

Control Unit

ENGINEERED FOR ELECTRO-PERMANENT AND ELECTROMAGNETIC CHUCKS

CONTROL UNIT MC20 AND REMOTE CONTROL T20

Will control up to
8 Magnetic Chucks

Operate up to
4 work zones

Capable of managing
multiple size chucks,
for magnetizing and
demagnetizing

Will work with Brailon
made chucks and
multiple other chuck
brands, available for both
electro-permanent and
electromagnetic type
chucks

Total demagnetization

Machine Interface

Off-site Remote
Assistance
(Our Technicians can now
troubleshoot quickly and
with precision
while online)

Parameter setting
with a simple USB key



Set the minimum safety
threshold to allow machine
operation

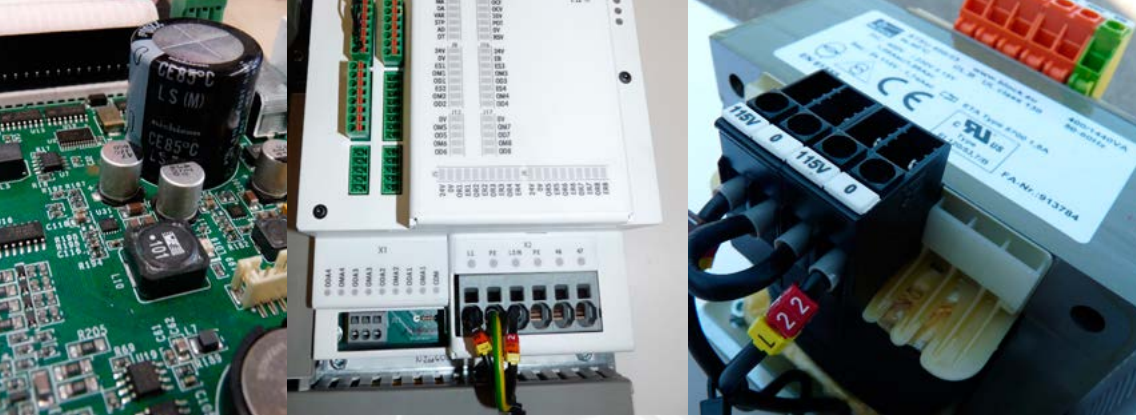
Precise adjustment of
magnetization force

Tip off function

Up to 10 custom
demagnetization programs

Several language options

History of completed
actions



BRAILLON MAGNETICS control units are the result of many years of research and experience. They make it possible to take full advantage of electro-permanent and electromagnetic technology with a proven reliability.

CHARACTERISTICS

MANAGEMENT OF MULTIPLE SIZE CHUCKS

The same type of control unit can be configured in different ways in order to control magnetic chucks of different sizes, up to 4 different chucks.

OPERATE DIFFERENT DESIGNS AND BRANDS

All BRAILLON MAGNETICS control units incorporate a microprocessor capable of saving several programs. This enables the operation of magnetic chucks or lifting magnets of different designs and from other manufacturers: both electro-permanent systems and electromagnetic systems.

TOTAL DEMAGNETIZATION

Demagnetization cycles are optimized for each type of magnetic chuck. It is also possible to customize them on request using a USB key. Up to 10 different programs can be saved.

MACHINE INTERFACE

All BRAILLON MAGNETICS control units integrate an interface allowing them to command and control the magnetic chucks from the PLC machine. Output security data is available to check the correct operation of the magnetic system.

OFFSITE REMOTE ASSISTANCE

The new MC 20- BRAILLON MAGNETICS electronic card allows our technicians to make a remote diagnosis in the event of a possible malfunction or in order to improve the configuration of the control unit. Example: improvement of demagnetization according to customer parts.

ADJUSTING SETTINGS BY USB KEY

The USB key integrated on the MC 20 card not only allows you to configure the control unit, but also to save all the information (history and errors). The key can also be used to modify the parameters in order to improve the functions of a magnet: the magnetism, the residual magnetism, the demagnetization time as well as the functions of the control unit.

