



# Bid Specifications for

## Thermo-Lay model UD 425-120



4 1/4 yard truck mounted machine with hydraulic bins & roller

### DIMENSIONS:

Body:

108" long, 78" wide, 43" high

Total Height above ground:

98"

Cab to axle required:

120"

Wheel base required:

186" on Freightliner M2

Turning radius:

50' curb to curb on Freightliner M2

### WEIGHT:

Body weight empty:

6,420 lbs

Empty front axle weight:

6,965 lbs.

Loaded front axle weight:

7,940 lbs

Empty rear axle weight:

8,778 lbs.

Loaded rear axle weight:

19,875 lbs.

Meets Federal D.O.T. single axle weight limits:

Yes 19,875 lbs.

### MAIN BODY:

Hopper capacity:

4 1/4 cu. yds.

Insulation thickness:

2"

Insulation type:

High temp solid polystyrene

Exterior insulation skin type:

Bolted, 16 ga. steel

Body construction:

3/16 H.R. Plate

Hopper slope:

45 degrees

Tool box location:

Built into left side

Tool box size:

78" long, 22" deep, 8" high

### DIMENSIONS:

Body:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

### WEIGHT:

Body weight empty:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

### MAIN BODY:

Hopper capacity:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**LIGHTING SYSTEM:**

System type:

Sealed

Light type (indandescent or LED):

LED

Number of lights:

13 total

Number of large stop, turn, tail:

4

Number of red clearance lights:

5

Number of amber clearance lights:

4

Includes common junction box:

Yes

Replaceable LEDs for ALL lights:

Yes

Number of splices and tees:

NONE

Uses existing rear truck lights:

Yes

**DISPENSING SYSTEM:**

Dispensing system type:

Auger - screw conveyor

Auger pipe size and thickness:

2" sch 80

Conveyor size:

6" diameter -- 4" spaced flights

Conveyor hard surfaced:

Yes

Conveyor bearings:

Yes

Number of conveyor bearings:

2

Conveyor drive mechanism:

Hydraulic motor

Delivery chute pivots:

Yes

Delivery chute degree of pivot:

180 degrees

**LIGHTING SYSTEM:**

System type:

\_\_\_\_\_

Light type (indandescent or LED):

\_\_\_\_\_

Number of lights:

\_\_\_\_\_

Number of large stop, turn, tail:

\_\_\_\_\_

Number of red clearance lights:

\_\_\_\_\_

Number of amber clearance lights:

\_\_\_\_\_

Includes common junction box:

\_\_\_\_\_

Replaceable LEDs for ALL lights:

\_\_\_\_\_

Number of splices and tees:

\_\_\_\_\_

Uses existing rear truck lights:

**DISPENSING SYSTEM:**

Dispensing system type:

\_\_\_\_\_

Auger pipe size and thickness:

\_\_\_\_\_

Conveyor size:

\_\_\_\_\_

Conveyor hard surfaced:

\_\_\_\_\_

Conveyor bearings:

\_\_\_\_\_

Number of conveyor bearings:

\_\_\_\_\_

Conveyor drive mechanism:

\_\_\_\_\_

Delivery chute pivots:

\_\_\_\_\_

Delivery chute degree of pivot:

**CONVEYOR DRIVE MOTOR:**

Conveyor drive motor single or 2 speed:  
2 speed  
Conveyor drive motor automatic or manual shift:  
Automatic  
Conveyor drive reversible:  
Yes  
Conveyor drive motor displacement size:  
Automatic dual displacement 24 & 12 cu. in.  
Automatic shift for dual displacement:  
Yes  
Speeds & torque for conveyor drive motor:  
7800 in/lb & 120 RPM to 3700 in/lb & 240 RPM

**HEATING SYSTEM:**

Main body heat system type:  
Radiant heat transfer oil  
Heat transfer oil capacity:  
120 gallons  
Total weight of heat transfer oil:  
960 lbs.  
Operating hours heat source:  
Propane burner  
Non-operating hours heat source:  
9 KW electric heater  
Number of thermostats used to control heat:  
2  
Radiant oil temperature thermometer type:  
Digital 3/4" display

**PROPANE FUEL:**

Horizontal or vertical fuel container:  
Horizontal  
Fuel container location:  
Built into the main body, drivers side  
Fuel container capacity ( gallons)  
34  
Fuel container level indicator:  
Yes  
Fuel container indicator location:  
Exterior, drivers side  
Fuel container fill method:  
Standard quick fill  
Fuel container fill stop type:  
Automatic 80% stop

