

BID SUBMITTAL FORM
Alabama County Joint Bidding Program
BID ITEM – ASPHALT DISTRIBUTOR WITH CHASSIS

Company Name: Cowin Equipment Company Inc.
Address: 4325 Northern Blvd
Montgomery Al 36110
Bid Submitted by: John Edwards
(Name of company representative)
Title: Governmental Sales Manager E-mail address: jedwards@cowin.com
Phone: o-334-262-6642 C-850-685-7055 Fax: 334-834-2272

By submitting this bid, we agree:

Initials

The equipment model number identified below meets the bid specs for this bid item.

JE

That the bid price will be honored for all counties for the period from Jan. 1, 2021 to Dec. 31, 2021.

JE

The equipment will be delivered at the bid price to all counties participating in the joint bid program.

JE

The company representative listed above will be the contact person for purchasing this bid item under the joint bid program.

JE

The bid is accompanied by a current catalog or model specification document for the model number identified below.

JE

The bid is accompanied by a copy of the manufacturer's standard warranty as required in the bid specifications.

JE

The bid includes the e-verify documentation required by Alabama law.

JE

If awarded the bid, a performance bond will be provided upon request.

JE

The bid documents include the **Manufacturer's Suggested Retail Price Sheet (MSRP) for the Standard Machine.**

JE

ASPHALT DISTRIBUTOR WITH CHASSIS

Total Bid Price for Standard Machine: \$ \$197,996.00
(Total Bid Price for Standard Machine Includes Freight Preparation, Delivery and Standard Warranty Costs)*

Freight Preparation and Delivery: \$ \$4,500.00
(Included in Standard Machine Bid Price)

Manufacturer's Suggested Retail Price for Standard Machine: \$ \$204,016.00

Equipment Model #: Etnyre Centennial Distributor

Description: 2000 gallon Asphalt Distributor

Signature of company representative submitting bid: 

Title: Governmental Sales Manager

* **NOTE:** Award will be made based on the total cost of the **Standard Machine**. The total cost of the standard machine is to include the freight preparation, delivery and standard warranty cost. Freight preparation, delivery will be excluded from the total bid price of the standard machine in determining the percentage discount for any available options.

BID SUBMITTAL FORM: OPTION COST SHEET ASPHALT DISTRIBUTOR WITH CHASSIS

By submitting this bid, we agree:

To offer any available options at the percent difference between the Manufacturer's Suggested Retail Price Sheet and the actual bid price on the Standard Machine*

8%

The bid documents include the Manufacturer's Suggested Retail Price Sheet (MSRP) with **any available Options** for the Standard Machine

8%

Equipment Model #: Etnyre Centennial Distributor

Description: 2000 gallon Asphalt Distributor

Signature of company representative submitting bid: John Edwards

Title: Governmental Sales Manager

***Note:** The percent difference between the **Manufacturer's Suggested Retail Price Sheet (MSRP)** for the standard machine as specified by these **Bid Specifications** and the actual price bid by the vendor will be calculated to determine the percentage discount to be applied to any available options. The bid price of the freight preparation, delivery cost shall be excluded in determining the percentage discount to be applied to available options. Any individual county may choose to add any available option to the standard machine at the percentage discount at the time of purchase.

INVITATION TO BID

HEAVY EQUIPMENT

NOTICE OF BID OPENING

NOTICE IS HEREBY GIVEN that the Association of County Commissions of Alabama, which administers the Alabama County Joint Bid Program on behalf of Alabama's county governing bodies, shall receive and open bids for the purchase of zero (0) or more items of heavy road equipment at its office located at 2 North Jackson Street, Montgomery, Alabama, at 10:00 a.m. on Friday, September 4, 2020. Bid specifications are available at <http://www.alabamacounties.org/heavy-equipment/> for each of the following items:

Light Duty Backhoe
Medium Duty Backhoe
Heavy Duty Backhoe Option A
Heavy Duty Backhoe Option C
85 PTO Tractor Option A
85 PTO Tractor Option B
95 PTO Tractor Option A
95 PTO Tractor Option B
Track Mount Excavator Option A-1
Track Mount Excavator Option A-2
Track Mount Excavator Option A-3
Track Mount Excavator Option B-1
Track Mount Excavator Option B-2
Track Mount Excavator Option B-3
Track Mount Excavator Option C-1
Track Mount Excavator Option C-2
19 Ton Wheeled Excavator
21 Ton Wheeled Excavator
Compact Track Mount Excavator Option D-1
Compact Track Mount Excavator Option D-2
Light Duty Motorgrader – Option A
Light Duty Motorgrader – Option B
Heavy Duty Motorgrader – Option A
Heavy Duty Motorgrader – Option B
Medium Duty Motorgrader – Option A
Medium Duty Motorgrader – Option B
Medium Duty Motorgrader – AWD
Light Duty Motorgrader – Option B

100 HP Heavy Duty Hydrostatic Bulldozer –Option B
100 HP Heavy Duty Hydrostatic Bulldozer – Option C
100 HP Heavy Duty Hydrostatic Bulldozer – Option D
125 HP Heavy Duty Hydrostatic Bulldozer – Option A
125 HP Heavy Duty Hydrostatic Bulldozer – Option B
Mulching Dozer
3 CY Wheel Loader Option A
3 CY Wheel Loader Option B
3 CY Wheel Loader Option C
3.65 CY Wheel Loader Option A
3.65 CY Wheel Loader Option B
Heavy Duty Dump Chassis – Option B
Heavy Duty Dump Chassis – Option C
Heavy Duty Dump Chassis – Option E
Lowboy Tractor Option – B
Lowboy Tractor Option – C
Lowboy Tractor Option – D
Skid Steer Attachments
Ride-on Industrial Boom Mower
Telescopic Boom Cutter 75 FT. Reach
Telescopic Boom Cutter 55 FT. Reach
Asphalt Distributor Truck
Chip Spreader
Rubber Tire Roller
One-man Pothole Patcher Option A
2WD Highway Speed Truck Excavator
4WD Highway Speed Truck Excavator

Time is of the essence in submitting bids and only bids received in the Association office by 10:00 a.m. Central Time on Friday, September 4, 2020 will be opened and considered. Bidders and any other interested individuals are invited to attend the bid opening.

THE INVITATION PACKAGE

The invitation package for each item to be bid includes: this invitation to bid, the written bid specifications for the particular item of heavy road equipment, and a Bid Submittal Form to be used in submitting a bid for that particular item. Bidders should verify that they have received all pages of the invitation package. If there are any omissions, the bidder should contact Kenya Howard in the Association office by mail, fax, or e-mail (jointbid@alabamacounties.org) to request missing pages. It is the responsibility of the bidder to make this request in sufficient time to prepare and submit the bid in time for the bid opening. Bidders should carefully read and comply with all parts of the invitation package, including all attachments and/or any addendum.

PREPARING AND SUBMITTING BIDS

All bids must be typed or hand written in ink on the attached Bid Submittal Form. **The completed Bid Submittal Form shall be placed in front of and separated from all other documents included in the bid packet, such that it will be the first document viewed upon opening the bid packet.**

Bids submitted in pencil and bids not submitted on the Bid Submittal Form will **not** be considered. All bids shall include a current catalog or model specification document for the equipment model number being offered for consideration. Bids submitted without such documentation will **not** be considered. Only information contained on the attached Bid Submittal Form and in the model specification document will be considered in evaluating bids.

Each separate requirement in the bid specification includes a block for indicating whether or not the item bid meets the specification. The bidder shall indicate compliance with each requirement by checking "Yes" or "No" in the block to the right of each bid specification. In addition, the bidder shall indicate the page number in the supplied manufacturer's equipment literature on which compliance with the specification can be verified. Failure to complete this portion of the bid form may result in the subject bid not being considered.

Each bid for one of the heavy equipment items included in the bid package must be submitted on the Bid Submittal Form for that item and forwarded in a separate envelope with the bid item and item number clearly identified on the outside of the envelope. Envelopes containing a "no bid" shall also include the words "NO BID" on the outside of the envelope. Facsimiles and e-mails will not be accepted. Bids submitted by "Express/Overnight" services must be in a separate inner envelope or package sealed and identified as stated above. All bids must be received in the Association office prior to the bid opening. Bids received after the deadline will be returned unopened.

The County Joint Bid Program reserves the right to require a performance bond from successful bidders as permitted under Alabama law. However, **no bid bond is required for this bid offering.**

All bids should be mailed or hand-delivered to:

Association of County Commissions of Alabama	
Attention: JOINT BID PROGRAM	Attention: JOINT BID PROGRAM
2 North Jackson Street	OR P.O. Box 5040
Montgomery, Alabama 36104	Montgomery, Alabama 36103

BID SPECIFICATIONS

Please note that each piece of heavy equipment available for bid may include several different sizes and categories of machines. You should read each set of specifications very carefully as the differences vary depending upon the piece and size of equipment.

