DYNA MIX uses electrical and mechanical signals for therapeutic treatments.

MECHANICAL DIATHERMY
A new kind of mechanical energy characterized by rarefaction and compression wave with sinusoidal propagation, whose frequency, width, focalization and intensity are controlled by an electronic circuit which, using elaborate algorithms, guarantees the signal to remain constant in frequency, focal width and A.C.P. (Active Control Pulse) intensity.

During the treatment, the density of biological tissues changes dynamically according to parameters such as viscosity, hydration, thickness and temperature. The A.C.P. active control system allows the intensity and the form of the signal to remain constant and able to self-regulate at 10,000 times/second. The low frequency (up to 50 kHz) and the high intensity combined with the A.C.P. control system represent a new generation of mechanical waves which guarantee a perfect interaction with the treated tissues and therefore improve the effectiveness of the physiotherapy, the rehabilitation and the rehabilitative physioaesthetics.

NEUROMODULATION
A new kind of driver produces low and medium frequency microcurrents, with a frequency sweep ranging from 5 to 20 seconds for dynamic treatments or trigger point treatments.

During the treatment the impedance of biological tissues changes dynamically according to parameters such as viscosity, hydration, thickness and temperature. The continuous interaction of the impulses, whose frequency is modulated according to the changes of the biological tissue's parameters, maintains a constant signal throughout the treatment session. Specific electrodes that are automatically recognized by the pilot system D.C.P. (Deep Control Pulse) guarantee a superficial treatment, while other electrodes can be used for a targeted treatment of the deep nerve endings.

ELECTROMAGNETIC DIATHERMY
A new method to control temperature by means of a new, medium frequency driver that generates the emission of a continuous and pulsed electric A.C.P. (Active Control Pulse) field can increase the controlled temperature in the tissues turning electric energy into heat.

DYNA MIX integrated concept for physiotherapy and sport medicine treatments.
PHYSIOTHERAPY  
Arthropathies, calcifications, myofascial pain syndrome, tendinopathies, strains and toxicosis  
Rehabilitation of osteoarticular, muscle-tendon pathologies caused by inflammatory conditions and chronic degenerative conditions. The treatments are performed using exclusively and combining:
- D.A.C.U. controlled mechanical diathermy, which can stabilize the extracellular matrix, increase the nerve conduction, alter the vascular perfusion and increase the nociceptive threshold.
- C.A.D. pulsed and continuous, controlled electromagnetic diathermy, which can increase the temperature at different depth levels, have a muscle-relaxant effect, stimulate the tissue metabolism and increase both venous and lymphatic peripheral microcirculation.
- M.T.D. non-invasive treatment using a low frequency current that increases the tissue permeability in order to help the penetration of both low and high molecular weight substances.

NEUROKINESITHERAPY  
Tissue pain, neurogenic pain, neuropathic pain, neurokinesitherapy  
Treatment of neurogenic pain caused by irritating conditions combined with algic syndromes and nerve entrapments. The Neurostimulation with frequency modulate microcurrents helps the therapist treating the patient, managing his or her pain and optimizing the functional rehabilitation. The Neuromodulation acts directly on the neurogenic pain (chronic pains, algodystrophies, Complex Regional Pain Syndrome...).
The Dynamic Neurotherapy, specifically developed by Dr. Roberto Bergamo FT.D.O., combines the manual therapy with some specific microcurrents applications. Using this method allows a targeted and elective action on entrapment neuropathies (carpal tunnel syndrome, Guyon’s canal syndrome, Toracic Outlet Syndrome, outcome of hemias, spinal canal stenosis...)

REHABILITATIVE PHYSIOAESTETICS  
Lymphedema, lipoedema, scars, anti-aging  
Postural rehabilitation due to disabling, both genetic and post-surgical pathologies, such as inflammations of the lymphatic system and of the microcirculation, as well as of the chronic condition caused by a protein overload. The treatments are performed using exclusively and combining:
- H.I.C.U. high intensity mechanical diathermy, which improves the enzymatic activity, the collagen extensibility and the permeability of the membrane
- H.D.C. temperature controlled electromagnetic diathermy, which generates a localized, programmed hyperthermia. The higher fluids inflow allows a more effective and durable use of H.I.C.U.
- M.T.D. specific electrophoretic currents, already known in aesthetic medicine, improve the tissue permeability, helping the penetration of both low and high molecular weight active ingredients.