



INSTRUMENT MANAGEMENT

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THE INSTRUMENT MANAGEMENT SYSTEM CYCLE

Optimal infection prevention is facilitated by the use of tools that allow for improved efficiency and safety. Instrument integrity is further enhanced by the use of Hu-Friedy's Instrument Management System (IMS). IMS allows clinicians to move instruments from cleaning through chairside without touching or damaging the instruments.

1. Chairside: Patient Preview & Presentation

- Systematically organizes instruments according to procedure type, allowing for more focus on patients and less time spent looking for missing instruments
- Neatly organized instruments offer more professional appearance and can help enhance referrals

2. Cleaning: Processed & Prepped

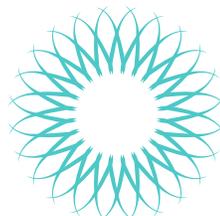
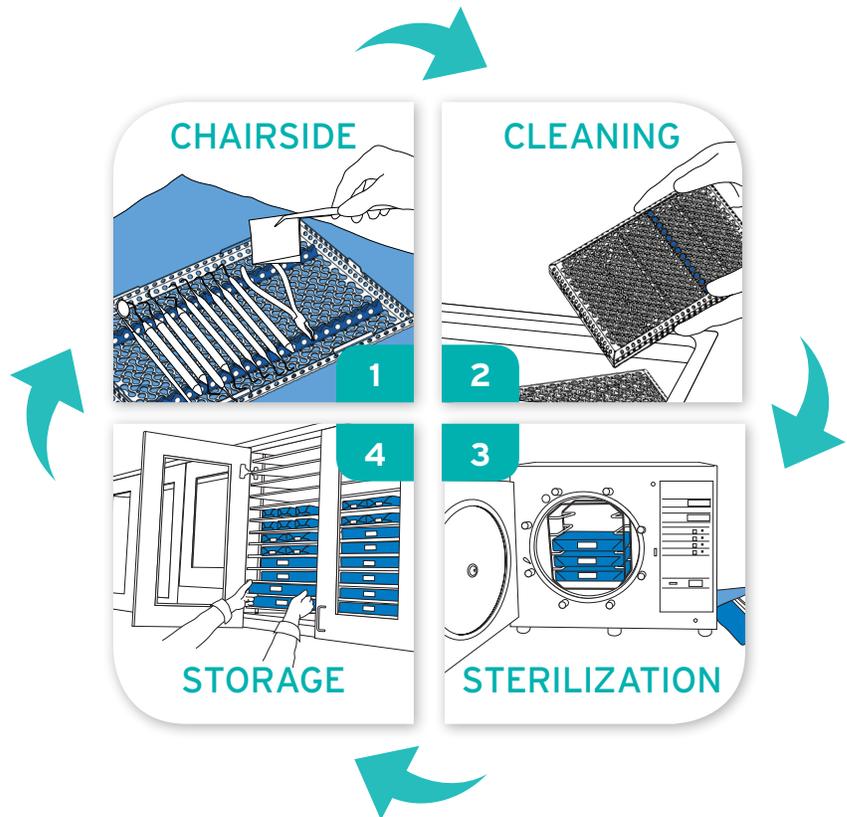
- Instruments are kept together throughout cleaning, rinsing and drying, reducing the potential for breakage or loss
- Minimizes handling of instruments, reducing the chance for sharps injuries

3. Sterilization: Wrapped & Ready

- Complete procedures are packaged in IMS Sterilization Wrap and placed in autoclave together to help reduce consumable usage
- Reduced handling of instruments provides safer protocol and minimizes liability

4. Storage: Neat & Complete

- Ready for use or storage until needed for increased time savings
- Complete procedural set-ups for easy set-up and teardown





Ergonomic latch with positive locking mechanism is safe and easy-to-use, allows one-handed opening and visual confirmation if the cassette is locked / unlocked. (Figure 2)

Revolutionary new hole pattern design creates 30% additional open area for more access during cleaning and sterilization, and is compatible with current cleaning equipment, including automated washers.

Innovative color-coded silicone rail system, available in 11 color options, significantly reduces instrument contact, allowing for more water flow while protecting the instruments during reprocessing. (Figure 1)

High quality, electropolished stainless steel protects against corrosion while providing a professional appearance.

Smooth round corners and slotted edges increase drainage and reduce drying time.

New beveled edge allows for a more ergonomic grasp.

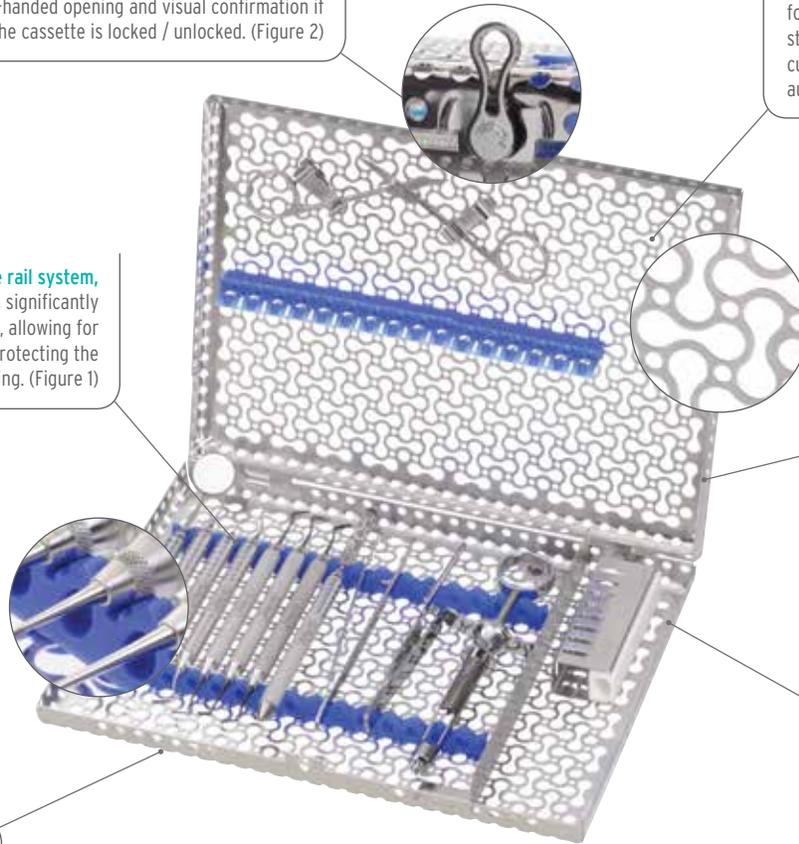


Figure 1



Figure 2



IMS INFINITY SERIES™ CASSETTES

IMS Infinity Series™ Cassettes are made of long-lasting, low-maintenance stainless steel. Soft, colored silicone rails securely hold instruments throughout the processing cycle. Available in over 100 different sizes, configurations and color options, cassettes can be specialized to meet your needs.



Exam Cassette - 5 Instruments

Exterior Dimensions 3" x 8" x 1.25"
(76 mm x 203 mm x 32 mm) Holds 5 instruments.

Red	■	IMN6050
Gray	■	IMN6051
White	□	IMN6052
Orange	■	IMN6053
Purple	■	IMN6054
Yellow	■	IMN6055
Lavender	■	IMN6056
Black	■	IMN6057
Blue	■	IMN6058
Green	■	IMN6059
Ocean Blue	■	IMN60511



Small Cassette - 8 Instruments

Exterior Dimensions 5.5" x 8" x 1.25" (140 mm x 203 mm x 32 mm) Holds 8 instruments with an accessory area.

Red	■	IMN5080
Gray	■	IMN5081
White	□	IMN5082
Orange	■	IMN5083
Purple	■	IMN5084
Yellow	■	IMN5085
Lavender	■	IMN5086
Black	■	IMN5087
Blue	■	IMN5088
Green	■	IMN5089
Ocean Blue	■	IMN50811



Small Cassette - 10 Instruments

Exterior Dimensions 5.5" x 8" x 1.25"
(140 mm x 203 mm x 32 mm) Holds 10 instruments.

Red	■	IMN5100
Gray	■	IMN5101
White	□	IMN5102
Orange	■	IMN5103
Purple	■	IMN5104
Yellow	■	IMN5105
Lavender	■	IMN5106
Black	■	IMN5107
Blue	■	IMN5108
Green	■	IMN5109
Ocean Blue	■	IMN51011



Signa-Stat Cassette - 12 Instruments

Exterior Dimensions 6.5" x 10.5" x 1.25" (165 mm x 267 mm x 32 mm) Holds 12 instruments with an accessory area. Fits in SciCan® STATIM® or the Midmark M3 autoclave.

Red	■	IMN8120
Gray	■	IMN8121
White	□	IMN8122
Orange	■	IMN8123
Purple	■	IMN8124
Yellow	■	IMN8125
Lavender	■	IMN8126
Black	■	IMN8127
Blue	■	IMN8128
Green	■	IMN8129
Ocean Blue	■	IMN81211



IMN416x, 16 Instrument Cassette shown left. Also available in 12 instrument cassette with larger accessory area (IMN-412x).

Large Cassette with Accessory Area - 12 or 16 Instruments

Exterior Dimensions 8" x 11" x 1.25" (203 mm x 280 mm x 32 mm) Also available in 8" x 10.5" x 1.25" size (IMN416xQ) to fit unique ultrasonic tanks.

		12 Instrument	16 Instrument
Red	■	IMN4120	IMN4160
Gray	■	IMN4121	IMN4161
White	□	IMN4122	IMN4162
Orange	■	IMN4123	IMN4163
Purple	■	IMN4124	IMN4164
Yellow	■	IMN4125	IMN4165
Lavender	■	IMN4126	IMN4166
Black	■	IMN4127	IMN4167
Blue	■	IMN4128	IMN4168
Green	■	IMN4129	IMN4169
Ocean Blue	■	IMN41211	IMN41611



Large Cassette - 20 Instruments

Exterior Dimensions 8" x 11" x 1.25" (203 mm x 280 mm x 32 mm) Holds 20 instruments.

Red	■	IMN4200
Gray	■	IMN4201
White	□	IMN4202
Orange	■	IMN4203
Purple	■	IMN4204
Yellow	■	IMN4205
Lavender	■	IMN4206
Black	■	IMN4207
Blue	■	IMN4208
Green	■	IMN4209
Ocean Blue	■	IMN42011



Double-Decker® Cassette - 8 Instruments

Exterior Dimensions 3" x 8" x 1.5" (76 mm x 203 mm x 38 mm)
Holds 8 instruments.

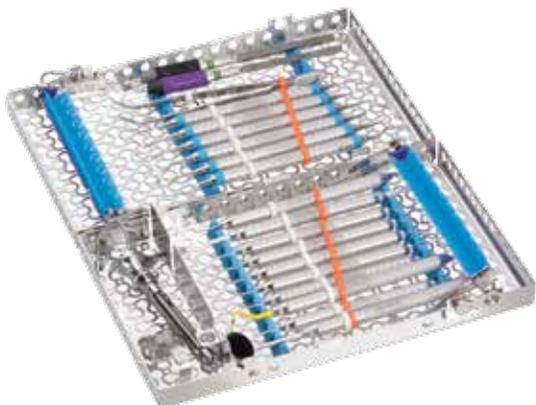
Red	■	IMN9080
Gray	■	IMN9081
White	□	IMN9082
Orange	■	IMN9083
Purple	■	IMN9084
Yellow	■	IMN9085
Lavender	■	IMN9086
Black	■	IMN9087
Blue	■	IMN9088
Green	■	IMN9089
Ocean Blue	■	IMN90811



Double-Decker® Cassette - 14 Instruments

Exterior Dimensions 4.5" x 8" x 1.5" (114 mm x 203 mm x 38 mm)
Holds 14 instruments.

Red	■	IMN9140
Gray	■	IMN9141
White	□	IMN9142
Orange	■	IMN9143
Purple	■	IMN9144
Yellow	■	IMN9145
Lavender	■	IMN9146
Black	■	IMN9147
Blue	■	IMN9148
Green	■	IMN9149
Ocean Blue	■	IMN91411



Double-Decker® Cassette - 20 Instruments

Exterior Dimensions 6" x 9.7" x 1.5" (152 mm x 246 mm x 38 mm)
Holds 20 instruments with an accessory area. Has a built-in needle cap holder and slot for a winged syringe.

