

TS-AL220 Truck Series

Custom built striper



Note: This picture is representative of the TS-AL220 only. It may show optional equipment not included in our base model.

BASE UNIT

- Aluminum deck with canopy, removable aluminum fenders, LED platform lighting, (2) LED white/red canopy lights
- (2) 10# fire extinguishers
- (2) Bostrom air ride HB seats
- Heavy Duty type gun carriages with two 11" diameter tires installed in a single center swivel mounted in front or behind rear axle
- (2) paint & (2) bead guns left gun carriage
- (1) paint & (1) bead guns right gun carriage
- Mechanical air lift line guide with caster
- Drum draw-(4) 55-gallon drums
- One-inch paint re-circulation
- ARO 1-½" diaphragm paint load/charge pumps
- 100 sq. in. LP paint filters
- (2) Titan/Speeflo Model 445-345 HP paint pumps
- (2) ARO HP paint filters
- (3) Graco Model 238-377 paint guns

- 1500# bead tank with 2" sight glasses
- Vacuum bead loading
- (3) Graco Model 238-338 bead guns
- Boss 85 CFM rotary screw hydraulically driven air compressor with air after cooler
- Air system-12 gallon air tank, LaMan 111F extractor/dryer with auto drain, (2) air take off's-(1) at each gun carriage
- Cummins QSF2.8-74 Tier 4 74 hp diesel auxiliary engine with battery, fuel from chassis tank
- Auxiliary engine controls at operator station
- Tandem hydraulic pumps piggyback set up direct driven
- Hydraulic system-50-gallon hydraulic oil reservoir, 50 gpm hydraulic oil cooler, (2) steering sectors, HP pumps manually controlled, easy start hydraulic by-pass valve
- Chassis cab control console
- Electric power control box-Hoffman electrical box
- Pneumatic control console at left operator seat
- (2) Model SC-12 Skip-Line, Inc. controllers
- David Clark intercom system-(3) station with (3) headsets with storage hooks
- Whelen LED safety light system-(4) L41AP forward & rear; (2) LINV2A carriages-(1) each carriage
- (3) electric paint actuators for paint guns with switches on controllers
- 36"x72" LED 25 lamp arrow board actuated
- Pre-construction meeting at customer's facility or via video conference
- Factory Pre-delivery Inspection meeting for (2) customer's employees
- (3) days of training
- (2) operations/maintenance manuals
- 120 days ARC delivery

Published Options for EZ Liner Model TS-AL220

- Cummins Model QSF3.8-85 Tier 4 auxiliary engine ILO QSF2.8-74 Tier 4 engine
- Additional paint & bead line with Graco paint gun & Graco bead gun with actuator for paint gun
- Graco hand Flex gun with hose reel & 25' HP hose
- 220-gallon stainless steel paint tank (120 gallons each color) with (2) hydraulic powered paint agitators
- 25-gallon poly flush tank with 12vDC pump with quick disconnect at each gun carriage & spray wand with 25' hose
- Skip-Line, Inc. digital speedometer installed in chassis cab
- Gallon counts-price each per color
- Work light system-(8) 1000 lumen LED lights for illuminating gun carriages, deck, pumps & front guide
- Model 1020 F-4 31"x75" Two 10" lines of 8 characters per line full matrix LED message board actuated with controller in chassis cab ILO 36"x72" LED 25 lamp arrow board actuated with controller in chassis cab
- Camera guidance system with 36" electric camera extension, 10.4" LCD color monitor, (2) color cameras & dual line digital cross hair generator
- Model GL3000-P remotely positioned guidance laser mounted on roof bracket
- Deduct for 3'x6' arrow board
- Dual split standard gun carriage tires in separate swivels ILO two tires installed in a center single swivel-per gun carriage
- Outside tire remotely adjustable on dual split carriage tires in separate Swivels-per gun carriage.
- Deduct for medium duty gun carriage and single tube outrigger ILO base, each
- Deduct for mechanical line guide
- Aluminum toolbox, each
- TS-AL220 recommended spare parts kit