The award will be based on the total cost of the **Standard Machine** bid by the lowest responsible bidder. Each Bid shall include a **Manufacturer's Suggested Retail Price Sheet (MSRP)** for each machine bid. The percent difference between the Manufacturer's Suggested Retail Price (MSRP) for the standard machine as specified by these bid specifications and the actual price bid by the vendor will be calculated and that percentage discount shall be applied to any options an individual county may choose to add to the machine.

Once the bids have been awarded, any county participant purchasing under this program may, at its discretion, add any of the vendor's available options at the same discount off the Manufacturer's Suggested Retail Price Sheet as was applied to the Standard Machine Price Bid.

Any use of specific names and/or model numbers in the attached specifications is not intended to restrict the bidder or any seller or manufacturer, but is included solely for the purpose of indicating the type, size, and quality of materials, product services, or equipment considered best adapted to the use of the counties participating in the joint bid program.

ACQUISITION AND FINANCING OPTIONS

The awarded Vendor will provide the equipment, including any options required by the purchaser, at the awarded price as contracted through the Joint Bid Program. The purchaser may secure its own financing to acquire the equipment or execute any financial options available under Alabama law with the awarded Vendor in order to acquire the equipment.

BIDDER QUALIFICATIONS

All bidders and all program participants must be in compliance with any applicable federal, state, county and municipal laws, regulations, resolutions and ordinances, including but not limited to, licensing, permitting, and taxation requirements. All bidders should be prepared to submit evidence or documentation as proof that they are properly licensed and permitted under any applicable laws upon request. Such evidence or documentation may be submitted with the bid. Additionally, all bidders shall provide proof that they are in compliance with the e-verify requirements of Alabama's Immigration Law (Ala. Code § 31-13-1 et seq., as amended by Act No. 2012-491).

BID AWARD

The Houston County Commission will serve as the awarding authority for all bids and will award all contracts at a regular meeting of the Houston County Commission. Any and all bids submitted in compliance with this invitation to bid shall be considered, and award will be made to the lowest responsible bidder meeting bid specifications as determined by the awarding authority in compliance with Alabama law. All bids will be reviewed and evaluated by a committee created for that purpose, which committee will make comments and recommendations to the awarding authority regarding the award. All factors contained in each invitation package will be evaluated in determining the successful bidder, and any omissions of the stated requirements may be cause for rejection of the bid submitted. The awarding authority reserves the right to reject any and all bids, to waive any informality in bids, and to accept in whole or in part such bid or bids solely at its discretion.

The contract period will be one year with an option to renew for a second and third year under identical price, terms, and conditions upon the mutual consent of the vendor and the awarding authority. Any renewal contract shall be approved in writing by the vendor and the awarding authority no later than 90 days prior to the expiration of the existing contract.

CONTACT REGARDING BIDS AND INVITATION

Contact initiated by a potential bidder with any county official, county employee, or member of the Association staff shall only be as specifically set out in this Invitation to Bid. Any questions related to the bid or the County Joint Bid Program shall be directed to Association staff in writing under the procedures set out in this Invitation to Bid. Additionally, a bidder may contact the Association in writing to request an appointment to review bid specifications following the bid opening. **However, there shall be no communication with any county official or county employee regarding this bid between the date of this invitation and the date of bid award.** Any contact other than as set out here shall be deemed as an attempt to unduly influence the bid award, and shall be grounds for rejection of the bid submitted by the bidder initiating such other contact.

Any questions or problems related to downloading or obtaining copies of this Invitation to Bid should be directed to Kenya Howard at jointbid@alabamacounties.org or 334-263-7594.

Any other questions or requests for additional information regarding this invitation or the bid specifications shall be submitted **in writing** no later than five (5) days prior to bid opening to:

ATTN: Chase Cobb
Association of County Commissions of Alabama
P.O. Box 5040
Montgomery, Alabama 36103
E-mail: ccobb@alabamacounties.org

BID SPECIFICATIONS FOR ASPHALT DISTRIBUTOR WITH CHASSIS

GENERAL

These specifications shall be construed as the minimum acceptable standards for an **Asphalt Distributor with Chassis**. Should the manufacturer's current published data or specifications exceed these standards, the manufacturer's standards shall be considered minimum and shall be furnished. All integral parts not specifically mentioned in the scope of these specifications that are necessary to provide a complete working unit shall be furnished. Additionally, the machine offered for bid shall include all standard manufacturer's equipment. The asphalt distributor with chassis must be a new current production model and shall meet all EPA and other applicable standards at the time of manufacturer.

The use of specific names and numbers in the specification is not intended to restrict the bidder or any seller or manufacturer, but is intended solely for the purpose of indicating the type, size and quality of equipment considered best adapted to the uses of counties participating in this joint bid.

BID SUBMITTAL FORM

Each bidder must submit his or her bid on the Bid Submittal Form included in the Invitation to Bid package. All written warranties to be submitted shall be attached to the Bid Submittal Form.

BID PRICE

The bid price shall include all destination charges, delivery charges, title fees, rebates, and all other applicable costs and refunds.

MANUALS

Each unit shall be provided with one (1) copy of the operator's manual, one (1) copy of the repair manual and one (1) copy of the current parts manual. Units will not be accepted for delivery until the manuals as outlined above are received by the purchaser.

REPLACEMENT PARTS AVAILABILITY

Parts must be available for 5 years or 7,500 hours of use for the piece of equipment bid. If replacement parts are not delivered within three (3) working days of an order being placed, the bidder will deliver an equivalent machine for the county to use at no cost to the county until such time as the parts are delivered to the county so it can affect repairs on its machine. • **Subject to unit availability**

WARRANTY

Bidders shall submit a copy of the manufacturer's standard warranty. Warranty shall include service response time of maximum of 36 hours within notification by county.

Yes ☒ No ☐

Page or Attachment No. attachment

OPERATING CAPACITY

Unit shall have a tank capacity of 2000 gallons.

Yes ☒ No ☐
Page # 1
Centennial Specs

TANK DESIGN

It is important that the Distributor be capable of returning all material in the spray bar, hand spray and distributing lines to the Distributor tank by means of pump suction. This function is to be accomplished without reversing the asphalt pump. Tank shall be bolstered and straddle mounted to allow for flexing of tank when heated.

Yes ☒ No ☐
Page # 1
Centennial Specs

Unit shall use volumetric metering with no bypass when spraying to ensure accuracy of application. Provision shall be made for easily draining the circulating system independently of the tank and for flushing circulating system and pump with not more than three (3) quarts of fuel oil so as not to dilute tank contents.

Yes ☒ No ☐
Page # 1
Centennial Specs

Material: Shell to be 10-gauge steel. Tanks to have 10-gauge steel heads, deep dished and flanged, welded to tank shell both inside and outside for strength and durability.

Yes ☒ No ☐
Page # 1
Centennial Specs

Surge Plate: Tank to be supported with full section surge plate, deep dished and flanged, constructed of 10-gauge steel. To be spaced to provide adequate tank strength and proper surge control. Openings shall be provided in the surge plates for the free flow of material to the pump and large enough for a man to crawl through.

Yes ☒ No ☐
Page # 1
Centennial Specs

Manhole: 20" inside diameter manhole with quick-opening cover.

Yes ☒ No ☐
Page # 1
Centennial Specs

Overflow: 3" diameter overflow, extending at least 6 inches above the liquid, and draining internally only through the bottom of the tank in such a location as to clear all chassis members. Tank overflow design that drains asphalt material into the spill collar around manhole is not acceptable.

Yes ☒ No ☐
Page # 1
Centennial Specs

Tank design and construction to meet all applicable Federal Cargo Tank Regulations 49 CFR 173.247 and including DOT-406, HM-183, HM-198A, with consideration for hot asphalt products. Must have ASME tank approval number to assure that federal cargo tank regulations can be met.

Yes ☒ No ☐

Page # 1

Centennial Specs

POWER UNIT

Type: Hydrostatic transmission, consisting of Infinitely variable displacement pump with a minimum displacement of 3.1 cubic inches per revolution, axial piston type. Electronic stroker control.

Yes ☒ No ☐
Page # 1

Centennial Specs

Controls: Electronic micro-control of hydrostatic transmission for setting asphalt pump discharge rate shall be located in truck cab. Control to permit stopping the variable pump discharge without disconnecting the drive and be equipped with an override of the micro-control which shall allow increases in asphalt pump output for filling, sucking back, etc., without affecting application rate setting. Override control shall be located at rear of unit.

Yes ☒ No ☐
Page # 2

Centennial Specs

BITUMEN PUMP

Type: Positive displacement rotary gear type. 4 1/2" suction x 4" discharge.

Yes ☒ No ☐
Page # 2

Centennial Specs

Location: To be located below the bottom level of the tank so that the material will flow vertically from the suction to the discharge ensuring complete drainage when tank contents valve is closed.

Yes ☒ No ☐
Page # 2
Centennial Specs

Capacity: Minimum of 400 gallons per minute.

Yes ☒ No ☐
Page # 2

Centennial Specs

Self-Flushing line from fuel tank or heating system to fill line. Includes minimum 20 gallon capacity fuel tank with float level gauge. Located away from burners for safe operation.

