

BROWN

BEAR

SERIES 24 HORIZONTAL AERATOR ATTACHMENT

RUGGED

RELIABLE

PROVEN



R24C Paddle Aerator



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BIG PERFORMANCE

SIMPLE PROCEDURE: The aerator works directly into the bed of material, for alleyways are not required when using the Brown aerator, so there is a good material from the bottom up and to the side, assuring complete mixing and a material mover has been proven with over 30 years experience in plow wearplates or paddles, both of which are easily replaced.



R24B With Paddle Aerator



R24C With Continuous Aerator



SC24E, Continuous, Gas



SC24D, Paddle, Diesel



DEWATERING The horizontal aerator provides an economical mechanical solution for dewatering wastewater sludge in beds. The rapid handling rate exposes 100% of the material to oxygen so that evaporation is not impeded. Sludge is rapidly dried to a 50-60% solids level for ease of handling and disposal. Aerating the sludge regularly reduces noxious odors by

keeping sludge aerobic. Frequent aeration passes of the sludge drying beds can also help eliminate flies. Flies use the cracks in the crusted sludge surface for breeding and laying eggs. The aerator breaks up and mixes the crusted sludge, eliminating the cracked surface and killing the fly eggs and larvae. The unit can be used with anaerobic or aerobic sludge, starting at 2 or 3% solids content. Volume reduction of magnitudes as great as 16 to 1 are possible through evaporation of water. The aerator can be used on sand, asphalt or concrete bottom drying beds, increasing bed turnover rates. But wastewater sludge isn't the only dewatering application. Several Brown Bear units are being used to dewater lime sludge used in potable water treatment. For cities drawing potable water from lakes or rivers, lime is used in the filtration process. Disposal of the spent lime sometimes is as big a problem as wastewater sludge. Drying this lime sludge with the Brown Bear provides the same benefits of reduced transportation costs and produce an easily spread lime for agricultural use.

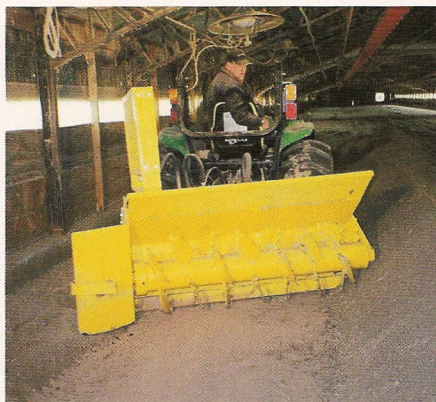
BIOREMEDIATION Similar to composting but usually associated with soil contaminated with a hazardous waste. The aerator assures maximum aeration, thorough blending and rapid decomposition of the contaminant. The aerator is designed to work "insitu," thus saving the cost of excavation and trucking. By windrowing the material, drainage is improved so that periodic rains do not saturate the



contaminated soil creating run off or leaching problems and retarding the remediation process. Further, windrowing creates a more ideal climate for the bacteria since the windrow will retain heat. Typically this work has been done with farm implements, either discs or chisel plows. The Brown Bear aerator machines are capable of working greater depths of material and not as readily impaired by too much moisture in the soil.

E ... SMALL PRICE

forming its own windrow. Windrows can be formed from piles of nearly any size. Great reduction in space requirements. The aerator's reverse rotation works the material. **LOW MAINTENANCE:** The aerator is a simple design. the principle as practical application. The aerator is hydraulically driven and equipped with patented

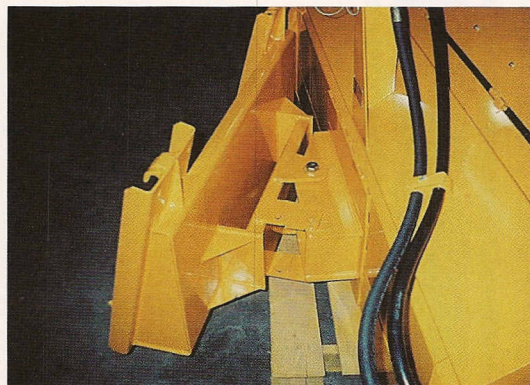


COMPOSTING is rapidly becoming the process of choice for handling organic waste material. Composting reduces volume, produces a commodity with some value and reduces the amount of material going to landfills, thus meeting mandatory reduction regulations. Windrow composting appears to be the most economical way of handling large volumes.

