CF3002 - 12 Spike Carbide Flailing Cutter

12 spike ultra-premium grade, tungsten carbide flailing "Guarantee-it 300" cutters* for your scarifiers or traffic line removers. Select this cutter style when you require a cost-effective, consistent, long lasting removal finish. No cutter lasts as long or as effective.

SMITH 300 Cutter Drum Assemblies (SuperHeads), CF3002 Flail Cutters, Bushed Drums and Shafts were developed by SMITH to keep long-line truck operations moving at faster speeds thanks to fewer change-out delays and improved surface finishes than traditional CF3150 cutters.

Users report 8X savings and up to 2X faster removal speeds with 4X less frequent cutter drum change-outs over conventional Flail-it carbide cutters. We achieved this by increasing the body mass of our CF3002 forged steel cutter and the pin size of our ultra-premium grade tungsten carbide, users benefit with 4X greater service life with over 3X improved surface finish coverage vs traditional Flail-it cutters. Our bushed hardened drum assembly was expanded to accommodate the larger diameter case hardened plated shafts for CF3002 cutters. These innovations led to improved cutter performance of up to 300 hours when operating under normal stripe removal conditions.

Service life of up to 300 hours can be achieved when removing 60 mils stripes on new flat asphalt surfaces with a properly calibrated MRL truck in excellent working condition. Excellent working condition refers to a truck that produces minimal vibration with the drum box "soft-lowering mechanisms" operational and can float on uneven surfaces and lifted over joints. In addition, the controls of truck travel speed, head rotational direction and rpm as well as accurate cut depths and pitch angle settings (matched to the surface) are accurately managed.

Variables that reduce the 300 hour cutter and drum performance includes, (1) cutters plunging into the surface to plane off coatings instead of flailing striping on surfaces, (2) Up-cut vs Down-cut rotation, (3) Uneven surfaces with incorrect drum pitch angle set, (4) Travel speeds over 2mph, (5) RPM speeds over 1200, (6) Concrete or Asphalt over concrete surfaces, (7) Cut depths greater than 60 mils per pass, (8) Cutting through raised expansion joints, (9) Hard-drop Cutter-Drum-Box lowering mechanisms. Failure to control these variables will naturally reduce the service life of cutters and drums causing excessive wearing and possible breakage to all cutter drum components.

It is a best practice to rotate cutter drums from the front to the rear on a frequent basis depending upon road surface conditions and use. Any drums that are worn or required rework should immediately be removed from the truck and repaired or replaced with a new cutter drum assembly. Each drum should be stamped with the in-service date to include cutter box location with recorded hours recorded on a daily log for warranty purposes. If any of the above are not followed, the performance warranty will be voided.

SMITH considers a drum component failure when (a) 3 or more carbide pins are lost in a cutter and/or (b) when the cutter drum assembly breaks due to any causes other than drive shaft components, failure to replace cutter shafts prior to wearing out end plate shaft holes, normal cutter shaft wear and proper usage that cannot be repaired by preventative welding. Weld fractures that can be repaired do not constitute a failure. (c) Above conditions occur while operator routinely rotates the drums from up-cut to down-cut, front to middle to rear boxes on a frequent basis depending upon road surface conditions and use.

Should cutter life not be reached when operating under normal conditions, SMITH offers a prorated credit for the percentage of cutter life not realized against cutter future orders provided details of the failures are logged and reported to SMITH Representative within 7-days.

The following is table outlining the recommended service hours for warranty purposes.

CF3001, CF3002 Cutters Service Life Schedule

Hours	Surface*	Cut Depth	RPM	Rotation	Speed	Flail/Plunge	MRL Truck	Joints
150-300	Asphalt	60 mils	1200	Downcut	2mph	Flail	Good	Lifted
75-150	Asphalt	60 mils	1200	UpCut	2mph	Flail	Good	Lifted
50-75	Asphalt	60 mils	1200	UpCut	2mph	Plunge	Good	Lifted

*Reduce the above numbers in half when operating on concrete surfaces or asphalt overlay concrete surfaces.