Yes ☒ No ☐
Page # 2

Centennial Specs

HEATING SYSTEM

Flues: (2) with (LPG) liquid petroleum gas burner, with minimum of 1,000,000 BTU per hour per burner capacity. With pressure regulator, valves, piping, and 52-gallon frame mounted tank to be furnished.

Yes ☒ No ☐

Page # 2

Centennial Specs

SPRAY BAR

Full circulating 16 feet in length, hinged to permit folding for traveling. Length of bar in folded position not to exceed 8 feet.

Yes ☒ No ☐

Page # 2

Centennial Specs

Positive circulation from one end of the bar to the other end, regardless of bar length or asphalt pump rate.

Yes ☒ No ☐

Page # 2

Centennial Specs

To consist of 8' center section with (2) folding wing sections with electric-air on-off in 1' increments, cab controlled and an electric-hydraulic spray bar shifting, lifting and wing folding, cab controlled.

Yes ☒ No ☐

Page # 2

Centennial Specs

Nozzles to be spaced on 4" centers on spray bar and shall have an individual valve for each spray Nozzle and capable of .18 to .45 gallons per sq. yard application rates. Each nozzle valve to have flip lever control so spray width can be adjusted, and allows individual valves to be disconnected without the use of tools or pulling pins. Right and left side wings (bar extensions) to relieve fore and aft. Pin replacement required when bar relieves.

Yes ☒ No ☐

Page # 2

Centennial Specs

Bar to adjust for positive or negative crown and also adjustment for pitch of bar to aim nozzle valves rearward. Sections to be interchangeable, right or left side.

Yes ☒ No ☐

Page # 2

Centennial Specs

AIR CONTROLS

Distributor shall be equipped with air controls. Air for the controls shall be obtained from the air system on the truck chassis. The Distributor air system shall include its own air reservoir (using of truck chassis reservoir not acceptable) with check valve set at 80 pounds to prevent loss of air on truck chassis brakes in case lines are ruptured. System shall have its own airline oiling device and controls shall be electric, located in cab convenient to operator.

Yes ☒ No ☐

Page # 2

Centennial Specs

All air solenoid valves and hydraulic solenoid valves are to be mounted to be accessible and serviceable from the ground without climbing on the machine.

Yes ☒ No ☐
Page # 2

Centennial Specs

CONTROLS / INSTRUMENTATION

Computer with in-cab operator controls which include a computer-controlled switches for ten (minimum) preset application rates. Distance/volume reset switch. Application rate adjustment switch. Display select switch. System control of 4-way asphalt valve. Radar type sensor to pick up ground speed. In-cab instrumentation will include the following information on self-illuminated display(s) to include:

Yes ☒ No ☐
Page # 2

Truck travel speed feet/minute or meters/minute.

Yes ☒ No ☐
Page # 2

Application rate in gallons/square yard or liters/square yard.

Yes ☒ No ☐
Page # 2

Pump rate in gallons/minute or liters/minute.

Yes ☒ No ☐
Page # 3

Resettable distance sprayed in feet or meters.

Yes ☒ No ☐
Page # 3

Resettable volume sprayed in gallons or liters.

Yes ☒ No ☐
Page # 3

Low tank level warning.

Yes ☒ No ☐
Page # 3

Warnings that travel speed and/or applications rate are beyond system capability

Yes ☒ No ☐
Page # 3

MISC

Dial Thermometer, 2", power wash down system including electric fuel pump, 15' hose with gun, wet storage box with drain plug & hinged lid, additional display in rear control box, 12' x 3" steel fill hose. (450 Deg) or 12' x 3" rubber fill hose (350 Deg), L.E.D. Lights, Sealed system, 3" cam lock fittings, wet storage box with drain plug and hinged lid and strobe light mounted on each corner.

Yes ☒ No ☐
Page # 3,4

CHASSIS

Chassis shall be 2020 or newer with a GVW of 33,000 lbs. with min. 21,000 lb. rear axle

Yes ☒ No ☐
Page # 1

Truck Specification

Engine Shall be at least 280 hp. with VGT exhaust brake

Yes ☒ No ☐
Page # 2

Truck Specification

Frame shall be at least 10-5/8 steel rails

Yes ☒ No ☐
Page # 5

Truck Specification

Fuel tank shall be at least 70 gallons

Yes ☒ No ☐
Page # 5

Truck Specification

Shall have power steering

Yes ☒ No ☐
Page # 6

Truck Specification

Tires shall be 11R22.5 14 ply rating

Yes ☒ No ☐
Page # 4,5

Truck Specification

Transmission shall be Allison 3500 RDS 6 speed automatic shift with a Fuller AT-1202 auxiliary transmission.

Yes ☒ No ☐
Page # 3

Truck Specification

Air conditioning shall be
Standard

Yes ☒ No ☐
Page # 6

Truck Specification

Shall have the following:

Heated mirrors

Yes ☒ No ☐
Page # 7

Truck Specification

LED Marker lights

Yes ☒ No ☐
Page # 7

Truck Specification

Bendix air dryer

Yes ☒ No ☐
Page # 8

Truck Specification

Tilting and Telescoping steering

Yes ☒ No ☐
Page # 6

Truck Specification

Engine protection shut down

Yes ☒ No ☐
Page # 2

Truck Specification

Battery disconnect switch

Yes ☒ No ☐
Page # 3

Truck Specification

Power door locks and windows.

Yes ☒ No ☐
Page # 7

Truck Specification



KENWORTH

ED ETNYRE & CO
1333 SOUTH DAYSVILLE RD
OREGON, Illinois 61061
United States of America

TERRY STONE

Office Phone: 800-995-2116

Vehicle Summary

	Unit	Chassis	
Model:	T370 SERIES CONVENTIONAL	Fr Axle Load (lbs):	12000
Type:	FULL TRUCK	Rr Axle Load (lbs):	21000
Description 1:	Alabama T370 A33K AU	G.C.W. (lbs):	33000
Description 2:	Alabama County T370 A33K AU		
	Application	Road Conditions:	
Intended Serv.:	Local pickup & delivery: Vehicles	Class A (Highway)	90
	which		
Commodity:	Asphalt.	Class B (Hwy/Mtn)	10
		Class C (Off-Hwy)	0
		Class D (Off-Road)	0
Type:	Body	Tank.	6
Length (ft):	18	Maximum Grade:	188
Height (ft):	12	Wheelbase (in):	100
Max Laden Weight (lbs):	4000	Overhang (in):	68
		Fr Axle to BOC (in):	
		Cab to Axle (in):	120
		Cab to EOF (in):	220
		Overall Comb. Length (in):	328.9
	Trailer		
No. of Trailer Axles:	0		
Type:			
Length (ft):	0	Special Req.	
Height (ft):	0	U.S. Domestic registry, 50-state.	
Kingpin Inset (in):	0		
Corner Radius (in):	0		
	Restrictions		
Length (ft):	120		
Width (in):	102		
Height (ft):	13.5		

Approved by: _____

Date: _____

Note: All sales are F.O.B. designated plant of manufacture.



KENWORTH

Sales Code	Std/ Opt	Description	\$ List	Weight
Model				
0000370	O	T370 SERIES CONVENTIONAL Electric Door locks LH/RH; Ignition & doors keyed alike; Single electric horn; Single-piece windshield; Electric windshield wipers, 2-speed plus intermittent; Electric windshield washers; Steering wheel 18in. 4-spoke; Glovebox door with locking latch; Dash-mounted cruise control with switches; Turn signal switch with column-mounted dimmer; Standard gray dash panels; Slate Gray interior primary color; Dark Slate Gray seat color; Floormat; Inside sunvisor, LH/RH; Door courtesy lights; Under-dash center console with 1 cup holder, 1 ashtray & 1 lighter.	91,052	9,509
0070006	S	T370 Class 7: medium-duty Conventional.	0	0
0080050	O	CARB Idle Emissions Reduction Feature for PX-7 and PX-9	100	0
0090015	O	Medium-duty 4x2 automatic.	0	0
Engine & Equipment				
0120282	O	PACCAR PX-7 280 2017 280@2400 270@2600 660@1600 Includes turbo exhaust brake, no code is used. Diagnostic Plug for data link, Oil Cooler, Aluminum Flywheel Housing. N09260 P14 70....Max Vehicle Speed in Top Gea N09440 P11 YES...Engine Protection Shtdwn N09460 P06 NO....Gear Down Protection N09300 P19 70....Max Cruise Control Speed N09720 P230 YES...Enable Hot Ambient Automatic N09500 P02 NO....Cruise Control Auto Resume N09520 P04 NO....Auto Engine Brake in Cruise N09480 P26 1400..Max PTO Speed N09580 P32 5.....Idle Shtdwn Time N09680 P33 NO....Idle Shtdwn Override N09560 P520 YES...Enable Idle Shutdown Park Br N09600 P233 YES...Enable Impending Shutdown Wa N09780 P47 80....High Ambient Temperature Thr N09740 P46 40....Low Ambient Temperature Thre N09200 N205 120...Standard Maximum Speed Limit N09620 P234 60....Timer For Impending Shutdown N09360 N203 252...Reserve Speed Function Reset N09640 P516 35....Engine Load Threshold N09400 N206 10....Maximum Active Distance (N20 N09420 N201 0.....Reserve Speed Limit Offset (N09760 P56 60....Intermediate Ambient Tempera N09380 N202 0.....Maximum Cycle Distance (N202 N09220 N207 0.....Expiration Distance (N207) N09540 N209 0.....Expiration Distance (N209)	2,726	0
1000151	S	PremierSpec	0	0
1000684	O	Effective VSL Setting NA	0	0

