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EQUIPMENT SPECIFICATIONS CRAFCO MAGNUM

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MINIMUM SPECIFICATIONS FOR A HIGH PERFORMANCE TRAILER MOUNTED PATCHING MACHINE

It is the purpose of these specifications to describe a new self-contained, trailer 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

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The following specifications cover a high performance trailer 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 7,400 LB with dimensions of 173" long, 96" wide and 93" high. Unit shall be capable of operating at temperatures down to 10°F.

to 10°F.		
WORKING AREA	Yes	No
Shall be minimum 1,275 square	feet	
Other		
ВООМ	Yes	No
a. Shall be a low-effort, rear mount with fully counterweighted arm.		
b. Radius: Minimum 20 feet, 10 in	ches	
c. Vertical Stroke: 5 feet above to level	to 2 feet be	elow pavement
d. Counterweighted Arm: To capable of remaining in pos vertical stroke without any c	ition anyw	where within the
e. Operator Controls: Boo asphalt, aggregate, throttle	e, hydrau	

f.	Operating Position: Shall be minimum of 6 feet from material spray
g.	All emulsion lines shall be heated by circulating transfer fluid and fully insulated from the asphalt emulsion tank to the spray nozzle.
Oth	ner
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 100 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 7 tons of patching mixture per hour.
Oth	ner
TA	NKS 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 and certified for 650°F.
b.	Emulsion Tank: To be tested to 300 PSI with a coded ASME approved working pressure of 200 PSI.
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 elements positioned inside tank.	d.	Aggregate receiver must contain a 140 inch screw to deliver aggregate to the rear mounted power flow, positive air lock.				
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	e.	Aggregate screw must be h hardening alloy.	ard surface	ed with 175	50	
	heating element removal without draining tank and to prevent charring of asphalt.	f.	Airlock must be rear mount				
g.	Must have minimum 30 gallon pressurized flush tank. ————————————————————————————————————	g.	g. Aggregate feed screw shall be hydraulically powered and operated by remote switch on operator's boom. Patching machine hydraulic system must operate independently of truck hydraulics				
h.	Flush Tank: To be tested to 300 PSI with a coded ASME approved working pressure of 200 PSI for safety.	h.	h. Aggregate receiver must have screen and safety switch to shut down machine when screen is removed or ajar.				
i.	Emulsion to be pressure fed to nozzle eliminating the use of a mechanical feed pump	i.	 Unit must have pressure compensated, dual flow control valve with built-in solenoid with calibrated knobs for 				
j.	Emulsion tank and lines shall be heated with transfer fluid circulated directly from diesel engine.	Otl	regulating aggregate flow.				
		Ou					
k.	Emulsion tank shall have 8-inch easy access lid, and 2-inch bottom discharge gate valve for clean out.	BL	OWER	Yes	No		
		a.	Maximum output 546-CFM				
Otl	ner	b.	Unit shall have a high volum	ie lobe type	e blower		
CC	OMPRESSOR Yes No						
a.	Unit shall contain minimum 13.2 CFM direct drive	c.	Unit must be equipped with	heavy-duty	silencer		
а.	with governor regulator control and have capabilities to piggyback a hydraulic pump	Otł	ner				
b.	Maximum pressure 150 PSI	Н	DRAULIC SYSTEM	Yes	No		
c.	Compressor shall be able to pressurize ½ full emulsion tank from 0 to 100 psi in no more than 11 minutes.	a. Unit shall have minimum 17 GPM vane pump.					
Otl	ner	b.	Hydraulic oil reservoir shal	l be minim	um 22 gal	lons.	
AG	GGREGATE DELIVERY SYSTEM Yes No	c.	Hydraulic control valve is a and tailgate auger forw operator's console.				
a.	Hydraulic powered tailgate feeder- 68 inch screw mounted in adjustable tailgate. Gravity flow aggregate feed system not acceptable.	EN	GINE	Yes	 No		
b.	Aggregate receiver hopper- shall be minimum 1440 square inches of receiving area	a.	Shall be minimum 80 HP woperated	vater cooled	d diesel		
c.	Must be capable of consistently feeding aggregate all times when truck is positioned on curves, corners and hills.	b.	Unit shall be equipped with	1000 CCA	A battery		

	ASSIS	Yes	No	COLOR	Yes	No	
a.	Shall be heavy duty construction, interlocking, an stress-free carbon steel wistrength.	d with	fully welded	Shall be Nason two part urethane Crafco Red, primer is a Dupont Corlar Epoxy-934S and the activator is Dupont Corlar - 936S			
b.	Shall have brake lights, tail lights with connections to med			Other			
c.	Unit shall have tandem 12,000 axles.	——) LB capa	acity torflex	CRACK FILLING ATTACHMENT (OPTIONAL) Yes No			
d.	Tires shall be ST 225/75 R15	load rang	ge D.	Unit shall come equipped with 25 retractable reel with 4-foot hand mounted on unit.			
e.	Unit must have electric brakes	S		Other			
f.	Unit shall have adjustable 10, retractable jack-stand.	000 LB p	ointle hitch and	OTHER OPTIONS	Yes	No	
g.	Unit shall have adjustable hitcinches from ground level in 2			a. Strobe light kit			
Oth	er			b. Water/fuel separatorc. Arrow board and control			
	TERS			d. Electric throttle			
г 11 а.	Engine: Dry type	Yes	No	MISCELLANEOUS The successful bidder shall furnis	h at the	time of delivery	
b.	Blower: Dry type		_	a copy of the parts and servic required to submit detailed descr covering the unit being bid. The	e manu riptive c	ıal. Bidders are current literature	
Oth	er			literature will be cause for reje	ection o		
но	SES	Yes	No	right to inspect the equipment ter bidder to ensure that it conforn herein before mentioned above.	ndered b	y the successful	
a.	Material hose shall be 3 inc that resists curling and treinforced and rubber lined.						
b.	Material hose length: Shall be metal extension.	20 feet i	in length with				
c.	Emulsion: 3/8 inch ID plastic	25 feet	in length				
d.	All pressure hoses shall have	high-pres	ssure fittings.				
e.	Unit shall have 8-foot quick f	lush hose	·. 				

Other____

Other___