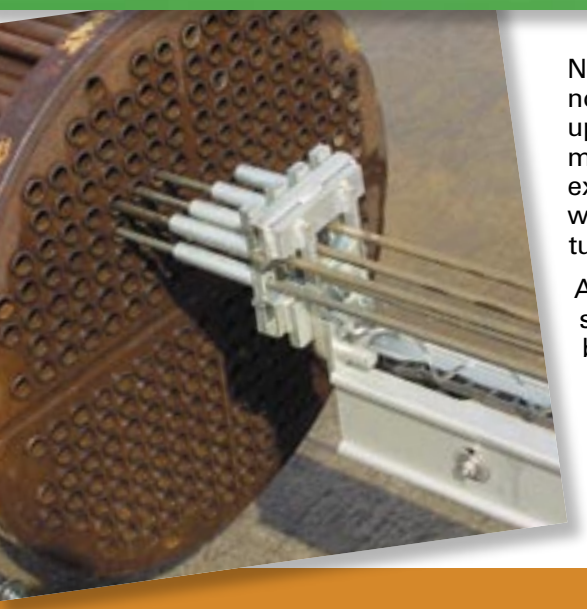
Tube Lancers



NLB's semi-automated tube lancers not only clean heat exchanger tubes up to three times faster than manual methods, they minimize operator exposure to debris or high-pressure water. They make short work of long tubes.

A tube lancer inserts from one to seven rigid lances into the tube bundle, following a pre-programmed pattern if desired. X, Y and Z movement is pneumatic, controlled by an operator from a remote console. An optional station with seat and climate control is available with some models.

NLB units are portable and easy to set up. They are made primarily of heavy-gauge aluminum to resist corrosion; horizontal configuration is standard.

LET NLB IMPROVE YOUR TUBE LANCING PRODUCTIVITY

NLB's automated tube lancers can be customized to suit your needs. Each system comes configured to clean tubes with lengths to 20' *(6.1 m)*, but longer lengths can be accommodated. The systems can also be configured to use rotating or non-rotating lances, and the number of lances can vary from one to seven.

FEATURES/BENEFITS:

- Higher productivity rates than manual cleaning
- Minimizes operator exposure to debris and high-pressure water
- Simplifies cleaning of tubes up to 72' *(22 m)* long

Automated Rigid Lancers

Optional cab (above) lets an operator sit in a climate-controlled station

Part Number	Max. Pressure	Max. Flow	Inlet Connection	Max. Speed	Tube Length
ATL-1000	10,000 psi *(700 bar)*	12 gpm *(45 lpm)* per lance	NPT	2 ft./sec. *(61 cm/sec.)*	20' *(6.1 m)* Standard
ATL-2000	20,000 psi *(1,400 bar)*	12 gpm *(45 lpm)* per lance	MP	2 ft./sec. *(61 cm/sec.)*	20' *(6.1 m)* Standard
ATL-4000	40,000 psi *(2,800 bar)*	11 gpm *(42 lpm)* per lance	HP	2 ft./sec. *(61 cm/sec.)*	20' *(6.1 m)* Standard

- Multiple rigid lances can be set up for various tube patterns
- Rotary option cleans/polishes with fewer nozzle orifices and more flow per orifice
- X,Y and Z movements are pneumatically controlled
- Portable; sets up quickly
- Heavy-gauge aluminum resists corrosion

Optional operator station includes seat and climate control. **(Also for SSC, next page)**