



# AMA Medical Products

Simplifying Medical Product Solutions

AUSTRALIA WIDE



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## TWO CHOICES OF QUALITY

Our selection of HIPP and Armo instruments offer unparalleled flexibility, quality and value. Our multi-tiered instrument quality selection recognises and meets a variety of clinical needs and budgets.



### HIPP GERMANY THEATRE

Our state of the art range of "Theatre Quality" Instruments. All Hipp instruments are manufactured to exacting standards at the fully accredited Anton Hipp GMBH facility located in southern Germany. Crafted from the finest German stainless steel forgings for the utmost reliability, durability, consistency and precision. Incorporating the very latest technological innovations, most of these instruments are available with Tungsten Carbide inserts for added precision and lifespan.



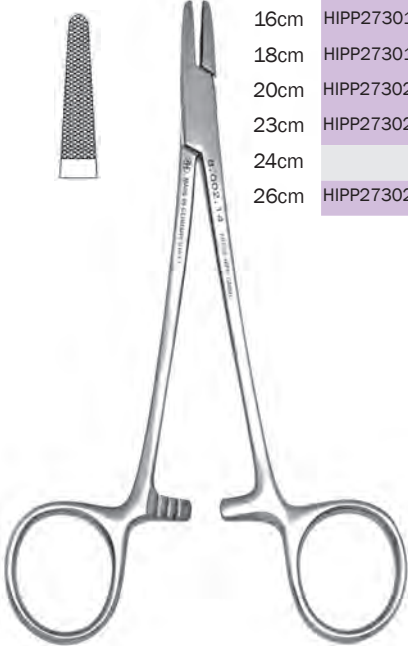
### ARMO SUPERIOR

The workhorse of our three quality ranges. This accredited range was borne out of the need for high quality dependable instrumentation in today's cost-sensitive environment. ARMO Instruments are crafted from the finest quality forgings and made to our specification in state of the art fully accredited manufacturing facilities in Pakistan. Most ARMO instruments are available in a smooth satin low reflective finish.

Instrument quality level		
HIPP		ARMO
theatre (Germany)		superior

# NEEDLE HOLDERS 1

## Mayo-Hegar



	HIPP		ARMO
14cm	HIPP273014		ARMAA4201
16cm	HIPP273016		ARMA4203
18cm	HIPP273018		ARMA4205
20cm	HIPP273020		ARMA4208
23cm	HIPP273023		
24cm			ARMA4210
26cm	HIPP273026		ARMA4211

## Mayo-Hegar - tungsten carbide



	HIPP		ARMO
14cm	HIPTC900214		ARMA4202
16cm	HIPTC900216		ARMA4207
18cm	HIPTC900218		ARMA4204
20cm	HIPTC900220		ARMA4209
24cm	HIPTC900224		ARMA4206
26cm	HIPTC900226		ARMA4212

## Olsen-Hegar



	HIPP		ARMO
11cm	HIP135011		ARMA4306
14cm	HIP135014		ARMA4300
18cm	HIP135018		ARMA4301

## Olsen-Hegar - tungsten carbide



	HIPP		ARMO
11cm	HIPTC296611		ARMA4303
14cm	HIPTC904814		ARMA4305
16cm	HIPTC904816		ARMA4302
18cm	HIPTC904818		ARMA4304

# 2 NEEDLE HOLDERS

Instrument quality level		
<b>HIPP</b>		<b>ARMO</b>
theatre (Germany)		superior

## Crile-Wood



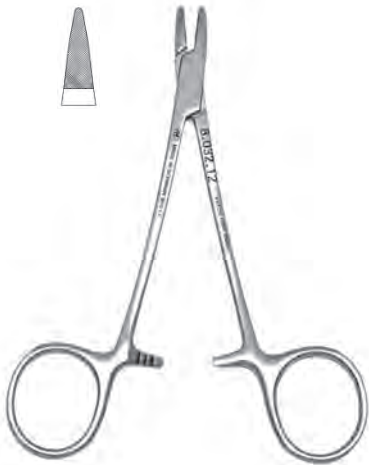
	HIPP	ARMO
15cm	HIP271815	ARMA4413
18cm	HIP271818	ARMA4417
20cm	HIP271820	ARMA4419

## Crile-Wood tungsten carbide



	HIPP	ARMO
15cm	HIPTC901215	ARMA4414
18cm	HIPTC901218	ARMA4418
20cm	HIPTC901220	ARMA4420
23cm	HIPTC901223	

## Derf



	HIPP	ARMO
12.5cm	HIP270012	ARMA4500

## Derf tungsten carbide



	HIPP	ARMO
12.5cm	HIPTC903212	ARMA4501

Instrument quality level		
HIPP		ARMO
theatre (Germany)		superior

# NEEDLE HOLDERS

## Halsey / Webster



**HIPP** **ARMO**

serrated jaw

13cm **HIP270813** **ARMA4105**

smooth jaw (Webster)

13cm **HIP271213** **ARMA4107**

## Halsey tungsten carbide



**HIPP** **ARMO**

13cm **HIPTC902613** **ARMA4106**

## Gillies



**HIPP** **ARMO**

right hand

16cm **HIP276816** **ARMA4102**

left hand

16cm **ARMA4103**

## Gillies tungsten carbide



**HIPP** **ARMO**

right hand

12cm (mini) **ARMA4100**

16cm **HIPTC905116** **ARMA4104**

left hand

16cm **ARMA4101**

# 4 NEEDLE HOLDERS

Instrument quality level		
<b>HIPP</b>		<b>ARMO</b>
theatre (Germany)		superior

## Kilner tungsten carbide



**ARMO**  
14cm ARMA4146

## Mathieu



	<b>HIPP</b>	<b>ARMO</b>
14cm	HIP278414	ARMA4150
17cm	HIP278417	ARMA4151
19cm	HIP278420	ARMA4152