Price Level: January 1, 2020
 Deal: Alabama T370 A33K AU
 Printed On: 9/1/2020 10:55:03 AM

Date: September 01, 2020
 Quote Number: QUO-615944-N3J4R8



Sales Code	Std/ Opt	Description	\$ List	Weight
1000858	O	Engine Idle Shutdown Timer Disabled	0	0
1000859	O	Enable EIST Ambient Temp Override	0	0
1000891	O	Eff EIST NA Expiration Miles Use only with MX and Cummins engines	0	0
1002060	S	Air compressor: Cummins 18.7 CFM For Cummins And PACCAR PX engines.	0	0
1031130	S	Air Cleaner: Dry-type firewall mounted w/filter restriction indicator.	0	0
1105261	S	Fan Hub: Horton On/Off for PX-7	0	0
1121200	S	Cooling module: 1000 square inches T170/T270/T370/T470. Includes metal surge tank on T170/T270/T370.	0	0
1247193	O	Exhaust:2017 EPA RH Under Cab DPF/SCR For PX-7 w/ Single Vertical RH Side of Cab Tailpipe.	1,217	220
1290130	O	Tailpipe: 5 in. single 30 in. 45 degree curved.	0	0
1321109	S	Fuel Filter:PACCAR Standard Service Interval Fuel/Water Separator. 2017 and Later Emissions	0	0
1321200	O	Run Aid:None *For Fuel Filter	0	0
1321300	S	Start Aid:None *For Fuel Filter	0	0
1816160	O	Alternator: 160 amp brush type T3	26	0
1821220	S	Batteries: 2 PACCAR GP31 threaded post (700-730) 1400-1460 CCA dual purpose.	0	0
1836107	S	Starter: PACCAR 90P47 12V with PACCAR PX-7	0	0
1840005	O	Battery disconnect switches 2, mounted on battery box.	339	2
Transmission & Clutch				
2011232	O	Transmission: Allison 3500RDS 6-speed w/PTO drive gear. 5th Gen Controls. Limited to 860 lb.-ft. Includes heat exchanger & oil level sensor. Rugged Duty Series for vocational applications. Transynd transmission fluid is standard on all Allison 1000, 2000, 3000 & 4000 series transmissions.	12,372	291
2154301	U	Fuller auxiliary AT1202 2-speed air shift Narr c	17,822	522
2406452	O	Driveline: 2 SPL170XL 1 centerbearing requires 3500057 interaxle driveline.	1,007	94
2410018	O	Torque converter included w/Allison Transmission.	0	0
2410204	O	Delete Allison Fuel Sense	0	0
2421999	U	2429100 PTO LS Transmiision Narr PTO mounted left side of transmission	0	0

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Sales Code	Std/ Opt	Description	\$ List	Weight
2429358	O	Rear transmission support springs for transmission PTO applications are required to ensure that engine flywheel housings are not overloaded when transmission PTO's are installed.	77	0
Front Axle & Equipment				
2512044	S	Meritor MFS12E PLUS 12.5K rated at 12K 3.5in. drop standard track.	0	0
2603006	S	Front brakes included w/ front hub package.	0	0
2690029	S	Drum Brake Knuckle for use on Meritor MFS PLUS Steer Axle	0	0
2701000	O	Air Brake: 14,600 lb. package includes Bendix 16-1/2 x5 brakes, cast drums, aluminum 10-bolt hub pilot Preset hubs, hubcaps, oil seals & automatic slack adjusters. For use w/ 22-1/2in. wheels.	64	0
2863015	S	Front Springs: Taperleaf 12K w/ shock absorber for use on 2010+ chassis w/ 22.5in. wheels only.	0	0
2895223	S	Single power steering gear: 13.2K for air brakes.	0	0
2900022	O	Front frame raised 0.8 inches. for ground clearance with 22.5 in. tires	0	0
Rear Axle & Equipment				
3032200	O	Single Meritor MS21-14x4 rear axle rated at 21K.	409	126
3200557	O	Rear Axle Ratio - 5.57.	0	0
3300000	S	Single rear brakes included w/rear hub package.	0	0
3401001	O	23K air brake package includes 16-1/2x7 in. brakes, cast drums, aluminum 10-bolt hub pilot Preset hubs, automatic slack adjusters and oil seals for use w/ 22.5 in. wheels.	46	0
3485007	S	Spring Brake: 3030 long stroke single 3 in. travel. Helps keep brakes in adjustment longer.	0	0
3495226	S	Bendix 4S/4M anti-lock brake system.	0	0
3636422	O	Rear suspension: single Reyco 79KB taperleaf 23K. Medium-duty. Unladen Height: 9 in. Laden Height: 7.3 in. Not rear air disc brake compatible.	475	57
Tires & Wheels				
4079058	O	Front tires: Bridgestone R268 Ecopia 11R22.5 14PR. 41.5 in. diameter, all position. F-side wall protector bar. 19.3 in. SLR. Smartway certified.	41	8
4279058	O	Rear Tires: Bridgestone R268 Ecopia 11R22.5 14PR 41.5 in. diameter, all position. F-side wall protector bar. 19.3 in. SLR. Smartway certified. Code is priced per pair of tires.	82	16
4900004	O	Rear Tire Quantity: 4	0	0

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Sales Code	Std/ Opt	Description	\$ List	Weight
5042289	S	Front Wheel: Accuride 51487 22.5x8.25 steel Steel Armor(TM) powder coat, hub-pilot mount. 7400lb. maximum rating. 5-hand hole. Air disc brake compatible.	0	0
5242389	S	Rear Wheel: Accuride 51487 22.5x8.25 steel Steel Armor(TM) powder coat, hub-pilot mount. 7400lb. maximum rating. 5-hand hole. Air disc brake compatible. Code is priced per pair of wheels.	0	0
5853906	O	Powder coat white steel wheel. Use in conjunction with front, dual front, rear, spare or lift axle wheel code(s). All wheels on chassis must have same finish color.	0	0
5900004	O	Rear Wheel/Rim Quantity: 4	0	0

Frame & Equipment

6054410	O	Frame Rails: 10-5/8 x 3-1/2 x 5/16 in. Steel to 309 in. to 380 in. Truck frame weight is 2.91 lb.-in. per pair of rails. Section modulus is 14.80 cu.in., RBM is 1,776,000 in.-lbs per rail. 120,000 PSI yield. Heat treated. Frame rail availability may be restricted based upon application, axle/suspension capacity, fifth wheel setting, or component/dimensional specifications. The results of the engineering review may result in a change to the requested frame rail. If a change is required Kenworth Application Engineering will advise the dealer of the appropriate material specification for a substitute rail.	439	256
6308710	S	Bumper: Aerodynamic, Painted. Requires a bumper setting code.	0	0
6319409	S	40.9 in. Bumper setting. Requires a bumper code.	0	0
6390103	S	Front mudflaps.	0	0
6391299	U	6391225 Customer Frame layout per Mike Kleespies CFL AT: CFL AT:KEEP LEFT SIDE CLEAR, AIR TANKSCFL AT:TO BE MOUNTED ON RIGHTCFL AT:(PASSENGER SIDE, INSIDE FRAMECFL AT:RAILS	100	0
6400636	O	Battery box cantilever aluminum BOC with fiberglass cover.	24	0
6409902	O	Battery box location: RH Side.	94	15
6451059	O	T270/370 Non-polished 2010 or later DPF/SCR cover with cab access step assembly, RH under. End plates will be painted standard black frame color.	0	0
6490122	S	One-piece welded crossmember assembly with 12mm frame fasteners, center and rear frame. Standard crossmember.	0	0
6742009	S	Square end-of-frame w/o crossmember; non-towing.	0	0

Fuel Tanks & Equip

7210075	O	Fuel Tank: 75 US gallon 24.5in. aluminum under replace. Class 8 fuel tanks w/o locking caps include an anti-siphon device on the filler neck.	28	-16
7722011	O	Small round DEF tank. 11 gallons of	140	0