**CONVEYOR DRIVE MOTOR:**

Conveyor drive motor single or 2 speed:  
\_\_\_\_\_  
Conveyor drive motor automatic or manual shift:  
\_\_\_\_\_  
Conveyor drive reversible:  
\_\_\_\_\_  
Conveyor drive motor displacement size:  
\_\_\_\_\_  
Automatic shift for dual displacement:  
\_\_\_\_\_  
Speeds & torque for conveyor drive motor:  
\_\_\_\_\_

**HEATING SYSTEM:**

Main body heat system type:  
\_\_\_\_\_  
Heat transfer oil capacity:  
\_\_\_\_\_  
Total weight of heat transfer oil:  
\_\_\_\_\_  
Operating hours heat source:  
\_\_\_\_\_  
Non-operating hours heat source:  
\_\_\_\_\_  
Number of thermostats used to control heat:  
\_\_\_\_\_  
Radiant oil temperature thermometer type:  
\_\_\_\_\_

**PROPANE FUEL:**

Horizontal or vertical fuel container:  
\_\_\_\_\_  
Fuel container location:  
\_\_\_\_\_  
Fuel container capacity ( gallons)  
\_\_\_\_\_  
Fuel container level indicator:  
\_\_\_\_\_  
Fuel container indicator location:  
\_\_\_\_\_  
Fuel container fill method:  
\_\_\_\_\_  
Fuel container fill stop type:  
\_\_\_\_\_

**PROPANE BURNER:**

Number of propane burners:

1

Single or dual stage burner:

Dual

Dual stage pressures:

10 oz. &amp; 10 P.S.I.

Burner B.T.U. output:

350,000 @ 10 P.S.I.

Burner ignition type:

Automatic 12 VDC

Pilot or pilot-less ignition:

Pilot-less

Operator input necessary for re-ignition:

NO -- automatic

Temperature drop needed for automatic re-ignition

2 degrees

Burner stops when fluid is dispensed:

Yes

Burner operated by:

Same thermostat as the electric heater

Dial or digital display on thermostat:

Digital 3/4" LED display

Safety shut-offs:

High temperature, loss of flame, fluid dispensing

Method for wiring:

Conduit throughout

**ELECTRIC HEATER:**

Number of electric heaters:

1

Heater size (KW):

9 KW

Voltage required:

240 A.C.

Single or 3 phase required:

Single

Heating capability above ambient:

250 degrees

Heater operated by:

Same thermostat as propane burner

Temperature drop needed to start heater:

2 degrees

Dial or digital display on thermostat:

Digital 3/4" display

Current used during operation:

40 amps, 240 VAC single phase

Uses truck current to operate:

NO

Method for wiring enclosure:

Conduit throughout

**PROPANE BURNER:**

Number of propane burners:

Single or dual stage burner:

Dual stage pressures:

Burner B.T.U. output:

Burner ignition type:

Pilot or pilot-less ignition:

Operator input necessary for re-ignition:

Temperature drop needed for automatic re-ignition

Burner stops when fluid is dispensed:

Burner operated by:

Dial or digital display on thermostat:

Safety shut-offs:

Method for wiring:

**ELECTRIC HEATER:**

Number of electric heaters:

Heater size (KW):

Voltage required:

Single or 3 phase required:

Heating capability above ambient:

Heater operated by:

Temperature drop needed to start heater:

Dial or digital display on thermostat:

Current used during operation:

Uses truck current to operate:

Method for wiring enclosure:

**THERMOSTAT:**

Number of thermostats:

2

Dial or digital type display:

Digital 3/4" display

Thermostat operates:

Both propane burner and electric heater

Thermostat accuracy:

1% @ 500 degrees

Includes ability to show actual temperature:

Yes

Radiant oil temperature thermometer type:

Digital 3/4" display

Radiant oil thermometer location:

Rear mounted

**TEMPERATURE TIMED CONTROL:**

Time control type

Solid state

Time length duration

24 hour - 14 day

Number of set times per day

16

Control type

Independent

Controls Day Temperature Automatically

Yes

Controls Night Temperature Automatically

Yes

Individual Thermostats for Day and Night

Yes

**HAND TORCH:**

Heating capability (BTU):

200,000

Storage location:

Right rear

Hose size & length:

1/4" X 15' long

Number of on-off valves:

2

**THERMOSTAT:**

Number of thermostats:

\_\_\_\_\_

Thermostat operates:

\_\_\_\_\_

Includes ability to show actual temperature:

\_\_\_\_\_

\_\_\_\_\_

**TEMPERATURE TIMED CONTROL:**

Time control type

\_\_\_\_\_

Number of set times per day

\_\_\_\_\_

Controls Day Temperature Automatically

\_\_\_\_\_

Individual Thermostats for Day and Night

**HAND TORCH:**

Heating capability (BTU):

\_\_\_\_\_

Hose size & length:

\_\_\_\_\_

**ASPHALT TACK OIL TANK:**

**Capacity (gallons):**

120 gallons

**Type of tack oil that can be used:**

Emulsion

**Tank location:**

Built into main body

**Tank insulation thickness:**

1"

**Tank construction material:**

14 ga. steel

**Tank heat source (working hours):**

Main body heat transfer oil

**Tank heat source (non-working hours):**

Main body heat transfer oil

**Maximum tank temperature of heat source:**

Main body heat transfer oil temperature

**Pump type:**

Gear

**Pump location:**

In insulated compartment

**Pump relief type:**

External return to tank

**Pump drive method:**

Hydraulic motor

**Pump motor displacement:**

4.9 cu. in.

**Pump drive directional:**

Forward & reversing

**Cleaning system:**

Yes

**Cleaning method:**

Solvent spray

**Method to select from spray to clean:**

One valve

**Clean method location:**

Rear at ground level

**Fill size:**

3"

**Fill location:**

Passengers side

**Tank drain size:**

3"

**Pump reverse to load tank:**

Yes

**Spring loaded hose reel:**

Yes

**Hose reel location:**

Internal passengers rear

**Hose size and length:**

1/2" X 20'

**ASPHALT TACK OIL TANK:**

**Capacity (gallons):**

**Type of tack oil that can be used:**

**Tank location:**

**Tank insulation thickness:**

**Tank construction material:**

**Tank heat source (working hours):**

**Tank heat source (non-working hours):**

**Maximum tank temperature of heat source:**

**Pump type:**

**Pump location:**

**Pump relief type:**

**Pump drive method:**

**Pump motor displacement:**

**Pump drive directional:**

**Cleaning system:**

**Cleaning method:**

**Method to select from spray to clean:**

**Clean method location:**

**Fill size:**

**Fill location:**

**Tank drain size:**

**Pump reverse to load tank:**

**Spring loaded hose reel:**

**Hose reel location:**

**Hose size and length:**

**Spray wand length and size:**

5' X 3/8"

**Spray wand valve type:**

Deadman spring loaded return

**Thermometer to monitor tack oil temperature:**

Yes

**Thermometer type:**

Digital 3/4" display

**Thermometer location and visibility:**

Rear located -- rear visible

**Thermometer range:**

0-600 degrees

**Safety burner shut-off when pump is operating:**

Yes

**ASPHALT TACK OIL PUMP:**

**Pump type:**

Gear

**Pump port size:**

1 1/2" ports

**Pump discharge rate:**

20 GPM & 75 P.S.I.

**Pump mounting position:**

Inside insulated compartment

**Safety burner shut-off when pump is operating:**

Yes

**WASTE OIL TANK:**

**Tank size:**

10 gallon

**Tank construction:**

16 ga steel

**Tank location:**

Built into the passengers fender

**Spray wand drain:**

Built in to the top of the tank

**Tank drain size:**

1"

**Tank drain location:**

Bottom rear

**Spray wand length and size:**

\_\_\_\_\_

**Thermometer to monitor tack oil temperature:**

\_\_\_\_\_

**Thermometer location and visibility:**

\_\_\_\_\_

**Safety burner shut-off when pump is operating:**

**ASPHALT TACK OIL PUMP:**

**Pump type:**

\_\_\_\_\_

**Pump discharge rate:**

\_\_\_\_\_

**Safety burner shut-off when pump is operating:**

**WASTE OIL TANK:**

**Tank size:**

\_\_\_\_\_

**Tank location:**

\_\_\_\_\_

**Tank drain size:**

\_\_\_\_\_

**CLEANING FLUID SYSTEM:**

**Tank size:**

10 gallon

**Tank construction:**

16 ga steel

**Tank location:**

Drivers rear under tool box

**Tank fill size:**

2"