## Mathieu tungsten carbide



**ARMO**  
14cm ARMA4153  
17cm ARMA4149  
20cm ARMA4148

## Ryder (vascular) tungsten carbide



**ARMO**  
straight  
16cm ARMA4154

## Collier



	<b>HIPP</b>	<b>ARMO</b>
12.5cm	HIP270612	ARMA4502

## Converse



	<b>HIPP</b>	<b>ARMO</b>
12.5cm	HIP270212	ARMA4499

Instrument quality level		
<b>HIPP</b>		<b>ARMO</b>
theatre (Germany)		superior

# NEEDLE HOLDERS 5

## Castraviejo with lock



### ARMO

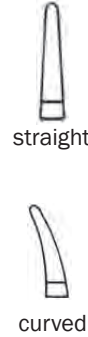
- straight
  - 13cm ARMA4250
  - 16cm ARMA4252
- curved
  - 13cm ARMA4251

### With tungsten carbide jaw:

### HIPP

- straight
  - 14cm HIPTC931214

## Castraviejo without lock



### ARMO

- straight
  - 13cm ARMA4260
- curved
  - 13cm ARMA4261

## Hegar-Baumgartner tungsten carbide



### HIPP ARMO

- 13cm HIPTC272814 ARMA4147

## Debaquey tungsten carbide




### ARMO

- 18cm ARMA4498
- 20cm ARMA4497
- 23cm ARMA4496

# 6 SCISSORS

instrument quality level		
HIPP		ARMO
theatre (Germany)		superior

## Mayo



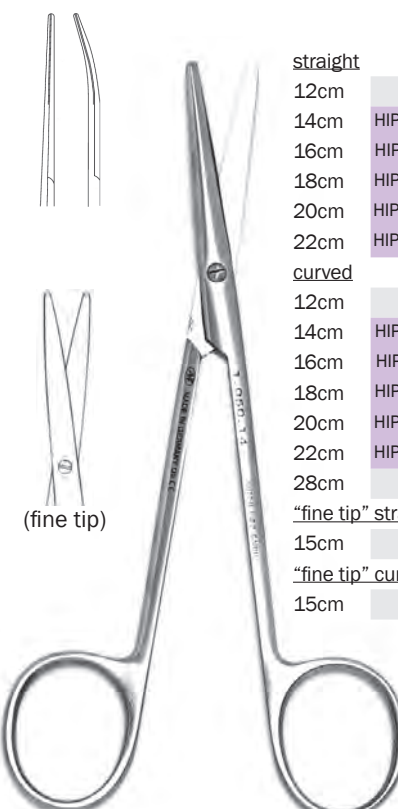
	HIPP	ARMO
<b>straight</b>		
14.5cm	HIP103015	ARMA3202
16cm		ARMA3204
18cm	HIP103017	ARMA3207
20cm	HIP103019	ARMA3208
22cm	HIP103023	ARMA3215
<b>curved</b>		
14.5cm	HIP103115	ARMA3203
16cm		ARMA3205
18cm	HIP103117	ARMA3209
20cm	HIP103119	ARMA3211
22cm	HIP103123	ARMA3214

## Mayo - tungsten carbide



	HIPP	ARMO
<b>straight</b>		
14.5cm	HIPTC181014	ARMA3200
18cm	HIPTC181017	ARMA3206
22cm	HIPTC181023	ARMA3213
<b>curved</b>		
14.5cm	HIPTC181114	ARMA3201
17cm	HIPTC181117	ARMA3210
22cm	HIPTC181123	ARMA3213

## Metzenbaum



	HIPP	ARMO
<b>straight</b>		
12cm		ARMA3249
14cm	HIP105014	ARMA3253
16cm	HIP107015	ARMA3255
18cm	HIP105018	ARMA3257
20cm	HIP105020	ARMA3262
22cm	HIP105023	ARMA3263
<b>curved</b>		
12cm		ARMA3250
14cm	HIP105114	ARMA3254
16cm	HIP107115	ARMA3256
18cm	HIP105118	ARMA3258
20cm	HIP105120	ARMA3264
22cm	HIP105123	ARMA3265
28cm		ARMA3248
<b>"fine tip" straight</b>		
15cm		ARMA3246
<b>"fine tip" curved</b>		
15cm		ARMA3247

## Metzenbaum - tungsten carbide



	HIPP	ARMO
<b>straight</b>		
14cm	HIPTC183014	ARMA3251
18cm	HIPTC183018	ARMA3266
20cm	HIPTC183020	ARMA3267
22cm	HIPTC183023	ARMA3260
<b>curved</b>		
14cm	HIPTC183114	ARMA3252
18cm	HIPTC183118	ARMA3259
20cm	HIPTC183120	ARMA3268
22cm	HIPTC183123	ARMA3261



