

# CONTROL UNITS

STANDARD FEATURES

**BRAILLON MAGNETICS** provide s a wide range of Control Units for both Electro-Permanent (EP) and Electro-Magnetic (EM) chucks.

### SAFETY INTERLOCKING

An interlock output is available for machine's PLC. This signal means that a good magnetization level has been reached. In the other way, machine's PLC can enable or disable the control unit through a dedicated input.

### VARIABLE MAGNETIC FORCE

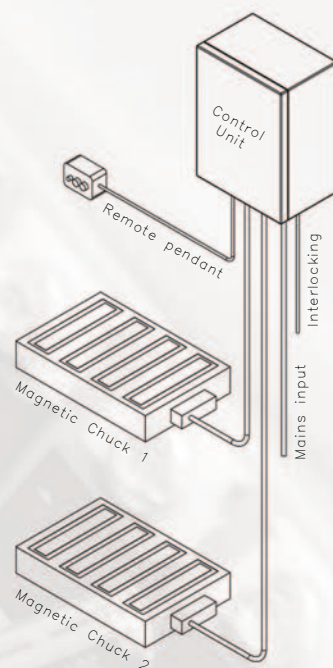
Thanks to an analog input, **BRAILLON MAGNETICS** Control Units are able to set magnetic force from null to full power with an infinite number of steps.

### REMANENCE REMOVING

A true demagnetization cycle is available in order to reach an extra low level of magnetism within the workpiece. This feature is available for both Full Demagnetization Electro-Permanent (EP) and Electro-Magnetic (EM) chucks.

### MULTI-CHUCKS MONITORING

One **BRAILLON MAGNETICS** Control Unit can magnetize and demagnetize several magnetic chucks. Different operating modes are available on request : pendulum, "all in a row" or multi zones chuck control.



Example with a two channels control unit

RANGE

Type	Maximal Number of Channels	Standard Input Voltage * Range (V)	APPLICATION / CHUCK'S COMPLIANCE														
			UNIPERM	EPEFINE	POWERFINE	GRINDING EPERING	EM-RING	EPESTAR	EM-STAR	TURNING EPESTAR-MAX	TM18	MILLING TM25	TM40B	TM40NS	QMC PMG-HP250	PMG-HT	
BUR	8	200 - 230 - 400 - 415	X	X	X							X					
BUR - FR	8	200 - 230 - 400 - 415										X	X	X			
BUR - PMG	8	200 - 230 - 400 - 415														X	X
BUP	1	200 - 230 - 400 - 415				X		X		X							
BFR	4	200 - 230 - 400 - 415										X	X	X			
BUE	1	230					X		X								
BUET	1	230 - 400 - 440					X		X								

\* Other Voltages on request



OPTIIONS

**PENDULAR CONTROL**

This option let the operator control two chucks independently.

**SPECIAL VOLTAGES**

On request, from 200 to 480 VAC.

**EMBEDDED AMP-METER and VOLT-METER**

This equipments show in real time the amperage and voltage supplied to the magnetic chuck. Both are located on the front side of the control unit.

**RADIO REMOTE CONTROL**

This option makes the remote pendant wireless.

**FOOTSWITCH REMOTE CONTROL**

This makes the control unit hands free.

