

DERMO JET

by Doctor KRANTZ (1)
(registered trademark & pattern)

AUTOMATIC GUN FOR HIGH PRESSURE
NEEDLELESS INJECTIONS

model VACCIJET®

The DERMOM JET gun is a compact and autonomous appliance with automatic filling that requires no exterior source of energy.



■ **LIGHT WEIGHT :**

Weight about 700 grams.

■ **RELIABLE :**

Strong, silent, rapid (1000 injections/hour).

■ **ROBUST :**

Made in high technology materials.

■ **ERGONOMIC :**

Easy to use and well balanced, it can be used intensively without unnecessary effort.

■ **ATTRACTIVE DESIGN :**

An appliance with pure and modern lines, entirely polished and with a perfect finish.

■ **EFFICIENT :**

Fitted with a swiveling bottle support so that it can be used at any angle.

■ **EASY TO USE :** It is filled by simply pulling the lever which instantaneously liberates, depending on the model used, regular doses of 0.1 ml or 0.2 ml of the injection liquid through the capillary orifice. The pressure of the jet can be adjusted by turning the knurled ring at the back of the appliance.

■ **STERILISABLE :** At 180° C, (dry or humid air)

GUARANTEE : ONE YEAR against all faulty manufacture (parts and labor)



(1) Dr. Alfred KRANTZ, inventor of the "DERMO JET", the needleless intradermic injector, comes from STRASBOURG (France) where he studied medicine.

It has taken over 10 years of research to perfect the appliance in its present form.

Today it is known all over the world, and since it was launched, "DERMO-JET" has met with considerable success. Twelve doctorate theses have been written on it. Hundreds of articles and statements that have appeared in international reviews have mentioned the DERMOM-JET and its large number of uses in human and veterinary medicine as well as in dental surgery.

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USAGES:

AUTOMATIC GUN FOR HIGH PRESSURE NEEDLELESS INJECTIONS

model VACCIJET®

Two models have been especially designed for intradermic or sub-cutaneous injections.

- **TYPE 01 - VACCIJET** set for a unique monojet dose of 0.1 ml
- **TYPE 02 - VACCIJET** set for a unique monojet dose of 0.2 ml
(model normally used in veterinary medicine)

Each type of appliance corresponds to a specific use, according to the volume of product required for each injection.

■ **PROPHYLACTIC TREATMENT**, by collective vaccination, for the protection of animals against infectious diseases which threaten stockbreeding.

- Myxomatosis in rabbits, etc.
- Mastitis in cows
- Ectima in sheep
- Tuberculin testing on cattle
- Aujesky's disease

The advantages of VACCIJET make it an excellent instrument for use in collective prophylaxis campaigns. Restraint is unnecessary as the injection is totally painless. Only the noise may surprise the animal, but by the time it moves, the vaccination is finished.

The time saved as a result of this type of automatic, needleless vaccination is considerable which means a great reduction in production costs for the user.

■ **VETERINARY MESOTHERAPY**

- Interdigital, persistent pain, viral keratitis
- Auricular catarrh - average and chronic otitis, rhino-tonsillitis, perianal infections.
- Degenerative rheumatism, arthrosis, paralysis in dachshunds.
- Sprains, slipped discs, dislocation of the meniscus.
- Traumatism, (painful scars and activation of the cicatrization).
- Cutaneous infections due to allergies (hyodermatitis, intertrigo).
- Chronic enteritis, gastroenteritis and parvovirus.
- Hypertrophic or haemorrhagic rhinitis.
- Alopecia in dogs.
- Neuritis and polyneuritis.
- Coryza in cats.
- Staphylococcus in dogs.
- Synovial oedema in the Knees of horses.
- etc...

■ **SURGERY**

By placing several contiguous papules, one produces a zone in which an incision can be made with a bistouri (biopsies, lancing of abscesses, minor surgery, dental care, punctures, etc.) - Laparatomies : Ovariectomies, Enterotomies, etc.

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■ LOCAL ANASTHESIA

The “VACCIJET” permits the carrying out of local anesthesia instantaneously and without any preparation, by intradermal projection of a small quantity of anesthetic. Although it's local, this anesthesia permits the user to then thrust a needle to any depth required.