instrument quality level			
HIPP		ARMO	
theatre (Germany)		superior	

## Surgical



### straight

### curved

#### sharp/sharp

11cm
13cm
14cm
16cm
18cm
20cm

HIPP		ARMO	
		ARMA3296	
HIP100413		ARMA3302	
		ARMA3290	
HIP100416		ARMA3320	
HIP100418		ARMA3323	
		ARMA3346	

HIPP		ARMO	
		ARMA3295	
HIP100513		ARMA3305	
		ARMA3289	
HIP100516		ARMA3317	
HIP100518		ARMA3332	

#### sharp/blunt

11cm
13cm
14cm
16cm
18cm

HIPP		ARMO	
		ARMA3297	
HIP100213		ARMA3301	
HIP100214		ARMA3292	
HIP100216		ARMA3319	
HIP100218		ARMA3339	

HIPP		ARMO	
		ARMA3304	
HIP100313		ARMA3291	
HIP100316		ARMA3316	
HIP100318		ARMA3331	

#### blunt/blunt

11cm
13cm
14cm
16cm
18cm

HIPP		ARMO	
		ARMA3298	
HIP100013		ARMA3300	
		ARMA3294	
HIP100016		ARMA3318	
HIP100018			

HIPP		ARMO	
		ARMA3299	
HIP100113		ARMA3303	
		ARMA3293	
HIP100116		ARMA3315	
HIP100118		ARMA3330	

#### sharp/probe

13cm
------

HIPP		ARMO	
		ARMA3306	

HIPP		ARMO	

### first aid quality - straight

sharp/sharp	13cm	
sharp/blunt	13cm	
blunt/blunt	13cm	

## Surgical tungsten carbide



### straight

### curved

#### sharp/sharp

14cm
16cm
18cm

HIPP		ARMO	
HIPTC180414		ARMA3307	
HIPTC180416		ARMA3324	
HIPTC180418		ARMA3333	

HIPP	ARMO
HIPTC180514	ARMA3310
HIPTC180516	ARMA3327
	ARMA3334

#### sharp/blunt

14cm
16cm
18cm

HIPP		ARMO	
HIPTC180214		ARMA3308	
HIPTC180216		ARMA3325	
		ARMA3335	

HIPP	ARMO
HIPTC180314	ARMA3311
HIPTC180316	ARMA3328
	ARMA3336

#### blunt/blunt

14cm
16cm
18cm

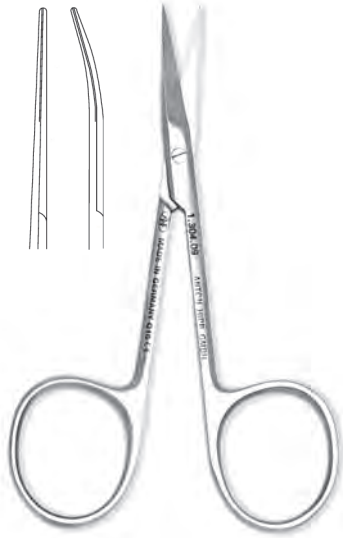
HIPP		ARMO	
HIPTC180014		ARMA3309	
HIPTC180016		ARMA3326	
		ARMA3337	

HIPP	ARMO
HIPTC180114	ARMA3312
HIPTC180116	ARMA3329
	ARMA3338

# 8 SCISSORS

instrument quality level			
HIPP		ARMO	
theatre (Germany)		superior	

## Iris



	HIPP	ARMO	SAYCO
straight			
9cm	HIP130409		ARMA3150
11cm	HIP130411		ARMA3152
curved			
9cm	HIP130509		ARMA3151
11cm	HIP130511		ARMA3153

## Iris tungsten carbide



	HIPP	ARMO
straight		
11cm	HIPTC187411	ARMA3149
curved		
11cm	HIPTC187511	ARMA3148

## Strabismus



	HIPP	ARMO
straight		
11cm	HIP125011	ARMA3157
curved		
11cm	HIP125111	ARMA3158

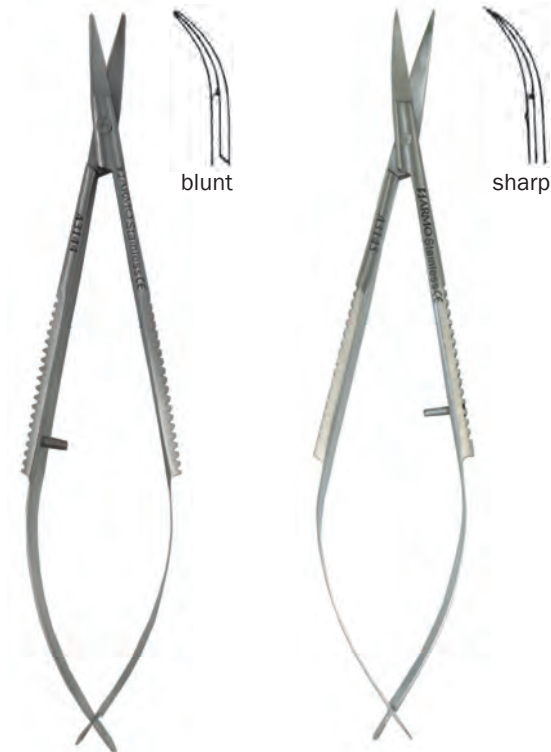
## Kilner



	HIPP	ARMO
straight		
13cm	HIP134413	ARMA3155
curved		
13cm	HIP134513	ARMA3156

instrument quality level	
<b>HIPP</b>	<b>ARMO</b>
theatre (Germany)	superior

## Castroviejo



**ARMO**  
blunt/blunt curved  
10cm ARMA3144  
sharp/sharp curved  
10cm ARMA3145

## Micro



**ARMO**  
12cm ARMA3154

## O'Brien (Iris - angled)



**HIPP** **ARMO**  
9cm HIP129709  
11.5cm ARMA3163

# 10 SCISSORS

instrument quality level			
<b>HIPP</b>		<b>ARMO</b>	
theatre (Germany)		superior	

## Heath Suture/ligature



**ARMO**  
16cm ARMA3403

## Spencer Suture/ligature



	<b>HIPP</b>		<b>ARMO</b>
9cm	HIP137209		ARMA3400
12cm	HIP137412		ARMA3401
14cm			ARMA3402

## Universal Wire/ligature



**ARMO**  
12cm ARMA3142

## Cuticle



**ARMO**  
straight 10cm ARMA1946  
curved 10cm ARMA1947

## Fergusson Abdominal angled on the flat



**ARMO**  
18cm  
21cm ARMA3179

## Sims (Uterine) Blunt/blunt



**ARMO**  
straight  
20cm ARMA3184  
curved  
20cm ARMA3185  
23cm ARMA3178

## Nail



**ARMO**  
straight 9cm ARMA1948  
curved 9cm ARMA1949

instrument quality level			
HIPP		ARMO	
theatre (Germany)		superior	

## Kelly



**HIPP ARMO**

straight  
16cm **HIP133416** **ARMA3159**  
curved  
16cm **HIP133516** **ARMA3160**