**Tank fill location:**

Inside tool box compartment

**Tank drain size:**

1/2"

**Pump type for cleaning tools/hopper**

12 VDC electric pump

**Pump location:**

Inside tool box compartment

**Cleaning system hose size and length:**

1/4" X 20'

**Cleaning system hose reel:**

Yes

**Cleaning system hose reel location:**

Internal -- inside tool box compartment

**Cleaning system spray wand type:**

Deadman spring return

**Cleaning system system cleans the tack oil system:**

Yes

**Tack oil pump cleaning method:**

One valve at ground level

**ANTI-BRIDGE BAR:**

**Anti-bridge bar location:**

Above the auger screw conveyor

**Anti-bridge bar construction:**

2" sch 40 pipe

**Number of anti-bridge bar bearings:**

3 bearings total

**End bearings type:**

High temperature flange bearing

**Center bearing type:**

High temperature pillow block type

**Anti-bridge bar drive type:**

Hydraulic motor

**Hydraulic motor displacement:**

12 cu. in.

**CLEANING FLUID SYSTEM:**

**Tank size:**

**Tank construction:**

**Tank location:**

**Tank fill size:**

**Tank fill location:**

**Tank drain size:**

**Pump type for cleaning tools/hopper**

**Pump location:**

**Cleaning system hose size and length:**

**Cleaning system hose reel:**

**Cleaning system hose reel location:**

**Cleaning system spray wand type:**

**Cleaning system cleans the tack oil system:**

**Tack oil pump cleaning method:**

**ANTI-BRIDGE BAR:**

**Anti-bridge bar location:**

**Anti-bridge bar construction:**

**Number of anti-bridge bar bearings:**

**End bearings type:**

**Center bearing type:**

**Anti-bridge bar drive type:**

**Hydraulic motor displacement:**

**HYDRAULIC SYSTEM:**

Hydraulic system type:

Closed center

Hydraulic pump type:

Piston

Hydraulic pump location:

On P.T.O. of transmission

Direct mount or remote drive shaft:

Direct mount

Pump rating:

18 GPM & 2,400 PSI @ 800 RPM

Hydraulic tank size:

30 gallon

Hydraulic tank construction:

16 ga steel

Hydraulic tank location:

Drivers side under tool box

Hydraulic discharge filter in system:

Yes, 100 micron

Hydraulic suction strainer in system:

Yes, 10 micron

Suction shut-off valve at tank:

Yes

Separate electric external cooler required:

No

Sight gauge in tank:

Yes

Thermometer in tank:

Yes

Fill cap vented:

Yes

Fill cap spill proof:

Yes

Number of control valve banks on machine:

1

Hydraulic control valve bank (manual or electric):

Electric

Solenoid type (sealed or unsealed):

Sealed

Number of section in control valve bank:

10

Manual overrides:

Yes

Control valve has pressure gauge:

Yes

Hydraulic system includes a flow meter:

Yes

Flow meter location:

Rear

Crimp fittings or reusable fittings in system:

Crimped fittings

**HYDRAULIC SYSTEM:**

Hydraulic system type:

\_\_\_\_\_

Hydraulic pump type:

\_\_\_\_\_

Hydraulic pump location:

\_\_\_\_\_

Direct mount or remote drive shaft:

\_\_\_\_\_

Pump rating:

\_\_\_\_\_

Hydraulic tank size:

\_\_\_\_\_

Hydraulic tank construction:

\_\_\_\_\_

Hydraulic tank location:

\_\_\_\_\_

Hydraulic discharge filter in system:

\_\_\_\_\_

Hydraulic suction strainer in system:

\_\_\_\_\_

Suction shut-off valve at tank:

\_\_\_\_\_

Separate electric external cooler required:

\_\_\_\_\_

Sight gauge in tank:

\_\_\_\_\_

**HYDRAULIC BREAKER:**

**Weight class of breaker:**

72# class

**Vibration resistant equipment:**

Handles and tool foot

**Hex size:**

1 1/8"

**Tools supplied:**

Asphalt spade and tamping shoe

**Asphalt spade size:**

5"

**Tamping shoe size:**

6"

**Detachable shank on tamping shoe:**

Yes

**Breaker hydraulic fluid supply hose size:**

3/4" & 1/2"

**Hose length:**

25'

