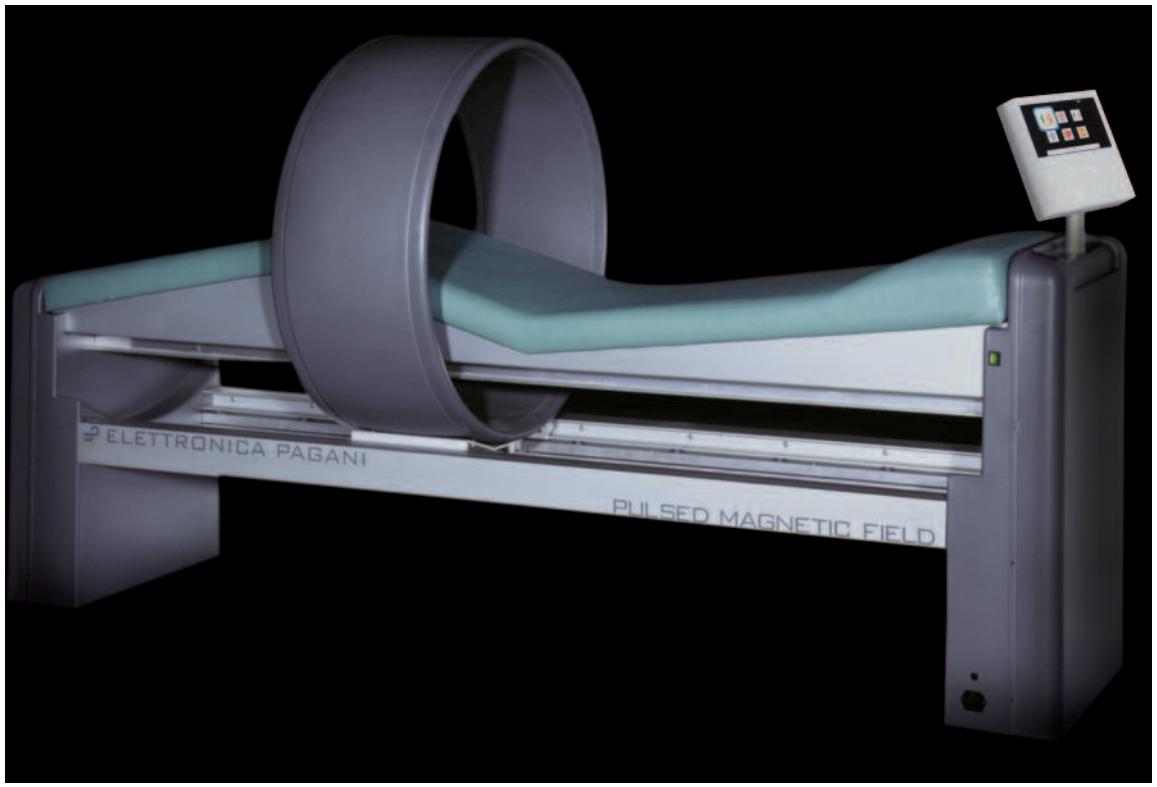


## CMP Plus

From the keyboard the operator may set the available pre-set protocols, enter up to 50 customised memories, using manual function.

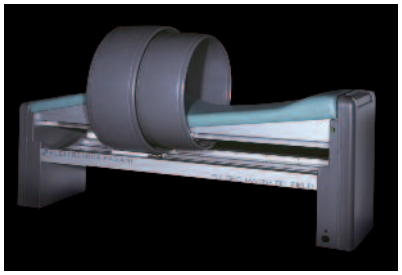
The action mechanism of CMP (the Italian abbreviation for "Pulsed Magnetic Fields") on the bony tissue is based on a series of elements, among which, one of the most important, is the piezoelectric effect. The CMP can be usefully used in treating repairing processes. In fact, in the bone, the collagen acts as a piezogenerator and due to the vibrations created by the CMP, it is possible to intensify or replace those natural functions, which were disturbed or absent. Experiences point out, apart from a stimulating process of collagen, an organising effect of CMP on the structure of the bony callus. This effect is mostly carried out at tissue level, in the form of greater orientation both of cellular and fibrillary components.

The reaction of micro-vascular tissues to CMP is connected with an induced stimulation of CMP on the intra-fibroblastic synthesis of GAG and especially of the laiuronic acid, which gives iron a bigger positiveness at ischemic level. On the other side, the inhibition of edema is most likely due to the partial block of endothelial permeability by GAG and by stimulation of differentiation in GAG fibroblasts, which are producers of primitive mesenchymal cells.




**Technical features**

- Dimensions: cm 215x65x65h
- Frequency: 10 to 200 Hz
- Emission: static and modulated frequency
- Intensity: 100 Gauss (peak); effective over the patient max. 50 Gauss over each solenoid
- Graphic and coloured LCD
- Pre-set protocols
- Free memories
- CMP 1 Plus: single 80 cm large for partial applicfations
- CMP 2 Plus: main solenoid 80 cm large; second solenoid 65 cm large



CMP Plus is an innovative magnetic field generator with couch. The keyboard is installed over the couch and there is no need to connect the couch to any extra device. Everything is included into the couch and the operator may set all parameters by using the electronic keyboard placed over the top of the couch.

From the keyboard the operator may set the available pre-set protocols, storing up to 50 customised memories, using manual function.

CMP 1 Plus is provided with single 80 cm large solenoid for performing treatment over each articulation and segment; CMP 2 Plus is provided with two different solenoids: the first one 80 cm large and the second one 65 cm large, for adapting applications to the area to be treated, from segment up to the whole body of the patient.

The two different solenoids make CMP 2 Plus a very special magnetic couch generator: in fact, the solenoids are placed over two different rails for granting the opportunity to move them for placing them just over the interested area to be treated. This helps the operator to perform both partial and total-body treatment by using the same couch; on the other hand, thanks to this opportunity, space for putting the patient over the couch could be larger.

The first solenoid of 80 cm large is so big that almost all people, also obese people could enter into the solenoid. On this context, the ergonomic couch, further to best comfort of each patient, hast been tested with a load up to 500 kg.