## Braun-Stadler Episiotomy



**HIPP ARMO**

14.5cm **HIP121714** **ARMA3181**  
22cm **HIP121722** **ARMA3181**

## Stevens Tenotomy



**HIPP ARMO**

straight  
11cm **HIP127011** **ARMA3161**  
curved  
11cm **HIP127111** **ARMA3162**

## Umbilical (USA)



**ARMO**

10.5cm **ARMA3182**

## Ward



20cm

## Ward



**Black Plastic  
Coated Handle**

20cm

# 12 SCISSORS

instrument quality level			
HIPP		ARMO	
theatre (Germany)		superior	

## Bandage Scissors



Lister, Regular

14.5cm  
18cm  
20cm

**ARMO**

ARMA3138  
ARMA3139  
ARMA3140



Lister, Heavy Duty

20cm

**ARMO**

ARMA3136

## Universal/Trauma

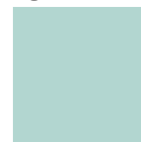


- Autoclavable
- Colour coded plastic handles & tips
- Note colours may vary from those pictured.



19cm - large

Black  
Green  
Red  
Pink



16cm - small

Black  
Green  
Red  
Blue  
Ochre  
Orange  
Pink  
Purple  
Yellow



## The Supercut Advantage

All Supercut Scissors are expertly manufactured from the highest quality stainless steel. The result is a significantly sharper instrument with super fine precision capabilities, making them ideal for a variety of surgical procedures.

### 1. What are Supercut Scissors ?

Supercut Scissors offer unrivalled quality and cutting ability and are “sharper” than conventional scissors. The cutting blade is “razor-edged”.

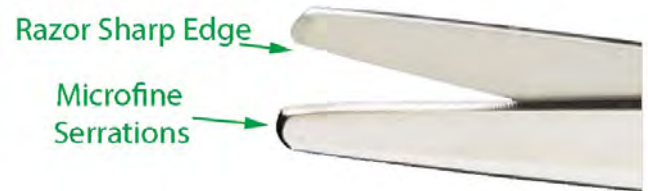
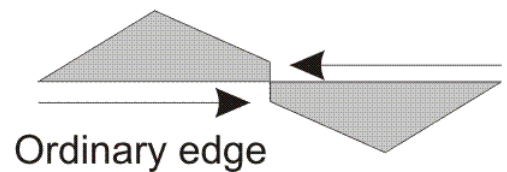
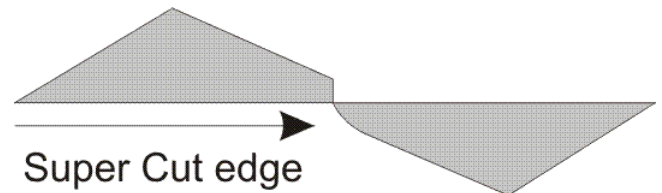
### 2. Why Supercut Scissors are better than the ordinary scissors?

A specially designed razor-sharp upper blade edge that cuts effortlessly through tissue. combined with a lower blade having micro serrations to hold and prevent tissue slippage make these scissors ideal for gripping tissue and cutting interproximally.

### 3. What are their other advantages?

- Super Cut Scissors with razor edge + micro serrations ensure extremely controlled cutting in difficult areas during surgery. They cut their way forward more accurately.
- These scissors supersede because of their ability to cut with extreme precision right down to the tip of the blades.
- Literally speaking, the cutting edges obey the hands and mind of the surgeon most precisely.
- The cutting margins/ edges are honed to eliminate any traumatisation of the tissues during cutting action, by applying special custom-made technology.

For easy identification all **Hipp** and **Armo** Supercut Scissors have black ring handles.



# SUPERCUT

## 14 SCISSORS

instrument quality level	
<b>HIPP</b>	<b>ARMO</b>
theatre (Germany)	superior

### Iris



**HIPP ARMO**

straight

11cm **HIPS130411** **ARMAS3152**

curved

11cm **HIPS130511** **ARMAS3153**

### Reynolds



**HIPP ARMO**

curved

15cm **HIPS132515** **ARMAS3147**

### Stevens



**HIPP ARMO**

straight

11.5cm **HIPS127011** **ARMAS3161**

curved

11.5cm **HIPS127111** **ARMAS3162**

### Goldman Fox



**HIPP ARMO**

curved

13cm **HIPS148713Z** **ARMAS3165**

### Wagner



**HIPP ARMO**

straight

12cm **HIPS130412** **ARMAS3163**

curved

12cm **HIPS130512** **ARMAS3164**

### Kilner



**HIPP ARMO**

curved

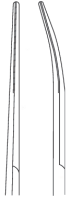
13cm **HIPS134513** **ARMAS3156**



instrument quality level	
HIPP	ARMO
theatre (Germany)	superior

# SUPERCUT SCISSORS 15

## Metzenbaum Sharp/Blunt



	HIPP	ARMO
<u>straight</u>		
14cm	HIPS105214	ARMAS3166
18cm	HIPS106218	ARMAS3167
<u>curved</u>		
14cm	HIPS105314	ARMAS3168
18cm	HIPS106318	ARMAS3169

## Metzenbaum Blunt/Blunt



	HIPP	ARMO
<u>straight</u>		
11cm	HIPS105011	
14cm	HIPS105014	ARMAS3253
18cm	HIPS106018	ARMAS3257
<u>curved</u>		
11cm	HIPS105111	ARMAS3250
14cm	HIPS105114	ARMAS3254
18cm	HIPS106118	ARMAS3258