**Hose on a hose reel:**

Yes

**Hose reel location:**

Internal passengers side

**Breaker storage location:**

Passengers rear

**HYDRAULIC LIFT FOR ROLLER:**

**Designed to accommodate vibratory roller compactor:**

Yes

**Vibratory roller type:**

Bomag BW 55E

**Method for securing roller to lift:**

Automatic self locking

**Roller width:**

22"

**Designed to interchange with a plate compactor:**

No

**Lift location:**

Drivers side between cab and body

**Lift type:**

Hydraulic

**Lift stroke:**

10"

**Positive lock in the "UP" position:**

Yes

**Manual "Down" and "UP" :**

Yes

**HYDRAULIC BREAKER:**

**Weight class of breaker:**

\_\_\_\_\_

**Vibration resistant equipment:**

\_\_\_\_\_

**Hex size:**

\_\_\_\_\_

**Tools supplied:**

\_\_\_\_\_

**Asphalt spade size:**

\_\_\_\_\_

**Tamping shoe size:**

\_\_\_\_\_

**Detachable shank on tamping shoe:**

\_\_\_\_\_

**Breaker hydraulic fluid supply hose size:**

\_\_\_\_\_

**Hose length:**

\_\_\_\_\_

**Hose on a hose reel:**

\_\_\_\_\_

**Hose reel location:**

\_\_\_\_\_

**Breaker storage location:**

\_\_\_\_\_

**HYDRAULIC LIFT FOR ROLLER:**

**Designed to accommodate vibratory roller compactor:**

\_\_\_\_\_

**Vibratory roller type:**

\_\_\_\_\_

**Method for securing roller to lift:**

\_\_\_\_\_

**Roller width:**

\_\_\_\_\_

**Designed to interchange with a plate compactor:**

\_\_\_\_\_

**Lift location:**

\_\_\_\_\_

**Lift type:**

\_\_\_\_\_

**Lift stroke:**

\_\_\_\_\_

**Positive lock in the "UP" position:**

\_\_\_\_\_

**Manual "Down and "UP" :**

\_\_\_\_\_

**VIBRATORY ROLLER COMPACTOR:**

**Vibratory roller compactor brand:**

**Bomag**

**Roller compactor model:**

**BW 55E**

**Plate compactor engine brand:**

**Honda**

**Plate compactor engine H.P.:**

**4 H.P.**

**Electric start or manual start:**

**Manual**

**Compactor engine has loss of oil shut-down:**

**Yes**

**Roller size:**

**22" diameter**

**Roller compactor operating weight:**

**355 lbs.**

**HYDRAULIC INSULATED DOORS:**

**Door type -- single, dual, or quad:**

**Quad**

**Door hinge style -- single or bi-fold:**

**Bi-fold**

**Door width per section:**

**18"**

**Full open door height above main body:**

**22"**

**Door thickness:**

**1"**

**Door insulation type:**

**High temperature solid polystyrene**

**Door opening size:**

**52" X 105" v-shaped**

**Door hinge type:**

**Continuous piano stainless**

**Door hinge bolted or welded:**

**Welded**

**Door hinge protection method:**

**Reinforced buna-n material**

**Door pivot hinge type:**

**Sealed roller bearing hinge:**

**Number of door pivot hinges:**

**6 -- 3 on each side of machine**

**Door runs in guide track:**

**Yes**

**Guide track roller type:**

**Sealed roller bearings**

**Self cleaning wiper between door and frame:**

**Yes**

**Seal type were doors meet in center:**

**Reinforced buna-n material**

**VIBRATORY ROLLER COMPACTOR:**

**Vibratory plate roller compactor brand:**

\_\_\_\_\_

**Roller compactor model:**

\_\_\_\_\_

**Plate compactor engine brand:**

\_\_\_\_\_

**Plate compactor engine H.P.:**

\_\_\_\_\_

**Electric start or manual start:**

\_\_\_\_\_

**Compactor engine has loss of oil shut-down:**

\_\_\_\_\_

**Roller size:**

\_\_\_\_\_

**Roller compactor operating weight:**

\_\_\_\_\_

**HYDRAULIC INSULATED DOORS:**

**Door type -- single, dual, or quad:**

\_\_\_\_\_

