



# WETLAND

## EQUIPMENT COMPANY

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This piece of equipment (Amphibious Excavator) is 100 percent amphibious.

A reserve buoyancy factor of 20 percent is inherent in all of the undercarriages.

The conventional counterweight was deleted from the excavator and replaced with a combination auxiliary fuel tank counterweight in addition to standard excavator fuel tank. The hidden counterweight is designed to bring the "upper" back into balance. Fuel is not considered as part of the counterweight.

The walkways around the excavator are designed for ease of access to service and the keep from walking on muddy tracks. The catwalks are designed with fully enclosed handrails

The pontoons are like no others due to patented features that do make a worthwhile difference. Once mounted to the upper, they will turn 360 degrees in place, without moving forward or back. This really helps when working in tight areas. This is due to the tapered bottoms

They go in and come out of canals and creeks without doing damage to either bank and without having to use the bucket to pull when climbing. They can also lift themselves on top of the mud. Both are due to the long rake (taper) on the front of the pontoon

Other designs required periodic removal of chain links and cleats. Once the track chain began to wear and stretch, because you had no more adjustment only 8". It was necessary to shorten the chains so adjustments could be retracted and readjusted to the correct chain tension. Still to this day competitors use this type of track chain adjustment. Our patented process allows the operator to simply add tension throughout the life of the chain. This saves many hours of downtime in the field and the customers love it (less time in the field). All service and chain adjustments can be done while on the pontoons, and with one wrench. No need to stand in the marsh or mud. This is due to tube style Extra-long chain adjusters with 18" at each corner.

Bearing/bushing mounts were mounted horizontally in the early days, putting unnecessary force on the ear (bolt hole) of the bearing its, weakest point, causing premature wear. We now mount the bearing vertically to keep all the stress in the center of the bearing where it is designed to have that stress.

We use bearings they create less stress and friction, than bushings, on the complete drive train.

We custom design the drive train (Tracking Drive System) to be used on an Amphibious Excavator. We DO NOT use and parts of the conventional excavator drive system. They are simply too small and were not designed to be worked in the conditions where our machines thrive.

The recessed track chain system and recessed UHMW track supports system that are unlike anything else on the market. Recessed chains offer numerous advantages and yield multiple benefits. By recessing the runners (channels) into the pontoon top and bottom, side play of the chain and track is virtually eliminated and so is the possibility of losing (Jumping) track. An added benefit over conventional surface running chain and tracks is the ability to hold the track cleats (grousers) closer to the pontoon bottom. This eliminates bending of the track cleats and keeps all but very small debris from getting between the cleats and the bottom surface of the pontoon. The chains are also recessed on the pontoon tops. This helps to preclude mud packing and mud build up on pontoon tops and eliminates carrying the extra weight of the mud, which can be as much as 10,000 pounds and 3-inches thick. Conventional surface runners allow room for larger debris to enter the gap and cause jamming, breaking chains and cleats.

In the course of each work day, the entire weight of the whole machine can be repeatedly concentrated on a one-square-foot area of the pontoon bottom. Recessing the track support system dictates and yields additional strength and inherent rigidity to the bottom structure where it should be the strongest. The pontoons are designed to tolerate these rigors and strains without failure or bottom bending.

Our UHMW track supports are also recessed and travel inside the channel. This helps in several ways. (1.) Eliminates side play of the chain and helps it last longer. (2.) Virtually eliminates the possibility of losing (Jumping) track. (3.) Helps reduce the cleat from bending.

In the construction phase, everything is cut out prior to any welding. Each piece fits perfectly, due to the drafting and engineering, any part can be reproduced. No Steel is heated; instead, they are computer rolled or bent to fit exactly before they are welded into place, thereby retaining temper and abrasive resistance. This should be very important considerations for prospective clients knowing that what they are purchasing is not being built in someone's back yard.

Due to their lightweight, low ground pressure and turning ability, the amphibious excavator is welcome in environmentally sensitive areas where surface damage is prohibited. Our machines work on these sites performing remediation duties all over the U.S. and abroad.

The metal preparation and painting processes are equaled in only the very best paint shops. The shop blasts and applies zinc, then a compatible paint primer, then a Poly color coat, and last a semi-gloss topcoat. The finish coats are comparable with the quality found on the excavators and marine type equipment.