## Mayo



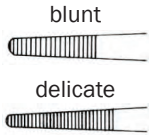
	HIPP	ARMO
<u>straight</u>		
14cm	HIPS103014	ARMAS3202
17cm	HIPS103017	ARMAS3207
20cm	HIPS103020	ARMAS3208
<u>curved</u>		
14cm	HIPS103114	ARMAS3203
17cm	HIPS103117	ARMAS3209

# 16 FORCEPS

instrument quality level			
HIPP		ARMO	
theatre (Germany)		superior	

## Dressing Forceps

### Dressing Forceps, block end



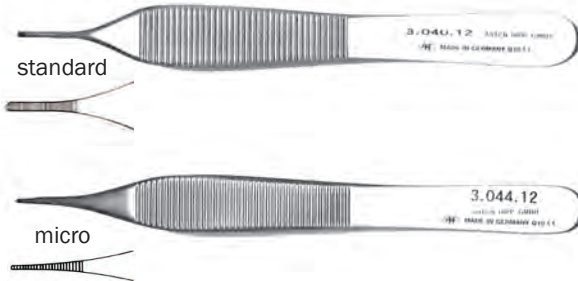
		HIPP	ARMO	SAYCO
blunt tip	11cm		ARMA2404	
blunt tip	13cm	HIP300013	ARMA2402	
delicate - tip	13cm		ARMA2403	
blunt tip	14cm		ARMA2138	
blunt tip	16cm	HIP300016	ARMA2139	
blunt tip	18cm		ARMA2409	
blunt tip	20cm		ARMA2140	
blunt tip	25cm		ARMA2141	
blunt tip	30cm			

### Dressing Forceps, turnover end



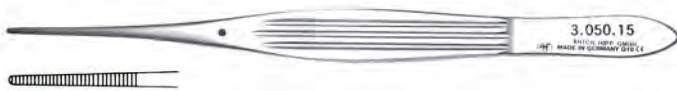
blunt tip	13cm	
blunt tip	15cm	

### Adson Forceps, serrated tips



		HIPP	ARMO
standard point	12cm	HIP304012	ARMA2401
standard point	15cm		ARMA2407
micro point	12cm	HIP304412	ARMA2400

### McIndoe Forceps, serrated tips



		HIPP	ARMO
15cm		HIP305015	ARMA2415

### Potts Smith Forceps, serrated tips



		HIPP	ARMO
18cm		HIP308018	ARMA2608
21cm			ARMA2136

### Semken Forceps, serrated tips



		HIPP	ARMO
12.5cm		HIP305412	ARMA2610
15cm		HIP305415	ARMA2611

instrument quality level			
HIPP		ARMO	
theatre (Germany)		superior	

## Tissue Forceps

### Standard

		HIPP	ARMO
1x2 teeth	11cm		ARMA2606
1x2 teeth	13cm		ARMA2615
1x2 teeth	14cm	HIP310014	ARMA2616
1x2 teeth	16cm	HIP310016	ARMA2617
1x2 teeth	18cm		ARMA2624
1x2 teeth	20cm	HIP310020	ARMA2614
1x2 teeth	25cm	HIP310025	ARMA2618
2x3 teeth	12.5cm	HIP310213	ARMA2621
2x3 teeth	14cm	HIP310214	ARMA2622
2x3 teeth	16cm	HIP310216	ARMA2623



### Adlerkreutz

		HIPP
4x5 teeth	15cm	HIP323815



### Adson

		HIPP	ARMO
standard jaw, 1x2 teeth	12cm	HIP315012	ARMA2600
tying platform, 1x2 teeth	12cm	HIP315412	
standard jaw, 1x2 teeth	15cm		ARMA2592
micro jaw, 1x2 teeth	12cm	HIP315812	ARMA2559
micro jaw, 1x2 teeth	15cm		ARMA2591



### Adson - tungsten carbide

		ARMO
standard jaw, 1x2 teeth	12cm	ARMA2601



### Adson Brown

		HIPP	ARMO
12cm		HIP316012	ARMA2554



### Treves








		ARMO
1x2 teeth	13cm	ARMA2630
1x2 teeth	15cm	



# 18 FORCEPS

instrument quality level		
<b>HIPP</b>		<b>ARMO</b>
theatre (Germany)		superior

## Tissue Forceps (cont'd)

 <p>4 x 5</p>	<b>Allis</b>	4x5 teeth 15cm 4x5 teeth 18cm	<b>ARMO</b> ARMA2605 ARMA2603
	<b>Babcock</b>	16cm	<b>ARMO</b> ARMA2620
 <p>1 x 2</p>	<b>Bonney</b>	1x2 teeth 18cm	<b>ARMO</b> ARMA2619
 <p>1 x 2</p>	<b>Gillies</b>	1x2 teeth 15cm	<b>HIPP</b> ARMA2625 HIP316615
 <p>1 x 2</p>	<b>Lane</b>	1x2 teeth 14.5cm	<b>ARMO</b> ARMA2607
 <p>1 x 2</p>	<b>Potts Smith</b>	1x2 teeth 18cm	<b>HIPP</b> ARMA2609 HIP320018
 <p>1 x 2</p>	<b>Semken</b>	1x2 teeth 12.5cm 1x2 teeth 15cm	<b>HIPP</b> ARMA2612 HIP317015

instrument quality level			
HIPP		ARMO	
theatre (Germany)		superior	

## First Aid & Splinter Forceps

### Feilchenfeld

	HIPP		ARMO	SAYCO
9cm	HIP337009		ARMA2550	
11.5cm	HIP337011		ARMA2551	



### First Aid/Splinter Forceps

		ARMO	
pointed tip	9cm	ARMA2519	
pointed tip	12.5cm	ARMA2520	
flat tip	9cm		
slanted tip	9cm		



