

# TRASH RAKE

Trashtec

Hydraulic double-arm rake for intakes and deep channels carrying heavy debris.  
Up to 1,100 lb per cycle, channels to 23 ft deep.



1,100 lb  
per raking cycle



Channels to  
16 ft 5 in wide



No moving parts  
under water



Call Us Today  
1-855-650-2214



Email Us  
[info@aqualitec.com](mailto:info@aqualitec.com)

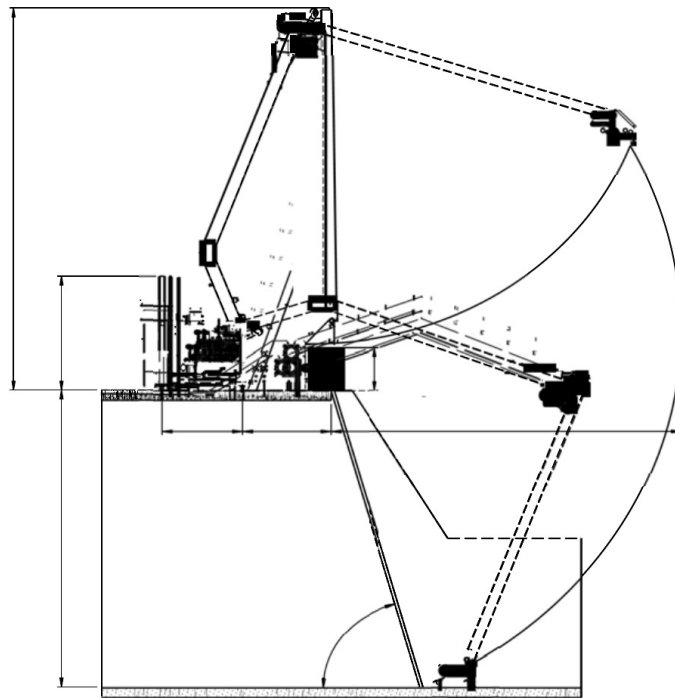


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## OPERATING PRINCIPLE

Three hydraulic cylinders drive the machine: two raise and lower the rake, one closes it. The raking system itself is a double arm and a double forearm carrying the rake head.

The arm opens and travels down wide open. At the bottom of the channel it closes the rake onto the bars, the teeth penetrate the rack and take the debris, and the forearm lifts the load to the top of the bars and over the dead plate.



**Working envelope of the DDA-S double arm rake**

### 1 Down wide open

The arm descends with the rake held clear of the bar rack

### 2 Close and catch

At the channel invert the rake closes into the bars and takes the debris

### 3 Lift and drop

The forearm raises the load to the dead plate and releases it to a conveyor or bin

Because the rake can stop and open anywhere on the downward stroke, an operator can work a blockage at depth instead of committing to a full cycle. That matters most in storm and flood conditions, which is when the channel is carrying the largest debris.



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## FEATURES & BENEFITS



### 1 Nothing critical under water

The hydraulics, the drive and the moving joints all sit above the channel. Nothing that matters is submerged, so there is no underwater bearing or chain to service in a flooded channel.

### 2 Opens wide to catch big debris

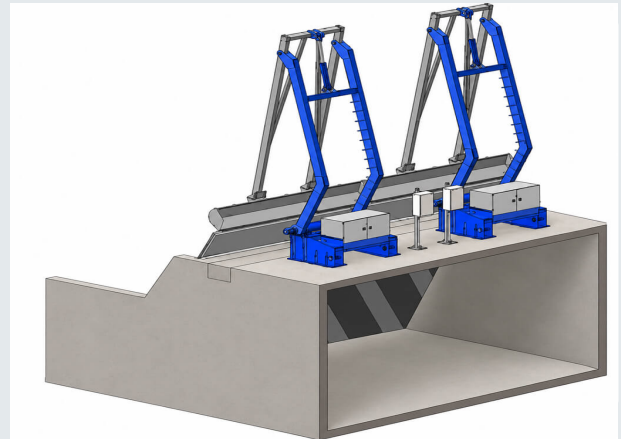
A set of hydraulic cylinders swings the rake wide open in front of the bar rack before it closes, so tree trunks, tires and heavy trash are taken in rather than pushed along the bars.

### 3 1,100 lb per cycle

Lifting capacity runs up to 1,100 lb of solids per raking, which is where this machine separates from cable and chain rakes when a storm brings the load in all at once.

### 4 Stops anywhere on the stroke

The rake can halt and open at any point on the way down. In storm or flood conditions that means the operator can clear a blockage at depth without completing the cycle.



### 5 Three-cylinder raking system

Two cylinders raise and lower, one closes the rake, working through a double arm and double forearm. Debris is lifted to the dead plate and dropped onto a conveyor or into a collector.

### 6 Static or rail-mounted

The DDA-S static machine covers channels up to 16 ft 5 in wide. Beyond that the DDA-M version travels on rails and serves channels up to 164 ft.



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## TECHNICAL DATA

| Description                            | Pos. | Dimension                   |
|----------------------------------------|------|-----------------------------|
| Max overall machine height             | —    | 49 ft 3 in (15,000 mm)      |
| Max channel width                      | Lc   | 16 ft 5 in (5,000 mm)       |
| Max channel depth                      | Hc   | 23 ft 0 in (7,000 mm)       |
| Discharge height above operating floor | —    | 24 in minimum (600 mm)      |
| Bar spacing                            | —    | 2 in to 4 in (50 to 100 mm) |
| Max load per raking cycle              | —    | 1,100 lb (500 kg)           |
| Max channel width, DDA-M on rails      | —    | 164 ft (50 m)               |

## APPLICATIONS

### Pump and lift stations

Irrigation, flood control, storm sewers

### Water intakes

Cooling water for power and refining

### Hydroelectric plants

Trash racks ahead of turbines

### Municipal WWTP

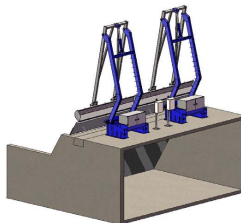
Coarse screening at the headworks

### Drinking water plants

Raw water intake protection

### Industrial water

Process and cooling water intakes



Machines are supplied singly or in banks across a wide intake. Selection follows channel width and depth, bar spacing and the debris the site actually sees. Send the channel drawing and we will confirm DDA-S or DDA-M and the machine height.

## ALSO FROM AQUALITEC

### Screening equipment

Screenotec, Raketec, Drumtec, Spiraltec, Compactec, Washtec

### Grit removal

Grittec, Vortec, Sandtec

### DAF units

Altec, Deltec, Gamtec, Sigtec



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