



**SPECIFICATIONS FOR CRAFCO 21300H
MODEL 30 PAVEMENT ROUTER WITH
CLUTCH**

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The purpose of these specifications is to describe a Pavement Router with Clutch. This unit must be of the manufacturer's current production. This unit shall be capable of routing while accurately following random cracks in asphalt or concrete surfaces at an estimated speed of 1,500 linear feet (500 meters) per hour.

	<u>Comply</u>	<u>Does Not Comply</u>
1. FRAME		
A. There shall be a stub axle attached on each side of the frame assembly in line with the cutter head.	_____	_____
B. Attached to each stub axle shall be a pneumatic tire with tapered bearing. (Total tires on machine is 2)	_____	_____
C. The entire assembly of engine, cutter head, cutter head housing and all other part assemblies shall be mounted on a heavy steel frame, electric welded through 100% of the metal thickness at each joint for maximum strength and rigidity.	_____	_____
2. ENGINE		
A. The engine shall be mounted on a hinged saddle to permit belt tension.	_____	_____
B. The cutter shall be powered by a gasoline engine with hour meter. This engine shall be capable of producing 24.9 HP (18.6 kW) per SAE J1349 or 27 HP (20.1 kW) per SAE J1940 / J1995 at 3600 RPM.	_____	_____
C. The engine shall have a full flow oil filter and oil cooler.	_____	_____
D. A heavy duty air cleaner shall be installed on the engine.	_____	_____
3. CUTTER HEAD		
A. The cutter head shall be mounted on a drive shaft having a minimum diameter of 1¾ inch (4.4 cm) and is fastened with a minimum of two ½ inch (1.2 cm) hex head cap screws in conjunction with a minimum 3/8 inch (0.95 cm) x 4 inch (10.2 cm) key.	_____	_____
B. The cutter head drive shaft shall be mounted by means of two self-aligning ball bearings. The cutter head shall accommodate a minimum of six - eight tooth carbide tipped cutters.	_____	_____
	<u>Comply</u>	<u>Does Not Comply</u>

- C. By rearranging the spacers, the cut width can be varied from ½ inch (1.2 cm) to 2 inch (5.1 cm) wide. _____
- D. The cutter head shall be housed in a steel-housing capable of containing the cutter assembly and covering 80% of the total cutter assemblies surface area. _____
- E. The driving force from the engine to the cutter head shall be transmitted through a clutch and twin grooved sheaves and twin matched "V" belts covered with a removable metal guard ventilated to prevent upward suction of pavement debris. _____
- F. The cutter head and its protective housing shall be able to raise and lower a minimum of four inches by means of an electric lineal actuator operated by a fingertip control switch mounted on the operator handle. _____
- G. The cutter head and its protective housing shall be able to raise and lower a minimum of four inches by means of an electric lineal actuator operated by a fingertip control switch mounted on the operator handle. _____

4. CLUTCH

- A. An electric clutch shall be mounted on the engine in such a manner as to stop the cutter head on demand without stopping the engine. _____
- B. The clutch switch shall be located on the handle in order to facilitate easy access by the operator. _____

5. CARBIDE SKID PLATE

- A. A pavement router shall be equipped with a replaceable carbide skid plate mounted at the rear of the cutter head housing in order to facilitate stopping of the unit, controls speed and increases crack tracking accuracy. _____

6. BATTERY

- A. The unit shall be equipped with a 12-volt battery capable of starting the engine and operating the clutch and actuator. _____
- B. The battery shall also be housed in a fully enclosed box that is weather resistant and heavy duty. _____

7. FUEL TANK

- A. The unit shall be equipped with a 6 gallon (22.7 l) minimum size gasoline tank. _____
- B. The tank shall be safely strapped to the frame and shielded by means of a metal guard that protects the front and corners of the tank. _____

_____	_____
Comply	Does Not Comply

- C. The tank shall also be manufactured from unbreakable, shatterproof, nonmetallic materials.

8. CUTTERS

- A. The unit shall be supplied with pins, spacers and a complete set of wide hub carbide cutters.

9. TRAINING

- A. An authorized, factory-trained representative will be made available for a full day of “on the job” training at a facility designated by the bidding agency.

- B. At this training session a complete operational, mechanical and safety overview will occur. The CD manual and startup video will be viewed and discussed with all concerned personnel.

10. MANUALS

- A. An instruction manual containing warranty information, safety instructions, as well as an operation guide shall be provided.

- B. The instruction manual shall also contain a complete parts list with detailed service and maintenance instructions.

11. PARTS

- A. Bidders must show proof that a large stock of parts for the model of equipment upon which he is bidding is maintained at his facility.

12. WARRANTY

- A. The manufacturer shall warranty the equipment for no less than two years.

- B. A written manufacturer’s standard warranty policy shall be provided in the Operator’s Manual.

13. QUALIFICATIONS OF BIDDERS

- A. The bidder of this equipment must (1) meet the requirements of the specifications without material changes or modifications and (2) have been engaged in the manufacture of said equipment for at least forty-eight months.