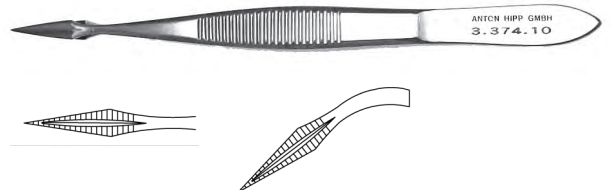
### Forceps with Magnifier

straight	10cm	
curved	10cm	



### Hunter Forceps

		HIPP		ARMO
straight	no pin	HIP337810		
	with pin	HIP337410		ARMA2552
curved	with pin	HIP337510		ARMA2555



### Stiegiltz Forceps

	HIPP		ARMO
15cm	HIP6005813		ARMA2553



# 20 FORCEPS

instrument quality level		
<b>HIPP</b>		<b>ARMO</b>
theatre (Germany)		superior

## Aural Dressing Forceps

**Hartman Polypus Forceps, serrated jaws**



**ARMO**

8cm	ARMA2200
11cm	ARMA2201
14cm	ARMA2202

**McGee Micro Ear Forceps, Micro serrated jaws**



**ARMO**

8cm	ARMA2206
11cm	ARMA2207

**Tilley Aural Dressing Forceps, serrated ends**



**ARMO**

14cm	ARMA2204
------	----------

**Troeltsch Aural Dressing Forcep, serrated ends**



**HIPP**

**ARMO**

13cm	HIP342913	ARMA2198
18cm		ARMA2185

**Jansen Aural Dressing Forceps, serrated ends**



**ARMO**

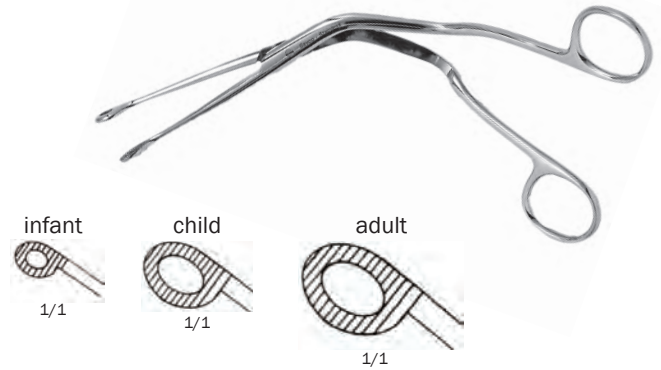
20cm	ARMA2203
------	----------

instrument quality level	
ARMO	
superior	

## Catheter Forceps

### Magill Forceps

		ARMO
infant	15cm	ARMA2192
child	20cm	ARMA2193
adult	25cm	ARMA2194



## Dental Forceps

### Perry Dental Forceps, serrated tips

		ARMO
curved	13cm	ARMA2295



### London College Forceps, serrated tips

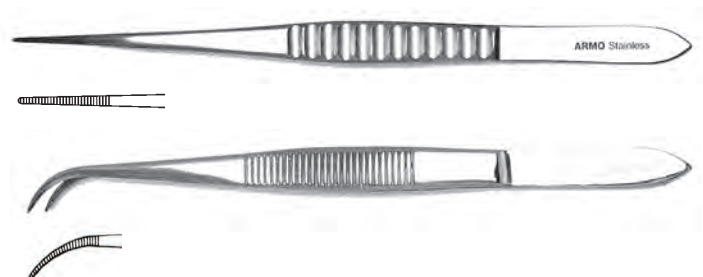
		ARMO
angled with lock	15cm	ARMA2296



## Dissecting Forceps

### Dissecting Forceps, pointed

		ARMO
straight	12.5cm	ARMA2370
curved	13cm	



# 22 FORCEPS

instrument quality level		
<b>HIPP</b>	<b>ARMO</b>	
theatre (Germany)	superior	

## Entomological/Jewellers Forceps

No.3



No.5



No.7



**ARMO**

straight

No.3 super fine point	12.5cm	ARMA2524	
No.5 super fine point	11cm	ARMA2525	

curved

No.7 super fine point	11.5cm	ARMA2527	
-----------------------	--------	----------	--