Red	■	IMN9200
Gray	■	IMN9201
White	□	IMN9202
Orange	■	IMN9203
Purple	■	IMN9204
Yellow	■	IMN9205
Lavender	■	IMN9206
Black	■	IMN9207
Blue	■	IMN9208
Green	■	IMN9209
Ocean Blue	■	IMN92011



Oral Surgery Cassette

Exterior Dimensions 8" x 14.5" x 1.25" (203 mm x 368 mm x 32 mm) Accommodates 12 instruments, 4 elevators, 3 hinged instruments in the lid and a separate accessory area.

Fits in most 10" chambers or larger sterilizers, most instrument washers and larger ultrasonics.

Red	■	IMNOS0
Gray	■	IMNOS1
White	□	IMNOS2
Orange	■	IMNOS3
Purple	■	IMNOS4
Yellow	■	IMNOS5
Lavender	■	IMNOS6
Black	■	IMNOS7
Blue	■	IMNOS8
Green	■	IMNOS9
Ocean Blue	■	IMNOS11



Small Ultrasonic Insert/Handpiece Cassette



Large Ultrasonic Insert/Handpiece Cassette

Ultrasonic Insert/Handpiece Cassette

Small: Exterior Dimensions 1.5" x 8" x 1.25" (38 mm x 203 mm x 32 mm)

Large: Exterior Dimensions 3" x 8" x 1.25" (76 mm x 203 mm x 32 mm)

		Small Cassette	Large Cassette
Red	■	IMN30HU0	IMN60H0
Gray	■	IMN30HU1	IMN60H1
White	□	IMN30HU2	IMN60H2
Orange	■	IMN30HU3	IMN60H3
Purple	■	IMN30HU4	IMN60H4
Yellow	■	IMN30HU5	IMN60H5
Lavender	■	IMN30HU6	IMN60H6
Black	■	IMN30HU7	IMN60H7
Blue	■	IMN30HU8	IMN60H8
Green	■	IMN30HU9	IMN60H9
Ocean Blue	■	IMN30HU11	IMN60H11

Small holds 2 Ultrasonic Inserts or 1 handpiece.

Large holds up to 3 high-speed handpieces or 5 ultrasonic inserts.



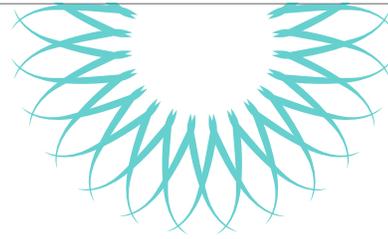
Radiography Cassette

Exterior Dimensions 5.5" x 8" x 1.25" (140 mm x 203 mm x 32 mm)

Holds heat sterilizable x-ray accessories | **IMN7000**



IMS INFINITY SERIES™ CASSETTES



Large Thin Orthodontic Cassette

Exterior Dimensions 8" x 11" x 0.75" (203 mm x 280 mm x 19 mm)
Holds up to 7 pliers and 4 hand instruments

Purple	■	IMNORTHL4
Blue	■	IMNORTHL8
Green	■	IMNORTHL9



Small Thin Orthodontic Cassette

Exterior Dimensions 7" x 8" x 0.75" (178 mm x 203 mm x 19 mm)
Holds up to 4 pliers and 3 hand instruments

Purple	■	IMNORTHS4
Blue	■	IMNORTHS8
Green	■	IMNORTHS9



Double-Decker® Small Orthodontic Cassette

Exterior Dimensions 4.5" x 8" x 1.5" (114 mm x 203 mm x 38 mm)
Holds up to 4 pliers, a Mathieu needle holder and 2 hand instruments

Red	■	IMN9140-O
Gray	■	IMN9141-O
White	□	IMN9142-O
Orange	■	IMN9143-O
Purple	■	IMN9144-O
Yellow	■	IMN9145-O
Lavender	■	IMN9146-O
Black	■	IMN9147-O
Blue	■	IMN9148-O
Green	■	IMN9149-O
Ocean Blue	■	IMN91411-O

IMS PARTS BOX

Designed to keep small items such as rubber dam clamps and matrix band retainers organized during the sterilization process.

IMS Large Parts Box

| IMS-1273

Exterior Dimensions: 3.5" x 1.12" x 1"
(89 mm x 29 mm x 25 mm)



IMS Small Parts Box

| IMS-1271

Exterior Dimensions: 1.56" x 1.25" x 1"
(40 mm x 32 mm x 25 mm)

IMS CASSETTE BARCODE CLIP

Snap-on Barcode for outside of Cassettes

| IMS-CABL

Dimensions: .75" x 2.26" x .067"
(19 mm x 57.4 mm x 1.7 mm)

Contains lasermarked barcode to be used for identification and tracking purposes. Compatible with standard barcode reader. Follows HIBC barcode standards. Lasermark tested to last more than 800 sterilization cycles. (Shown at 50% actual size.)



IMS ENDODONTIC STAND

Hinged, double-lid stand holds endodontic files and reamers. Lid is etched with a ruler to measure stop positions easily from either direction.

IMS Endodontic Stand, Holds 24

| IMS-1275

Exterior Dimensions:
2.6" x 2.25" x 1.2"
(67 mm x 57 mm x 30 mm)



IMS-1275

IMS Endodontic Stand, Holds 48

| IMS-1275D

Exterior Dimensions:
2.6" x 2.25" x 1.2"
(67 mm x 57 mm x 30 mm)

AIR WATER SYRINGE CLIPS - RESIN CASSETTES

Designed to fit large or small Resin Cassettes. Clip holds air/water syringe tip securely in place throughout cleaning and sterilization.

IMS Resin Cassette Clip

| IMS-1278

For large resin cassettes

IMS Resin Cassette Clip

| IMS-1279

For small two-tier resin cassettes



IMS-1278

AIR AND WATER CLIPS

Designed to fit large or small IMS Cassettes. (pictured right) Signature Series IMS clips can be permanently installed in your cassettes

Infinity Series Air/Water Clip

| IM1005N

Signature Series Air/Water Clip

| IM1005

Infinity and Signature Series Double-Decker Air/Water Clip

| IM1006



CASSETTE ACCESSORIES



IMS BUR CUSHIONS

A hollow, rectangular, silicone base with a stainless steel lid that is designed to hold burs securely in place during cleaning and sterilization. Hollow design allows drainage and proper cleaning.



IMS Bur Cushion, Short Lid

| IMS-1372S

Holds 12 burs.
Exterior Dimensions:
3.3" x 1.3" x 0.9"
(84 mm x 33 mm x 22 mm)

IMS 1/2 Bur Cushion, Short Lid

| IMS-1372SH

Holds 6 burs.
Exterior Dimensions:
1.75" x 1.3" x 0.9"
(44 mm x 33 mm x 22 mm)



IMS Bur Cushion, Tall Lid

| IMS-1372T

Holds 12 burs.
Exterior Dimensions:
3.3" x 2.44" x 0.9"
(84 mm x 62 mm x 22 mm)

IMS 1/2 Bur Cushion, Tall Lid

| IMS-1372TH

Holds 6 burs.
Exterior Dimensions:
1.75" x 2.44" x 0.9"
(44 mm x 62 mm x 22 mm)

IMS RUBBER DAM CLAMP ORGANIZING BOARD

RDC Organizing Board

| RDCOB

Dimensions: 4.6" x 2.4" x .375"
(117 mm x 61 mm x 10 mm)



not actual size

Holds up to 8 clamps during sterilization. Fits into cassette accessory area.

HINGED INSTRUMENT CLIPS

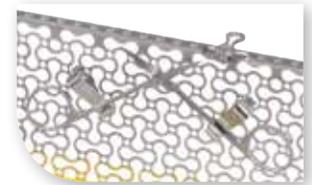
Secure scissors, hemostats and air/water syringe tips in lid of cassette.

Hinged Instrument Clips, 2-Pack

| IM1000

Hinged Instrument Clips, 6-Pack

| IM1002



NEEDLE CAP HOLDER

Needle Cap Holders, 2-Pack

| IM1001

Needle Cap Holders, 6 Pack

| IM1003

Combination Pack**

| IM1004

**6 snap-in needle cap holders and 6 snap-in hinged instrument clips. Maintains cap in upright position for one-handed needle recapping.



Complete list of cassette replacement parts can be found on Hu-Friedy.com/IMS-Replacement-Parts



IMS INFINITY SERIES™ COLLECTION

The IMS Infinity Series Collection features a compilation of clinicians' most popular procedural set-ups. Simply order a Collection today and receive high quality Hu-Friedy instruments and IMS cassettes together in procedural set-ups at significantly reduced prices. Create a professional, efficient working environment with the IMS Infinity Series Collection.



Perio

| **IMNPERIO**

Double-Decker® Infinity Series Cassette

14 Instrument Cassette, Blue	IMN9148
Satin Steel® Mirror Handle	MH6
5 Front Surface Mouth Mirror, 3 pack	MIR5/3
11/12 Old Dominion University Explorer, Satin Steel Handle	EXD11/126
CP-12 Color-Coded Probe, Satin Steel Handle	PCP126
EverEdge® H6/H7 Hygienist Scaler	SH6/79
EverEdge 204S Sickle Scaler	S204S9
EverEdge 1/2 Gracey Curette	SG1/29
EverEdge 7/8 Gracey Curette	SG7/89
EverEdge 11/12 Gracey Curette	SG11/129
EverEdge 13/14 Gracey Curette	SG13/149
EverEdge 13/14 Columbia University Curette	SC13/149
3C Ceramic Sharpening Stone	SS3C
A/W Syringe Tip Clip	IM1006



Prophy

| **IMNPROPHY**

Small Infinity Series 10 Instrument Cassette, Lavender	IMN5106
Satin Steel Mirror Handle	MH6
5 Front Surface Mouth Mirror, 3 pack	MIR5/3
11/12 Old Dominion University Explorer, Satin Steel Handle	EXD11/126
CP-12 Color-Coded Probe, Satin Steel Handle	PCP126
EverEdge H6/H7 Hygienist Scaler	SHG/79
EverEdge 11/12 Gracey Curette	SG11/129
EverEdge 13/14 Gracey Curette	SG13/149
EverEdge 13/14 Columbia University Curette	SC13/149
3C Ceramic Sharpening Stone	SS3C
A/W Syringe Tip Clip	IM1005N

These collections may be ordered using the collection part code bolded at the top of the list (ex. **IMNPERIO**).



