



Magnetic Products, Inc.
Highland, Michigan | mpimagnet.com

Electromagnet Chuck Control Unit



Electromagnet Chuck Control Units are designed to magnetize and demagnetize electromagnetic devices such as electromagnetic chucks and lifters. Magnetization consists of supplying a continuous DC output voltage to the device. Demagnetization cycles consist of a specific combination of positive and negative voltage pulse(s). The workpiece material may retain some residual magnetism due to its chemical and magnetic properties. The control units are designed to operate any 110VDC magnetic device within the specified wattage.

MPI's Electromagnet Control Unit features an SR interlock safety contact. By using a potential free relay contact driven by the machine's PLC, the controls can be enabled or disabled. The safety contact closes when the magnetic device is properly magnetized and should be used to enable the operation of the connected machine. A 24V signal on E-X3-10 of the control board provides a warning signal to disable the control unit. The safety control unit feature should be engaged during machining or transport.

Key Features:

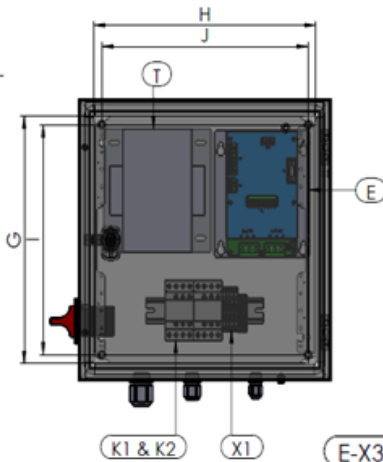
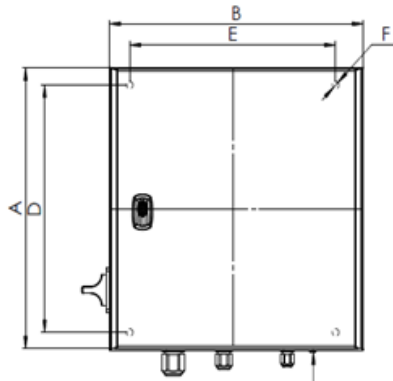
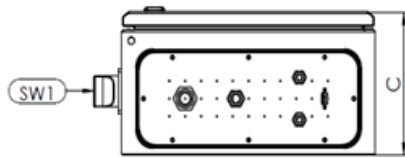
- Clamping force control for higher accuracy and colder operation
- Demagnetization of the chuck and workpiece for easy unclamping
- Powerful control system with a microprocessor
- 150W and 630W Models Stock, all others special order
- Choose a design – metal box (IP54 stock) or panel (IP00 special order)
- One (1) year warranty

Part Number	Description	Mains AC input voltage (Vac)	Output DC voltage (Hz)	Mains frequency (Hz)	Operating temp. (F)	Max. relative humidity	Max. working altitude (FT)	Cabinet protection class	Required circuit breaker	Required cable (**)	Remote control	Embedded control
EMCU-150W***	Electromagnet Control Unit 150-watt capacity	110	110	50/60	32-122	90%	3,280	IP66	4A C curve	3 G 1.5	No	Yes
EMCU-150W-230	Electromagnet Control Unit 150-watt capacity, 230 volt	200-230	110	50/60	32-122	90%	3,280	IP66	4A C curve	3 G 1.5	No	Yes
EMCU-630W***	Electromagnet Control Unit 630-watt capacity, 230 volt with U19 remote control	200-230	110	50/60	32-122	90%	3,280	IP66	10A C curve	3 G 2.5	Yes	No
EMCU-1250W-230	Electromagnet Control Unit 1250-watt capacity, 230 volt with U19 remote control	200-230	110	50/60	32-122	90%	3,280	IP66	16A C curve	3 G 2.5	Yes	No
EMCU-2500W-230	Electromagnet Control Unit 2500-watt capacity, 230 volt with U19 remote control	200-230	110	50/60	32-122	90%	3,280	IP66	32A C curve	3 G 2.5	Yes	No
EMCU-630W-380-460	Electromagnet Control Unit 630-watt capacity, 380-460 volt with U19 remote control	380-460	110	50/60	32-122	90%	3,280	IP66	6A C curve	3 G 2.5	Yes	No
EMCU-1250W-380-460	Electromagnet Control Unit 1250-watt capacity, 380-460 volt with U19 remote control	380-460	110	50/60	32-122	90%	3,280	IP66	10A C curve	3 G 2.5	Yes	No
EMCU-2500W-380-460	Electromagnet Control Unit 2500-watt capacity, 380-460 volt with U19 remote control	380-460	110	50/60	32-122	90%	3,280	IP66	16A C curve	3 G 2.5	Yes	No