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KENWORTH

Sales Code	Std/ Opt	Description	\$ List	Weight
		usable volume. The DEF tank will be located on the side you specified. If you have specific configuration or body builder concerns, please utilize the Custom Frame Layout option. Standard capacity is calculated by fuel capacity of the vehicle and will accommodate two diesel fill-ups for every DEF fill-up. For 1:1 DEF fuel fill ratio, add 7889204.		
7889203	S	DEF to fuel fill ratio 2:1 or greater.	0	0
7889245	O	Anti-siphon device swaged in place. For any number of fuel tanks.	54	1
7889603	O	DEF tank location is RH.	0	0
7920075	O	Location: 75 gal fuel tank LH under cab	0	0
Cab & Equipment				
8024310	S	Cab: Curved Glass Conventional. Cab Includes aluminum & fiberglass fully hucked cab w/ all aluminum bulkhead doors & continuous stainless steel piano-style door hinges. Single electric horn standard. Incandescent exterior lights include diagnosable bulb detection and warning. Trailer cable on tractors includes integrity detection. Standard features include multiplex wiring for interior lights, automated pre-trip inspection (excluding T3 series), short and open check diagnostics. Warning alarm will sound when lights are left on.	0	0
8080137	O	Cab door bearing blocks, top & bottom.	33	0
8090310	S	Hood: Sloped aerodynamic hood includes grill & separate bumper.	0	0
8108010	S	Cab heater: W/integral defrosters & A/C 45,000 btu cab heater. No sleeper heater/AC. Includes 5 mode rotary control. T660 include filter media.	0	0
8201200	S	Adjustable telescoping tilt steering column.	596	10
8282009	S	Instrument package: Includes speedometer, tachometer, fuel gauge, engine coolant temperature gauge, engine oil pressure, voltmeter. Class 8 also includes primary & secondary air reservoir gauges & an air application gauge. DEF level gauge and warning lamp are included with 2010+ engines. Engine hour meter and outside air temperature readouts are standard. Primary read out will be MPH. Add 8240620 to switch primary scale to KPH in Canada.	0	0
8330003	S	Cab interior: Pinnacle. Includes vinyl headliner & cab back panel, slate gray interior, dark slate gray seats, floormats, LH/RH inside sunvisor & door courtesy lights.	0	0
8410191	O	Driver seat: Kenworth Air cushion Plus HB vinyl. Standard features includes 7 in. fore and aft slide adjustment w/isolator, 6-23 degree recline, air suspension with cover, dual armrests, and single chamber air lumbar support. Seat cushion is 20 inches wide w/ 2-position tilt and 2-position front cushion extension. Seat material has a horizontal stitch pattern and is 2-tone in color. Seat back is carpeted and includes a map pocket. Seat is manufactured by National. Includes inside visor and retractable 3-point matching seat belts. Grey seat belts.	131	2

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KENWORTH

Sales Code	Std/ Opt	Description	\$ List	Weight
8480190	O	Rider seat: Kenworth Toolbox Plus HB vinyl. Standard features include fixed base and backrest, tool box seat base w/ door, and dual armrests. Seat cushion is 19.5 inches. Seat material has a horizontal stitch pattern and is 2-tone in color. Seat back is carpeted with a map pocket. Seat is manufactured by National. Includes inside visor and retractable 3-point matching seat belts. Grey seat belts.	100	2
8700154	S	Self cancelling turn signal: W/head light dimmer switch .	22	0
8800200	S	Cab access contoured grabhandles, LH/RH.	0	0
8832115	S	Daylite Door: LH/RH includes RH peeper window	0	0
8850300	S	Look-Down, Pass. Door, Stainless 8.5x4.4	0	0
8865001	O	Mirror: Dual Kenworth aerodynamic heated motorized 7 in. x 13 in. mirror w/ chrome shell. LH/RH convex mirrors 5 in. x 7 in. heated. Mirror brackets set for 8 1/2 ft load width. Switch located on door pad.	377	26
8871438	S	Rear Cab Stationary Window 17 in. x 36 in.	0	0
8879213	O	Electric-powered LH & RH door window lifts. Switch located on door.	201	0
8879590	O	Fresnel lens for peeper window, RH door 10-1/8 in. X 11-1/8 in. Replaces standard peeper window.	58	0
Lights & Instruments				
9010801	S	Headlamps: Halogen Projector Low Beam, Halogen Complex Reflector High Beam	0	0
9022137	O	Marker Lights: Five, rectangular, LED	91	0
9030010	S	Turn Signal Lights: Mounted on fender	0	0
9070138	S	Combination Stop, Tail, Turn & Backup Lights RH & LH.	0	0
9080202	O	Switch & Wiring: Customer-installed dual beacon lights w/o insulators. Coiled wire behind dash.	91	1
9090845	O	Circuit Breakers: Replacing fuses. Does not apply to any 5-amp fuse box position. Brakers include stop/brake/turn, tail lamp, high & low beams, marker/clearance lamps, horn, fuel heat, gauges, air dryer, HVAC controls, panel lamps. Some circuits will remain fuses.	37	0
Air Equipment				
9101023	O	Air dryer: Bendix AD-SP heated. With 2010 engine installations the dryer is mounted under the hood.	9	0
9140286	O	Air tanks: clear of left side of transmission area. This code requires the use of a custom frame layout code.	0	0
Extended Warranty				

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Sales Code	Std/ Opt	Description	\$ List	Weight
9200007	O	Base Warranty - PACCAR PX-7 Engine 36 months / Unlimited miles & km / Unlimited hours.	0	0
9200022	S	Base Warranty - Standard Service Medium Duty 12 months / Unlimited miles & km	0	0

Miscellaneous

9409852	O	GHG Secondary Manufacturer: Does Not Apply	0	0
9490206	O	Warning triangle reflector kit: Shipped loose. Kit consists of 3 triangles in plastic carrying case. Not floor mounted.	44	4
9490404	O	One 5 lb. dry chemical type fire extinguisher mounted outboard of driver seat. Class ABC.	125	11

Promotions

Paint

9700000	O	Paint color number(s).	0	0
		N9702 A - L0006 WHITE N9770 BUMPER L0006 WHITE N9720 FRAME N0001 BLACK		
9943001	S	Bumper Painted Color A	80	0
9943050	O	Day Cab Standard Paint	0	0
9944820	S	1 - Color Paint - Day Cab Color will be White if no other color is specified.	0	0
9965510	S	Base coat/clear coat. The Kenworth Color Selector contains additional instructions, as well as information on Kenworth paint guidelines and surface finish applications. Kenworth is standard with Dupont Imron Elite paint.	0	0

Order Comments

Total Weight

11,157

Prices and Specifications Subject to Change Without Notice.

Unpublished options may require review/approval.
Dimensional and performance data for unpublished options may vary from that displayed in CRM.

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PRICING DISCLAIMER

While we make every effort to maintain the web site to preserve pricing accuracy, prices are subject to change without notice. Although the information in this price list is presented in good faith and believed to be correct at the time of printing, we make no representations or warranties as to the completeness or accuracy of this information. We reserve the right to change, delete or otherwise modify the pricing information which is represented herein without any prior notice. We carefully check pricing specifications, but occasionally errors can occur, therefore we reserve the right to change such prices without notice. We disclaim all liability for any errors or omissions in the materials. In no event will we be responsible for any damages of any nature whatsoever from the reliance upon information from these materials. Please check your order prebills to confirm your pricing information

KENWORTH TRUCK COMPANY
Medium Duty Warranty Schedule
UNITED STATES
VEHICLE ONLY

THIS VEHICLE WARRANTY SCHEDULE APPLIES ONLY TO ORIGINAL FACTORY EQUIPMENT AND IS SUBJECT TO THE TERMS AND LIMITATIONS IN THE ATTACHED LIMITED WARRANTY AGREEMENT. Pursuant to the terms of the attached Limited Warranty Agreement, Kenworth Truck Company will pay warranty claims for Warrantable Failures within the following maximum limits in time or mileage, whichever shall occur first. The Warrantable Failure must be brought to the attention of an Authorized Dealer within 30 days of discovery.

	MONTHS	MILES
Basic Vehicle This coverage applies to the basic highway vehicle, except for additional coverage and warranty exclusions below.	12	Unlimited
Major Components Eaton, Meritor & Dana Spicer front axle, beam, spindles, kingpin & kingpin bushings. Eaton, Meritor & Dana Spicer rear axle, differential assembly, axle shafts & axle housing. Manual transmissions, gears, shafts, case & bell housing. Eaton auto shift. Bendix and Meritor brakes, brackets, cam shafts, spiders and slack adjusters (excludes Air Disc Brakes).	24	Unlimited
PACCAR Major Components Rear Axle 40K Line Haul	60	750,000
Rear Axle 40K Regional Haul or Pickup & Delivery	24	Unlimited
Front Axle - All Applications (incl. Severe Service)	60	750,000
Transmission - All Applications	60	750,000
Clutch - All Applications	36	350,000
Eaton Hybrid Components Hybrid Drive Unit (HDU) with Motors and Electronic Actuator (ECU), Electronic Clutch Actuator (ECA), Power Electronic Carrier (PEC), including batteries, inverter, Hybrid Control Module (HCM), DC/DC Converter (in Utility Application Only), Auxiliary Power Generator Kit (APG) (in Utility Application Only)	36	150,000
Frame, Gussets, Crossmembers, Cab/Hood Structure, and Cab/Hood Corrosion Frame rails, gussets, and crossmembers. Structural components of the cab and hood. Cab and hood perforation caused by corrosion from within. This warranty does not apply to corrosion caused by damage to a cab panel or to finish paint.	36	Unlimited
Other Coverage		
PACCAR Batteries - Charge and Start System	12	Unlimited
Batteries - Kenworth Idle Management System	12	Unlimited
Heater/Air Conditioner (HVAC)	12	Unlimited
Gaskets and Wheel Seals	12	50,000
Cab and Hood Paint	12	100,000
Frame Paint - Black only	12	100,000
Frame Paint - All colors other than black	6	50,000
Frame Paint - Logger mixer, Dump, Refuse, Oil Field & Construction applications	3	25,000
Severe Service Vehicle - All Kenworth installed components except as excluded herein. Severe Service vehicles are those operated 10% or more on class C or D roads.	12	50,000