Exam

| IMNEXAM

Exam Infinity Series 5 Instrument Cassette, Yellow	IMN6055
Satin Steel® Mirror Handle	MH6
5 Front Surface Mouth Mirror, 3 pack	MIR5/3
5 Explorer, Satin Steel Handle	EXD56
CP-12 Color-Coded Probe, Satin Steel Handle	PCP126
U17 Utility Pick-Up Dressing Pliers	DPU17



Sinus Lift

| IMNSINUS

Large Infinity Series 12 Instrument Cassette, Gray	IMN4121
2-Pack Signature Series Hinged Instrument Clips	IM1000
Buser Periosteal, Satin Steel Handle	PPBUSER6
Palti Bone Graft Scoop	IMP6522
Bone Tamper 7 mm	BONT
Bone Rasp	RASP
Sinus Retractor Misch 10	SRM10
Sinus Curette 1	SINC1
Sinus Curette 2	SINC2
Bone Grafting Syringe, 7 mm	SYBG
#1 Mead Mallet	MAL1
Crile-Wood Perma Sharp Needle Holder, 15 cm (6")	NH5038
#2/4 Molt Curette	CM2/4
#UNC 12 Colorvue Kit	PCVNCKIT6
#23 Seldin Periosteal Retractor	P23
Bone Packer 6 mm/8 mm	BPACK



Suture Removal

| IMNSUTURE

Small Infinity Series 10 Instrument Cassette, Orange	IMN5103
Satin Steel Mirror Handle	MH6
5 Front Surface Mouth Mirror, 3 pack	MIR5/3
5 Explorer, Satin Steel Handle	EXD56
EverEdge 13/14 Columbia University Curette	SC13/149
2 College Dressing Pliers	DP2
13 Suture Scissors	S13
A/W Syringe Tip Clip	IM1005N



Total Restorative

| IMNRESTOR

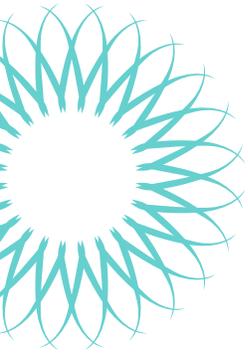
(Composite, Crown & Bridge, Amalgam)

Large Infinity Series 16 Instrument Cassette, Yellow	IMN4165
Satin Steel Mirror Handle	MH6
5 Front Surface Mouth Mirror, 3 pack	MIR5/3
23/CP-12 Color-Coded Expro, Satin Steel Handle	XP23/126
18 Excavator, Satin Steel Handle	EXC186
113 Serrated Gingival Cord Packer, Satin Steel Handle	GCP1136
Calcium Hydroxide Placement Instrument, Satin Steel Handle	PICH6
0/1 Marquette Condenser, Satin Steel Handle	PLG0/16
1/2 Blk Condenser, Satin Steel Handle	PLG1/26
Regular/Large CFII Amalgam Carrier	AC5202
3/6 Discoid-Cleoid Carver, Satin Steel Handle	CD3/66
8 Wiland Carver, Satin Steel Handle	CVW186
1/2-3 Hollenback Carver, Satin Steel Handle	CVHL1/26
IPC Interproximal XTS Carver	TNCVIPC
2 Goldstein Flexi-Thin XTS® Composite Instrument	TNCIGFT2
3 Goldstein Flexi-Thin XTS Composite Instrument	TNCIGFT3
27/29 Burnisher, Satin Steel Handle	BB27/296
24 Spatula, Satin Steel Handle	CS246
2 College Dressing Pliers	DP2
Miller Articulating Paper Forceps	APF2
Curved Iris Scissors	S18
CW Aspirating Anesthetic Syringe	SYRCW
Amalgam Well	WA
Bur Cushion Short Lid, Holds 12	IMS-1372S
Hinged Instrument Clips, 2	IM1000
A/W Syringe Tip Clip	IM1005N

Cement (Crown Seat)

| IMNCEMENT

Large Infinity Series 10 Instrument Cassette, Red	IMN5100
Satin Steel® Mirror Handle	MH6
5 Front Surface Mouth Mirror, 3 pack	MIR5/3
5 Explorer, Satin Steel Handle	EXD56
8 Wiland Carver, Satin Steel Handle	CVW186
24 Spatula, Satin Steel Handle	CS246
Miller Articulating Paper Forceps	APF2
CW Aspirating Anesthetic Syringe	SYRCW
2 College Dressing Pliers	DP2
Bur Cusion Short Lid, Holds 6	IMS-1372SH
A/W Syringe Tip Clip	IM1005N





Crown and Bridge

| IMNCROWN

Large Infinity Series 16 Instrument Cassette, Green	IMN4169
Satin Steel® Mirror Handle	MH6
5 Front Surface Mouth Mirror, 3 pack	MIR5/3
5 Explorer, Satin Steel Handle	EXD56
CP-12 Color-Coded Probe, Satin Steel Handle	PCP126
8 Wiland Carver, Satin Steel Handle	CVWI86
18 Excavator, Satin Steel Handle	EXC186
113 Serrated Gingival Cord Packer, Satin Steel Handle	GCP1136
2 Goldstein Flexi-Thin XTS® Composite Instrument	TNCIGFT2
24 Spatula, Satin Steel Handle	CS246
2 College Dressing Pliers	DP2
Miller Articulating Paper Forceps	APF2
CW Aspirating Anesthetic Syringe	SYRCW
18 Curved Iris Scissors	S18
Bur Cushion Short Lid, Holds 12	IMS-1372S
Hinge Instrument Clips, 2	IM1000
A/W Syringe Tip Clip	IM1005N

Amalgam

| IMNAMALGAM



Large Infinity Series 16 Instrument Cassette, White	IMN4162
Satin Steel Mirror Handle	MH6
5 Front Surface Mouth Mirror, 3 pack	MIR5/3
5 Explorer, Satin Steel Handle	EXD56
18 Excavator, Satin Steel Handle	EXC186
Calcium Hydroxide Placement Instrument, Satin Steel Handle	PICH6
Regular/Large CFII Amalgam Carrier	AC5202
0/1 Marquette Condenser, Satin Steel Handle	PLG0/16
1/2 Black Condenser, Satin Steel Handle	PLG1/26
3/6 Discoid-Cleoid Carver, Satin Steel Handle	CD3/66
89/92 Discoid-Cleoid Carver, Satin Steel Handle	CD89/926
1/2-3 Hollenback Carver, Satin Steel Handle	CVHL1/26
21B Burnisher, Satin Steel Handle	BB21B6
27/29 Burnisher, Satin Steel Handle	BB27/296
2 College Dressing Pliers	DP2
Miller Articulating Paper Forceps	APF2
CW Aspirating Anesthetic Syringe	SYRCW
Amalgam Well	WA
Bur Cushion Short Lid, holds 12	IMS-1372S
A/W Syringe Tip Clip	IM1005N



Composite/Crown Prep

| IMNCMPOSIT

Large Infinity Series 16 Instrument Cassette, Blue	IMN4168
Satin Steel Mirror Handle	MH6
5 Front Surface Mouth Mirror, 3 pack	MIR5/3
5 Explorer, Satin Steel Handle	EXD56
18 Excavator, Satin Steel Handle	EXC186
113 Serrated Gingival Cord Packer, Satin Steel Handle	GCP1136
IPC Interproximal XTS® Carver	TNCVIPC
2 Goldstein Flexi-Thin XTS Composite Instrument	TNCIGFT2
3 Goldstein Flexi-Thin XTS Composite Instrument	TNCIGFT3
24 Spatula, Satin Steel Handle	CS246
2 College Dressing Pliers	DP2
Miller Articulating Paper Forceps	APF2
CW Aspirating Anesthetic Syringe	SYRCW
18 Curved Iris Scissors	S18
Bur Cushion Short Lid, holds 12	IMS-1372S
Hinge Instrument Clips, 2	IM1000
A/W Syringe Tip Clip	IM1005N



Endo

| IMNENDO

Large Infinity Series 12 Instrument Cassette, Gray	IMN4121
Satin Steel Mirror Handle	MH6
4 Front Surface Mouth Mirror, 3 pack	MIR4/3
DG16 Endo Explorer, Satin Steel Handle	EXDG166
1 Locking Endo Pliers	EPL1
1 Locking Endo Pliers	EPL1
31L Excavator, Satin Steel Handle	EXC31L6
D11 Nickel Titanium Endo Spreader	RCS11NT
1/3 Endo Plugger	RCP1/3
5/7 Endo Plugger	RCP5/7
9/11 Endo Plugger	RCP9/11
1 Glick Blade/Endo Plugger	RCPGL1
Miller Articulating Paper Forceps	APF2
CW Aspirating Anesthetic Syringe	SYRCW
Rubber Dam Forceps	RDF
1 Satin Steel Rubber Dam Clamp	RDCM1
2 Satin Steel Rubber Dam Clamp	RDCM2
9 Satin Steel Rubber Dam Clamp	RDCM9
26N Satin Steel Rubber Dam Clamp	RDCM26N
Endo Stand, Holds 24 Files and Reamers	IMS-1275
Bur Cushion Short Lid, Holds 12	IMS-1372S
IMS Small Parts Box	IMS-1271



Ortho Banding/Bonding

| IMORTHOBB

Double-Decker 20 Instrument Orthodontic Cassette, Orange	 IM5203-OR
Satin Steel Mirror Handle	 MH6
5 Front Surface Mouth Mirror, 3 pack	 MIR5/3
LD1/BPS2 Ligature Band Pusher	 678-912
1/2-3 Hollenback Carver, Satin Steel Handle	 CVHL1/26
#18 Dressing Pliers	 DP18
Universal Cut and Hold Distal End Cutter	 678-101L
Micro-Mini Pin and Ligature Cutter	 678-107
Weingart Pliers	 678-201L
Direct Bond and Bracket Holder	 678-212
Mathieu Pliers	 678-330

Available in Signature Series only

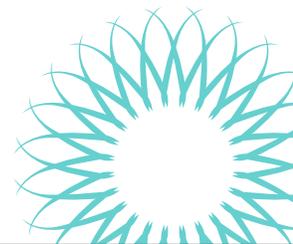


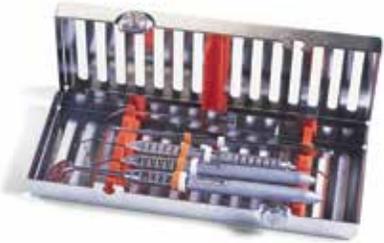
Ortho Archwire Adjustment

| IMORTHOAA

Double Decker 20 Instrument Orthodontic Cassette, Green	 IM5209-OR
Satin Steel Mirror Handle	 MH6
5 Front Surface Mouth Mirror, 3 pack	 MIR5/3
Ligature Director/Scaler	 678-905
Universal Cut and Hold Distal End Cutter	 678-101L
15° Hard Wire Cutter	 678-103
Micro-Mini Pin and Ligature Cutter	 678-107
Weingart Pliers	 678-201L
Direct Bond and Bracket Holder	 678-212
Light Wire Bird Beak Pliers	 678-304
Three Jaw Pliers	 678-302
Mathieu Pliers	 678-330

Available in Signature Series only





Exam Cassette - 5 Instruments

Exterior Dimensions 3" x 8" x 1.25"
(76 mm x 203 mm x 32 mm) Holds 5 instruments.

Red	■	IM6050
Gray	■	IM6051
White	□	IM6052
Orange	■	IM6053
Yellow	■	IM6055
Lavender	■	IM6056
Blue	■	IM6058
Green	■	IM6059



Small Cassette - 8 and 10 Instruments

Exterior Dimensions 5.5" x 8" x 1.25" (140 mm x 203 mm x 32 mm) Holds 8 instruments with an accessory area.

	8 Instrument	10 Instrument
Red	■ IM5080	IM5100
Gray	■ IM5081	IM5101
White	□ IM5082	IM5102
Orange	■ IM5083	IM5103
Yellow	■ IM5085	IM5105
Lavender	■ IM5086	IM5106
Blue	■ IM5088	IM5108
Green	■ IM5089	IM5109

8 instrument cassette shown above. Also available in 10 instrument cassette.



Signa-Stat Cassette - 12 Instruments

Exterior Dimensions 6.5" x 10.5" x 1.25" (165 mm x 267 mm x 32 mm) Holds 12 instruments with an accessory area. Fits in SciCan® STATIM® or the Midmark M3 autoclave.

Red	■	IM8120
Gray	■	IM8121
White	□	IM8122
Orange	■	IM8123
Yellow	■	IM8125
Lavender	■	IM8126
Blue	■	IM8128
Green	■	IM8129

SciCan and STATIM are registered trademarks of SciCan Ltd.

Hu-Friedy cassettes can be modified to fit the unique needs of your practice. Call Hu-Friedy for more information.



Large Cassette-12, 16 and 20 Instruments

Exterior Dimensions 8" x 11" x 1.25" (203 mm x 280 mm x 32 mm)
Holds 16 instruments with an accessory area.

Also available in 8" x 10.5" x 1.25" size (IM416xQ) to fit unique ultrasonic tanks.



	12 Instrument	16 Instrument	20 Instrument
Red	■ IM4120	IM4160	IM4200
Gray	■ IM4121	IM4161	IM4201
White	□ IM4122	IM4162	IM4202
Orange	■ IM4123	IM4163	IM4203
Yellow	■ IM4125	IM4165	IM4205
Lavender	■ IM4126	IM4166	IM4206
Blue	■ IM4128	IM4168	IM4208
Green	■ IM4129	IM4169	IM4209



Small Ultrasonic Insert/Handpiece Cassette

Ultrasonic Insert/Handpiece Cassette

Small: Exterior Dimensions 1.5" x 8" x 1.25"
(38 mm x 203 mm x 32 mm)

Large: Exterior Dimensions 3" x 8" x 1.25"
(76 mm x 203 mm x 32 mm)



Large Ultrasonic Insert/Handpiece Cassette

		Small Cassette	Large Cassette
Red	■	IM30HU0	IM60H0
Gray	■	IM30HU1	IM60H1
White	□	IM30HU2	IM60H2
Orange	■	IM30HU3	IM60H3
Yellow	■	IM30HU5	IM60H5
Lavender	■	IM30HU6	IM60H6
Blue	■	IM30HU8	IM60H8
Green	■	IM30HU9	IM60H9

Small holds 2 Ultrasonic Inserts or 1 handpiece.