H-GAC SM10-20 SPECIFICATIONS FOR
EZ LINER MODEL TS-AL220 BASE UNIT

Product Code #18B

4/22/2020

- 1.0 **Performance specification:** Unit shall be capable of applying 3" to 8" wide retro-reflective lines with spacing between lines from 0" to 6". Paint applications speeds shall be from 4 MPH to 12 MPH. Application rates of 12 mil to 15 mil wet film thickness paint for standard formulations of traffic paint and 6 to 8 lbs./gal and Type I glass beads. The unit is designed to operate in its own lane of traffic and shall be able to apply centerline and lane line/edge lines simultaneously. Independent carriage steering systems allow individual adjustment of the gun carriages.
- 2.0 **Equipment platform:** The construction shall be of 3/16" thick smooth aluminum deck plate 88" wide x length as required for components with 4" aluminum long sills, 3" aluminum cross members with integrally formed rub rail. Walking area surfaces of platform shall be covered with anti-slip material. A canopy shall be provided above the operator stations. Deck shall be installed on chassis frame rails using 8" to 10" tall steel risers that are bolted to the chassis frame rails and long sills. The railings shall be 42" high with mid rail welded to deck with two (2) 42" high fold up steel ladders with a chrome grab handle each side of ladder openings and rear access. At the operator station the railing shall be 32" high with a mid rail. Steel rear bumper with stair step rear access incorporated into the design with right side hand railing. Removable aluminum rear fenders with aluminum guard forward shall be provided. LED platform lighting. Two (2) 10# fire extinguishers and two (2) cup holders shall also be provided. The auxiliary engine and air compressor shall remain their original factory powder coat colors. The underside of the deck will be painted the same color as the top of the deck. All coatings shall be lead free. The Unit shall be prime coated with a two-component urethane primer system. The topcoat shall be a two-component polyurethane coating. White is the standard factory paint color. Black powder coating shall be used on brackets, gun carriages and line guide.
- 3.0 **Operator seats:** Two (2) Bostrom air ride high back black vinyl covered seats with seat belts and seat tethers and inside armrest. At the top of the railing at each operator station a black vinyl covered padded armrest 3"x18" shall be provided.
- 4.0 **Gun carriages:** Heavy duty parallel scissors type centerline and edge line carriages **mounted in front of or behind** the rear axle. Each carriage shall be supported by dual tube in tube retractable structural steel slides with UHMWPE bearing material and two 11" diameter gun carriage tires installed in a single center swivel. Carriages shall be supported by auto lock brackets in the transport position and adjustable gun brackets are to be zinc plated. Two (2) paint guns and two (2) bead guns installed on left gun carriage and one (1) paint gun and one (1) bead gun on the right gun carriage.
- 5.0 **Mechanical line guide:** A front mount laterally adjustable line guide with extension 6' to 10' with pneumatic swivel caster and pneumatic lift.
- 6.0 **Paint supply:** A drum storage area shall be provided capable of holding four (4) 55 gal. paint drums securely held in place with a web strap retention system. Paint re-circulation shall be provided. A stand tube shall be supplied for each paint suction hose suction tube.

- 7.0 **Low pressure paint pumps:** Two (2) ARO Model 666151-244-C 1 ½" paint load/charge pumps with 100 sq. in. filter with 1/8" screen holes. Two 2"x12' load hoses with cam & groove fittings on both ends with 1 ½"x40" stainless steel pipe load tubes with 90° elbow with cam & groove fitting shall be provided to load paint. Low pressure paint pumps to be used to load paint and to charge the high-pressure paint pumps.
- 8.0 **High pressure paint pumps:** Two (2) Titan/Speedflo Model 445-345 paint pumps with a combination of leather/UHMWPE packings rated at 13.0 GPM @ 2000 PSI shall be provided. Each pump shall be equipped with an 18 sq. in. high-pressure stainless-steel paint filter with 40 mesh screens, an ASME certified high-pressure stainless-steel surge chamber and check valve.
- 9.0 **Paint guns:** Three (3) Graco Model 238-377 paint guns with heavy duty reversible spray tips shall be provided. Full length ½" ID nylon lined high pressure paint hoses with ½" NPT stainless steel female swivel fitting on both ends shall be provided from the surge chambers to the paint guns.
- 10.0 **Bead supply:** A 1500# bead tank with three (3) 2" sight glasses shall be provided.
- 11.0 **Vacuum bead loading:** A vacuum bead loading system shall be provided powered by a jet pump with muffler. A 2"x12' load hose with cam & groove fitting on the tank end and 3' suction tube on the other. A splitter/screen shall be installed in the neck of the bead tank to keep foreign objects from entering the bead system.
- 12.0 **Bead guns:** Three (3) Graco Model 238-338 bead guns shall be provided. Full length 1"ID clear poly-spring bead hoses to be provided from the bead manifold under the bead tank to the bead guns.
- 13.0 **Air supply:** Air supply shall be supplied by a hydraulically driven Boss Industries Model 80102-AHBI air compressor with air after cooler rated at 85 cfm @ 100 PSI. The system shall include a 12-gallon air tank and LaMan 111F extractor/ dryer with auto drain. Two (2) air take off quick disconnect ports shall be provided-one at each gun carriage. A preset regulator shall be provided for carriage down pressure. A liquid filled system air pressure gauge shall be provided at the operators' station along with liquid filled gauges and air pressure regulators for bead tank pressure and for the low-pressure paint pumps.
- 14.0 **Auxiliary engine:** A Cummins Model QSF2.8-74 Tier 4 Final 74 hp diesel engine with 120-amp alternator shall be provided with controls at rear operator position, fuel drawn from chassis fuel tank using an auxiliary fuel pump and separate battery. A vertical exhaust approximately 24" extension with rain cap shall be provided, and the engine enclosure shall be foam sound insulated.
- 15.0 **Hydraulic power:** A 50 gallon hydraulic oil reservoir with sight level/temperature gauge, suction screen and return line filter with service indicator and 10 micron cartridge type breather filter shall be provided along with a direct driven pressure compensated piston type hydraulic pump rated at 23 gpm @ 2000 rpm and a direct driven 3.0 cir gear pump and flow regulator to control hydraulic flow to air compressor motor. A hydraulic oil cooler shall be provided with 12vDC fan controlled with a preset temperature switch. Gun carriages shall be

