

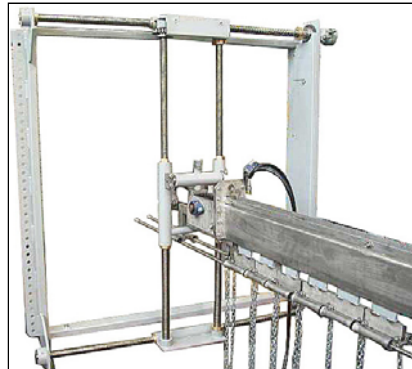
# Pipemaster for internal cleaning

The Pipemaster is a semiautomatic unit for cleaning heat exchanger bundle tube internals. Rotating lances achieve optimum cleaning. The Pipemaster can be tailored to fit individual bundle requirements. All rotating, advancing and retracting motions are adjustable. Here are some examples of the designs available:

## For horizontal bundles

Pipemaster with hydraulic drive for two rotating lances and an X-Y positioning device. With manually adjustable support system.

Op. pressure: max. 43500 psig  
For bundle diameters: up to 5.91 foot  
For bundle lengths: up to 49.21 foot



X-Y Positioning device and lance carrier

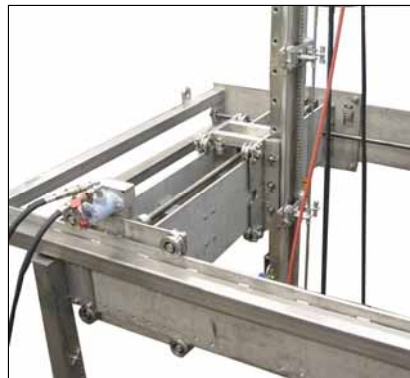


Lance carrier and support system

## For vertically installed bundles

Pipemaster with hydraulic drive for two rotating lances and an X-Y positioning device.

Op. pressure: max. 43500 psig  
For bundle diameters: up to 4.92 foot  
For bundle heights: up to 19.69 foot



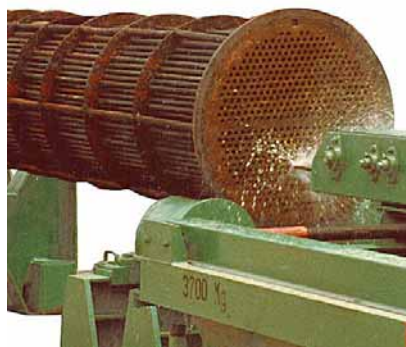
X-Y Positioning device and lance carrier



Pipemaster with operator's control station and hydraulic power pack

## For horizontal bundles

Unit with hydraulic drive for two or more lances



Rotating lances

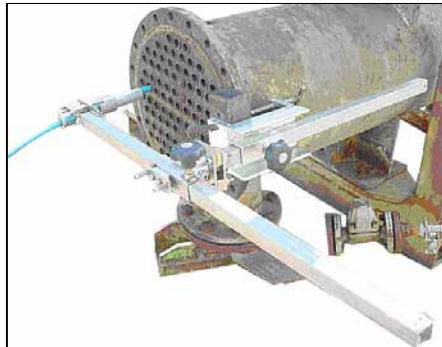
# Hand lancing safety device

The device is used to position the lance nozzle in the heat exchanger bundle tube and to prevent accidental retraction.

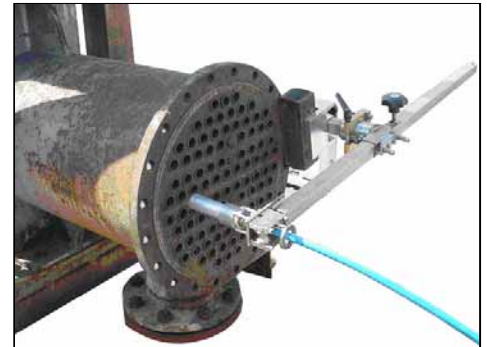
The device is clamped to the tube bundle flange. Swivel joints and a telescopic arm enable the lance within the protective sleeve to be positioned at each individual tube of the bundle.

When the operator retracts the lance a suitable sized stop within the protective sleeve prevents jetting to atmosphere.

For bundle diameters: up to 6.56 foot  
For lance i/d's:  
0.16; 0.24 and 0.31 inch  
Flange thickness: max 5.51 inch



Clamp



Telescopic arm with protective sleeve

BG test certificate

# Rotating hose unit

The unit cleans tubes in both horizontal and vertical heat exchanger bundles. It is the ideal forced deployment and rotating system for use where limited access prevents the use of a rigid lance system.

The mobile unit comprises a hose reel, forced deployment device and a rotational drive.

The flexible hose is rotated by the reel turning on its central axis and pushed into the tube by the deployment device.

All movements are hydraulically powered. The hydraulic power pack and electrical control cabinet are mounted on the top of the unit but can be removed for positioning elsewhere. The unit is controlled from a portable remote panel.

Op. pressure: max. 43500 psig  
For hose o/d's: 0.39 – 1.18 inch  
Hose length: 82 foot



Removable hydraulic power pack



Unit shown without side panels



Portable control panel

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