Company ID Number: 505216

THE E-VERIFY PROGRAM FOR EMPLOYMENT VERIFICATION MEMORANDUM OF UNDERSTANDING

ARTICLE I

PURPOSE AND AUTHORITY

This Memorandum of Understanding (MOU) sets forth the points of agreement between the Department of Homeland Security (DHS) and Cowin Equipment Co Inc (Employer) regarding the Employer's participation in the Employment Eligibility Verification Program (E-Verify). This MOU explains certain features of the E-Verify program and enumerates specific responsibilities of DHS, the Social Security Administration (SSA), and the Employer. E-Verify is a program that electronically confirms an employee's eligibility to work in the United States after completion of the Employment Eligibility Verification Form (Form I-9). For covered government contractors, E-Verify is used to verify the employment eligibility of all newly hired employees and all existing employees assigned to Federal contracts or to verify the entire workforce if the contractor so chooses.

Authority for the E-Verify program is found in Title IV, Subtitle A, of the Illegal Immigration Reform and Immigrant Responsibility Act of 1996 (IIRIRA), Pub. L. 104-208, 110 Stat. 3009, as amended (8 U.S.C. § 1324a note). Authority for use of the E-Verify program by Federal contractors and subcontractors covered by the terms of Subpart 22.18, "Employment Eligibility Verification", of the Federal Acquisition Regulation (FAR) (hereinafter referred to in this MOU as a "Federal contractor with the FAR E-Verify clause") to verify the employment eligibility of certain employees working on Federal contracts is also found in Subpart 22.18 and in Executive Order 12989, as amended.

ARTICLE II

FUNCTIONS TO BE PERFORMED

A. RESPONSIBILITIES OF SSA

1. SSA agrees to provide the Employer with available information that allows the Employer to confirm the accuracy of Social Security Numbers provided by all employees verified under this MOU and the employment authorization of U.S. citizens.
2. SSA agrees to provide to the Employer appropriate assistance with operational problems that may arise during the Employer's participation in the E-Verify program. SSA agrees to provide the Employer with names, titles, addresses, and telephone numbers of SSA representatives to be contacted during the E-Verify process.
3. SSA agrees to safeguard the information provided by the Employer through the E-Verify program procedures, and to limit access to such information, as is appropriate by law, to individuals responsible for the verification of Social Security Numbers and for evaluation of the E-Verify program or such other persons or entities who may be authorized by SSA as governed



Company ID Number: 505216

To be accepted as a participant in E-Verify, you should only sign the Employer's Section of the signature page. If you have any questions, contact E-Verify at 888-464-4218.

Employer Cowin Equipment Co Inc	
Tracy Womack	
Name (Please Type or Print)	Title
Electronically Signed	02/15/2012
Signature	Date
Department of Homeland Security – Verification Division	
USCIS Verification Division	
Name (Please Type or Print)	Title
Electronically Signed	02/15/2012
Signature	Date

Information Required for the E-Verify Program

Information relating to your Company:

Company Name:	Cowin Equipment Co Inc
Company Facility Address:	2238 Pinson Valley Parkway
	Birmingham, AL 35217
Company Alternate Address:	PO Box 10624
	Birmingham, AL 35202
County or Parish:	JEFFERSON
Employer Identification Number:	630141942

Company ID Number: 475502

E-VERIFY

CORPORATE COMPANY

**If you have any questions, contact E-Verify at
888-464-4218.**

**INFORMATION REQUIRED
FOR E-VERIFY**

Information relating to your Company:

Company Name: Cowin Equipment Company Inc

Company Facility Address: 2238 Pinson Valley Parkway
Birmingham, AL 35217

County or Parish: JEFFERSON

Information relating to the Corporate Administrator(s) for your Company on policy questions or operational problems:

Name:	George Tickle	Fax Number:	(205) 841 - 2639
Telephone Number:	(205) 488 - 3950		
E-mail Address:	gtickle@cowin.com		
Name:	Tracy Womack	Fax Number:	(205) 488 - 3164
Telephone Number:	(205) 488 - 3959		
E-mail Address:	twomack@cowin.com		

SPECIFICATIONS

For Black-Topper Centennial Bituminous Distributor

FUNCTION

The Distributor shall perform the following functions:

- a. Fill tank by Distributor pump from outside source.
 - b. Circulate material in tank.
 - c. Circulate material in spray bar.
 - d. Spray at a constant desired application rate, regardless of variance in truck speed.
 - e. Return material in spray bar to tank by pump suction.
 - f. Handspray.
 - g. Return material in hand spray to tank by pump suction.
 - h. Transfer from an outside source to another outside source without having material enter Distributor tank.
 - i. Pump material back to supply source.
 - j. Automatically go from Circulate in Spray Bar to Spray mode and return to circulate without pushing material over relief valve.
- It is important that the Distributor be capable of returning all material in the spray bar, handspray and distributing lines to the Distributor tank by means of pump suction. This function is to be accomplished without reversing the asphalt pump.
- Unit shall use volumetric metering with no bypass when spraying to insure accuracy of application.
- Provision shall be made for easily draining the circulating system independently of the tank and for flushing circulating system and pump with not more than three (3) quarts of fuel oil so as not to dilute tank contents.

TANK AND FITTINGS

- a. Capacity: 2000 U.S. Gallons minimum.
- b. Shape: Oval in cross section, with the long axis horizontal.
- c. Material: Shell to be 10 gauge steel. Tanks to have 10 gauge steel heads, deep dished and flanged, welded to tank shell both inside and outside for strength and durability.
- d. Surge Plate: Tank to be supported with full section surge plate, deep dished and flanged, constructed of 10 gauge steel. To be spaced to provide adequate tank strength and proper surge control. Openings shall be provided in the surge plates for the free flow of material to the pump and large enough for a man to crawl through.
- e. Manhole: 20" inside diameter manhole with quick-opening cover.
- f. Overflow: 3" diameter overflow, extending at least 6 inches above the liquid, and draining internally only through the bottom of the tank in such a location as to clear all chassis members. Tank overflow design that drains asphalt material into the spill collar around manhole is not acceptable.
- g. Insulation: 2" fiberglass 1 lb. Density with spacers to prevent compression, protected by aluminum jacket sheet (.040").
- h. Tank Mounting: Mounting saddles shall be full bolster style. Includes aluminum fenders.
- i. Tank Gauge: Float type, with dial calibrated in 50 gallon increments, both front and rear of tank.
- j. Measuring Stick: Aluminum, calibrated in 50 gallon increments. To be designed and calibrated to read tank contents without dipping stick into material.
- k. Spillage collar and overflow drain, including refiners platform and ladder.
- l. Tank design and construction to meet all applicable Federal Cargo Tank Regulations 49 CFR 173.247 and including DOT-406, HM-183, HM-198A, with consideration for hot asphalt products. Must have ASME tank approval number to assure that federal cargo tank regulations can be met.

POWER UNIT

- a. Type: Hydrostatic transmission, consisting of:
 1. Pump: Infinitely variable displacement pump with a minimum displacement of 3.1 cubic inches per revolution, axial piston type. Electronic stroker control.
 2. Motor: Piston motor with gearbox. 1.53 cubic inch per revolution displacement, direct coupled to the asphalt pump. Entire transmission unit shall be capable of operating speeds up to 2800 RPM. Hydraulic oil may reach temperature up to 200 degrees without damage to the unit. Unit shall have internal valving, and shall be fitted with relief valve and high oil temperature signal in cab.
- b. Crankshaft Take-Off: Hydrostatic pump driven by crankshaft take off; chassis must be equipped to accept crankshaft drive.

c. Hydraulic Lines:

1. High pressure hose with swaged type split flange "O" ring fittings, per S.A.E. standards. (90 series pump only)
 2. Low pressure hose installation shall be made according to transmission manufacturer's recommendations. Only top quality fittings, tubing and hoses to be used.
- d. Controls: Electronic micro-control of hydrostatic transmission for setting asphalt pump discharge rate shall be located in truck cab. Control to permit stopping the variable pump discharge without disconnecting the drive and be equipped with an override of the micro-control which shall allow increases in asphalt pump output for filling, sucking back, etc., without affecting application rate setting. Override control shall be located at rear of unit.
- e. Reservoir. Minimum 20 gallon hydraulic reservoir with dial thermometer and level indicator.
- f. Filter: A 10 micron, replaceable cartridge type filter with vacuum gauge shall be located in the line between oil reservoir and hydrostatic pump.