CONTROL UP TO 8 MAGNETIC CHUCKS

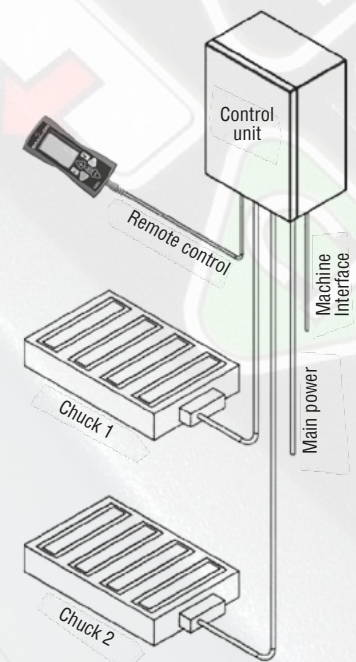
BRAILLON control units allow you to control several electro-permanent magnetic chucks at the same time. For example, a iBUR-80 control unit will allow you to control up to 8 Magnetic chucks.

INNOVATION 2020



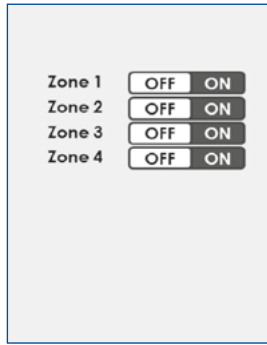
T20 The remote control new generation

- In depth information
- Optimized communication between chuck and control unit
- Clear diagnostics
- Ergonomic design



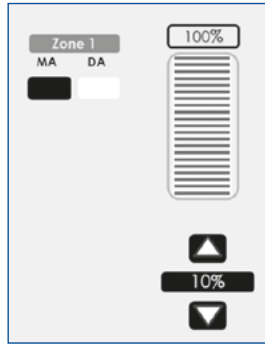
Sample of a control unit with 2 chucks

T20 REMOTE CONTROL SCREENS



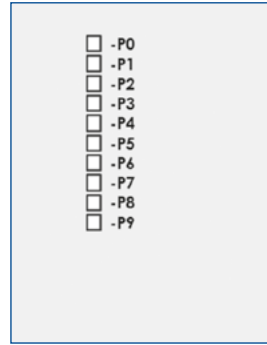
CONTROL UP TO 4 WORK ZONES

The new MC 20 allows you to control up to 4 zones. It is possible to choose them one after the other.



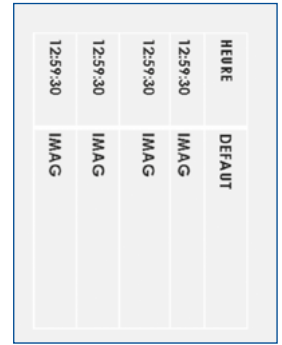
VARIABLE MAGNETIZATION

Equipped with the new remote control type T20, the control units allow you to adjust the magnetic chuck and lifting magnet holding force with high precision. The MC 20 card also allows you to control the variation of the force by a BCD code.



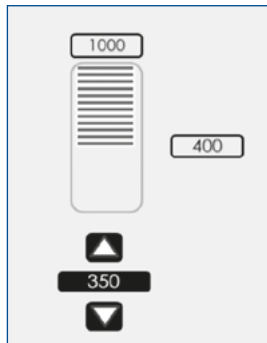
UP TO 10 PROGRAMS SAVED

It is now possible to save up to 10 different programs. For example: personalized programs to demagnetize different parts.



HISTORY OF COMPLETED ACTIONS

Using the T20 remote control, will also allow you to check the last 10 actions carried out. With the integrated USB key it is also possible to read all actions that have been carried out.



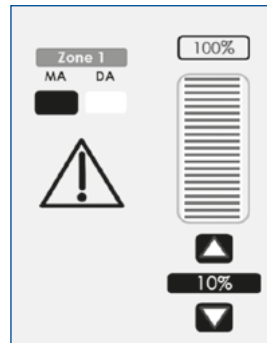
SETTING THE MINIMUM FORCE THRESHOLD FOR MACHINE START SAFETY

Set a low or high threshold setting by entering a chosen value. This allows the machine to safely start only when the minimum threshold force has been met.