Large holds up to 3 high-speed handpieces or 5 ultrasonic inserts.



Double Symmetry IQ® Handpiece Cassette

Symmetry IQ® Handpiece Cassette

Small: Exterior Dimensions 1.5" x 8" x 1.25"
(38 mm x 203 mm x 32 mm)

Large: Exterior Dimensions 3" x 8" x 1.25"
(76 mm x 203 mm x 32 mm)

Single	IM30IQ8
Double (pictured)	IM60IQ8



Symmetry IQ Wrench Cassette

Exterior Dimensions 5.63" x 1.95" x 1.77"
(143 mm x 50 mm x 45 mm)

Blue	■ IMIQ38
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Wrench not included.



IMS SIGNATURE SERIES® CASSETTES

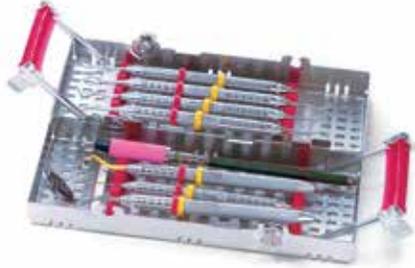


Oral Surgery Cassette

Exterior Dimensions 8" x 14.5" x 1.25" (203 mm x 368 mm x 32 mm) Accommodates 12 instruments, 4 elevators, 3 hinged instruments in the lid and a separate accessory area. Has a built-in needle cap holder and slot for a winged syringe.

Fits in most 10" chambers or larger sterilizers, most instrument washers and larger ultrasonics.

Red	■	IMOS0
Gray	■	IMOS1
White	□	IMOS2
Orange	■	IMOS3
Yellow	■	IMOS5
Lavender	■	IMOS6
Blue	■	IMOS8
Green	■	IMOS9



Double-Decker® Cassette - 8 Instruments

Exterior Dimensions 3" x 8" x 1.5" (76 mm x 203 mm x 38 mm) Holds 8 instruments.

Red	■	IM9080
Gray	■	IM9081
White	□	IM9082
Orange	■	IM9083
Yellow	■	IM9085
Lavender	■	IM9086
Blue	■	IM9088
Green	■	IM9089



Double-Decker® Cassette - 14 Instruments

Exterior Dimensions 4.5" x 8" x 1.5" (114 mm x 203 mm x 38 mm) Holds 14 instruments.

		14 Instrument	Small Ortho Cassette
Red	■	IM9140	IM9140-OR
Gray	■	IM9141	IM9141-OR
White	□	IM9142	IM9142-OR
Orange	■	IM9143	IM9143-OR
Yellow	■	IM9145	IM9145-OR
Lavender	■	IM9146	IM9146-OR
Blue	■	IM9148	IM9148-OR
Green	■	IM9149	IM9149-OR



Double-Decker® Cassette - 20 Instruments

Exterior Dimensions 6" x 9.7" x 1.5" (152 mm x 246 mm x 38 mm) Holds 20 instruments with an accessory area. Has a built-in needle cap holder and slot for a winged syringe.

Red	■	IM9200
Gray	■	IM9201
White	□	IM9202
Orange	■	IM9203
Yellow	■	IM9205
Lavender	■	IM9206
Blue	■	IM9208
Green	■	IM9209

Hu-Friedy Resin Cassettes are constructed of high-grade medical resin. Soft silicone instrument rails gently hold instruments in place. Cools down quickly after sterilization and are lightweight.

IMS RESIN CASSETTES



Small Cassettes

Exterior Dimensions 4.5" x 8" x 1.5" (114 mm x 203 mm x 38 mm)

Small Resin 7 Instruments | **IMS-3107**

Holds up to 7 instruments. The cassette is perfect for exam and prophylactic procedures.

Small Resin 12 Instruments | **IMS-3112**

Holds up to 12 instruments

Small Resin 16 Instruments | **IMS-3116**

Holds up to 16 instruments in a compact space (pictured)



Large Cassettes - No Accessory Area

Exterior Dimensions 8" x 11" x 1.5" (203 mm x 279 mm x 38 mm)

Large Resin 18 Instruments | **IMS-1118**

Holds up to 18 instruments (pictured)

Large Resin 24 Instruments | **IMS-1124**

Holds up to 24 instruments



Large Cassettes - with Accessory Area

Exterior Dimensions 8" x 11" x 1.5" (203 mm x 279 mm x 38 mm)

Large Resin 12 Instruments | **IMS-1112**

Holds up to 12 instruments (pictured)

Large Resin 16 Instruments | **IMS-1116**

Holds up to 16 instruments

BLEACH CLEANING RECOMMENDATIONS FOR RESIN CASSETTES

The resin cassettes should be bleach cleaned on a six month basis. They may be submerged in a solution of two cups bleach to one gallon of water (0.5 liters bleach to 4 liters of water) for 5 to 30 minutes. If staining has occurred, use less water and more bleach. If bleach does not break through the stain, wipe cassettes with isopropyl alcohol prior to bleaching. Be sure to remove instruments before placing cassettes in bleach solution as bleach is destructive to metal. This cleaning procedure is only recommended with resin cassettes. If staining does occur on stainless steel cassettes, wipe clean with soap and water. DO NOT use bleach process described for resin cassettes on stainless steel cassettes.



SIGNATURE SERIES™ TUBS

Together, procedure tubs and cassettes create the most efficient and organized system for managing instruments and consumable products. The time savings achieved by using IMS (Instrument Management System) cassettes and procedure tubs will allow the staff to spend time on more value added activities in the dental office.

Signature Series Tubs are designed to match IMS cassette rail colors and feature antimicrobial product protection.*

Signature Series™ Complete Tub

12-3/4" x 11-3/16" x 4"

Includes:

- Signature Series Tub
- Tub Liner†
- Tub Divider (package of 8)
- Single Tub Cup w/Cover†
- Double Tub Cup w/Cover†
- Divided Slide Tray†
- Locking Tub Cover†

Red	IMS-1400
Gray	IMS-1401
White	IMS-1402
Orange	IMS-1403
Purple	IMS-1404
Yellow	IMS-1405
Lavender	IMS-1406
Black	IMS-1407
Blue	IMS-1408
Green	IMS-1409
Ocean Blue	IMS-14011



Signature Series Tub

12-1/4" x 10-7/8" x 2-3/4"

Red	■	IMS-1410
Gray	■	IMS-1411
White	□	IMS-1412
Orange	■	IMS-1413
Purple	■	IMS-1414
Yellow	■	IMS-1415
Lavender	■	IMS-1416
Black	■	IMS-1417
Blue	■	IMS-1418
Green	■	IMS-1419
Ocean Blue	■	IMS-14111



Divided Slide Tray†

9-3/4" x 5-3/8" x 11/16"

Can be used to store cotton rolls, cotton squares, clamps,

| [IMS-1421](#)



Flat Slide Tray†

9-3/4" x 5-3/16" x 1-3/8"

Can be used to store discs, strips, toffemeil, articulating paper, etc.

| [IMS-1422](#)



Locking Tub Cover†

12-3/4" x 11-3/16" x 2-3/4"

Protects items from airborne materials during transportation and storage

| [IMS-1420](#)



Tub Insert

9-3/4" x 10-3/4" x 11/32"

The insert features 10 compartments for easy organization of tub materials
Sits on rim of tub allowing for storage underneath

| [IMS-1423](#)



Dividers

12-3/4" x 11-3/16" x 1-3/8"

| [IMS-1427](#)

Includes 8 dividers

Tub Liner†

9-5/8" x 8-7/8" x 1/8"

| [IMS-1428](#)

Non-slip liner prevents small items from slipping under divider sections

†Clear components and tub liner do not contain antimicrobial product projection



SIGNATURE SERIES TUB CUPS & COVERS

Signature Series Tub cups and covers can be used to store brushes, clamps, cotton pellets, syringe tips, prophylactic paste, prophylactic angle tips, pumice, implant tools, etc.



Single Tub Cup with Cover†

2-1/4" x 1-5/8" x 1-1/8"

| **IMS-1424**

Double Tub Cup with Cover†

3-3/8" x 2-1/4" x 1-1/8"

| **IMS-1425**

Long Tub Cup with Cover†

8-1/3" x 2-1/4" x 1-1/8"

| **IMS-1426**

- Provides 5 storage compartments
- Dividers are removable for customization
- Perfect for storing capsules, discs, abrasive strips, wedges, matrix bands, etc.

SIGNATURE SERIES RACKS



Adjustable 3 Tub Rack

Adjustable 4 Tub Rack

Adjustable 3 Tub Rack

MIN 7-1/2" - MAX 15-1/2" x 10-1/2" x 13"

| **IMS-1433**

- Fits most standard storage cabinets
- Holds a maximum of 3 tubs with lids or 6 cassettes
- Non-slip feet
- Sturdy metal construction
- No screws, tools, nuts or bolts needed

Adjustable 4 Tub Rack

MIN 7-1/2" - MAX 15-1/2" x 10-1/2" x 18-3/4"

| **IMS-1434**

- Holds a maximum of 4 tubs with lids or 8 cassettes
- Sturdy metal construction
- Non-slip feet

SIGNATURE SERIES CLIP-ON HOLDERS



Capsule Clip-On Holder



Syringe Clip-On Holder

Capsule Clip-on Holder

8" x 2-1/2" x 3/4"

| **IMS-1429**

- Allows quick access to composite material during procedure
- Conveniently clips on any side of tub
- Holds up to 8 capsules, 4 syringe tubes and capsule/gun dispenser

Syringe Clip-on Holder

8" x 2-5/8" x 3/4"

| **IMS-1430**

- Allows quick access to composite material during procedure
- Conveniently clips on any side of tub
- Holds up to 15 syringe tubes and 3 applicator tips

SIGNATURE SERIES SYRINGE STANDS



20-Unit Syringe Stand

9" x 4-3/4" x 2 1/2"

| **IMS-1431**

- Stands up for easy access to syringes
- Lays flat to fit inside a tub or drawer
- Holds up to 20 syringe tubes

10-Unit Syringe Add On

8-1/2" x 2-3/8" x 3/4"

| **IMS-1432**

- An add-on for the Syringe 20 Unit Stand
- Provides additional space for syringe storage
- Holds up to 10 syringe tubes

ANTIMICROBIAL PROTECTION

*Antimicrobial protection is integrated into the tub and tub components during the manufacturing process. This technology works by interrupting key cell functions that allow the microorganisms to function, grow and reproduce. Antimicrobial protection begins to work as soon as the microorganism comes into contact with the product surface and works continuously to inhibit the growth of microbes that can cause stain, odors and product degradation - for the lifetime of the product.



ORGANIZATION PRODUCTS

IMS COLOR CODE INSTRUMENT RINGS

IMS Color Code Instrument Rings are silicone rubber rings used for identifying and organizing instruments. Useful for maintaining proper instrument order in cassettes and identifying instruments by procedure; can withstand all heat sterilization methods.



SIGNATURE SERIES™ GRIPS

Signature Series grips can only be used with Satin Steel Colours®, EverEdge® technology and ResinEight® instruments, and are used for identifying and organizing instruments. They're useful for maintaining proper instrument order in cassettes and identifying instruments by procedure. Grips will withstand all approved heat sterilization methods



Gray	■	SSG1	Blue	■	SSG8
White	□	SSG2	Black	■	SSG9
Orange	■	SSG3	Pink	■	SSG10
Brown	■	SSG4	Lavender	■	SSG11
Yellow	■	SSG5	Ocean Blue	■	SSG12
Red	■	SSG6	16 Assorted		SSGO
Green	■	SSG7	80 Assorted		SGMULTI

All single color packages contain 16 pieces. The assorted color packages contain your choice of either 16 or 80 pieces.

IMS COLOR TABS

Silicone tabs that fit on cassette lid for identifying cassette procedure by color.



All single color packages contain 5 pieces. The assorted color package contains 9 pieces.

