



The Hu-Friedy maintenance tip:

## PROBLEMS WITH SCISSORS?

Broken points? Rusting hinges?

The intention of this brief summary is to help you to recognise the most frequent problems and to indicate ways of avoiding their occurrence. The cost of instrument maintenance is low and regular attention can enhance instrument appearance and extend working life.

### BROKEN POINTS



Scissors (and all other hinged instruments) must be cleaned and sterilised frequently. When the scissors are cleaned with the blades in a "closed" position the blades (which are the most sensitive part) are under light pressure. Due to the heat of the autoclave the metal expands, which increases this pressure. The points may be affected by this pressure and breakage could occur.

Should the scissor points come into contact with other instruments or be dropped on the floor prior to cleaning, there exists a high possibility that micro-fracture of the metal will occur which may lead to breakage during cutting.

Substances containing chloride (and blood contains chloride), with a normal or a too high concentration, might cause pitting, especially when the instruments are submerged for a long period of time in the solution and are not adequately rinsed afterwards. This pitting inevitably leads to breakage, especially at the tips. We recommend that blood and protein debris should be removed by ultrasonic cleaning using a product designed for the task (i.e. Enzymax).

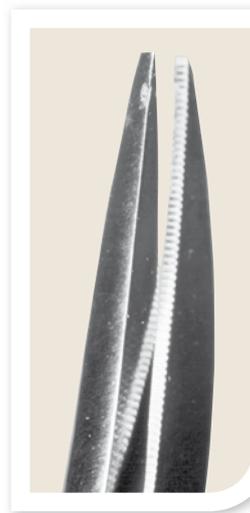
### RUSTY HINGES



High grade stainless steel is stain "less" but is not immune from corrosion. At the pivot of the hinge friction occurs. The particles produced by this friction come into contact with oxygen and water and the rust process starts. During sterilisation transference of rust can be transmitted to and attack the metal of other instruments. "Transferred rust" is found mainly in areas of the hinge and the blades, as these areas

need longer to dry. The resulting corrosion extends throughout the hinge area, breakage then occurring due to the increased stress caused by cutting. All this may be avoided by the regular application of a lubricating and protective spray.

### BLUNT (DULL) SCISSORS



It is quite normal that over time, scissors will gradually become blunt after continual use. They will also become blunt when they are cleaned in an "open" position (ultrasonic bath) if they come into contact with other instruments.

Scissors, therefore, are best cleaned by themselves or in cassettes (IMS) with an adequate locking device.

Please do not forget that scissors should only be used in an appropriate area of application

(e.g. tissue scissors should not be used for suture removal).

Hu-Friedy stocks for you all the necessary maintenance lubricants. We recommend "IPS" instrument maintenance lubricant with penetration oil to combat against oxidation and the instrument lubricant spray "ILS" protects new non-contaminated instruments.

Should you have further questions relating to the maintenance of your instruments, please do not hesitate to contact us.



Hu-Friedy offers an Instrument Management System (IMS) for the complete handling of your instruments, from dental treatment, cleaning and sterilisation through to storage. Use of this system helps to save time and money.

Ask for more information.

# Cleaning and Maintenance of Instruments

Hu-Friedy has the optimal products for all cleaning problems for your high quality instruments to function perfectly longer.

## LILAC GLOVES

Three pack of flocklined nitrile utility gloves for use when cleaning and processing instruments. Puncture and chemical resistant with a non-slip grip. Steam autoclavable up to 250°F/121°C up to five times.

- Small (Size 7) **40-060**
- Medium (Size 8) **40-062**
- Large (Size 9) **40-064**
- Extra Large (Size 10) **40-066**

(There are 3 pairs in each package)



## ILS SPRAY

For lubricating hinges and locks on scissors, forceps, bone rongeur forceps, needle holders, hemostats, etc. It is applied before sterilisation and does not dry out during sterilisation. Protects against fretting corrosion and deposits and ensures the proper function of the instruments. Keeps hinged instruments moving freely.

**ILS Instrument Lubricant Spray**  
8 oz (236 ml)



## SHINE reNEW

Effectively removes stain and rust, restoring the luster to instruments.

- For use on stainless steel, copper, brass, anodized aluminum and tungsten carbide.
- Keeps hinged instruments moving freely by dissolving built-up residue
- Eliminates the need for abrasive scrubs
- Quick and simple to use

**IMS-1455 Instrument Wipes**  
(20 wipe canister)



## IPS PENETRATING OIL

Oil for releasing fixed hinges and for removing loose rust particles and surface corrosion. Removes light rust and corrosion to loosen problem joints

**IPS Penetrating Oil** 8 oz (236 ml)

## INSTRUCTION FOR USE: ENZYMAX

**ENZYMAX** Dual Enzyme Ultrasonic Detergent is specifically formulated for efficient ultrasonic cleaning or pre-soaking of cassettes and instruments. Contains Steelgard agents to protect instruments from harmful minerals naturally found in water that contribute to buildup, spotting and corrosion. Can also be used as an evacuation system cleaner.

**ENZYMAX** is perfectly suitable for the removal of blood, proteins and other substances. Especially for surgical, endodontic and all other instruments that get contaminated with blood.

Do not use disinfectants together with ENZYMAX.

### Easy application

Use with water 32°-60°C, demineralized water is ideal. Change solution at least once a day.

### Instrument presoak:

Add 30ml of concentrate per 3.8L of water. Bottles with pump insert: pump one time per liter of water. Soak for 3-5 minutes. Rinse, dry thoroughly and proceed with sterilisation.

### Linen presoak:

Approx. 9 caps for 4 liters or 2 packets or 2 liquid packs or pump 9 times. Soak clothing for 10 minutes. Proceed with normal washing.

### Ultrasonic bath:

Add 30ml of concentrate per 3.8L of water. Bottles with pump insert: pump one time per liter of water. IMS-1222: 1 pck. (10 ml): 1 packet is sufficient for 3,5 liters of water. Rinse, dry thoroughly instruments and cassettes, then proceed with sterilisation.

**Your practice and patients deserve the best, so count on Enzymax for a superior level of instrument cleaning.**



Partcode	Description
<b>IMS-1222</b>	Box of 40 packets of 10 ml (makes 151 liters)
<b>IMS-1224</b>	Quart bottle, 950 ml, with pump (makes 121 liters)
<b>IMS-1224P</b>	Pump for 950 ml Bottle
<b>IMS-1226</b>	Gallon bottle, 3,8 l (makes 485 litres)
<b>IMS-1226P</b>	Pump for 3,8 l Bottle
<b>IMS-1229</b>	Enzymax Spray Gel, 709ml bottle (for up to 450 sprays)
<b>IMS-1232</b>	Enzymax PAX, 32 dissolvable single-use powder packets (makes 121 liters)
<b>IMS-1230</b>	Enzymax Powder, 800 g powder (makes 189 liters)
<b>IMS-1230C</b>	Enzymax Powder, 6 containers of 800g powder (makes 1,134 liters)
<p><b>Enzymax Earth offers the same superior cleaning attributes as Enzymax, plus an increased awareness of our environment. Hu-Friedy's line of green detergents Enzymax Earth, is biodegradable and phosphate free making it safer for the environment.</b></p>	
<b>IMS-1332</b>	Enzymax Earth, 32 dissolvable single-use powder packets (makes 121 liters)
<b>IMS-1333</b>	Enzymax Earth, 96 dissolvable single-use powder packets (makes 363 liters)
<b>IMS-1336</b>	Enzymax Earth, Gallon bottle (3,8l) (makes 485 liters)