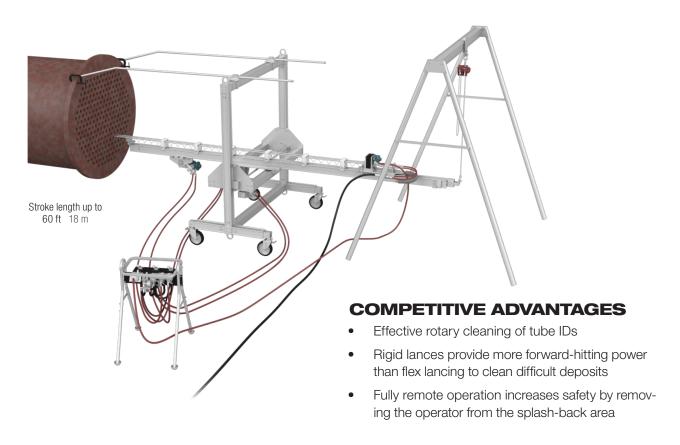
RIGID LANCE MACHINE

Automated Rigid Tube Lancing

StoneAge Rigid Lance Machines are the industry standard for both horizontal and vertical rigid lance cleaning of heat exchangers.



FEATURES	BENEFITS
Adjustable feed rate for lance travel	 Both directions of the lance can be regulated for speed to deliver appropriate cleaning
Adjustable lance stops	 Forward stop to ensure complete tube coverage, optional retract stop to protect lances and operator
Control box	 Control all movements of the complete package from up to 25 ft/8 m away
Pneumatic drive	Powerful and reliable control
Expandable operating window	Versatility for cleaning a variety of exchanger sizes
Steering control and tilt function	 Positioner offers easy mobility and can be tilted to match the tube pitch angle of a bundle face



RIGID LANCE MACHINE OVERVIEW

CONSIDERATIONS

- What is the length and diameter of the tube IDs?
- What is the diameter of the heat exchanger/tube bundle?
- How many lances will be used?
- What is the operating pressure and flow?
- Is the power source air or hydraulic
- Is the exchanger horizontal or vertical? Is there sufficient space to accommodate the machine?

OTHER INFORMATION

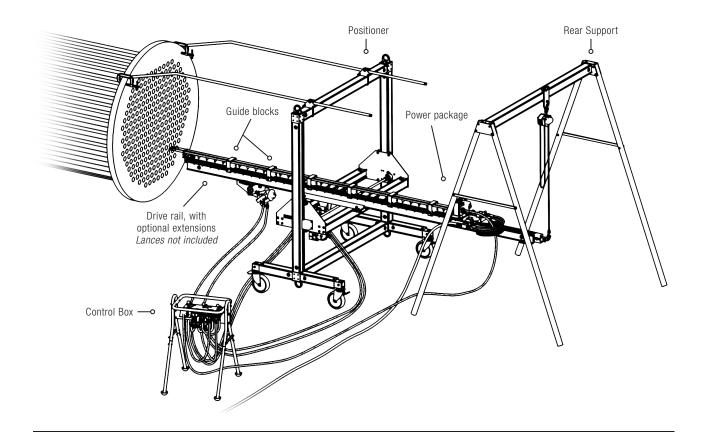
- The lancing machine will sit directly in front of and in line with the bundle and will be longer than the tubes being cleaned. Please make sure to allow appropriate clearance at the face of the bundle.
- Standard fittings supplied by StoneAge may require adapters for metric threads.
- StoneAge does not typically sell lances or lance tips (nozzles).

TOOL SPECIFICATIONS

	BRLM 351	BRLM 361	BRLM 353-CS	BRLM 363-CS
Rotaty Package	Dual	Dual	Triple	Triple
Maximum Pressure	15/22k psi 1000/1500 bar	44k psi 3000 bar	15/22k psi 1000/1500 bar	40k psi 2800 bar
Maximum Flow	60 gpm 227 l/min	60 gpm 227 l/min	60 gpm 227 l/min	60 gpm 227 l/min
Inlet Connection	3/4" MP	9/16" HP	3/4" MP	9/16" HP
Lance Connection	1/8" or 1/4" NPT, 3/8" or 9/16" MP	3/8" or 9/16" HP	1/8" or 1/4" NPT, 3/8" or 9/16" MP	3/8" or 9/16" HP
Rotation Speed	105-525 rpm	105-525 rpm	125-620 rpm	125-620 rpm
Maximum Rail Length	Up to 60 ft Up to 18m	Up to 60 ft Up to 18m	Up to 60 ft Up to 18m	Up to 60 ft Up to 18m
Feed Rate	0.3-1.2 ft/s 0.1-0.37 m/min	0.3-1.2 ft/s 0.1-0.37 m/min	0.3-1.2 ft/s 0.1-0.37 m/min	0.3-1.2 ft/s 0.1-0.37 m/min
Weight Complete	1200–1500 lb 544–680 kg	1200–1500 lb 544–680 kg	1200–1500 lb 544–680 kg	1200–1500 lb 544–680 kg
Maximum Water Temperature	160°F 70°C	160 °F 70 °C	160 °F 70 °C	160°F 70°C

Visit our website for tool resources including operation and maintenance videos:

WWW.STONEAGETOOLS.COM



A complete Rigid Lance Machine configuration requires the following components:

- 1. Appropriate length of drive rail
- 2. Rotary package to drive up to 3 lances
- 3. Lance positioner and appropriate support options
- 4. Guide blocks
- 5. Control box

The following items may also be required:

- Drive rail extensions
- Lances and lance tips not supplied
- Rear support for rail 25 feet and longer
- Mid support for rail 45 feet and longer



DUAL ROTARY PACKAGES

StoneAge offers preconfigured Rigid Lance Machine base packages that can be ordered in a single Part ID. Standard packages are preconfigured for the most common rail length of 25 feet/762 cm and come in 22k psi/1500 bar and 40k psi/2800 bar options.