## Eye Forceps

### Ayer Chalazion Forceps



**ARMO**

9cm	ARMA2189
-----	----------

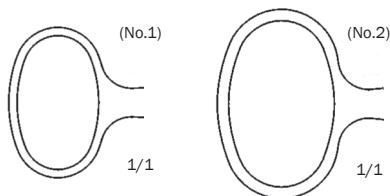
### Lambert Chalazion Forceps



**HIPP ARMO**

9cm	HIP379609	ARMA2190
-----	-----------	----------

### Desmarres Chalazion Forceps



**ARMO**

No.1	9cm	ARMA2516
No.2	9cm	ARMA2517

### Beer Cilia Forceps



**HIPP ARMO**

9cm	HIP341409	ARMA2191
-----	-----------	----------

### Douglas Cilia Forceps



**ARMO**

9cm	ARMA2188
-----	----------



instrument quality level		
HIPP		ARMO
theatre (Germany)		superior

## Eye Forceps (cont'd)

### Cilia Forceps with slant edge

9cm **ARMO**  
ARMA2186



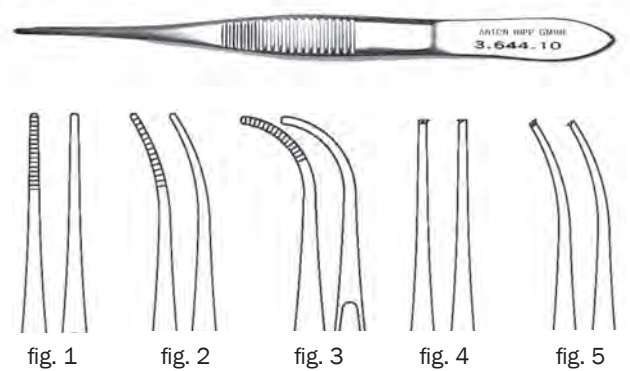
### Barraquer Cilia Forceps

9cm **ARMO**  
ARMA2187



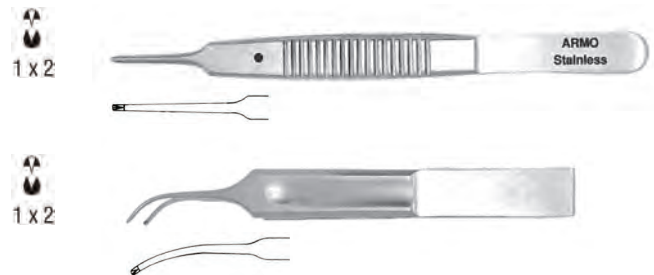
### Graefe Iris Forceps

	tip	length	HIPP	ARMO
<u>straight</u>				
no pin	fig. 1	7cm		ARMA2508
with pin	fig. 1	10cm	HIP364410	ARMA2511
with pin, 1x2 teeth	fig. 4			ARMA2507
<u>half curved</u>				
no pin	fig. 2	7cm		ARMA2509
with pin	fig. 2	10cm		ARMA2512
with pin, 1x2 teeth	fig. 5	10cm		ARMA2505
<u>full curved</u>				
with pin	fig. 3	10cm	HIP365510	ARMA2506



### Lester Forceps, 1x2 teeth

			ARMO
<u>straight</u>			
with pin	9cm	ARMA2510	
<u>curved</u>			
no pin	7cm	ARMA2513	



### Castroviejo Forceps, 1x2 teeth

9cm **ARMO**  
ARMA2514



# 24 FORCEPS

instrument quality level		
<b>HIPP</b>		<b>ARMO</b>
theatre (Germany)		superior

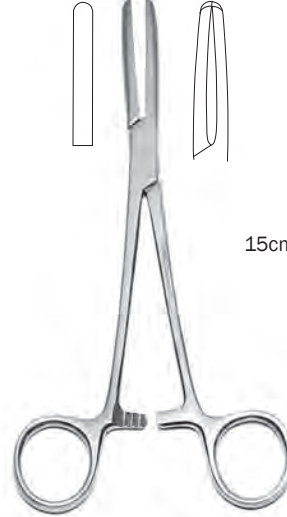
## Intestinal Clamps/Forceps

### Pennington



15cm **ARMO**  
ARMA2535

### Tubing Clamp



15cm **ARMO**  
ARMA2530

## Sponge & Holding Forceps

### Foerster Forceps



**ARMO**  
18cm ARMA2538  
20cm ARMA2542  
25cm ARMA2537

### Ramplcy Forceps



**HIPP** 18cm HIP231818  
**ARMO** ARMA2539  
24cm HIP231825 **ARMO** ARMA2540

### Lister Sinus Forceps



**ARMO**  
13cm ARMA2521  
15cm ARMA2522

instrument quality level		
HIPP		ARMO
theatre (Germany)		superior

## Steriliser Forceps

### Cheatle Forceps

		HIPP	ARMO
light pattern	27cm	HIP233127	ARMA2541



## Uterine Forceps

### Skene



	HIPP	ARMO
24cm	HIP248524	ARMA2701

### Schroeder, tenaculum



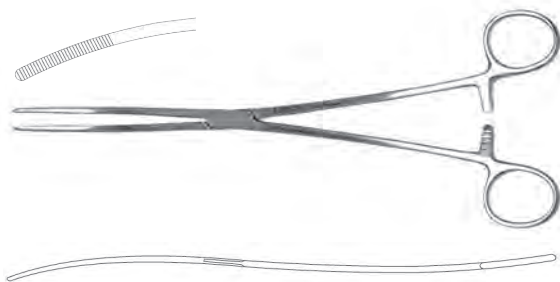
	ARMO
2x2 teeth 25cm	ARMA2702

### Schroeder-Braun, tenaculum



	HIPP	ARMO
25cm	HIP248025	ARMA2700

### Bozeman, dressing



	HIPP	ARMO
serrated, curved 26cm	HIP230126	ARMA2628

### Teale, vulsellum



	ARMO
curved 25cm	ARMA2626

# 26 FORCEPS

## Vasectomy Forceps

### Vasectomy Towel Clamp



3mm tip

14cm

**ARMO**  
ARMA5171

### Vasectomy Forceps



curved

12cm

**ARMO**  
ARMA5172

# ELEVATORS

## Septum Elevator

### Freer, Double ended



blunt/sharp

18cm

**ARMO**  
ARMA3370

instrument quality level			
HIPP		ARMO	
theatre (Germany)		superior	

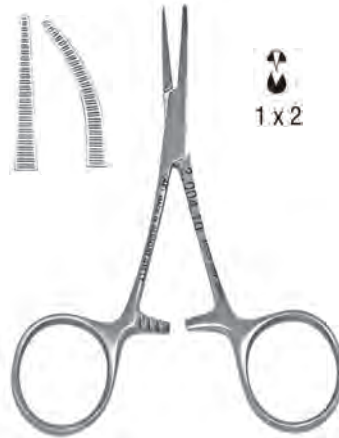
# ARTERY FORCEPS 27

## Diffenbach



**ARMO**  
curved  
3.8cm ARMA2090

## Hartman-Micro



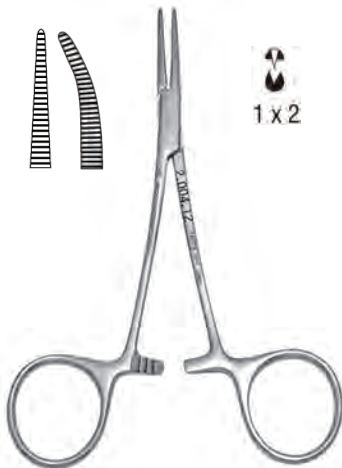
	HIPP	ARMO
straight 10cm	HIP200010	ARMA2196
curved 10cm		ARMA2197
straight (1x2 teeth) 10cm	HIP200410	ARMA2199

