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EQUIPMENT SPECIFICATIONS CRAFCO AIRSTREAM T-M

JANUARY 2004

MINIMUM SPECIFICATIONS FOR A TRUCK MOUNTED PATCHING MACHINE

It is the purpose of these specifications to describe a new self-contained, truck mounted spray-injection patching machine. All parts not specifically mentioned which are necessary to provide a complete unit or which are normally furnished as standard equipment, shall be furnished by the successful bidder and shall conform in strength, quality of material, and workmanship to what is provided by the industry in general. The equipment bid herein will be the manufacturer's latest current production model.

SPECIFICATIONS

WORKING AREA

The following specifications cover a truck mounted spray-injection patching machine designed for street and road maintenance. The unit shall: 1) use compressed air to clean cracks and work area surfaces, 2) spray heated emulsion over area to provide tack coat, 3) apply fully coated patch material mixture and 4) provide adequate control and workability to ensure that application of material is at grade level and proper patch density is achieved. Weight shall be approximately 6,600 LB with dimensions of 190" long, 84" wide and 92" high. Unit must be capable of operating in temperatures down to 10°F.

Yes No

Sh	nall be minimum 1,000 square feet
Ot	ther
	Shall be a tri-fold articulating boom with fully counterweighted arm
b.	Radius: Minimum 19 feet- 1,000-sq. ft. working area
c.	Vertical Stroke: 5 feet above to 2 feet below pavement level
d.	Counterweighted Arm: To be fully self supporting, capable of remaining in position anywhere within the vertical stroke without any operator pressure.
e.	Operator Controls: Boom mounted to contain asphalt, aggregate, throttle, and horn controls and air

f.	Operating Position: Shall be minimum of 6 feet from material spray.		
g.	All emulsion lines are fully insulated from the asphalt emulsion tank to the spray nozzle.		
04			
—	her		
DI	SCHARGE NOZZLE AND COATING SYSTEM Yes No		
a.	Atomized asphalt spray shall be capable of 100% coating of the aggregate prior to discharge.		
b.	Coating system shall have 90 to 150 PSI pressure and internal spray ring at the nozzle to create a high pressure spray bath to achieve full coating.		
c.	Shall have a machined aluminum nozzle and internal spray ring with ten evenly spaced emulsion openings for full and even coating. Nozzle to be tapered to accelerate material flow.		
d.	Unit must be capable of placing up to 5.25 tons of patching mixture per hour.		
Otl	her		
т.	ANKS Yes No		
a.	Shall have a minimum 250 gallon pressurized, ASME coded Vessel) completely insulated asphalt emulsion tank with steel cover and safety pressure relief valve.		
b.	Emulsion Tank: To be tested to 300 PSI with a coded ASME approved working pressure of 200 PSI for operator safety.		
c.	Insulation: Emulsion storage tank shall have minimum R-Value 19 insulation		
d.	Emulsion, flush and tack wand controls to be rear mounted for operator convenience		
e.	Emulsion must be heated with thermostatically controlled 6,000-watt electric heating element positioned inside tank.		

powered vibrator

f.	Heating element housing shall be in an ASME pressure tested-tube. Heating element shall not be in direct contact with the asphalt emulsion to allow for heating element removal without draining tank and to	Other		
	prevent charring of asphalt.			
g.	Must have minimum 30 gallon pressurized flush tank.	BLOWER Yes No		
۶.	——————————————————————————————————————	a. Maximum output 546-CFM		
h.	Flush Tank: To be tested to 300 PSI with a coded ASME approved working pressure of 200 PSI for safety.	b. Unit shall have a high volume lobe type blower driven from the engine	; belt	
	·	c. Unit must be equipped with heavy-duty silence	r	
i.	Emulsion to be pressure fed to nozzle eliminating the use of a mechanical feed pump	Other		
j.	Emulsion tank and lines shall be heated with transfer fluid circulated directly from diesel engine.	ENGINE Yes No		
		a. Shall be minimum 80 HP water-cooled diesel		
Otl	ner	- -		
CC	OMPRESSOR Yes No	b. Unit shall be equipped with 1000 CCA battery		
a.	Unit shall contain minimum 13.2-CFM direct drive with governor regulator control and capabilities to			
	piggyback a hydraulic pump	FRAME Yes No		
b.	Maximum pressure 150 PSI			
c.	Compressor shall be able to pressurize ½ full emulsion tank from 0 to 100 psi in no more than 11	a. Shall be heavy duty reinforced 8" I beam wit welded cross bracing.	h fully	
	minutes.	 Shall have brake lights, tail lights, and dire lights with connections to meet FMVSS108. 	ctiona	
Otl	ner			
AG	GGREGATE HOPPER Yes No	c. Unit shall come equipped with directional safety arrow board.	7	
a.	Minimum 6.5 cubic yard capacity, centered over rear axle, gravity feed with no mechanical assistance.	Other		
h	Draumatic advator vanturi to be man mounted fully	FILTERS Yes No		
b.	Pneumatic eductor venturi to be rear-mounted, fully machined from solid stock steel. Discharge to be tapered to reduce air turbulence and wear. Venturi to convey aggregate from aggregate hopper through	a. Engine: Dry type		
		b. Blower: Dry type		
	emulsion spray bath and out tapered nozzle with no moving parts.	Other		
c.	Aggregate flow controlled by single air actuated slide plate. The slide plate control switch shall be located on articulated boom at the operator's finger tips.	HOSES Yes No		
d.	Unit shall have adequate screening installed to prevent large aggregate or debris from entering the	a. 3 ½" inch material hose shall be neoprene that resist curling and twisting, adequately reinforced an rubber lined.		
	venturi.	b. Material hose length: Shall be16 feet in length foot metal extension.	with 4	

c. Emulsion: 3/8 inch ID plastic,	32 feet	in length
d. Emulsion lines heated with tr directly from diesel engine.	ransfer f	luid circulated
e. All pressure hoses shall have hi	gh-press	sure fittings.
Other		
CRACK FILLING ATTACHME	ENT (OF Yes	PTIONAL) No
Unit shall come equipped with 25-fretractable reel with 4-foot hand wa		lsion hose on
Other		
COLOR	Yes	No
Shall be Nason two part urethane Oppont Corlar Epoxy-934S and the Corlar - 936S		
Other		
OTHER OPTIONS	Yes	No
a. Strobe light kit		
b. Water/fuel separator		
b. Water/fuel separatorc. Electric throttle		
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MISCELLANEOUS

Patching machine to be capable of being mounted on minimum 144" cab to axle truck and designed to equally load truck chassis from full to empty capacities. Truck fenders, mud flaps and miscellaneous mounting hardware to be supplied by the truck supplier. Bidder or customer shall furnish with bid a minimum of six governmental references for whom bidder has supplied equipment meeting the specifications listed in this bid package. Names of the agency, contact name and telephone number must be included with the bid for all six references listed. The successful bidder shall furnish at the time of delivery a copy of the parts and service manual. The

the right to inspect the equipment tendered by the

successful bidder to ensure that it conforms to the specifications herein before mentioned above.