**QMC EUROMAP INTERFACE**

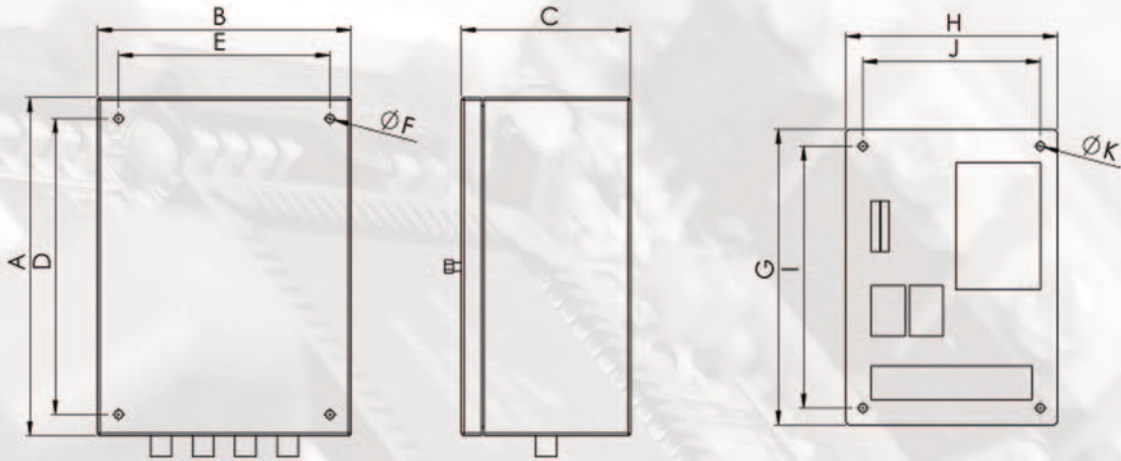
This provides standardized signals for Quick Mould Change Applications.

**COOLING SYSTEM**

Available for warm environments.

**TROPICALIZATION**

Available for extremely wet environments.



CONTROL UNIT - DIMENSIONS

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TYPE	Nbr of Channels	STEEL BOX					
		A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
BUR10 / BUR-FR10	1	400	300	150	355	255	10
BUR20 / BUR-FR20	2	400	300	200	355	255	10
BUR30 / BUR-FR30	3	400	300	200	355	255	10
BUR40 / BUR-FR40	4	500	400	200	455	355	10
BUR50 / BUR-FR50	5	500	400	200	455	355	10
BUR60 / BUR-FR60	6	500	400	200	455	355	10
BUR70 / BUR-FR70	7	500	400	200	455	355	10
BUR80 / BUR-FR80	8	600	500	200	555	455	10
BUR10P / BUR-FR10P	2	400	300	200	355	255	10
BUR20P / BUR-FR20P	4	400	300	200	355	255	10
BUR30P / BUR-FR30P	6	500	400	200	455	355	10
BUR40P / BUR-FR40P	8	500	400	200	455	355	10
BUET 340W to 3000W	1	500	400	200	455	355	10

BRACKET					
G (mm)	H (mm)	I (mm)	J (mm)	K (mm)	
345	270	325	225	10	
345	270	325	225	10	
345	270	325	225	10	
445	350	425	325	10	
445	350	425	325	10	
445	350	425	325	10	
445	350	425	325	10	
545	450	525	425	10	
345	270	325	225	10	
345	270	325	225	10	
445	350	425	325	10	
445	350	425	325	10	
445	350	425	325	10	

TYPE	Nbr of Channels	STEEL BOX					
		A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
BURPMG10 + E70.0	2	500	400	200	455	355	10
BURPMG20 + E70.0	4	600	500	200	555	455	10
BURPMG30 + E70.0	6	600	500	200	555	455	10
BURPMG40 + E70.0	8	600	500	200	555	455	10
BFR10	1	400	300	200	355	255	10
BFR20	2	500	400	200	455	355	10
BFR30	3	600	500	200	555	455	10
BFR40	4	600	500	200	555	455	10
BFR20P	2	500	400	200	455	355	10
BFR40P	4	600	500	200	555	455	10
BUP 3KW	1	400	300	150	355	255	10
BUP 10KW to 70KW	1	400	300	200	355	255	10
BUE 340W	1	400	300	150	355	255	10
BUE 850W to 1650W	1	400	300	200	355	255	10

BRACKET					
G (mm)	H (mm)	I (mm)	J (mm)	K (mm)	
445	350	425	325	10	
545	450	525	425	10	
545	450	525	425	10	
545	450	525	425	10	
345	270	325	225	10	
445	350	425	325	10	
545	450	525	425	10	
545	450	525	425	10	
445	350	425	325	10	
545	450	525	425	10	
345	270	325	225	10	
345	270	325	225	10	
345	270	325	225	10	

\* Note : "P" means Pendular

DIMENSIONS