**Door hinge style -- single or bi-fold:**

\_\_\_\_\_

**Door width per section:**

\_\_\_\_\_

**Full open door height above main body:**

\_\_\_\_\_

**Door thickness:**

\_\_\_\_\_

**Door insulation type:**

\_\_\_\_\_

**Door opening size:**

\_\_\_\_\_

**Door hinge type:**

\_\_\_\_\_

**Door hinge bolted or welded:**

\_\_\_\_\_

**Door hinge protection method:**

\_\_\_\_\_

**Door pivot hinge type:**

\_\_\_\_\_

**Number of door pivot hinges:**

\_\_\_\_\_

**Door runs in guide track:**

\_\_\_\_\_

**Guide track roller type:**

\_\_\_\_\_

**Self cleaning wiper between door and frame:**

\_\_\_\_\_

**Seal type were doors meet in center:**

\_\_\_\_\_

Number of door cylinders:  
2  
Position of cylinders -- center or end:  
Center  
Cylinders interior or exterior:  
Interior  
Cylinders exposed or enclosed:  
Enclosed:  
Cylinder size:  
2" X 8" x 1 3/8" rod  
Cylinder hose type:  
High temperature teflon shielded  
Pressure relief for both doors:  
Yes  
Pressure relief pressure:  
750 P.S.I.  
Door frame includes clearance lights:  
Yes  
Number of door frame clearance lights:  
3

**DIRECTIONAL ARROW BOARD/STROBE:**

Arrow board type -- arrow or rectangular:  
Arrow  
Arrow board dimensions:  
20" X 96"  
Visible from front, rear, or both:  
Both  
Number of amber lights:  
20 total -- 10 front, 10 rear  
Amber light brightness:  
1500 candle power  
Controls in-cab:  
Yes  
Independent Front and Rear Control  
Yes  
Bright and dim control:  
Yes  
Arrow patterns:  
left, right, both  
Bar patterns:  
left, right, both  
Amber strobe included:  
Yes  
Strobe light location:  
On arrow board between arrows  
Strobe light brightness:  
650,000 candle power  
Strobe flash rate:  
80 flash per minute

Number of door cylinders:  
\_\_\_\_\_  
Position of cylinders -- center or end:  
\_\_\_\_\_  
Cylinders interior or exterior:  
\_\_\_\_\_  
Cylinders exposed or enclosed:  
\_\_\_\_\_  
Cylinder size:  
\_\_\_\_\_  
Cylinder hose type:  
\_\_\_\_\_  
Pressure relief for both doors:  
\_\_\_\_\_  
Pressure relief pressure:  
\_\_\_\_\_  
Door frame includes clearance lights:  
\_\_\_\_\_  
Number of door frame clearance lights:  
\_\_\_\_\_

**DIRECTIONAL ARROW BOARD/STROBE:**

Arrow board type -- arrow or rectangular:  
\_\_\_\_\_  
Arrow board dimensions:  
\_\_\_\_\_  
Visible from front, rear, or both:  
\_\_\_\_\_  
Number of amber lights:  
\_\_\_\_\_  
Amber light brightness:  
\_\_\_\_\_  
Controls in-cab:  
\_\_\_\_\_  
Independent Front and Rear Control  
\_\_\_\_\_  
Bright and dim control:  
\_\_\_\_\_  
Arrow patterns:  
\_\_\_\_\_  
Bar patterns:  
\_\_\_\_\_  
Amber strobe included:  
\_\_\_\_\_  
Strobe light location:  
\_\_\_\_\_  
Strobe light brightness:  
\_\_\_\_\_  
Strobe flash rate:  
\_\_\_\_\_

**Strobe activation switch location:**

In-cab in arrow board control panel

**Arrow board hydraulically raised and lowered:**

Yes

**Arrow board raise height:**

36"

**Arrow board height above ground when "DOWN":**

98" -- even with top of truck cab

**Arrow board cylinder size:**

2 1/2" X 36"

**Arrow board location on truck:**

In front of the main body -- behind cab

**Arrow board distance from front of main body:**

24"

**Arrow board distance from back of truck cab:**

36"

**SPOILS BINS:**

**Total bins capacity:**

2 cu. yd.

