

Vet H-Wave



A New Concept in Animal Electrotherapy

Designed specifically for veterinary applications, the Vet H-Wave is an electrotherapy instrument that provides fast and effective treatment for soft tissue injuries to small and large animals. High frequency treatment provides instant pain relief whereas low frequency muscle stimulation reduces swelling, improves blood and lymphatic flow, thus reducing healing time dramatically.

This professional instrument is extensively used by qualified animal physiotherapists and veterinary surgeons. It is also used in hospitals and NHS pain clinics and is therefore fully CE certified to the European Medical Devices Directive standards.

The MIE Vet H-Wave is a 2 channel electrotherapy unit that uses a closed cell rechargeable battery, allowing you to work all day in "the field" and be recharged overnight. It weighs less than 3Kgs and comes complete with a padded carrying bag, re-usable electrodes, cables and battery charger.

Unlike the common TENS electrotherapy instruments, the MIE Vet H-Wave has a unique waveform that replicates the natural nerve signal known as the Hoffman reflex (hence H-Wave). This waveform is readily accepted by the body, unlike unnatural electrical signals, such as sine waves or square waves etc. Using the body's own natural waveform allows the signal to penetrate more deeply but with less current. This not only makes the treatment more comfortable, but also more effective. Most animals are more sensitive to electrical stimulation than humans, so the type of waveform used is critical for successful treatment.

Unlike any other electrotherapy treatment, multiple frequencies can be administered at the same time thus increasing therapeutic function whilst also reducing treatment time.

mie medical research ltd

What is the Vet H-Wave?

The MIE Vet H-Wave is a unique electrotherapy machine, which combines muscular and neurological stimulation (MANS) for the first time. It has been developed over a number of years and heralds a new generation in soft tissue injury treatment.

The MIE Vet H-Wave generates a signal that is revolutionary in electrotherapy: a bipolar exponential decaying waveform that enables greater and deeper penetration of a lower current, whilst using significantly less power than other machines. This new technique is particularly effective for the treatment of animals most of which are more sensitive to stimulation.

TWO MODES OF ACTION

The Vet H-Wave can be applied in two ways: using low frequency and/or high frequency impulses through special pads placed over and near the injury.

LOW FREQUENCY (2Hz)

The low frequency "therapeutic" mode creates visible muscular contractions, which increase the venous return of blood and stimulates lymphatic drainage through an injury site.

The dramatic increase in blood and lymph flow accelerates the removal of pain-producing chemicals and toxins that build up around the injury, thus reducing pain. The lymphatic system can then operate more efficiently which, in turn, assists the removal of oedema and stimulation of the healing process.

The Vet H-Wave moves all muscle groups comfortably and with no appreciable muscle fatigue or discomfort to the animal.

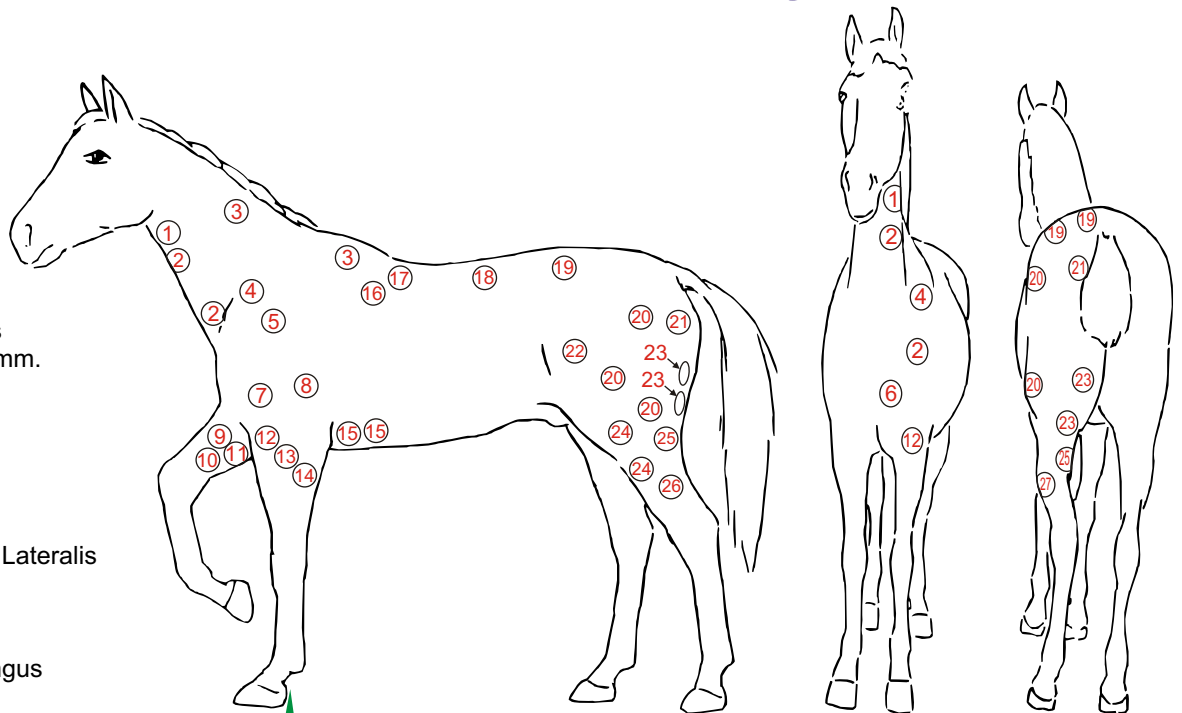
HIGH FREQUENCY (60Hz)

The high frequency "pain control" mode produces a different therapeutic effect: that of deep analgesia/anaesthesia. This is achieved by shutting down the transmission of pain signals and is also believed to stimulate the animal's own natural pain-reducing chemicals known as endorphins.

In acutely painful conditions the Vet H-Wave, on high frequency, may be applied to anaesthetise an area before proceeding with low frequency therapy treatment. If discomfort persists after low frequency therapy, high frequency can be continued to be used to improve comfort.

Typical Treatment Points For Major Muscles

1. Sternocephalic
2. Brachiocephalic
3. Trapezius/Rhomboid
4. Supraspinatus
5. Deltoid/infraspinatus
6. Superficial Pectoral
7. Brachialis/Teres Minor
8. Triceps
9. Flexor Carpi Ulnaris
10. Superficial Gluteal
11. Deep Digital Flexor
12. Extensor Carpi Radialis
13. Extensor Digitorum Comm.
14. Extensor Carpi Ulnaris
15. Deep Pectoral
16. Latissimus Dorsi
17. Semispinalis
18. Longissimus
19. Superficial Gluteal
20. Biceps Femoris/Vastus Lateralis
21. Semitendinosus
22. Rectus Femoris
23. Semimembranosus
24. Extensor Digitorum Longus
25. Gastrocnemius
26. Extensor Digitorum Lateralis



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