The aerator is an effective and economical means of aerating or turning windrows. It is also a rapid way of mixing dissimilar material prior to windrowing. The aerator offers several advantages when turning windrows that other machines do not. It is the only turner that builds it's own windrow initially. Since it works directly in line with the windrowed material no alleyways are required, thus making better utilization of available space. Turning windrows with the Brown Bear aerator is a one pass operation as opposed to most other attachments that work only half the windrow width at a time. The aerator also assures the operator that the complete windrow is "turned". Many flail type attachments are unable to reach the bottom 2 to 3 inches of material, thereby increasing the chances of anaerobic pockets which cause noxious odor problems. Brown Bear aerators are being successfully operated in composting operations for wastewater sludge, yardwaste and animal manure. Composting wastewater sludge helps the city meet EPA requirements for pathogen kill. Provided no metals problem exists, composted sludge can be used in a wide variety of final disposal methods. Yard waste, which is banned from landfills in many states, can be turned into a valuable soil amendment. Although composted yard waste has little nutritional value, it does add humus to the soil which aids in moisture retention and helps relieve compaction. Animal manure has long been regarded as a fertilizer in agricultural fields.



Composting the manure tends to stabilize the nutrients making them more readily available to crops. Composted manure is easier to handle and the resulting volume reduction from composting reduces spreading costs.



MANUAL ANGLE, standard on PTO models, adds up to 30% more throughput capacity.



MODEL HYDPTO 24 with 3 pt. Mount driven hydraulically by a PTO shaft mounted pump. Oil reservoir integrated into backshield.



MODEL HYDPTOLM 24 with loader mount driven by a PTO shaft mounted pump. Oil reservoir is 3 pt. mounted and has oil cooler.

SPECIFICATIONS

MODEL	Aerator Style	Size (Swath Width)	Drive System	Hyd. Motor Displacement	Hyd. Requirement GPM / PSI	Hyd. Requirement LPM / BAR	Auger Speed(RPM)	Tilt	Angle	Recommended Carrier	Weight (Approx.)
R24C	Continuous or Paddle	72" or 84" 1829 or 2134 mm	Carrier Auxiliary Hyd. Circuit	22.8 in ³	17-25 2500	64-91 173	172-253	Optional	Optional	Skid Steer	930-1030 lbs 422-478 kg.
MDR24	Continuous or Paddle	72" or 84" 1829 or 2134 mm	Carrier Auxiliary Hyd. Circuit	22.8 in ³ 28.3 in ³ 32.7 in ³	17-25 3000 22-29 3000 27-35 3000	64-91 228 83-110 228 102-134 228	172-253 179-236 190-247	Optional	Optional	Skid Steer w/ High Flow	1000-1200 lbs 453-544 kg.
HDR24	Continuous or Paddle	72" or 84" 1829 or 2134 mm	Carrier Auxiliary Hyd. Circuit	22.8 in ³ 28.3 in ³ 32.7 in ³	17-25 3000 22-29 3000 27-35 3000	64-91 228 83-110 228 102-134 228	172-253 179-236 190-247	Optional	Optional	Skid Steer w/ High Flow	1100-1300 lbs 499-590 kg.
HYDPTO 24 For 3 pt. Hitch Mount	Continuous or Paddle	72" or 84" 1829 or 2134 mm	Carrier 540 PTO	28.3 in ³	Standard	Standard	242 @ 540 PTO RPM	Optional	Optional	Small Tractors w/ Cat. 1- 3 pt. Hitch Max. 60 PTO HP 45 kw & 6000 lb. 2722 kg of Oper. wt.	1300-2000 lbs 816-907 kg.
HYDPTO LM24 For Loader Mount with Remote Hyd. Reservoir	Continuous or Paddle	72" or 84" 1829 or 2134 mm	Carrier 540 PTO	28.3 in ³	Standard	Standard	242 @ 540 PTO RPM	Optional	Optional	Small Tractors w/Loader Max. 60 PTO HP 45 kw & 6000 lb. 2722 kg of Oper. wt.	1900-2200 lbs 862-998 kg.

Three Brown stripes . . . the sign of quality