All injectable preparations can be used. The criteria determining the choice of associations must be adapted to each individual case and are identical to those used in normal allopathic medicine (anti-inflammatory medicines, eutrophics, antalgics or metabolics).

■ VACCINATION OF MEAT PIGS against Aujeszki's disease.

Injection of the appropriate medicine, prescribed by the veterinarian, is carried out intradermally at constant volume, which permits the immunization of pigs.

BASIC MODEL - DESCRIPTION

The automatic gun, VACCIJET, is a syringe without a needle but with automatic chamber-filling capabilities. It is entirely mechanical and designed for giving intradermic and sub-cutaneous injections only.

- The body is in the shape of a cylinder divided into three parts.
 - a) a syringe body which consists of a small diameter piston and its spring.
 - b) An injection head fitted with a capillary jet.
 - c) a detachable nozzle
- The grip and lever unit which can be completely detached
- An adjustable support for piercable bottles of all sizes.
- A coupling for a “Luer” or “Luer Lock” syringe.



USAGE INSTRUCTIONS

DESCRIPTION: Bottle holder and reservoir.

The DERMO-JET 'AUTOMATIC' can be fitted with either a bottle holder or a reservoir.

The device can take bottles of up to 50 ml that are simply pushed onto the base; the device then operates in a closed circuit, requiring no transfer of liquids.

Practitioners formulating their own medicinal solutions are advised to use a 10 ml reservoir (sufficient for approximately 100 injections). The device is easy to fill using a syringe; simply insert the needle in the hole located in the top of the stopper (no. 475). The reservoir is graduated for easy filling.

INJECTION TECHNIQUE

Prime the device by squeezing the trigger (no. 445) several times as far as the point of resistance before firing. If this procedure does not work, loosen and tighten the injection head several times (without completely unscrewing it). Another method is to fill the back of the injection head with solution using a syringe (this is the part of the head that is screwed to the device and is penetrated by the end of the plunger).

When activated, the device should make a duller, quieter noise. To perform the injection, squeeze the trigger to the point of resistance, position the head against the skin and perpendicular to it, then press the trigger with the fingertips to fire. The result of the injection is identical to that of the Dermo-Jet Medical. Depth of penetration will depend on the site of injection, the distance from anti angle to the skin. In general, the depth will be 4 to 6 mm. Immediate visual inspection should reveal a papule with a small hole in the top. As the gun is easily rearmed, two or three doses may be given on exactly the same site if the treatment so requires.

CHANGING THE BOTTLE DURING VACCINATION

If the bottle containing the injectable solution needs changing during vaccination, there is no need to wait for it to empty. So as not to unprime the gun and avoid waste, the remaining solution can be syringed out of the almost empty bottle. The contents of the syringe can then be injected into the new bottle and vaccination can continue.

MAINTENANCE

For optimum performance, the tone joints should be checked regularly. This particularly applies to toric joint R3 (no. 106); this joint should be replaced approximately every 5000 injections. It is recommended not to leave medicinal solutions to stagnate, as they may decompose.

Before sterilization, the device must be rinsed out with distilled water (hot, if possible). One simple, efficient method is to fill the reservoir with about 1 ml of distilled water, then fire the gun to empty it. This will avoid the solution crystallizing and blocking the injection head aperture.

It is strongly recommended NOT to fire the device when empty.

STERILIZATION

All parts of the device are made from materials resistant to high temperatures in the order of 134°C and may therefore be sterilized by any of the usual methods (dry or moist air).

It is, however, preferable to wrap the device in damp gauze before sterilizing in an autoclave, so as to avoid dulling the metal parts. Do not forget to clean the outside of the gun, which can be dried with a paper towel or a clean, dry cloth.

WARRANTY

The length of the warranty is one year with effect from the date of shipment.

This warranty does not cover damage or deterioration resulting from improper use of the device, including lack of maintenance or accidents or anything arising from modifications, renovations, conversions or repairs performed without our prior agreement.

The warranty is strictly limited to the device itself and does not cover operating losses or expenses attributable to the immobilization of the device.

We may in no way be held responsible for the result of the vaccinations or inseminations performed. It is the user's responsibility to perform a visual inspection of the penetration of the solution injected, particularly by checking for the presence of a papule on the injection site.