Custom and non-rotary options are available by contacting StoneAge Customer Service.

22K PSI/1500 BAR PACKAGE \BRLM 351-MP-PKG		
PART ID	DESCRIPTION	QTY
BRLM 351	Dual Rotary Pkg, Air, 22k psi	1
BRLM 500-15	Box Rail & Drive Pkg, Air - 15 ft	1
BRLM 580-10	Rail Ext Assy, 10 ft	1
BRLM 636-10-D10	10' Ext Guideblock Kit, Dual 5/8"	1
BRLM 636-15D-D10	15' Drive Guideblock Kit, Dual 5/8"	1

1	10' Ext Guideblock Kit, Dual 5/8"	BRLM 636-10-D10
1	15' Drive Guideblock Kit, Dual 5/8"	BRLM 636-15D-D10
1	Control Box, Lancing Positioner	CB-LP
1	Rear Support, Heavy Duty	LP 320
1	Wheel Assy Kit, Set (4)	LP 335-WJE
1	Lance Positioner w/Dice Corners	LP-300-78
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40K PS	40K PSI/2800 BAR PACKAGE BRLM 361-HP-PKG		
QTY	DESCRIPTION	PART ID	
1	Dual Rotary Pkg, Air, 40k psi	BRLM 361	
1	1 Box Rail & Drive Pkg, Air - 15 ft BRLM 500-15		
1	1 Rail Ext Assy, 10 ft BRLM 580-10		
1	10' Ext Guideblock Kit, Dual 5/8"	BRLM 636-10-D10	
1	15' Drive Guideblock Kit, Dual 5/8"	BRLM 636-15D-D10	
1	Control Box, Lancing Positioner	CB-LP	
1	1 Rear Support, Heavy Duty LP 320		
1	Wheel Assy Kit, Set (4)	LP 335-WJE	
1	Lance Positioner w/Dice Corners	LP-300-78	

Conversion Kits

PART ID	DESCRIPTION
BRLM 355-CONV	Conversion Pkg, Dual - HP to MP
BRLM 365-CONV	Conversion Pkg, Dual - MP to HP

TRIPLE ROTARY PACKAGES

Standard triple-lance packages are preconfigured for the most common rail length of 25 feet/762 cm and come in 22k psi/1500 bar and 40k psi/2800 bar options.

Custom and non-rotary options are available by contacting StoneAge Customer Service.

QTY	DESCRIPTION	PART ID
1	Triple Rotary Pkg, Air, 22k psi	BRLM 353-CS
1	Box Rail & Drive Pkg, Air - 15 ft	BRLM 500-15
1	Rail Ext Assy, 10 ft	BRLM 580-10
1	10' Ext Guideblock Kit, Dual 5/8"	BRLM 636-10-D10
1	15' Drive Guideblock Kit, Dual 5/8"	BRLM 636-15D-D10
1	Control Box, Lancing Positioner	CB-LP
1	Rear Support, Heavy Duty	LP 320
1	Wheel Assy Kit, Set (4)	LP 335-WJE
1	Lance Positioner w/Dice Corners	LP-300-78

40K PSI/2800 BAR PACKAGE \ BRLM 363-HP-PKG

QTY	DESCRIPTION	PART ID
1	Triple Rotary Pkg, Air, 40k psi	BRLM 363-CS
1	Box Rail & Drive Pkg, Air - 15 ft	BRLM 500-15
1	Rail Ext Assy, 10 ft	BRLM 580-10
1	10' Ext Guideblock Kit, Dual 5/8"	BRLM 636-10-D10
1	15' Drive Guideblock Kit, Dual 5/8"	BRLM 636-15D-D10
1	Control Box, Lancing Positioner	CB-LP
1	Rear Support, Heavy Duty	LP 320
1	Wheel Assy Kit, Set (4)	LP 335-WJE
1	Lance Positioner w/Dice Corners	LP-300-78

Conversion Kits

PART ID	DESCRIPTION
BRLM 353-CONV	Conversion Kit, Triple - HP to MP
BRLM 363-CONV	Conversion Kit, Triple - MP to HP



PACKAGE OPTIONS

WHEEL OPTIONS

We offer wheet kit options on the positioner to allow for easy transport and placement. The jack option stabilizes the positioner and also helps align it with tube bundles that may not be square. Built-in extensions give a wider footprint and better stabilization.

PART ID	DESCRIPTION
LP 335-JE	Jack Assembly Kit, Set (4)
LP 335-WE	Wheel Assembly Kit, Set (4)







LP 335-JE Jack Stand

RAIL OPTIONS

PART ID	DESCRIPTION
BRLM 580-05	Rail Ext Assy, 5 ft
BRLM 580-08	!!!OBSOLETE!!! Rail Ext Assy, 8 ft
BRLM 580-10	Rail Ext Assy, 10 ft
BRLM 580-15	Rail Ext Assy, 15 ft

PLUGS AND GLANDS

PART ID	DESCRIPTION
AF 076-MP9	Plug, 9/16 MP
AF 070-MP9	Gland, 9/16 MP
AF 076-H9	Plug, 9/16 HP
AF 070-H9	Gland, 9/16 HP