Red	■	IMS-1290N
Gray	■	IMS-1291N
White	□	IMS-1292N
Orange	■	IMS-1293N
Purple	■	IMS-1294N
Yellow	■	IMS-1295N
Lavender	■	IMS-1296N
Black	■	IMS-1297N
Blue	■	IMS-1298N
Green	■	IMS-1299N
Pink	■	IMS-12910N
Ocean Blue	■	IMS-12911N
Assorted		IMS-12912N

IMS CASSETTE I.D. LABELS AND I.D. MARKER

Specially designed polyester pressure-sensitive labels for cassette identification.



IMS Cassette I.D. Labels

50 per package

IMS I.D. Marker

Permanent indelible ink marker is ideal for identifying procedural set-ups. For use on I.D. Labels or Monitor Tape.

Regular Use on #2 and 4 Handles Large Use on #6, 7, 8 and 9 Handles

Assorted Colors	IMS-1280	IMS-1280L
Gray	■ IMS-1281	IMS-1281L
White	□ IMS-1282	IMS-1282L
Orange	■ IMS-1283	IMS-1283L
Brown	■ IMS-1284	IMS-1284L
Yellow	■ IMS-1285	IMS-1285L
Red	■ IMS-1286	IMS-1286L
Green	■ IMS-1287	IMS-1287L
Blue	■ IMS-1288	IMS-1288L
Black	■ IMS-1289	IMS-1289L
Pink	■ IMS-12810	IMS-12810L
Lavender	■ IMS-12811	IMS-12811L

All single color packages contain 50 pieces. The assorted color package contains 90 pieces.

RESIN 8 COLORS GRIPS

Red	■	SSGRED8
Orange	■	SSGORANGE8
Yellow	■	SSGYELLOW8
Purple	■	SSGPURPLE8
Lavender	■	SSSLAVNDR8
Green	■	SSGGREEN8
Blue	■	SSGBLUE8
Gray	■	SSGGRAY8

All single color packages contain 16 pieces.



CLEANING AND CARE PRODUCTS

SHINE RENEW PRODUCTS



Shine reNEW™ Products

Effectively remove stain and rust, restoring the luster to stainless steel and tungsten carbide instruments.

- Liquid, 1 Gallon (3.8 liters) | **IMS-1453**
- Instrument Wipes (20 wipe canister) | **IMS-1455**

- Keeps hinged instruments moving freely by dissolving built-up residue
- Eliminates the need for abrasive scrubs
- Quick and simple to use
- Shine reNEW Instrument Wipes can also be used on copper, brass and anodized aluminum

IMS® DAILY CLEAN GENERAL PURPOSE DETERGENT



IMS® Daily Clean General Purpose Detergent

Concentrated powder detergent specifically formulated for efficient ultrasonic cleaning or presoaking of cassettes and instruments.

- 1.1 lb (500 g) | **IMS-1220**
- Makes 35 Gallons (132 liters)

- 5 lb (2.27 kg) | **IMS-1218**
- Makes 160 Gallons (606 liters)

INSTRUMENT LUBRICANTS



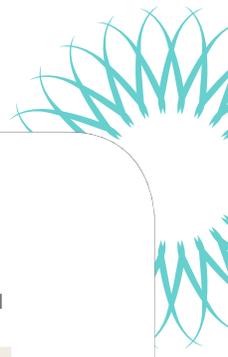
Instrument Lubricants

The instrument lubricants come in a convenient non-aerosol pump bottle.

- Penetrating Oil 8 oz (236 ml) | **IPS**
- Removes light rust and corrosion to loosen problem joints

- Instrument Lubricant Spray 8 oz (236 ml) | **ILS**
- Keeps hinged instruments moving freely

Instrument Lubricant Spray (ILS) and Penetrating Oil (IPS) do not contain silicone.





CLEANING AND CARE PRODUCTS

Enzymax® Dual Enzyme Ultrasonic Detergent is specifically formulated for efficient ultrasonic cleaning and pre-soaking of cassettes and instruments. Contains Steelgard™ agents to extend instrument life and chelating agents to protect instruments from harmful minerals naturally found in water that contribute to buildup, spotting and corrosion. Multi-purpose applications including ultrasonic detergent, presoak, linen presoak and evacuation cleaner.

ENZYMAX



Enzymax Liquid

Box of 40 Liquid Packets Makes 40 Gallons (151 liters)	IMS-1222
10 boxes of 40 Liquid Packets Makes 400 Gallons (1,510 liters)	IMS-1222C
Quart Bottle Makes 32 Gallons (121 liters)	IMS-1224
Case of 12 Quart bottles Makes 384 Gallons (1,452 liters)	IMS-1224C
Quart Pump	IMS-1224P
Gallon Bottle Makes 128 Gallons (485 liters)	IMS-1226
Gallon Pump	IMS-1226P



Enzymax Powder

1.76 lb (800 g) Powder Makes 50 Gallons (189 liters)	IMS-1230
6 containers of 1.76 lb (800 g) Powder Makes 300 Gallons (1,134 liters)	IMS-1230C



Enzymax Pax® Single Use Packets

32 Dissolvable Single-Use Powder Packets Makes 32 Gallons (121 liters)	IMS-1232
96 Dissolvable Single-Use Powder Packets Makes 96 Gallons (363 liters)	IMS-1233



Enzymax Spray Gel

Dual enzyme gel with corrosion inhibitor acts as a ready-to-use instrument pre-cleaner. Maintains moisture to help prevent debris from drying on instruments before cleaning and helps dissolve blood, tissue, and other debris. Can also be used as a linen spot remover.

24 Fl oz (709 ml) 450 Sprays	IMS-1229
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Hu-Friedy strongly recommends Enzymax with our instruments to maintain instrument longevity, integrity and appearance.



Enzymax Earth™ Dual Enzyme Ultrasonic Detergent offers the same superior cleaning attributes as Enzymax with an increased awareness of our environment. All Enzymax Earth products are biodegradable* and phosphate free.

ENZYMAX EARTH



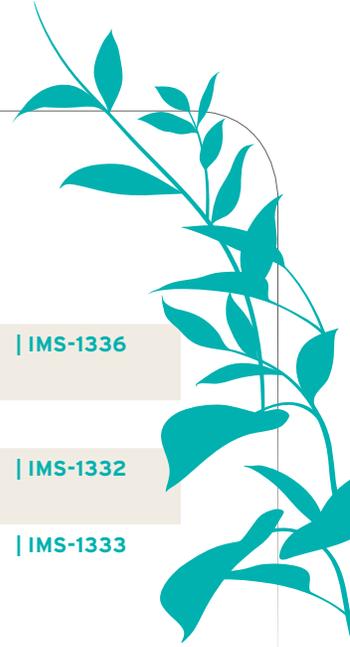
Enzymax Earth Liquid

Gallon Bottle | **IMS-1336**
Makes 128 Gallons (485 liters)

Enzymax Earth Pax Single Use Packets

32 Dissolvable Single-Use Powder Packets | **IMS-1332**
Makes 32 Gallons (121 liters)

96 Dissolvable Single-Use Powder Packets | **IMS-1333**
Makes 96 Gallons (363 liters)



LILAC UTILITY GLOVES



Lilac Utility 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 to 250°F (121°C) up to five times.

Small (Size 7) | **40-060**

Medium (Size 8) | **40-062**

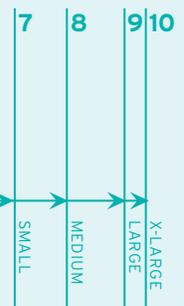
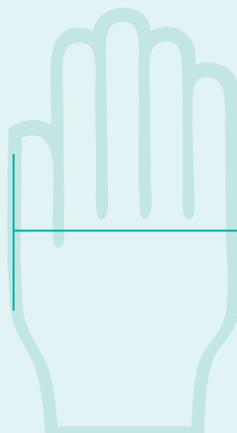
Large (Size 9) | **40-064**

Extra Large (Size 10) | **40-066**

*Biodegradable formula according to the Organization for Economic Cooperation and Development (OECD) testing.

USE THIS CHART TO DETERMINE YOUR APPROPRIATE GLOVE SIZE

Place hand as indicated to select correct size in order to avoid hand fatigue.





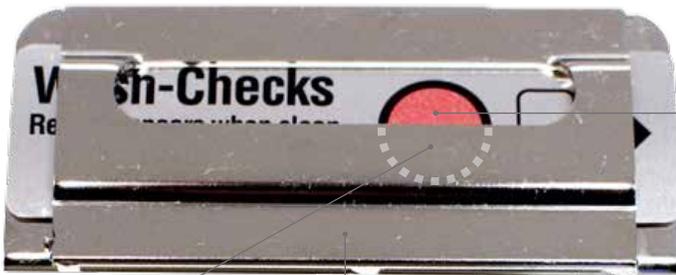
CLEANING AND CARE PRODUCTS

CLEANING MONITORS

Proper instrument cleaning is the most important step to instrument reprocessing. If an instrument is not properly cleaned, it cannot be effectively sterilized. Take the steps to assure that your cleaning process achieves the highest quality results by incorporating Hu-Friedy Cleaning Monitors into your instrument reprocessing protocols. Using multi-parameter testing, Hu-Friedy Cleaning Monitors are designed to give you a clear interpretation of your cleaning process.



Colored test soil on strip is designed to parallel the removal of blood and bioburden from an instrument surface



Cleaning Monitor Holder acts as a hinged instrument measuring impingement in washer-disinfectors



Reusable stainless steel holder secures monitor in place in order to provide accurate result

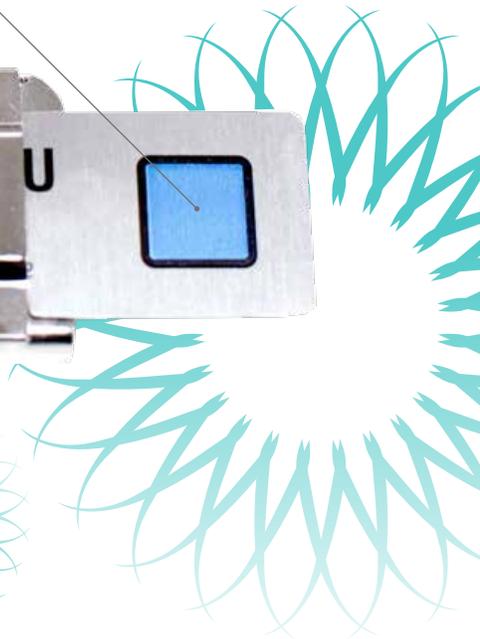
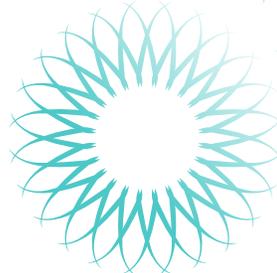
Ideal Cleaning Monitor Usage

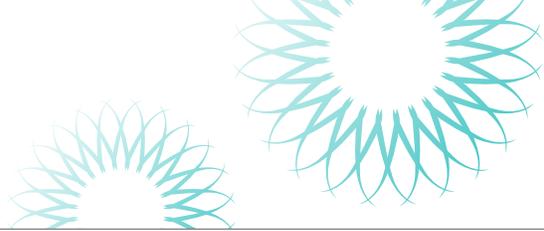
WASHER-DISINFECTOR

Run a monitor test in the morning to release the equipment for use and minimum of one monitor per load for load release.

ULTRASONIC CLEANING

Monitor once daily with an empty load for a machine release and periodically throughout the day with instruments for a load release, if needed.

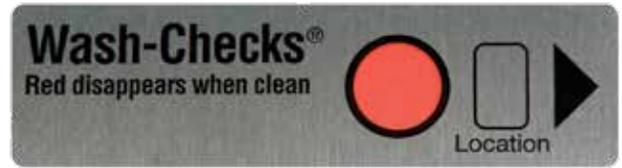




Clear & Simple Results Interpretation
Removal of all test soil indicates effective cleaning

	Washer-Disinfecter	Ultrasonic
Fail (Unexposed)		
Fail		
Pass		

See Troubleshooting Charts (N1736 and N1692) for possible reasons for results and corrective actions.