BITUMEN PUMP

- a. Type: Positive displacement rotary gear type. 4 1/2" suction x 4" discharge.
- b. Location: To be located below the bottom level of the tank so that the material will flow vertically from the suction to the discharge insuring complete drainage when tank contents valve is closed.
- c. Capacity: Minimum of 400 gallons per minute.
- d. Self Flushing line from fuel tank or heating system to fill line. Includes minimum 20 gallon capacity fuel tank with float level gauge. Located away from burners for safe operation.

HEATING SYSTEM

- a. Flues: (1) with (LPG) liquid petroleum gas burner, with minimum of 1,000,000 BTU per hour per burner capacity. With pressure regulator, valves, piping, and 52 gallon frame mounted tank to be furnished.

SPRAY BAR

Full circulating 16 feet in length, hinged to permit folding for traveling. Length of bar in folded position not to exceed 8 feet. Positive circulation from one end of the bar to the other end, regardless of bar length or asphalt pump rate.

To consist of 8' center section with (2) folding wing sections.

Electric-air on-off in 1' increments, cab controlled.

Electric-hydraulic spray bar shifting, lifting and wing folding, cab controlled.

Nozzles to be spaced on 4" centers on spray bar and shall have an individual valve for each spray nozzle. Each nozzle valve to have flip lever control so spray width can be adjusted, and allows individual valves to be disconnected without the use of tools or pulling pins. Right and left side wings (bar extensions) to relieve fore and aft. Pin replacement required when bar relieves.

Bar to adjust for positive or negative crown and also adjustment for pitch of bar to aim nozzle valves rearward. Sections to be interchangeable, right or left side.

AIR CONTROLS

Driver Operated Cab Control:

Distributor shall be equipped with air controls. Air for the controls shall be obtained from the air system on the truck chassis. The Distributor air system shall include its own air reservoir (using of truck chassis reservoir not acceptable) with check valve set at 80 pounds to prevent loss of air on truck chassis brakes in case lines are ruptured. System shall have its own air line oiling device and controls shall be electric, located in cab convenient to operator.

Air Operated:

1. All air solenoid valves and hydraulic solenoid valves are to be mounted to be accessible and serviceable from the ground without climbing on the machine.

TOOL BOX, FENDERS, ETC.

- a. Tool Box: All steel box with aluminum door, of sufficient size to store all necessary tools shall be furnished at side of the tank. Must have hinged door at side with flush-type lock. Door at top not acceptable.
- e. Fenders: Full dual flanged fenders (.080" aluminum) with rubber flaps. Use of skirting and flaps as a substitute for fenders not acceptable.

CONTROLS / INSTRUMENTATION

- a. Computer with in-cab operator controls which include:

- * Computer controlled switches for ten (minimum) preset application rates.
- * Distance/volume reset switch.
- * Application rate adjustment switch.
- * Display select switch.

In-cab instrumentation will include the following information on self-illuminated display(s):

- * Truck travel speed feet/minute or meters/minute.
- * Application rate in gallons/square yard or liters/square yard.

- * Pump rate in gallons/minute or liters/minute.
- * Resettable distance sprayed in feet or meters.
- * Resettable volume sprayed in gallons or liters.
- * Low tank level warning.
- * Warnings that travel speed and/or applications rate are beyond system capability.

- b. Radar type sensor to pickup ground speed.
- c. System control of 4-way asphalt valve.

ACCESSORIES

1. Hose trough for fill hose in lieu of hooks.
2. Thermometer well on side of tank.
3. Pencil thermometer.
4. Liquid sampling valve to be state approved for taking samples of liquid asphalt. Located in the rear tank head.
5. Hand Spray Attachment: Hand spray gun with cold handle and not less than 3 nozzles, with 25' of 3/4" flexible rubber hand spray hose.
6. Strainers: Asphalt system to be designed so all liquid asphalt pumped to the tank, from the tank or to the spray bar must pass through a screen.
7. Turn Signals: At rear of Distributor with truck supplying chassis control of signals.
8. Light: Federal Standard 108 requirements, including reflectors, clearance and identifications lights. Wiring in loom.
9. All necessary special tools for operation and maintenance of the Distributor shall be provided.
10. Painting: Distributor steel parts shall be painted Black Enamel.

WARRANTY

Minimum 12 month warranty of Distributor components.

With the bid shall be included manufacturer's descriptive literature and specifications on unit being bid, and a list of any exceptions to these specifications. Bidder will supply parts manual and complete operating instruction manual with bid if requested.

Bid shall include mounting on customer's chassis at factory and instruction of operator on maintenance and operation at factory.

OPTIONAL ITEMS

a. Tank and Accessories:

1. Manhole strainer, 6" only required when filling tank overhead storage.
2. Manhole strainer, 20" only required when filling tank overhead storage.
3. Dial Thermometer, 2".
4. Dial thermometer, 4".
5. Dual scale stick and dial (English and metric).
6. Additional cone type strainer in fill line in front of asphalt pump strainer.

b. Circulating System:

1. Front suction valve (in addition to rear) Electric/air cab control valve and line that allows asphalt pump to suck liquid from front of tank when going down hill, etc.
2. Power wash down system including electric fuel pump, 15' hose with gun.

c. Spray Bar:

Standard Spray Bar

1. Extra pair of folding bar joints (requires minimum 16' spraybar).
2. Standard bar extensions with 1' electric-air on-off, up to 24', per foot.
3. Powered bar latch with cab and rear controls.
4. Extra nozzles, each foot (3 nozzles).
5. Wet storage box with drain plug & hinged lid.
6. Bar end markers, per set. (Standard & Big Bars only)
7. Provisions for later addition of bar extensions with 1' controls, per foot.

d. Power System:

1. PTO off transmission in lieu of crankshaft drive.
2. Flywheel PTO. (chassis must be set-up with provisions)

e. Controls/Instrumentation:

1. Electric analog gauges in lieu of computer control with digital readout.
2. Liquid asphalt temperature digital readout in computer display window.
3. Additional display in rear control box.

f. Heating System:

Flues: (1) or (2) 8" x 6" U-type return flues running the full length of the tank. The inlet and exhaust opening of each individual set of flues shall be in the same horizontal plane, allowing heating with a minimum of material in the tank. (1-flue is standard)

Flues shall have stainless steel external stack.

1. No flue or burner in lieu of one flue with LPG burner and 52 gallon L.P. tank.
2. Two flues with LPG burners. Includes 52 gallon LP. tank, frame mounted.
3. One flue with high pressure fuel oil burner (includes auto ignition and outfire), in lieu of standard.
4. Two flues with high pressure fuel oil burner (includes auto ignition and outfire), in lieu of standard.
6. Outfire protection for LPG burners.
7. Automatic Controls: Thermostatic controls and out-fire protection for propane burners (pushbutton ignition).
8. Automatic Controls: Thermostatic controls and out-fire protection for fuel oil burners (pushbutton ignition)
9. Portable burner, kerosene or LPG (specify).
10. Electric Belly Heat – 220V or 440V, 3-phase, with thermostat to maintain heat (Specify which voltage & phase you want)
11. Chassis driven Hydraulic/electric generator for electric belly heat (item #10 above)

g. Miscellaneous Accessories:

1. 12' x 3" steel fill hose.(450 Deg) or 12' x 3" rubber fill hose (350 Deg)
2. Power right side 4-way mirror. (when truck design permits)
3. L.E.D. Lights, Sealed system.
4. Special paint.
5. Skid mounting.
6. Hand Spray hose reel.
7. Aluminum handspray gun with swivels (in lieu of standard)
8. 3" cam lock fittings.
9. Export Processing:
 - Skid mounted.
 - Truck mounted.
10. Back-up alarm
11. Wet storage box with drain plug and hinged lid.
12. Strobe light mounted on top of front of tank.

h. Severe service options:

1. High output asphalt pump hydraulic drive (4.57 pump, 2.1 motor). Recommended for hard to handle asphalt and 24' spray bar.
2. High output asphalt pump drive (6.1 CID hydraulic pump).
3. Hydraulic oil cooler
4. Manifold style 1' bar control valves.
5. Heated pump, sump and drop tubes from truck cooling system

ETNYRE

BLACK-TOPPER®

**Centennial Series
Asphalt Distributor**



Setting the Standard



- Improved control and less maintenance. Electronic asphalt pump speed control provides superior dependability and more precise control than manual systems.
- The application rate is automatically maintained even with variations in truck speed at any spray width.
- One person operation. All spraying functions can be controlled from the truck cab.
- Duplicate controls for stationary functions are located at the rear of the distributor.
- Application is precise. There is no by-pass valve in the circulating system. Material that goes through the pump goes through the spray nozzles.
- Spray bar is fully balanced when spraying for unbeatable accuracy.
- Balanced, dual feed asphalt flow while spraying insures uniform application across the full bar.
- Custom built tank sizes.
- Designed to meet federal regulations for hot products.



Clean, uncomplicated design exclusive to Etnyre

Dished and flanged surge plates and heads are double welded to tank shell for extra strength and durability. Full box saddle type bolsters evenly distribute stresses and allow for thermal expansion.