**Bins construction:**

10 GA HR plate

**Number of Bins:**

2

**Bins location:**

Behind cab -- outside of truck frame

**Bin dumping method:**

Hydraulic

**Independent dumping:**

Yes

**Bin pivot type:**

Sealed roller bearing

**Loading height above ground:**

40" - truck frame height

**TOOL STORAGE RACK:**

**Tool Capacity:**

4 tools - shovels, rakes or brooms

**Mounting location:**

Mounted on drivers side rear

**Mounting type:**

Solid, bolted

**Strobe activation switch location:**

\_\_\_\_\_

**Arrow board hydraulically raised and lowered:**

\_\_\_\_\_

**Arrow board raise height:**

\_\_\_\_\_

**Arrow board height above ground when "DOWN":**

\_\_\_\_\_

**Arrow board cylinder size:**

\_\_\_\_\_

**Arrow board location on truck:**

\_\_\_\_\_

**Arrow board distance from front of main body:**

\_\_\_\_\_

**Arrow board distance from back of truck cab:**

\_\_\_\_\_

**SPOILS BINS:**

**Total bins capacity:**

\_\_\_\_\_

**Bins construction:**

\_\_\_\_\_

**Number of Bins:**

\_\_\_\_\_

**Bins location:**

\_\_\_\_\_

**Bins dump method:**

\_\_\_\_\_

**Independent dumping:**

\_\_\_\_\_

**Bin pivot type:**

\_\_\_\_\_

**Loading height above ground:**

\_\_\_\_\_

**TOOL STORAGE RACK:**

**Tool Capacity:**

\_\_\_\_\_

**Mounting location:**

\_\_\_\_\_

**Mounting type:**

\_\_\_\_\_

**AUTOMATIC HOPPER CLEAN SYSTEM:**

Automatic spray type  
Timed Contolled  
Sprays entire surface  
Front, Rear, Both Sides  
Controlled from ground level  
Yes  
Stops propane burner while cleaning  
Yes  
Uses existing cleaning system tank  
Yes  
Uses indepenent pump  
Yes  
Removable spray nozzles  
Yes  
Can be damaged during loading of asphalt  
No

**SAFETY FEATURES:**

Easy operator access to hopper:  
NO - extrenal access equipment required  
Combustion fluids spray while burner is operating:  
NO - burner stops on ANY fluid spray  
Lift movement warning:  
YES - visual and audible warning ANY movement  
Visual lift down warning:  
YES - Amber strobe  
Auger - Anti-Bridge operator access protection:  
YES - auger and anti-bridge stop if doors open

**ACCESSORIES and DATA:**

Service manual:  
Yes  
Parts manual:  
Yes  
Trouble shooting manual:  
Yes  
Is this a proto-type machine:  
No  
Years manufacturing this type of machine:  
Since 1978  
Years manufacturing this model:  
Since 1986

**AUTOMATIC HOPPER CLEAN SYSTEM:**

Automatic spray type  
\_\_\_\_\_  
Sprays entire surface  
\_\_\_\_\_  
Controlled from ground level  
\_\_\_\_\_  
Stops propane burner while cleaning  
\_\_\_\_\_  
Uses existing cleaning system tank  
\_\_\_\_\_  
Uses indepenent pump  
\_\_\_\_\_  
Removable spray nozzles  
\_\_\_\_\_  
Can be damaged during loading of asphalt  
\_\_\_\_\_

**SAFETY FEATURES:**

Easy operator access to hopper:  
\_\_\_\_\_  
Combustion fluids spray while burner is operating:  
\_\_\_\_\_  
Lift movement warning:  
\_\_\_\_\_  
Visual lift down warning:  
\_\_\_\_\_  
Auger - Anti-Bridge operator access protection:  
\_\_\_\_\_

**ACCESSORIES and DATA:**

Service manual:  
\_\_\_\_\_  
Parts manual:  
\_\_\_\_\_  
Trouble shooting manual:  
\_\_\_\_\_  
Is this a proto-type machine:  
\_\_\_\_\_  
Years manufacturing this type of machine:  
\_\_\_\_\_  
Years manufacturing this model:  
\_\_\_\_\_

