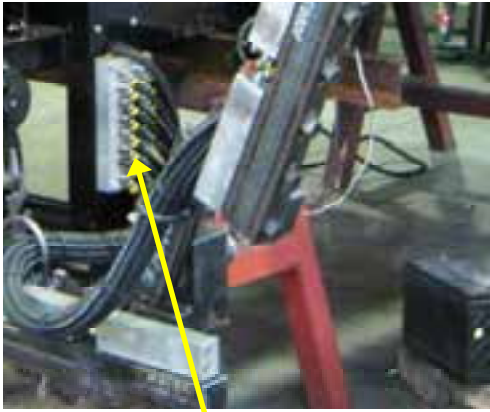
Side Control Panel

Skid Mounted Assembly!



Skid Mounted Assemblies

- Allows for easy shipping anywhere in the world.
- Fully tested and calibrated on the assembly rack.
- Customer can purchase local truck to fit their local environmental specifications.
- Standard 9' (2.74M) tank 1,350 gallons (5,110L) larger available, ask your Bearcat sales rep for specifics on tank sizes.



Spraybar Hose Manifold Makes Replacing a Broken Air Hose Quick and Easy!

E-Tack Truck Features

- All electric operation, including heat (optional), makes for an environmentally friendly operation.
- Custom tank sizes available.
- Skid mounted for ease of worldwide shipping.
- Smaller 0.300 gallon/rev pump for very accurate light shots.
This truck is designed for light accurate tack coating jobs. But is capable of heavier spread rates at narrower widths than it's big brother the BC501, see the Bearcat Spread Rate Calculator for application possibilities.
- Electric drive system allows for full pump control on dead stop starts.
- Electric drive system allows for full spraybar circulation with truck engine OFF for zero emission asphalt circulation; for those environmentally sensitive areas.
- The Valve selector, selects the correct asphalt valves and locks out any asphalt valve that are not need for the selected function.
- 48VAC brushless motor driving a 0.300 gal./rev fixed displacement asphalt pump through a 6.2 to 1 Gearbox for precision control of light shots even in a 1' shot.

E-Tack *All-Electric Tack Truck*

Specifications

Product Pump and Components

- 0.300 gal./rev. (1.136L/rev.) Heat Jacked fixed displacement.
- 6.2 to 1 Planetary Gearbox.
- 200 GPM (757LPM) maximum volume.
(designed for light accurate tack coating)
- Asphalt pump includes w/bi-directional relief valves.
- 3" (7.62 cm) Heated tank valve.
- 3" (7.62 cm) Intake plumbing.
- 14" (35.6 cm) by 3 5/8" (9.2cm) dia. w/0.188 holes Load Screen.
- 25" (63.8cm) by 3 5/8" (9.2cm) dia. w/0.094 holes Product Strainer.

Spraybar and components

- Full circulating spraybar.
- Maximum operating temperature, 450°F (232° C) w/stainless bar feed hoses.
- Break away wings to prevent damage if an object is stuck while spreading product, shear pin replaceable in less than 1 minute.
- Spraybar 12' (3.6m) w/1' (0.3 m) cuts.
- Optional: Spraybar 14' (4.3m) w/1' (0.3 m) cuts.
- 8' (2.5 m) main bar.
- Rubber asphalt/tar 2" (5.08cm) spraybar feed hoses.



Tank Specifications

- Standard 1,350 Gallon (5,110 Liter) Tank.
- Shell: HR sheet steel 10gauge.
- Insulation: mineral wool 2" (5cm).
- Skin: Bright aluminum 0.050" (1.27mm).
- False head: Aluminum 0.125" (3.2mm).

Heating System

- Optional: 6" (15.2cm) u-heat tube.
- Optional: 325,000 BTU Propane Burner.
- Optional: 325,000 BTU Diesel Burner.
- Optional: 48Vdc Electric Heating Elements.
- Optional: 48Vdc Electric Heating Elements w/240VAC elements for overnight Heating
- Optional: 240VAC Single Electric Heating Element.

Electrical system

- 48Vdc 100amp belt drive alternator w/Internal regulator.
- Optional: 48Vdc 200amp belt drive alternator w/external voltage regulator.
- 48DC to AC CAN-Network, 400amp, Motor Invert.
- 48VAC, 5000RPM, 10HP (17Peak HP) Brushless Motor w/ Temperature and Speed Sensor.
- All electrical connectors, & controllers IP67 rated (pressure wash-down).
- Any crimp type connectors are also soldered to prevent corrosion.
- 12Vdc control system.
- Computer Rate Control (CRC), uses closed loop control to control the spread rate of the asphalt pump.
- Cab control of the GSY, spraybar asphalt valves, diagnostics, spraybar raise, lower & side shift, & auto spraybar flush.
- All Computer nodes & air-valve banks use CAN communication.
- Airline manifolds located at the rise/lower hinge point to aid in hose replace at Spraybar.
- Bearcat left side mounted computer controlled Valve Selector.

Electric Raise/Lower, Shift Actuators



Electric actuators add simplicity in service and operation. No hydraulic leaks.

As a part of product improvement, BearCat Mfg. Inc. reserves the right to make changes in any of BearCat's product specifications at any time.

BearCat. Mfg. Inc.2008

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