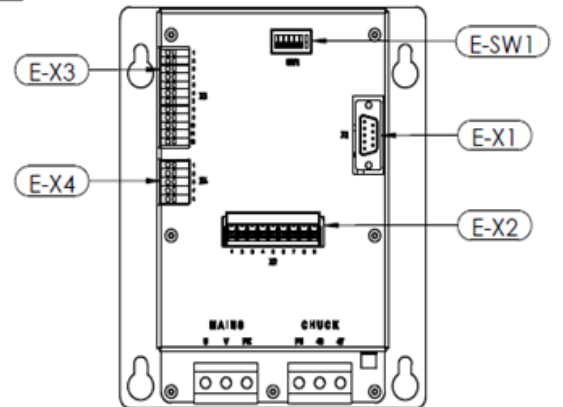
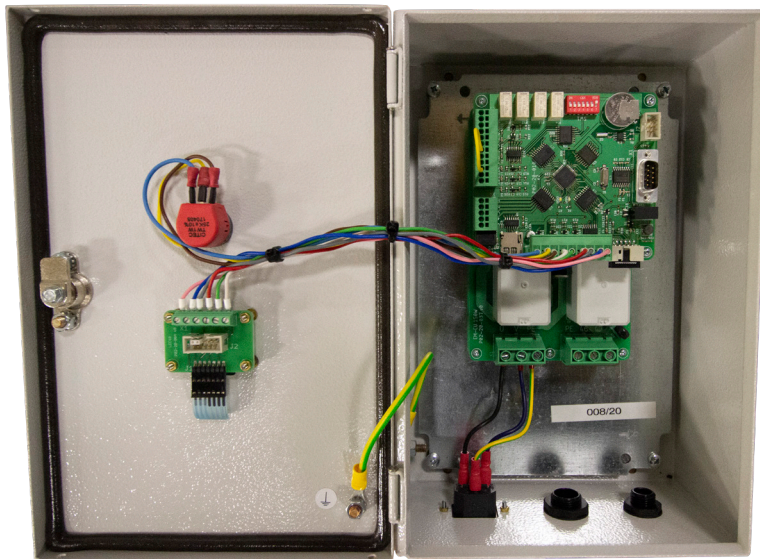
Specifications subject to change • * Items stocked F.O.B. Highland, MI • **Cable between electrical grid and control unit is not supplied. Make sure to follow required cable specifications.



Magnetic Products, Inc.
Highland, Michigan | mpimagnet.com



- E Electronic Module
- T Transformer
- CON2 External Remote Socket
- SW1 Main Switch
- Cx Power Relays
- X1 Main Terminal Block
- E-SW1 Dip Switches
- E-X1 Sub D-9 Male Connector
- E-X2 9 Pins Connector
- E-X3 Terminal Block I/O Signals
- E-X4 Terminal Block



Dimensions (Inches)											
	A	B	C	D	E	F	G	H	I	J	K
EMCU 150W	12	8	5	11	5.3	10.3	11	7.1	10	6.1	10.3
EMCU 630W	12	10	6	9.8	7.9	10.3	9.8	7.9	8.9	6.9	10.3