



Creative Engineers, Inc.

UNITED STATES | INTERNATIONAL



DC EM LAB PUMPS

Lab-Scale Direct Current Electromagnetic Conduction Pumps

**ACCURATE. RELIABLE.
MAINTENANCE-FREE.**

Creative Engineers, Inc. (CEI) designs compact **DC electromagnetic conduction pumps** for laboratory and pilot-scale liquid metal systems. With no moving parts, CEI pumps provide reliable, low-maintenance circulation of electrically conductive liquid metals.

WHY CHOOSE CEI EM PUMPS?



NO MOVING PARTS

No seal. No packing glands. No leaks!



UP TO 752 °F

Continuous operation at liquid metal temperature to 752 °F / 400 °C.



VARIABLE FLOW CONTROL

10-100% capacity without throttling valves.



BUILT TO LAST

Dependable performance for 20+ years.



RADIATION TOLERANT

Operable in radiation fields.



PROVEN PERFORMANCE

Trusted since the 1950s.
Tested and calibrated.



SMALL UNITS

Often fitting in less than 1 ft³ of space.



OFF-THE-SHELF SOLUTION

No need to develop a specialized pump.



NEW FREEDOM, PA | GREENVILLE, SC

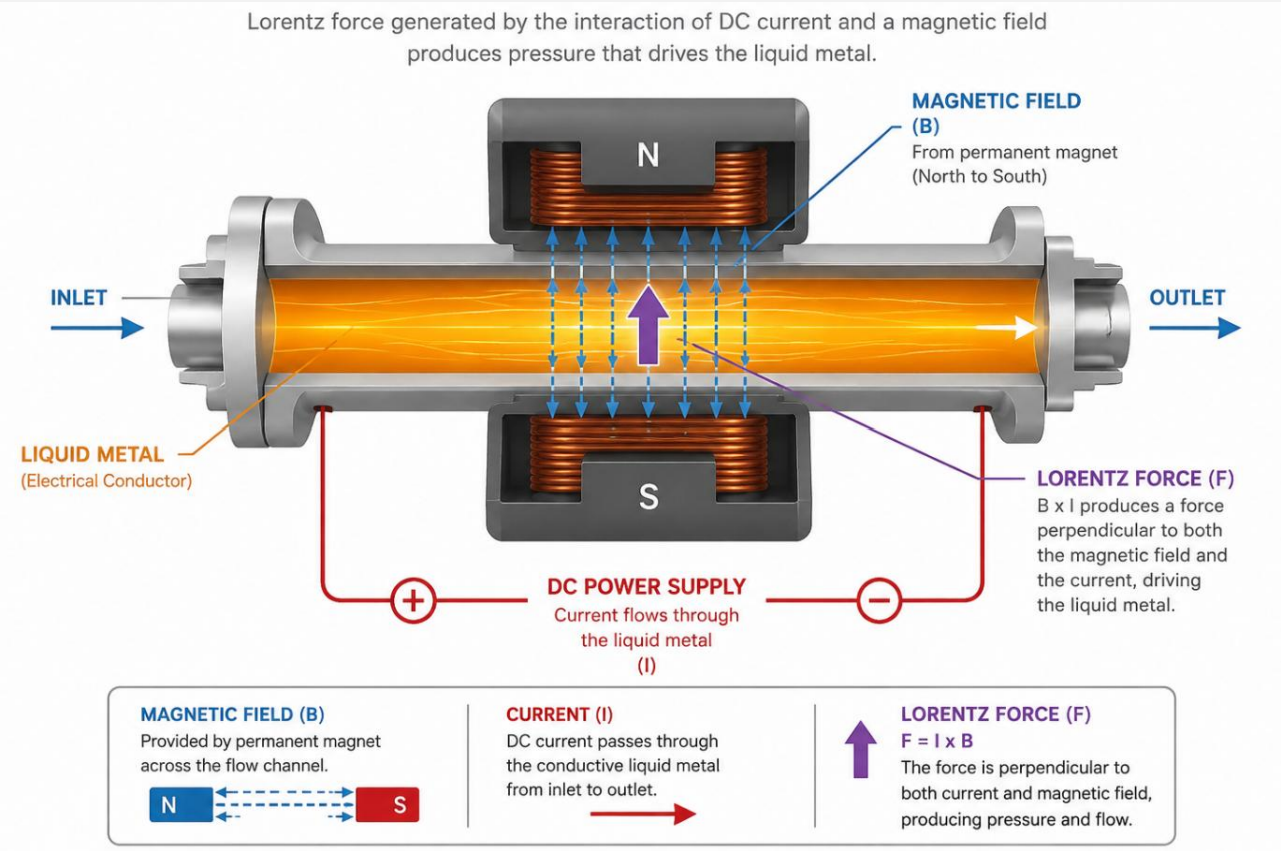


(717)235-5469



www.creativeengineers.com

PRINCIPLE OF OPERATION



EM PUMPS SIZING OPTIONS

EM Pump Style	Maximum Flow for NaK at 500F	Deadhead Pressure for NaK at 500F	Flow Tube OD	DC Power Supply Input	DC Power Supply Output	Typical Application
EMP-1-1	0.8 GPM	5.3 psig	3/8"	208 VAC, 3-Phase	850 A, 0-5 VDC	Laboratory testing
EMP-1-4	1.1 GPM	11.3 psig				Medium-capacity loops
EMP-1-6	1.7 GPM	17 psig				Higher-flow lab systems

CEI can specify the most appropriate pump for your application after receiving your process information.

ABOUT CREATIVE ENGINEERS, INC.

Creative Engineers, Inc. (CEI) designs, builds, and operates custom research and pilot-scale systems for alkali and other liquid metals. Backed by decades of specialized experience, our team helps clients move from concept to commercialization faster, safer, and more efficiently.



CUSTOM
DESIGN



ENGINEERING &
MANUFACTURING



TESTING &
QUALIFICATION



INSTALLATION
SUPPORT