Washer-Disinfecter Cleaning Monitor, 50 PCS
| **IMS-1200W**



Ultrasonic Cleaning Monitor, 50 PCS
| **IMS-1200U**



Cleaning Monitor Holder, 1 EA
| **IMS-1200H**

Parameters Tested & Common Failures

	Washer-Disinfecter	Ultrasonic
Parameters tested by the cleaning monitors	<ul style="list-style-type: none"> • Time • Temperature • Detergent concentration • Spray arm function • Enzyme soak 	<ul style="list-style-type: none"> • Cavitation • Time • Temperature • Detergent
Common Cleaning Process Failures	<ul style="list-style-type: none"> • Inadequate water spray/impingement • Clogged spray arms • Overloading • Instrument shadowing • Inadequate detergent dosing • Improper detergent dosing • Poor water quality 	<ul style="list-style-type: none"> • Ineffective cavitation • Overloading • Insufficient time, temperature and/or detergent



DENTAL UNIT WATERLINE PRODUCTS

Team Vista™ Dental Unit Waterline Cleaner provides a more effective and economical way to keep waterlines safer and cleaner. This easy-to-use system provides both an organic irrigant and registered antimicrobial cleaner for enhanced patient care and equipment protection.

TEAM VISTA DENTAL UNIT WATERLINE CLEANER



Team Vista™ Dental Unit Waterline Cleaner

CONTAINS:
1 - One 1 oz bottle of VistaClean Irrigant Solution
15 - VistaTab Cleaner Tablets

U.S.

| **IMS-1450**

Canada

| **IMS-1450CA**

- For use in independent water bottle systems
- Provides continuous cleaning of waterlines for up to one week

- Non-corrosive - gentle and safe on equipment
- One year supply per operator



VistaTab™ Dental Waterline Cleaner Tablet

CONTAINS:
15 - VistaTab Cleaner Tablets

U.S.

| **IMS-1451**

Canada

| **IMS-1451CA**

- Antimicrobial tablet used periodically for the cleaning and control of microbial contaminants
- Quickly dissolves to create a non-corrosive solution seven times more effective than bleach

- EPA registered antimicrobial in all 50 states



VistaClean™ Irrigant Solution Concentrate

CONTAINS:
1 - One 1 oz bottle of VistaClean Irrigant Solution

U.S.

| **IMS-1452**

Canada

| **IMS-1452**

- Derived from organic citrus botanicals
- Listed with the FDA as a Class I Medical Device
- Helps protect waterlines and equipment from deposits and scale
- Works to emulsify organic and inorganic contaminants that build up in waterlines

- Safe for use with patients
- No odor or taste
- Non-toxic, non-corrosive
- No effect on bond strength

WATER SAFETY REQUIREMENTS

The Centers of Disease Control (CDC) recommends that dental unit waterlines be tested on a regular basis to maintain its established standard of less than 500 colony-forming units per milliliter.*

If dental unit waterlines are not maintained on a regular basis, bacteria will develop on the inner surfaces of the tubing, blocks and other system components.

Simply maintaining the waterlines is not enough; it is a two part process of cleaning and maintenance. Over time, bacteria can overwhelm the waterline environment and begin to create microbial deposits. Using a daily irrigant, like VistaClean, and cleaning the waterlines regularly with an EPA approved antimicrobial, like VistaTab, will clean and control microbial contaminants to provide improved water quality while helping to protect patients, staff, and equipment.

*Reference Centers for Disease Control and Prevention. Guidelines for Infection Control in Dental Health-Care Settings - 2003. MMWR 2003; 52 (No. RR-17): [pg. 31].

Team Vista, VistaTab and VistaClean are trademarks of Vista Research Group LLC.

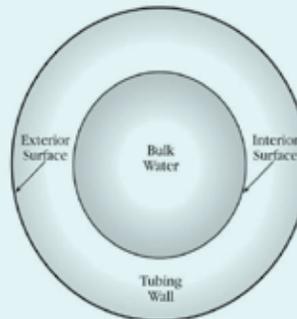


Figure 1. Clean dental waterline tubing. No biofilms or free-floating organisms present.

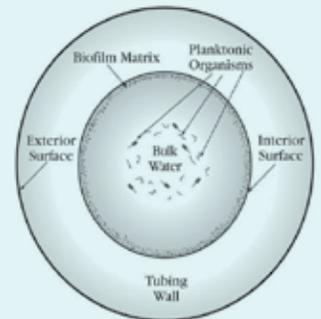


Figure 2. Contaminated dental waterline tubing. Biofilm on interior surface with abundant free-floating organisms.



STERILIZATION PRODUCTS

IMS CASSETTE WRAP

IMS Cassette Wrap is engineered to withstand the harsh conditions of sterilization. Our unique compilation of textiles is designed to be strong and soft for easy wrapping and durability. This low-lint, memory free wrap is available in two grades to meet your needs. Manufactured for single use only.



Autoclave Wrap

Autoclave Wrap offers the best combination of softness and added strength.

24" x 24" (610 mm x 610 mm) | **IMS-1210**
For Large Cassettes, 500 Sheets

20" x 20" (508 mm x 508 mm) | **IMS-1212**
For Large Cassettes, 500 Sheets

15" x 15" (380 mm x 380 mm) | **IMS-1211**
For Small Cassettes, 1,000 Sheets

12" x 12" (305 mm x 305 mm) | **IMS-1213**
For Small Cassettes, 1,000 Sheets

Universal Wrap

Universal Wrap provides great performance at a lower cost.

24" x 24" (610 mm x 610 mm) | **IMS-1214**
For Large Cassettes, 500 Sheets

20" x 20" (508 mm x 508 mm) | **IMS-1216**
For Large Cassettes, 500 Sheets

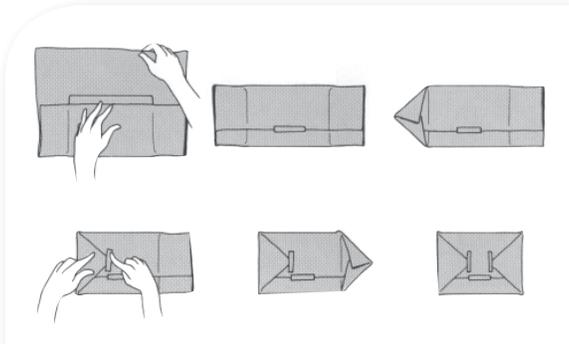
15" x 15" (380 mm x 380 mm) | **IMS-1215**
For Small Cassettes, 1,000 Sheets

12" x 12" (305 mm x 305 mm) | **IMS-1217**
For Small Cassettes, 1,000 Sheets

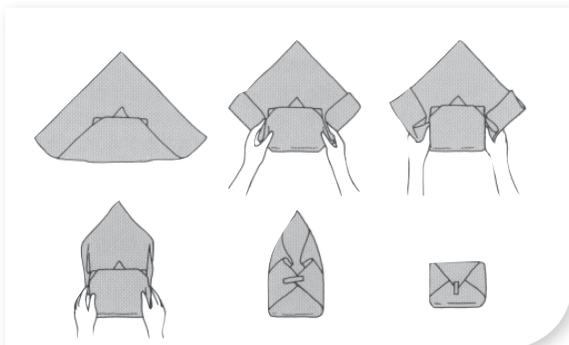
Note: Hu-Friedy wrap is also available in packs of 100 sheets. Add "H" to the end of the part code.

WRAPPING TECHNIQUES

Method 1: Standard Gift



Method 2: Hospital style



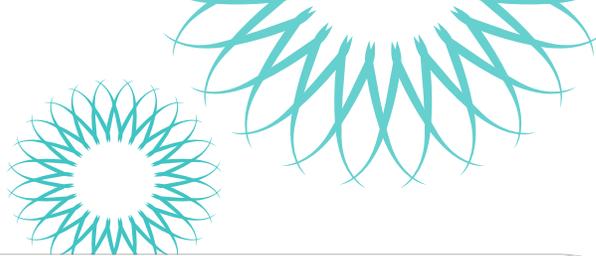
WRAP SIZE RECOMMENDATIONS

IMS Cassettes	12" x 12"	15" x 15"	20" x 20"	24" x 24"
Exam, Double-Decker® 8-Instrument, Ultrasonic Insert, Symmetry IQ & Handpiece Cassette	•	•		
Space Saver Seven™ Cassette	•	•		
Double-Decker 14-Instrument Cassette Δ		•	•	
Small 8 or 10 Instrument Cassette Δ		•	•	
Signa-Stat or Double-Decker 20-Instrument Cassette Large 16 or 20 Instrument Cassette			•	
Large 12 or 20 Instrument Cassette			•	
Oral Surgery Cassette				•
Orthodontic Cassette Box				•
Large Thin Orthodontic Cassette			•	
Small Thin Orthodontic Cassette			•	
Double-Decker Large Ortho Cassette			•	

Δ The Double-Decker 14-instrument cassette and Small cassettes are best with the 15" x 15" sterilization wrap. However, if an office is trying to purchase only one size, the 20" x 20" size is recommended.



STERILIZATION PRODUCTS



IMS® TAPE

IMS Monitor Tape

Strong 3/4" (19 mm) tape can be written on and visually differentiates processed from non-processed cassettes. Pre-printed tape is available with specific procedural set-ups, color-coded or blank. 60 yards (55 m) per roll

PROCEDURE

Ortho	IMS-1243	Exam	IMS-1256
Archwire	IMS-1244	Extraction	IMS-1257
Banding	IMS-1245	Perio	IMS-1258
Bonding	IMS-1246	Prophy	IMS-1259
Restorative	IMS-1247	Pedo	IMS-1260
Surgery	IMS-1248	Gray	IMS-1262
X-Ray	IMS-1249	Orange	IMS-1263
Blank	IMS-1250	Purple	IMS-1264
Amalgam	IMS-1251	Yellow	IMS-1265
C&B	IMS-1252	Red	IMS-1266
Cement	IMS-1253	Green	IMS-1267
Composite	IMS-1254	Blue	IMS-1268
Endo	IMS-1255	Black	IMS-1269



IMS Tape Dispensers

Rubber suction cups on the base secure dispenser to table or counter. Dispenser can also be mounted under cabinet.

IMS Tape Dispenser [| IMS-1270](#)
 10.75" x 6.25" x 7.6"
 (273 mm x 159 mm x 194 mm)
 Holds up to 9 rolls of IMS Monitor Tape.

IMS Mini Tape Dispenser [| IMS-1270H](#)
 4.4" x 6.25" x 7.6"
 (111 mm x 159 mm x 194 mm)
 Holds up to 4 rolls of IMS Monitor Tape.

IMS Lead and Latex Free Monitor Tape*

Safe for the environment, your staff and patients. Not made with lead or natural rubber latex. Does not require special hazardous disposal. Easy to use and read results. For steam autoclaves. 60 yards (55 m) per roll.

.75" (19 mm) [| IMS-1460](#)

BAGETTE® SELF-SEALING STERILIZATION POUCHES

Bagette® Self-Sealing Sterilization Pouches are constructed with durable materials and thick seals. Built-in external and internal quality control indicators relay accurate time and temperature verification, allowing you peace of mind. The full line of pouches include those custom fit especially for our cassettes and smaller sizes for all other sterilization needs.



Size	QTY	Suitable Contents	Part Code
2-1/4" x 4"	200	Rubber Dam Clamps or Burs	 IMS-1346
2-3/4" x 9"	200	1 Handpiece or 1-3 Hand Instruments	 IMS-1347
3-1/2" x 9"	200	2-5 Hand Instruments	 IMS-1236
5-1/4" x 10"	200	Handpiece or Multiple Instruments	 IMS-1348
7-1/2" x 13"	100	Exam Cassette†	 IMS-1237
10" x 14"	100	Small Cassette†	 IMS-1238
12" x 17"	100	Large Cassette†	 IMS-1239
13" x 20"	100	Oral Surgery Cassette†	 IMS-1345

*Not made with natural rubber latex

† Please see Hu-Friedy.com for complete list of suitable cassettes for this pouch.



IMS STEAM STERILIZATION MONITORS

IMS Steam Sterilization Indicators



IMS Steam Sterilization Indicators

Indicator strip verifies that steam sterilization parameters of time and temperature have been met. Use one in each cassette or pouch and retain for office records.