positioned using a power steering system with tilt steering wheel with spinner knob at each operator position and 5' hydraulic cylinder for each carriage. A solenoid controlled hydraulic by-pass valve shall be provided to allow a no-load start for the auxiliary engine. High pressure paint pumps shall be manually controlled at each pump.

- 16.0 **Electrical system:** A chassis cab control console shall be provided in the chassis cab containing the driver's controls for the paint striping body. Each circuit shall be color coded wire and shall have circuit protection. The wiring harnesses between the junction blocks to be protected by protective split loom covering. An LED white/red light with self-contained switch installed above each operator position. The electrical junction blocks and main components of the timer system shall be installed in an above deck weatherproof electrical box.
- 17.0 **Skip line control system:** Two (2) Skip-Line, Inc. Model SC-12 four-line controllers shall be provided. Ground speed signal shall be obtained from a heavy-duty aluminum wrap installed on the chassis driveshaft.
- 18.0 **Intercom system:** A three position David Clark Model U3800 intercom system shall be provided with a dual headset port at the driver's position and a single port at each operator position. The following headsets shall be provided-one (1) Model H3492 single muff and two (2) H3432 dual muff design. Three (3) headset storage hooks shall be provided.
- 19.0 **Safety lighting:** The following Whelen LED amber strobe lights shall be provided-Four (4) Model L41AP 360° Super-LED beacons, one on each front corner of deck or on a chassis cab roof bracket, and one on each rear corner of unit. Two (2) Model LINV2A Super-LED 180° mini strobe lights on gun carriages with one installed on outside edge of each gun carriage.
- 20.0 **Electric actuators:** Three (3) electric gun actuators shall be provided to remotely adjust the height of the paint guns. Control switches shall be provided on each respective Model SC-12 Master Control Box to control the height of the paint guns on each respective gun carriage.
- 21.0 **LED Arrow board:** Actuated 36"x72" LED 25 lamp with controller in chassis cab.
- 22.0 **Drawings & technical literature:** A complete set of drawings shall be submitted. These drawings shall show the deck layout and weight distributions of the proposed unit. Descriptive literature, technical data and photographs shall be included with proposal.
- 23.0 **Project meetings:** A preconstruction or pre-build meeting will be held at the customer's facility or via video conference with vendor including the cost for involving at least one manufacturer's representative. The proposal shall also include the cost of transportation, lodging, and meals for two (2) customer employees to attend a factory pre-delivery inspection meeting at approximately 85% to 95% completion stage.
- 24.0 **Technical support:** The proposal shall include all costs for the services of a factory technician to provide up to three (3) consecutive days of training to instruct customer personnel in the operation and maintenance of the unit. After the completed truck has been received and accepted by the customer, the training will be scheduled. The customer is responsible for providing the paint and glass beads to be used during the training. Two (2) sets of

Operation/Maintenance manuals shall be provided for the paint striping body on flash drives. Chassis manuals to be purchased by customer from their chassis vendor.

- 25.0 **Chassis:** Cab and chassis are not included. Specifications for the customer supplied cab and chassis must be approved by EZ-Liner Engineering prior to purchase to ensure modification costs will not be incurred.
- 26.0 **Delivery:** The estimated delivery time is 120 days ARC (after receipt of chassis). The completed truck may be driven out for delivery or delivered via lowboy trailer. The production schedule along with the time frame for the factory pre-delivery inspection meeting will be discussed and confirmed at the preconstruction meeting.
- 27.0 **Warranty:** EZ Liner warrants all equipment manufactured by it and bearing its brand names to be free from defects in material and workmanship at the time of sale by EZ Liner or an authorized distributor. EZ Liner will for a period of twelve months from the date of sale, repair or replace any part of the equipment proven defective. Due to specialty equipment conditions and a limited service and repair network, EZ Liner will reimburse customer at current EZ Liner's shop rate for any labor that can be done by the customer.

