LP-1: Long Pulse Compact Accelerator

0.5MeV to 1MeV average electron energy

0mA - 10mA average beam current

Compact, Cost-effective, Reliable…

CONFIGURATIONS

1 MeV electron energy

0 - 50mA peak current at 1MeV

0 - 10 mA average beam current

0.1- 10 kW average beam power

Pencil-beam output *

50 - 500 mm scan width **

* depending on electron window

**depending on scan horn selection

OUTSTANDING CONTROL

PLC control of low-level machine functions.

Windows-based user interface.

Microsoft SQL database.

Parameter storage and management.

ALL DAY, ALL NIGHT

24 hours per day

7 days per week

Recommended maintenance work should be scheduled:

- 4 times per year
- 2 days each visit

MEVEX CORPORATION

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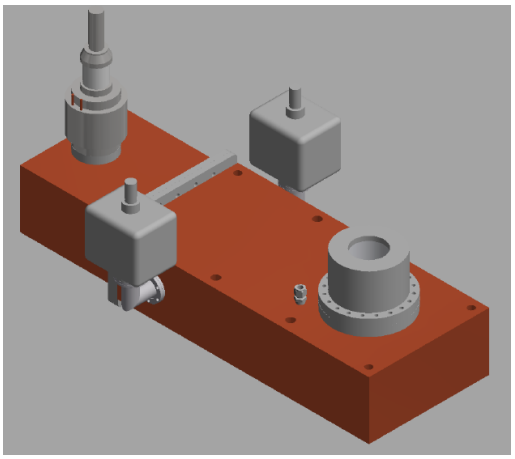
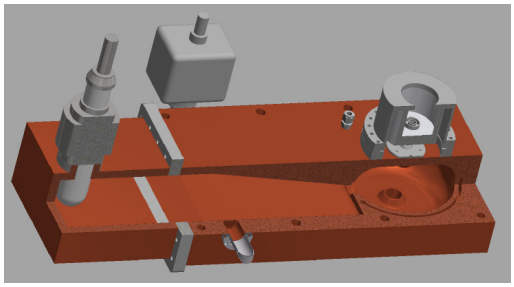




Mevex electron linacs for industry and research communities

Our family of high energy, compact accelerators are easy to deploy, easy to operate, and easy to maintain.

Configure the LP for your application:

- Select energy to penetrate or NOT penetrate as required
- Match power to the throughput requirement
- Any beam orientation
- Multiple beams
- Beam sizes from spot to 500mm

Recipe storage and revision control:

- Store and recall multiple parameter sets:
  - Beam current
  - Beam pulse width
  - Repetition frequency
  - Scan width

LP Family of Accelerators

A family of accelerators sharing:

- Common design philosophy
- Common implementation philosophy
- Common service/maintenance techniques
- 80% common parts between different models
- Common user interface

Adjustable beam power:

- Sub-lethal dosing protocols
- Manage throughput vs labor
- Adjust power to match line speed

Electron accelerator:

- Electron gun
- Standing-wave accelerator structure
- Ion pumps
- Mechanical supports and alignment
- Beam scanning
- Titanium or Beryllium window (depending on application)
- Power supplies and switching module
- Water circulation and temperature control
- Data interface between ebeam and process
- Interface with safety system
- Remote diagnostic capability

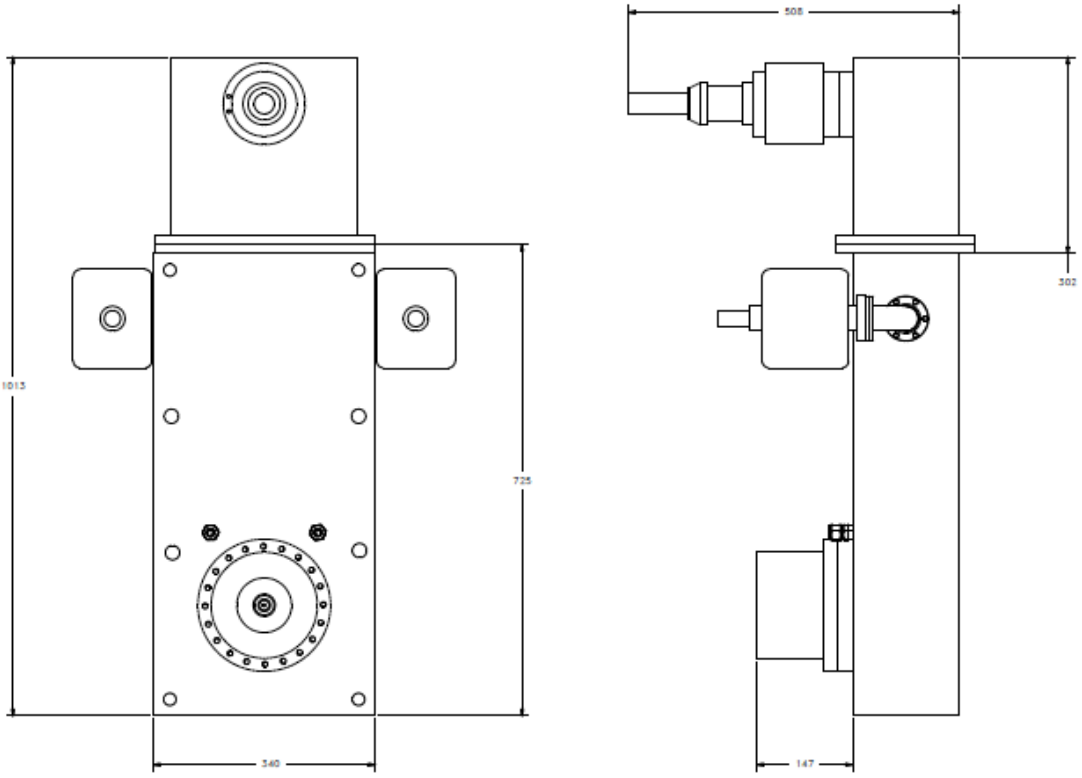
OEM-supply for your application

Our engines… powering your cars

Making your project a success….

- Integration with product handling
- Assistance with radiation shielding design and calculations
- Integration with radiation safety system
- Recipe/parameter management system
- Custom electron energies
- Custom pulse duration (dose per pulse)
- Customized dose profiles and scan profiles
- Beam monitoring capability
- Validation services

Outline sketch:



Parameter	Minimum	Typical	Maximum
Average Beam Energy	500keV	1MeV	1.2MeV
Beam Pulse Current	0mA	50mA	75mA
Beam Pulse Duration	100us	1ms	100ms
Pulse Repetition Rate	Single pulse	100Hz	360Hz
Beam Spot Size	4mm	6mm	10mm

TECHNICAL SUPPORT

- Always available:
  - Europe
  - North America
  - Asia
- Full parts and labor contracts
- Preventive maintenance
- Tech support phone and email
- Remote internet diagnostics
- Special machine capabilities
  - Short pulse
  - Long pulse
  - Single pulse
- Refurbishment and upgrades
- Obsolescence management

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MEVEX
THE ACCELERATOR TECHNOLOGY COMPANY