#### CAT 323F LR

Cleanest fuel emissions available Tier 4 Final

Diesel Exhaust Fluid (DEF)

10% less fuel usage then previous models

B20 Biodiesel Compatible

Longer Reach 51' 7"

Faster Machine Servicing: Filters locater together in one compartment

Rear view camera

Lights stay on 90 seconds after machine is stopped

Link Technology: Lets owner monitor work progress, usage, upcoming service, and repair codes

Cat Grade Assist: reach required grade 45% faster with one button on/off

Cat Grade control depth and slope: 2D bucket tip elevation guidance with built in alerts of depth or heights. This is great for obstructions below ground (water pipe) or above (power lines)

## Slashbuster 422

### Standard Features:

MAGNUM drive system

Automatic wire shear

Rotating hub debris guard

Cutting disk with S-7 cast and hardened teeth

Mulching teeth in shroud

46" cutting swath

Cuts and mulches trees to 14" diameter

Adjustable 350 to 550 RPM wheel speed

Provided with cross port relief and anti-cavitation protection

Foot-operated master on/off switch

Excavator is provided with a hinged front screen guard for the front of the cab that meets or exceeds SAE J1084 specs.

Meet the family of "S-7" teeth options including two new carbide options that drop right into your existing "S-7" brush cutter tooth pockets

The "S-7" tooth represents our seventh generation in teeth design and alloy refinement. They are proven to be efficient, safe, durable and inexpensive.

- Costs typically less than one dollar per hour of operation, compared to the six to eleven dollars per hour other brush cutters cost to operate.
- A simple daily sharpening achieves maximum productivity throughout the tooth life. In contrast, carbide teeth decrease in productivity as they wear so your machine operates at full potential only when they are new.
- Sharpen the teeth while they are installed in less than ten minutes
- Change the teeth with only safety glasses, hammer and a flat end punch
- Customize the cutting edge to suit your cutting/mulching requirements

We strongly believe the standard "S-7" tooth is the most cost effective (less than \$1/hr) and flexible solution for mulching brush and trees. Due to customer demand, we have developed two new carbide bit options to suit the needs of a wider array of applications and customer needs.

Some advantages of the new carbide options:

- No need to sharpen, reducing field maintenance and eliminating the need for a generator to power an angle grinder.
- Wildfire Safe, can be used in areas where grinding is banned.
- Insert and Remove using the same method as our standard S-7 tooth: requiring only safety glasses, hammer and a flat end punch.
- Change as needed. No need to remove the bit holder from the mulching disk for this operation.

The shroud funnels material into itself. As the mulching disk rotates the "S-7" teeth tend to pull material into the funnel. From there it is directed by force and inertia further inside the shroud.

Inside the shroud, material grinds between stationary and rotating teeth. This mulching action helps reduce the material in one pass rather than going over it repeatedly.

Whether your customer wants small chips for visual appeal or large chunks for forestry contracts, the HD422 allows you to vary the size of the finished material. Simply move faster for larger chunks or move slower for smaller chips.

In contrast, horizontal-shaft (combine-type) shredders output only one size of mulched material. This design restriction limits production rates when small chips are not necessary or desired. Discarded cables hiding under grass, barb-wire fences camouflaged with bushes; if you have cut brush for very long you know that these enemies like to jump onto cutter heads, wrap tightly around the spindle and stall the wheel. Bad attacks can damage seals and take half an hour or more to cut and untangle. Our solution? Shear the wire before it has a chance to do harm.

The automatic wire shear is a fixed blade that cuts wire as it wraps around the spindle. This gives the operator a few seconds to turn off the wheel before the wire becomes heavily entangled and causes harm. The wire shear does not turn your brush cutter into a wire shredder, but significantly saves on downtime and equipment repair.

HD series brush cutters include integrated heavy-duty excavator brush rakes cut from half-inch thick T1 steel. This extreme construction ensures years of daily raking service without interruption for repair. Some applications of the rakes include:

- Windrowing
- Piling and Burning Slash
- Raking Piles of Mulched Debris
- Scraping out Access Roads
- Decommissioning Roads
- Raking Debris from Drainage Ditches