250 per box

| [IMS-1240](#)

IMS Steam Sterilization Integrators



IMS Steam Sterilization Integrators

Sterilization Integrators are a Class 5, multi-variable, sterilization monitor designed to react to all critical variables in the sterilization cycle: time, temperature and presence of steam. The integrators utilize a moving front indicator technology, which is an advancing color bar moving from reject to accept, eliminating the need to interpret or match colors.

100 per pouch

| [IMS-1241](#)

SPORECHECK

The SporeCheck 24 Hour In-Office Test® biological monitoring system provides reliable results in 24 hours, while being in compliance with local, state and federal guidelines. The SporeCheck system can be used with all types of steam sterilizers - including gravity, pre-vacuum and flash sterilizers.



SporeCheck Starter Kit

| [IMS-1376](#)

Contains: Dry Block Incubator with built-in vial crusher, record notebook and 1 box SporeCheck Biological Indicators, 25 count

SporeCheck Biological Indicator Vials, 25 count

| [IMS-1373](#)

SporeCheck Biological Indicator Vials, 100 count (pictured at left)

| [IMS-1373H](#)

55-60° Dry Block Incubator

| [IMS-1374](#)

Sterilizer Record Notebook

| [IMS-1375](#)

Replacement Vial Crusher

| [IMS-1377](#)

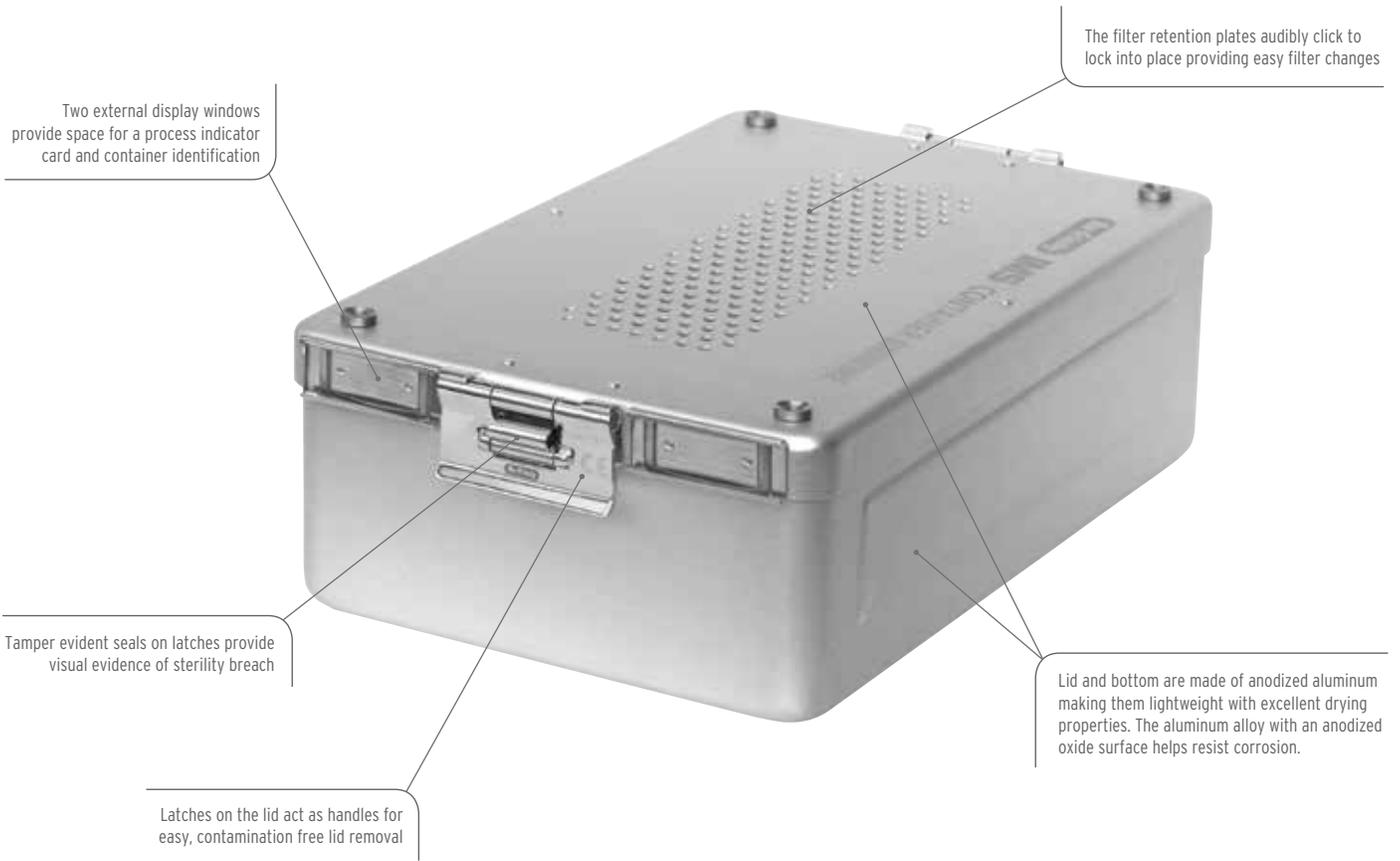
The Center for Disease Control (CDC) recommends that an internal chemical indicator is placed in every package to be processed.*

*Reference: Centers for Disease Control and Prevention. Guidelines for Infection Control in Dental Health-Care Settings - 2003. MMWR 2003; 52 (No. RR-17): [pg. 24].



STERILIZATION CONTAINER SYSTEM

Hu-Friedy's Sterilization Containers are a reusable, rigid system used for the packaging of cassettes and instruments during sterilization. An alternative to the wrap and pouch materials commonly used to package cassettes and instruments, Sterilization Containers provide significant economic and environmental benefits along with enhanced safety.



Container Cassette for 12 Instruments

Blue
 268 x 176 x 34 mm | **IMECC128**
 10-1/2" x 7" x 1-1/3"

Fits all sterilization containers
 Container Cassette with handle on lid and filter outlets.
 Fits 12 instruments, with an accessory area.





Sterilization Container
312 x 190 x 50 mm
12-1/4" x 7-1/2" x 2"

| **IMDINCO0M**

Sterilization Container
312 x 190 x 65 mm
12-1/4" x 7-1/2" x 2-1/2"

| **IMDINC01M**

Top and bottom with filter.
Fits one container cassette.



Sterilization Container
312 x 190 x 100 mm
12-1/4" x 7-1/2" x 4"

| **IMDINCO2M**

Top and bottom with filter.
Fits two container cassettes.



Sterilization Container
312 x 190 x 135 mm
12-1/4" x 7-1/2" x 5-1/3"

| **IMDINCO3M**

Top and bottom with filter.
Fits three container cassettes.

CONTAINER ACCESSORIES



Tamper Evident Seal for Lock



Container Indicator Card

Container Indicator Card
250 pieces, single use

| **IMCO-INDNA**

Tamper Evident Seal for Lock
100 pieces, single use

| **IMCOM-SEAL**

Disposable Paper Filter
100 pieces, blank, single use

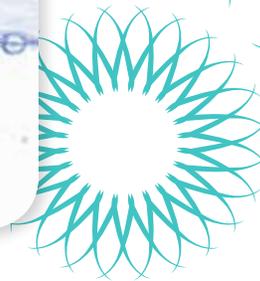
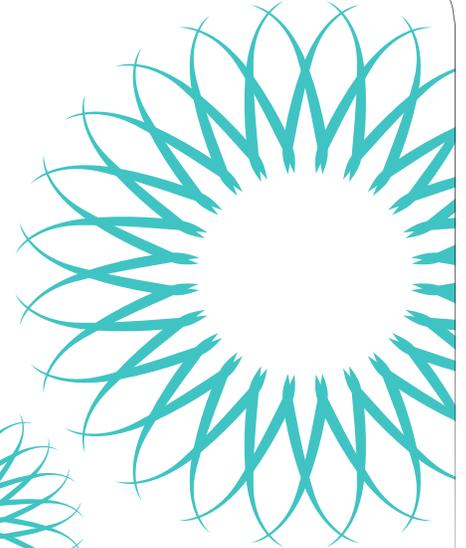
| **IMCO-FIL3M**



HAND HYGIENE PRODUCTS

HAND ESSENTIALS

Hu-Friedy Hand Essentials is a complete line of medical grade hand moisturizers, sanitizers and soaps designed for frequent use to help with program compliance. All of Hu-Friedy's hand hygiene products are non-irritating, cost effective and are tested to be Chlorhexidine Gluconate (CHG) and latex glove compatible.



Hand Essentials™ Skin Repair Cream

Helps restore the skin's natural moisture balance

	US	Canada
32 Fl oz (946 mL) Bottle w/ Pump	IMS-1500	IMS-1500CA
4 Fl oz (118 mL) Tube	IMS-1501	N/A
2 Fl oz (59 mL) Tube	IMS-1502	IMS-1502CA
4 mL Packet, Case of 144	IMS-1508	IMS-1508CA

- Aids in delivering moisture and nutrients to skin
- Contains Olivamine® to aid in the skin repair process
- CHG and latex compatible



Hand Essentials Moisturizing Lotion

Contains oatmeal, aloe vera and Vitamin E for a soothing feel

	US	Canada
33.8 Fl oz (1000 mL) Bottle w/ Pump	IMS-1503	IMS-1503CA

- Non-greasy and scent-free
- Perfect for end of the day moisturizing
- CHG and latex compatible

Olivamine is a registered trademark of McCord Research Inc.



Sterillium Comfort Gel® Hand Antiseptic

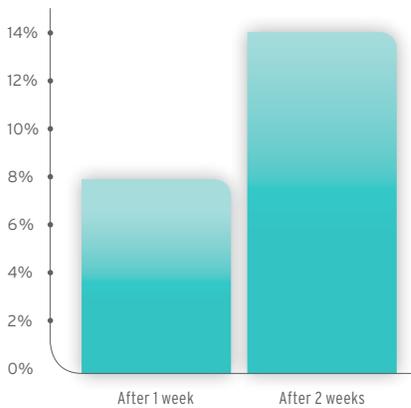
Scientifically proven, easy-to-use hand sanitizing gel

- 16.06 Fl oz (475 mL) Bottle w/ Pump | **IMS-1504**
- Sterillium Wall Bracket (for IMS-1504) 2/pk | **974730**
- 1.69 Fl oz (50 mL) Bottle | **IMS-1504S**

- 85% Alcohol kills 99.999% of a broad range of nosocomial pathogens within 15 seconds
- Proven at only 2.4 mL per application
- Proven to increase skin hydration within one week
- CHG and latex compatible

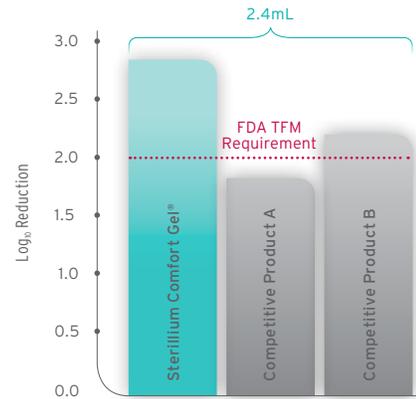
INCREASED SKIN HYDRATION

Sterillium Comfort Gel® significantly increases skin hydration after only one week of product usage compared to untreated skin.¹



TRADING ECONOMY FOR EFFICACY - IN VIVO TEST

Our test comparing Sterillium Comfort Gel® against two competitors products showed that for Sterillium, only 2.4 mL was required to entirely cover the hands and nails.



