

X-Y Concrete Cutter Hydrodemolition Systems



The NLB 4500 X-Y Concrete Cutter is the ideal tool for removing unsound concrete from vertical and overhead surfaces. It is ideal for mounting on the arm of a backhoe or excavator for easy positioning to the work surface. Some typical areas of application include the rehabilitation of bridges, parking garages, dams, pier caps and building facia.

The system can be calibrated to remove the desired amount of concrete by adjusting the speed and travel of the cutter head and the pressure and volume of the water jet. Best of all, a hydro demolished surface is ideal for bonding of the new concrete coating layer. And, the process doesn't produce microfractures of the remaining concrete to weaken the structure and speed future deterioration like a jack hammer prepared surface.

Model 4500 delivers 70 gpm at 20,000 psi
265 lpm 1380 bar

Model 4000 delivers 70 gpm at 20,000 psi
265 lpm 1380 bar

Features:

- Pressures from 13,000 (900 bar) to 20,000 psi (1380 bar)
- Flows from 22 (83 lpm) to 70 gpm (265 lpm)
- Cutting range: 4 ft. (X) axis (1.2 m), 3 ft. (Y) axis (0.91 m) with other special sizes available
- Pneumatically or hydraulically actuated
- Fully programmable controls
- Ideal for vertical or overhead concrete removal
- Removes concrete and cleans the rebar
- Less labor intensive and less likely to cause microfractures than pneumatic hammers
- Mounts to backhoes and excavators for mobility and positioning
- 180 degree swivel attachment available
- Both can be fully or semi-automated
- Model 4000 is made of light weight aluminum

Dimensions:

Model	4000 X-Y Cutter	4500 X-Y Cutter
Weight	400 lbs. (181 kg)	2,160 lbs. (980 kg)
Width	43" (1.1 m)	93" (2.4 m)
Height	75.5" (1.9 m)	96" (2.4 m)
Cutting Area	36" width (0.9 m) 43" height (1.1 m)	48" width (1.2 m) 36" height (0.9 m)

Accessories:

- NCG20-282 Cleaning lance
- FC20-282 Foot Control Valve

All Units Are Factory Tested Before Shipment



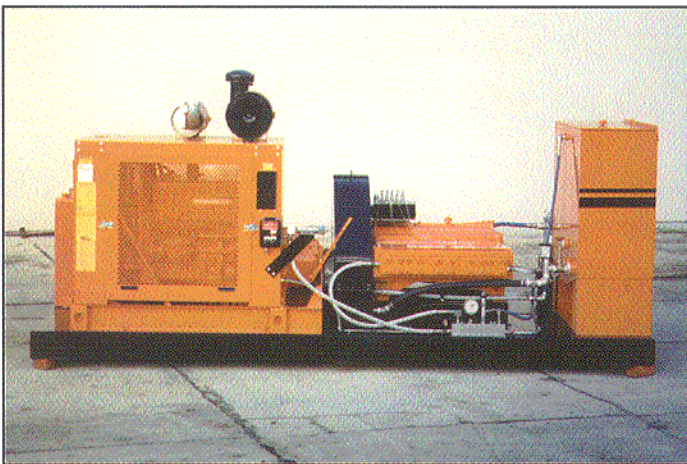
The NLB 4500 X-Y axis concrete cutter is a portable hydrodemolition unit shown cutting a vertical surface. The unit is operating at 20,000 psi (1380 bar) and is flowing 22 gpm (83.3 lpm). The X-Y cutter is hydraulically powered and shown being manipulated



by a backhoe lift arm. Any other similar mechanism will work as well. With high production concrete removal capabilities, the NLB X-Y cutter is ideal for working on dams, bridge piers and columns, building facia or any other substructure or vertical surface.

The NLB 4500 or 4000 can be supplied by a variety of NLB pumping units. The NLB Model 20253D delivers 22 gpm (83.3 lpm) at 20,000 psi (1380 bar). The NLB Model 20400D delivers 33 gpm (125 lpm) at 20,000 psi (1380

bar) and the 20600D delivers 53 gpm (200.6 lpm) at 20,000 psi (1380 bar) and with a simple plunger change higher volumes are possible. NLB pumps are designed for easy serviceability and long life.



Shown above is the NLB Model 20253D



The NLB Model 4000 Concrete Cutter is ideal for repair of deteriorating building facia.



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