**TRUCK CHASSIS SPECIFICATIONS:**

**Axle type:**  
Single

**Front axle size:**  
12,000 lb.

**Front suspension size:**  
12,000 lb.

**Rear axle size:**  
21,000 lb.

**Rear axle suspension size:**  
21,000 lb. with Air Suspension

**Engine type diesel, gasoline, LPG, or CNG:**  
Diesel

**Engine size -- H.P.:**  
250 H.P.

**Transmission type automatic or manual:**  
Automatic

**Transmission brand:**  
Allison

**Transmission speeds:**  
6 speed

**Transmission P.T.O. type:**  
Live -- both sides

**Transmission shift console location:**  
Dash mounted -- right of steering wheel

**P.T.O. type -- cable or hot shift:**  
Hot shift

**P.T.O. brand:**  
Chelsea

**Air brakes:**  
Yes

**Front brake size:**  
15" x 4"

**Rear brake size:**  
16.5" X 7"

**Air brake compressor size:**  
12 CFM

**Power steering:**  
Yes

**Front shock absorbers:**  
Yes

**Spring type parking brake:**  
Yes

**Automatic slack adjusters:**  
Yes

**Dual air horns:**  
Yes

**Dual west coast mirrors:**  
Yes

**2 speed windshield wiper:**  
Yes

**TRUCK CHASSIS SPECIFICATIONS:**

**Axle type:**  
\_\_\_\_\_

**Front axle size:**  
\_\_\_\_\_

**Front suspension size:**  
\_\_\_\_\_

**Rear axle size:**  
\_\_\_\_\_

**Rear axle suspension size:**  
\_\_\_\_\_

**Engine type diesel, gasoline, LPG, or CNG:**  
\_\_\_\_\_

**Engine size -- H.P.:**  
\_\_\_\_\_

**Transmission type automatic or manual:**  
\_\_\_\_\_

**Transmission brand:**  
\_\_\_\_\_

**Transmission speeds:**  
\_\_\_\_\_

**Transmission P.T.O. type:**  
\_\_\_\_\_

**Transmission shift console location:**  
\_\_\_\_\_

**P.T.O. type -- cable or hot shift:**  
\_\_\_\_\_

**P.T.O. brand:**  
\_\_\_\_\_

**Air brakes:**  
\_\_\_\_\_

**Front brake size:**  
\_\_\_\_\_

**Rear brake size:**  
\_\_\_\_\_

**Air brake compressor size:**  
\_\_\_\_\_

**Power steering:**  
\_\_\_\_\_

**Front shock absorbers:**  
\_\_\_\_\_

**Spring type parking brake:**  
\_\_\_\_\_

**Automatic slack adjusters:**  
\_\_\_\_\_

**Dual air horns:**  
\_\_\_\_\_

**Dual west coast mirrors:**  
\_\_\_\_\_

**2 speed windshield wiper:**  
\_\_\_\_\_

**Tilt hood:**  
Yes  
**Tinted glass:**  
Yes  
**Dual sun visors:**  
Yes  
**Integral air conditioning with heater:**  
Yes  
**AM/FM stereo radio**  
Yes  
**Seat type:**  
Dual independent air ride  
**Lap and shoulder belts**  
Yes  
**Full instrumentation**  
Yes  
**Alternator size:**  
90 AMP  
**Battery number and size:**  
2-625 CCA  
**Exhaust type:**  
Vertical  
**Oil cooler:**  
Yes  
**In-cab locking throttle:**  
Yes  
**Number of fuel tanks and size:**  
2 -- 45 gallon  
**Tire size front:**  
275/80R 22.5  
**Tire size rear:**  
275/80R 22.5  
**Rim construction:**  
Steel -- 1 piece  
**Bumper type:**  
Painted  
**Tow hooks supplied:**  
Yes

**Tilt hood:**  
\_\_\_\_\_  
**Tinted glass:**  
\_\_\_\_\_  
**Dual sun visors:**  
\_\_\_\_\_  
**Integral air conditioning with heater:**  
\_\_\_\_\_  
**AM/FM stereo radio**  
\_\_\_\_\_  
**Seat type:**  
\_\_\_\_\_  
**Lap and shoulder belts**  
\_\_\_\_\_  
**Full instrumentation**  
\_\_\_\_\_  
**Alternator size:**  
\_\_\_\_\_  
**Battery number and size:**  
\_\_\_\_\_  
**Exhaust type:**  
\_\_\_\_\_  
**Oil cooler:**  
\_\_\_\_\_  
**In-cab locking throttle:**  
\_\_\_\_\_  
**Number of fuel tanks and size:**  
\_\_\_\_\_  
**Tire size front:**  
\_\_\_\_\_  
**Tire size rear:**  
\_\_\_\_\_  
**Rim construction:**  
\_\_\_\_\_  
**Bumper type:**  
\_\_\_\_\_  
**Tow hooks supplied:**  
\_\_\_\_\_