Test method follows FDA TFM for Health-Care Antiseptic Drug Products² and compliant with ASTM E1174, Standard Test Method for Evaluation of Healthcare Personnel Handwash Formulations. Sterillium Comfort Gel® in comparison to two other alcohol-based hand sanitizers available on the market.³ In vivo testing shows, use of only 2.4 mL of Sterillium Comfort Gel® exceeds the FDA TFM efficacy requirements.⁴



Hand Essentials Instant Hand Antiseptic

An essential germ-killing aid to disinfect hands

- 16 Fl oz (473 mL) Bottle w/ Pump | **IMS-1505**
- Contains Vitamin E and aloe vera to condition skin
- 70% v/v ethyl alcohol gel dries quickly on hands
- Scent-free formula
- CHG and latex compatible

Hand Essentials Antibacterial Soap

Effective against bacteria, yet gentle enough for frequent use

- 16 Fl oz (473 mL) Bottle w/ Pump | **IMS-1506**
- Rich lathering, quick-rinsing soap
- 0.5% Triclosan active antibacterial ingredient
- CHG and latex compatible



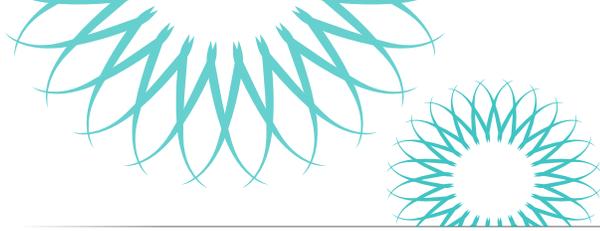
Hand Essentials Lotion Soap

Soothing, gentle on hands and pH balanced

- | | U.S. | Canada |
|----------------------------------|-----------------|-------------------|
| 16 Fl oz (473 mL) Bottle w/ Pump | IMS-1507 | IMS-1507CA |
- Enriched with moisturizing skin conditioners
 - Rich feel, clean light scent
 - CHG and latex compatible

Sterillium Comfort Gel is a registered trademark of Bode Chemie GmbH Co.





CASSETTE AND EQUIPMENT "RULES OF THUMB"

In order to determine your specific instrument and cassette needs, review these "Rules of Thumb." They offer good insight into your decisions about cassettes and equipment.

How many cassettes do I need?

To estimate the minimum number of cassettes needed for your office:

1. Take the average number of procedures performed per day 20
2. Divide that number in half 10
3. Add one additional cassette for backup and emergency 10+1=11
4. Total number of cassettes needed per day 11*

*Note: Guidelines only! This example processes instruments through sterilization 2 times per day. High production offices will need enough cassettes for 3-4 sterilizations cycles per day.

What kind of ultrasonic equipment do I need?

Offices with:

- 1 Doctor / 1 Hygienist = 3 gallon tank minimum
- 1 Doctor / 2 Hygienist = 3 gallon tank or 6 gallon tank (if a fast-pace office)
- 2 Doctors / 1 Hygienist = 3-6 gallon tank
- Group Practices = Two 6 gallon tanks or instrument washer

Note: 1 Gallon = 3.785 liters

Sterilization Equipment?

Offices with:

- 1 Doctor / 1 Hygienist = 10" + chamber
- 1 Doctor / 2 Hygienist = 10" + chamber
- 2 Doctors / 1 Hygienist or users of Dental Automated washer/ disinfectant = One-Two 10" + chambers or one very large sterilizer

IMS INFECTION CONTROL STARTER PACKAGES

Hu-Friedy now offers complete Infection Control Starter Packages that include everything you need to ensure a safer and smarter practice for you and your patients from day one. Simply choose the appropriate package based on whether or not you are a cassette user.

For a discounted price off of retail, you will receive Enzymax, IMS wrap, SporeCheck, Team Vista, Hu-Friedy Hand Essentials and more.

Hu-Friedy's Starter Packages offer you two choices; if you are a Cassette user then ICSPCASS, the Cassette IC Starter Package is for you (ICSPCASSCA in Canada). However, if you don't use Cassettes in your office we have ICSPCONSBL, the Consumable IC Starter Package to choose from (ICSPCONSCA in Canada).

HUSAVESM CONSUMABLES SAVINGS PROGRAM*

Experience huge savings and earn great benefits as a member of Hu-Friedy's HUSAVE program!

HUSAVE offers a variety of disposable products direct from Hu-Friedy at significantly reduced prices. No more worrying about re-ordering or stocking bulky disposable products. The HUSAVE program is designed to dramatically reduce the time you spend purchasing while saving you money in the process!

Simply choose the product you would like to order, and when you would like them to ship, and we will do the rest. We will ship the product as you indicated and bill you through your dealer of choice.

To enroll in HUSAVE or to learn more about the savings program, please call 1-866-HUSAVE3 or go to Hu-Friedy.com

SAVE MONEY

10-50% on purchases of consumable products

SAVE TIME

Place one order for the entire year or call us when you need product

SAVE SPACE

No need to store extra supplies

*Available in the US only

The HUSAVE Program includes the following product categories:



Cleaning and Care Products



Sterilization Products



Hand Care Products



Sutures and Scalpel Blades



TECHNICAL SERVICE

Complete servicing for IMS Cassettes in North America is available at our Chicago facility. Please wrap and sterilize cassette prior to returning for repair. Items returned for servicing should be sent via UPS or registered insured mail:

ATTENTION: Technical Service Department
Hu-Friedy Mfg. Co., LLC
1666 E. Touhy Ave.
Des Plaines, IL 60018

Price quotations on cost of repair are available upon request. If in need of additional service, please contact your local Hu-Friedy dealer. For IMS cassette service outside North America, please contact your local Hu-Friedy dealer.

REFERENCES FROM DATA ON PAGE A33

1. Independent Human Repeat Insult Patch Test.
Data on file at Hu-Friedy.
2. Independent Skin Care Study/Skin Hydration.
Data on file at Hu-Friedy.
3. Topical antimicrobial drug products for over-the-counter human use; Tentative final monograph for health care antiseptic drug products; Federal Register 1994, 59 (116):31402-31452. To be codified at 21 CFR sec. 333.
4. Independent lab testing done on all products, April 13 2007.
5. Independent TFM in Vivo Study. Data on file at Hu-Friedy.

IMS LIMITED WARRANTY

IMS® Cassette Limited Warranty

Hu-Friedy, at its sole option, will repair or replace, for a period of four years following the date of purchase, any IMS® cassette that is defective because of failure of materials (including corrosion) or workmanship of the cassette shell. Hu-Friedy, at its option, will also repair or replace, for a period of one year following the date of purchase, any, IMS® cassette that is defective because of failure of materials or workmanship of the internal and moving components. Purchaser must return the defective cassette (postage prepaid) and must have previously provided Hu-Friedy with the warranty registration card.

HU-FRIEDY DISCLAIMS LIABILITY, UNDER THIS WARRANTY OR OTHERWISE, FOR DAMAGES ARISING FROM (1) USER NEGLIGENCE, MISUSE, ABUSE OR ALTERATIONS TO THE CASSETTE; (2) THE USE OF COMMERCIAL/RESIDENTIAL GRADE WASHERS; (3) DENTAL AUTOMATED WASHER - DISINFECTORS WHERE MANUFACTURER'S PROCESSING GUIDELINES ARE NOT FOLLOWED; AND/OR (4) IMPROPER SET-UP AND INSTALLATION OF THE DEVICE.

Care Instructions for IMS cassettes can be found on the instrument processing insert included with each cassette and in the approved Instrument Reprocessing Guide on Hu-Friedy.com.

See website for complete warranty information.
Hu-Friedy.com/IMS warranty

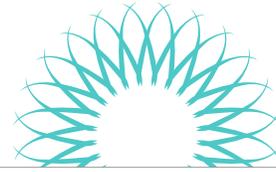
TROUBLESHOOTING: REPROCESSING DO'S AND DON'TS

DO

- ...wear Hu-Friedy's Lilac Utility Gloves when handling contaminated cassettes and instruments.
- ...change the ultrasonic solution at least once a day or when visibly soiled. Dirty solution harbors particles that may inhibit efficient cleaning process.
- ...wipe off cement residue, glass ionomer and/or other heavy debris at chairside immediately after use.
- ...use Hu-Friedy's Enzymax products when cleaning Hu-Friedy cassettes and instruments for best results.
- ...sharpen instruments at chairside after sterilization and before a procedure. Hu-Friedy's sharpening stones can be processed along with instruments in the IMS cassette.
- ...autoclave utility gloves in separate sterilization pouches.

DON'T

- ...let instruments protrude from cassettes.
- ...place cassettes in temperatures above 350°F/177°C.
- ...overload the cassette. If there is resistance when closing cassette, stop. Remove excess items and repeat the closing process. Forcing cassette to close under stress may inhibit future performance.
- ...put stainless steel and carbon steel instruments in the same cassette.
- ...reposition the location of the rails in resin cassettes. Improper rail location may cause undue stress on the cassette and can damage it.
- ...use IMS Autoclave Wrap in dry heat sterilization.
- ...run ultrasonic unit or steam autoclave without water.



TROUBLESHOOTING

Problem	Cause	Prevention
<ul style="list-style-type: none"> • Spotting 	<ul style="list-style-type: none"> • Insufficient rinsing after ultrasonic cleaning • Insufficient drying after ultrasonic cleaning • Not changing ultrasonic solution • Sterilizer has not been cleaned 	<ul style="list-style-type: none"> • Rinse thoroughly under steady stream of water for 30 seconds. Use distilled water if possible • Rinse with hot water • Optional: Dip cassettes in alcohol after rinsing • Solution should be changed at least once a day • Follow manufacturer's guidelines for maintenance and cleaning • Use only distilled water for reservoir
<ul style="list-style-type: none"> • Rust 	<ul style="list-style-type: none"> • Corrosion from carbon steel instruments spreads to stainless steel instruments • Abrasion can destroy the chromium/oxide surface • Sterilizer not clean 	<ul style="list-style-type: none"> • Separate stainless and carbon instruments • For carbon steel instruments: Dip in pre-sterilization solution as suggested by sterilizer manufacturer • Lubricate joints and lock area • Follow manufacturer's guidelines for maintenance and cleaning
<ul style="list-style-type: none"> • Pitting 	<ul style="list-style-type: none"> • Chemical attack on instruments • Chlorides (water leakage from water softener or additives containing chlorides) • Organic residues (blood, saliva, sweat) 	<ul style="list-style-type: none"> • Rinse and dry instruments thoroughly • Use approved cleaning and sterilization solutions only, never use household bleach or stain and tartar remover • Use demineralized or distilled water in final rinse. • Use approved cleaning and sterilization solutions only. Never use bleach, tartar or cement remover

Problem	Cause	Prevention
Staining (Resin cassettes)		
<ul style="list-style-type: none"> • Black/Purple 	<ul style="list-style-type: none"> • Amalgam left in carrier • Contact with ammonia 	<ul style="list-style-type: none"> • Thoroughly remove amalgam or other compounds from the instrument prior to processing • If carrier is plugged, sterilize separately and unplug while carrier is warm • Use only proper and approved cleaning agents and rinse thoroughly
<ul style="list-style-type: none"> • Green 	<ul style="list-style-type: none"> • Chrome breakdown of instruments 	<ul style="list-style-type: none"> • Inspect instruments and replace those with cracked handles or peeled plating
<ul style="list-style-type: none"> • Yellow/Brown 	<ul style="list-style-type: none"> • Sterilizer has not been cleaned • Normal use discoloration 	<ul style="list-style-type: none"> • Change reservoir water once a week • Regularly clean chamber and filters according to manufacturer's instructions • Every 6 months soak resin cassettes (without instruments and not in the ultrasonic) in 2 cups bleach to 1 gallon of water for 5 to 30 minutes
<ul style="list-style-type: none"> • Brown/Blue 	<ul style="list-style-type: none"> • Sterilizer has not been cleaned 	<ul style="list-style-type: none"> • Regularly clean chamber and filters according to manufacturer's instructions
<ul style="list-style-type: none"> • Turning Matte Gray 	<ul style="list-style-type: none"> • Excessive lime in water • Cement remover has been in contact with instruments 	<ul style="list-style-type: none"> • Use demineralized or distilled water for softened water in cleaning stage • Wipe off cement removers prior to placing in an automatic washer
Cassette Issues		
<ul style="list-style-type: none"> • Broken Hinges 	<ul style="list-style-type: none"> • Overloading/improperly placed instruments • Improperly placed rails 	<ul style="list-style-type: none"> • Instruments should not protrude from cassette • Only light force is needed to close the cassette • Do not reposition resin cassette rails
<ul style="list-style-type: none"> • Wet Packs 	<ul style="list-style-type: none"> • Insufficient drying before or during sterilization • Improper loading of cassettes in sterilizer 	<ul style="list-style-type: none"> • Thoroughly dry cassette after cleaning, before wrapping • Crack open autoclave sterilizer door during dry cycle • Optional: After sterilization cycle, leave cassettes in warm sterilizer for 10 minutes • Do not overpack sterilizer • Keep cassettes slightly separated within the chamber • Always use sterilizer's cassette rack