7 LANGUAGES

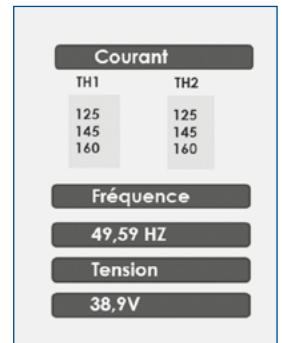
The display on the remote control T20 is available in 7 languages: French, German, English, Italian, Spanish, Polish and Japanese.



VARIATION OF DESCENDING STRENGTH

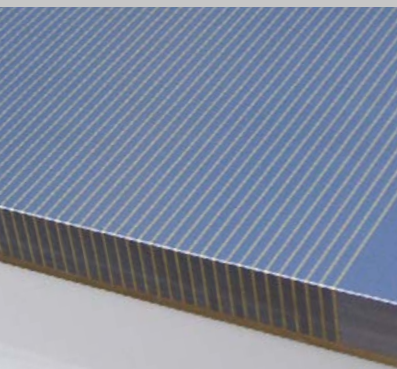
As an option, only for electro-permanent systems, it is possible to deliver the control unit with a descending variation.

CONTROL

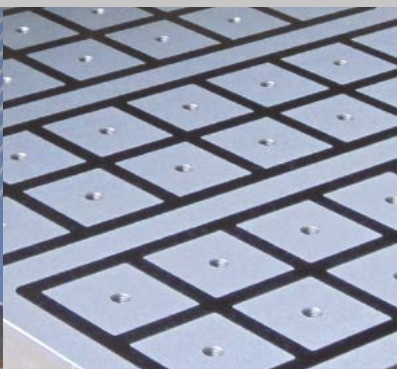


Automatic display for reading current and current measurement of the thyristors. Frequency display and the voltage of the MC 20.

GRINDING



MILLING



TURNING



LIFTING

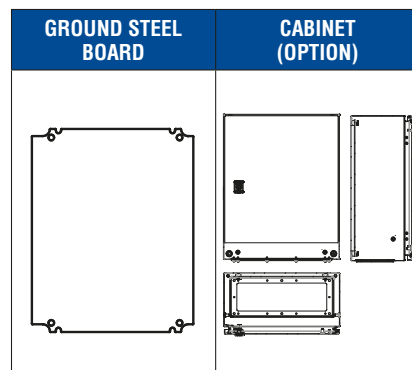


DIMENSIONS

CONTROL UNIT ON GROUNDSTEEL BOARD



CONTROL UNIT IN CABINET (OPTION)



Type	Screws fixing distance in mm	Dimensions of cabinet in mm
iBUR 10	235.5 x 127	300 x 250 x 210
iBUP 03/07	235.5 x 127	300 x 250 x 210
iBUR 20 à iBUR 40	325 x 225	400 x 300 x 210
iBFR 10 à iBFR 20	325 x 225	400 x 300 x 210
iBUP	325 x 225	400 x 300 x 210
iBUR 50 à iBUR 80	425 x 325	500 x 400 x 210
iBFR 30 à iBFR 60	425 x 325	500 x 400 x 210

RANGE

Application / Chuck's compliance

Type	Maximum number of channels	Maximum number of zones	Standard input voltage range (V)	GRINDING				TURNING EPERC_N	MILLING				QMC		LIFTING							
				EPICA	EPEFINE2	EPT / PWF	EPERP		EPBC	BC	EPERC	ERC	TM18	TM25	TM40B	TM50SQ	PMG-HP250	PMG-HT	PEP	PEP-SQ	EPR-N	REP-R
iBUR	8	4+4	200 - 230 400 - 440		✓	✓						✓						✓				
iBUR - PMG	8	2	200 - 230 400 - 440											✓	✓							
iBUP	1	4	200 - 230 400 - 440	✓			✓	✓		✓								✓		✓		
iBFR	6	4	200 - 230 400 - 440									✓	✓									✓
iBUE	1	1	230																			✓
iBUET	1	1	230 - 400 440																			✓

OPTIONS

SPECIAL VOLTAGES

On request, from 200 to 480 VAC.

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.

PARKING SOCKET

Prohibits the start of the machine, if the cable is plugged into the magnetic chuck: Turning or paletizing applications.

TEMPERATURE MANAGEMENT AND TOOLS DETECTION

for press applications.

ACCESSORIES

REMOTE CONTROL ACCESSORIES

- Handle
- Holding magnet
- Rubber protection