Proven Etnyre 400 G.P.M asphalt pump designed and built by Etnyre specifically for handling asphalt and asphalt emulsions.

Change spray width from the cab. An available spray bar control package features individual cab controls for each one foot section of spray bar.

Self flushing system cleans the entire compact, easy to clean circulating system with a minimum amount of flushing oil.

Fuel Oil or LPG Burners



Radar speed sensing provides precise measurement of ground speed and distance.

Better circulation, faster heating, faster starts and improved handling of special asphalts with Etnyre's large cross-section, "obstructionless" spray bar. Tapered, self-draining valve design leaves no asphalt slug to clog the valve.

Exclusive Vacu-Flo suck back system clears asphalt from the lowest point in the system without reversing the asphalt pump or back flushing the suction screen.

Safe, solid and dependable all pipe circulating system delivers material efficiently to the spray bar. No flexible steel or rubber lines. Leak free, machined ball joints with O-ring seals allow freedom of movement and reduce maintenance.

Proven performance – unbeatable accuracy



**The total package – capable and dependable,
the Etnyre Centennial Series asphalt distributor
is built to stay solidly on the job year after year.**



**FULL
CAB CONTROL**



**SOLID PIPE
CIRCULATING SYSTEM**



**FASTER HEATING
FASTER STARTS**

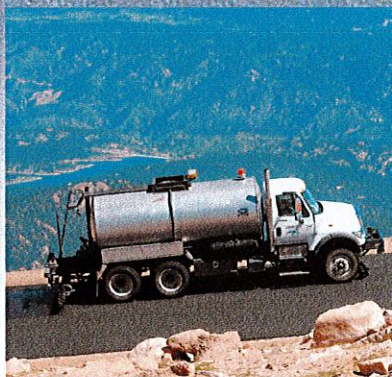
Etnyre knows asphalt



Established in 1898, we grew up with the industry. Etnyre dependability, innovation, and dedication to our customers earned our reputation as "standard of the industry".



**PRECISE
CONTROL**



**SUPERIOR
DEPENDABILITY**



**CUSTOM BUILT
TANK SIZES**

Time saving performance

Combining individual spray bar controls with the application rate computer provides time saving variable width capabilities with the flick of a switch from the cab.



Control panel with computerized application rate control and spray controlled in 1' increments.



Rear control panel (shown with optional display).



Computer screen displays information simultaneously

Automatically maintain the pre-set application rate

- Change speed and/or adjust spray width using control panel switches and the control automatically maintains the pre-set application rate.
- A built-in self diagnostic program monitors the control circuits.

Productivity is maximized with computerized application rate and in-cab spray bar controls

- The Etnyre computer automatically matches pump output to distributor speed. Enter the desired application rate and the computer maintains that rate regardless of distributor speed, bar width or transmission gear changes during operation.
- No switching between displays for information. The computer screen displays application rate, gallons per minute and feet traveled simultaneously on one screen.
- Store ten different application rates in memory and recall them with the push of a button.
- The pumping rate can be adjusted for loading and circulating without changing the desired spray or application rates.



Variable Width Sliding Spray Bar

Available as optional equipment



- Cab control.
- Infinitely variable bar widths.
- 4" width controls.
- No excess bar beyond shot width.
- Solid pipe ... no flexible asphalt hoses.
- Side shift capabilities.
- Up to 24' wide shots. Available in 18' or 24' configurations.





The standard of the industry for more than 100 years.

For additional information on the Etnyre Centennial series asphalt distributors, request the following information:

- A-101--- Black-Topper Centennial Features
- A-142--- Designing A Distributor Booklet
- V-101--- Etnyre Black-Toppers Video

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E. D. Etnyre & Co., whose policy is one of continuous improvement, reserves the right to change specifications without notice. Photos and illustrations contain standard and optional equipment.



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AL

Attn: JOHN EDWARDS

Attn:

Attn:

Work Phone:

Work Phone:

Cell Phone:

Cell Phone:

Email: jedwards@cowin.com

Email:

Email:

Series: DISTRIBUTOR

Item	Description	MSRP
MODEL	CENTENNIAL	\$0.00
TANK SIZE	2,000 GALLONS	\$105,100.00
TANK CODE	MEETS DOT 49CFR173.247	\$0.00
FIBERGLASS INSULATION 2"	.040" ALUMINUM JACKETING	\$0.00
MANHOLE 20" WITH INTERNAL OVERFLOW	NON-RELIEVING	\$0.00
SAMPLE VALVE	LOCATED IN REAR HEAD	\$0.00
LADDER	WALKWAY TO MANHOLE 1	\$0.00
TANK GAUGE	FRONT AND REAR, 50 GALLON INCREMENTS	\$0.00
THERMOMETER	2" DIAL	\$0.00
CIRCULATION SYSTEM	400 GPM PUMP	\$0.00
VALVES/CONTROLS	4-WAY ASPHALT VALVE AND SUCKBACK VALVES (WITH TOUCH PAD IN BOX AT REAR)	\$0.00
SELF FLUSHING SYSTEM	INCLUDES FUEL OIL TANK AND LINE	\$0.00
POWER WASHDOWN SYSTEM	W/ HOSE & WAND	\$600.00
SPRAY BAR - CAB CONTROL	12' BAR, 1' ON/OFF CONTROL (P/N 3351009 NOZZLES)	\$0.00
SPRAY BAR EXTENSIONS	1' W/ELECTRIC-AIR ON/OFF (16' TOTAL BAR LENGTH) 4	\$2,080.00
SPRAY BAR - CAB CONTROL	POWER SHIFT, LIFT AND WING FOLD	\$0.00
POWERED BAR LATCH	CONTROL AT REAR	\$0.00
HYDROSTATIC DRIVE	P.T.O. OFF TRANSMISSION	\$700.00
CONTROLS/INSTRUMENTATION	CONTROLLED BY BT-1 COMPUTER WITH FRONT AND REAR DISPLAYS	\$0.00
TOOL BOX	SIDE OPENING WITH FLUSH-TYPE LOCK	\$0.00
HEATING SYSTEM	(2) FLUES, (2) BURNERS WITH DIGITAL TEMPERATURE READOUT, THERMOSTATICALLY CONTROLLED SHUT DOWN, OUTFIRE PROTECTION, TRAVEL LOCK OUT	\$0.00
HEATING SYSTEM	(2) FLUES, (2) LPG BURNERS W/ FRAME MTD TANK	\$10.00
PAINT	ALL STEEL PARTS BLACK \$0.0	\$0.00
HANDSPRAY ASSEMBLY	WITH 25' RUBBER HOSE	\$0.00
L.E.D. STROBE LIGHTS	FOUR CORNER MOUNT	\$600.00
3" CAMLOCK FITTINGS	TO CONNECT CUST LOAD HOSE TO FILL LINE	\$250.00
12' X 3" ULTRA-FLEX STEEL FILL HOSE	OPERATION, MAINTENANCE, SAFE+A44:J47TY & PARTS	\$650.00
WET STORAGE BOX	W/HINGED COVER & DRAIN PLUG	\$300.00
LIGHTING SYSTEM	L.E.D. SEALED	\$0.00
ONE SET MANUALS	OPERATION, MAINTENANCE, SAFETY & PARTS	\$0.00
2021 Kenworth T370 Truck Chassis		\$93,726.00
Total		\$204,016.00



ESTABLISHED 1898
INCORPORATED 1917

E. D. ETNYRE & CO., Oregon, Illinois 61061-9778

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WARRANTY

E. D. Etnyre & Co. warrants to the original Purchaser, it's new product to be free from defects in material and workmanship for a period of twelve (12) months after date of delivery to original Purchaser. The obligation of the Company is limited to repairing or replacing any defective part returned to the Company and will not be responsible for consequential damages or any further loss by reason of such defect.

The company excludes all implied warranties of merchantability and fitness for a particular purpose. There are no warranties, express or implied, which extend beyond the description of the goods contained in this contract.

This warranty does not obligate the Company to bear the cost of machine transportation in connection with the replacement or repair of defective parts, nor does it guarantee repair or replacement of any parts on which unauthorized repairs or alterations have been made or for components not manufactured by the Company except to the extent of the warranty given by the original Manufacturer.

This warranty does not apply to:

- (1) Normal startup services, normal maintenance services or adjustments usually performed by the selling dealer, factory service representative or customer personnel.
- (2) Any product manufactured by E. D. Etnyre & Co. purchased or subjected to rental use.
- (3) Any product or part thereof which shows improper operation, improper maintenance, abuse, neglect, damage or modification after shipment from factory.
- (4) Any product or part thereof damaged or lost in shipment. Inspection for damage should be made before acceptance or signing any delivery documents releasing responsibility of the delivering carrier.

This warranty and foregoing obligations are in lieu of all other obligations and liabilities including negligence and all warranties of merchantability or otherwise, express or implied in fact or by law.

As part of the agreement in the specifications, Cowin Equipment commits to a maximum response time of 36 hours once we are notified of a warrantible repair.