EZ-LINER MODEL TS-AL220, Product Code #18B**PAINT STRIPING BODY ONLY**

Item	Description	List Price
18B	TS-AL220 Base Unit	\$ 224,650.00
18B-01-01	Cummins QSF3.8-85 Tier 4 ILO Base	\$ 19,460.00
18B-01-02	Boss Ind. 80201-AHBI 125 cfm ILO Base	\$ 3,320.00
18B-01-03	Boss Ind. FT4-210-DUS Tier 4 Engine ILO Base	\$ 7,190.00
18B-01-05	Air Jets, Each	\$ 720.00
18B-01-07	Air Hose Reel w/ 25' Hose	\$ 1,310.00
18B-03-01	EZ-Carriage Control® System ILO Base	\$ 17,400.00
18B-03-02	Electric over hyd control ILO Base, each	\$ 1,770.00
18B-04-01	Add'l paint & bead line with Graco guns, each	\$ 3,580.00
18B-04-02	Flex gun w/hose reel & 25' HP Hose	\$ 1,970.00
18B-04-03	220 gallon SS tank w/agitators ILO Base	\$ 6,210.00
18B-04-04	1" LP Paint Re-circulation, Per Color	\$ 1,430.00
18B-04-05	Add'l 445-345 HP Pump, Each	\$ 11,630.00
18B-04-07	Add'l 666151-244-C 1-1/2" LP Pump, Each	\$ 5,460.00
18B-04-08	Graco Paint Gun only w/Gun Raiser, Each	\$ 2,510.00
18B-04-09	PD20A-FSP-STT 2" Pump ILO Base, Each	\$ 10,060.00
18B-05-01	Two Color Scavenger Heat System	\$ 20,340.00
18B-06-01	25 gallon poly flush tank	\$ 1,380.00
18B-06-02	Solvent Hose Reel w/25' Hose	\$ 1,310.00
18B-07-01	Skip-Line Inc. digital speedometer	\$ 1,320.00
18B-07-02	Gallon counts, per color	\$ 530.00
18B-07-03	Eight light LED Work Light system	\$ 2,360.00
18B-07-04	1030F-4 Message Board ILO base	\$ 15,420.00
18B-07-05	Camera guidance system	\$ 10,080.00
18B-07-06	Laser guidance system	\$ 8,050.00
18B-07-07	Skip-Line Inc. DL-18 monitor system	\$ 16,570.00
18B-07-08	Printer for Skip-Line, Inc. Monitor System	\$ 1,470.00
18B-07-09	Camera Guidance System w/HDVO-318 Video	\$ 12,310.00
18B-07-10	Skip-Line, Inc. Remote Trigger for SC-12, Each	\$ 890.00
18B-07-11	Deduct for 3'x6' Arrowboard	\$ (4,240.00)
18B-07-12	Whelen F4X2AAAA 55" Light Bar	\$ 3,020.00
18B-07-13	Weldex Rearview/Backup Camera System	\$ 1,730.00
18B-07-14	Gun Raiser for Bead Gun, Each	\$ 770.00
18B-07-15	GL3000-PM Carriage Laser, Each	\$ 3,650.00
18B-07-16	1020F-4 Message Board ILO base	\$ 13,170.00
18B-07-17	David Clark 3-Headset Wireless Intercom System ILO Base	\$ 6,080.00
18B-08-01	Operator Cab, Aluminum Square Cornered	\$ 21,340.00
18B-08-02	Operator Cab, Aluminum HI-VIS	\$ 20,720.00
18B-08-03	Dual split std style gun carriage ILO Base, per carriage	\$ 2,220.00
18B-08-04	Outside tire adjust on dual split carriage, per carriage	\$ 2,540.00
18B-08-05	Deduct for Medium Duty Carriage & Single Tube	\$ (1,180.00)
18B-08-06	Deduct for Mechanical Line Guide	\$ (3,350.00)
18B-08-07	Aluminum toolbox, each	\$ 780.00
18B-10-05	TS-AL220 Base Unit Recommended Spare Parts Kit	\$ 6,760.00

F.O.B. FACTORY. TRAINING INCLUDED. DELIVERY PRICED SEPARATELY.