## Micro-Mosquito



	ARMO
straight 12cm	ARMA2118
curved 12cm	ARMA2119

## Halsted-Mosquito



	HIPP	ARMO
straight 12cm	HIP200412	ARMA2120
curved 12cm	HIP200512	ARMA2121
straight (1x2 teeth) 12.5cm	HIP200612	ARMA2122
14cm	HIP200614	
curved (1x2 teeth) 12.5cm	HIP200712	ARMA2142
14cm	HIP200714	

## Crile

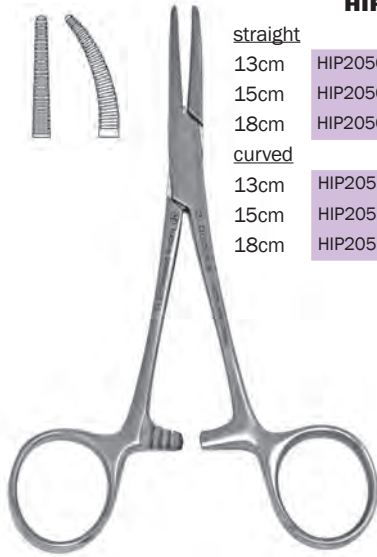


	HIPP	ARMO
straight 14cm	HIP204014	ARMA2110
16cm	HIP204016	ARMA2112
18cm	HIP204018	ARMA2114
curved 14cm	HIP204114	ARMA2111
16cm	HIP204116	ARMA2113
18cm	HIP204118	ARMA2115

# 28 ARTERY FORCEPS

instrument quality level		
<b>HIPP</b>		<b>ARMO</b>
theatre (Germany)		superior

## Spencer-Wells



	HIPP	ARMO
straight		
13cm	HIP205013	ARMA2150
15cm	HIP205015	ARMA2152
18cm	HIP205018	ARMA2154
curved		
13cm	HIP205113	ARMA2151
15cm	HIP205115	ARMA2153
18cm	HIP205118	ARMA2155

## Kelly



	HIPP	ARMO
straight		
14cm	HIP202014	ARMA2123
16cm	HIP202216	ARMA2125
18cm		ARMA2127
curved		
14cm	HIP202114	ARMA2124
16cm	HIP202316	ARMA2126
18cm		ARMA2128

## Mixer



	HIPP
curved	
18cm	HIP212518

## Rochester-Carmalt



	ARMO
straight	
16cm	ARMA2100
curved	
16cm	ARMA2105

## Ferguson (Angiotribe)



	ARMO
straight	
17cm	ARMA2163
20cm	ARMA2164
curved	
17cm	ARMA2165
20cm	ARMA2166

instrument quality level		
HIPP		ARMO
theatre (Germany)		superior

# ARTERY FORCEPS 29

## Rochester-Oschner



**ARMO**  
 straight 1x2 teeth  
 16cm ARMA2133  
 18cm ARMA2135  
 curved 1x2 teeth  
 16cm ARMA2134

## Rochester-Pean



	<b>HIPP</b>	<b>ARMO</b>
straight		
20cm	HIP202820	ARMA2129
22cm	HIP202822	ARMA2131
curved		
20cm	HIP202920	ARMA2130
22cm	HIP202922	ARMA2132

## DeBakey Atraumatic



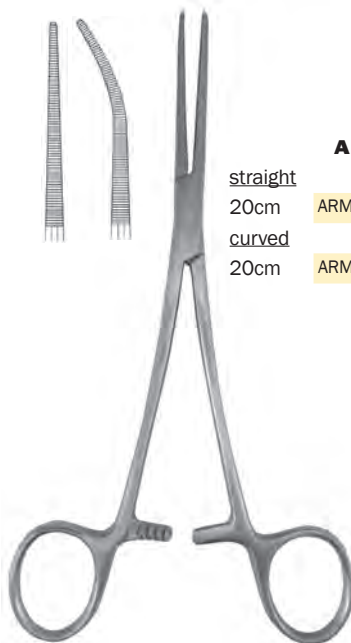
	<b>HIPP</b>
16cm	HIP357616
20cm	HIP357620

## Lahey



**ARMO**  
 curved  
 23cm HIPA2143

## Roberts



**ARMO**  
 straight  
 20cm ARMA2159  
 curved  
 20cm ARMA2160

## Rumel



**ARMO**  
 curved  
 23cm ARMA2146

**instrument quality level**

**ARMO**

superior

# 30 LIGATORS

## McGiveny Ligator Forceps



19cm

**ARMO**

ARMA3605

## Ligator, Haemorrhoidal



ligator with cone

**ARMO**

ARMA1990

## Ligator Set



CODE: ARMA1992

### LIGATOR SET contents

1 x ligator forcep  
1 x ligator  
1 x cone  
100 x ligation bands

ligator set in box

**ARMO**

ARMA1992

## Ligator Bands

Contains:  
Natural Rubber, Zinc Oxide,  
Naphthenic Oil, Paraffin Wax,  
Stearic Acid, Antioxidant,  
Sulphur, Accelerators

HAEMORRHOID  
LIGATOR BANDS  
NON-STERILE  
QTY 100



CODE: ARMA1991

vial of 100 (non-sterile)

**ARMO**

ARMA1991

## Ligator Spare Parts



loading cone  
ligator spring

**ARMO**

ARMA1994

ARMA1993

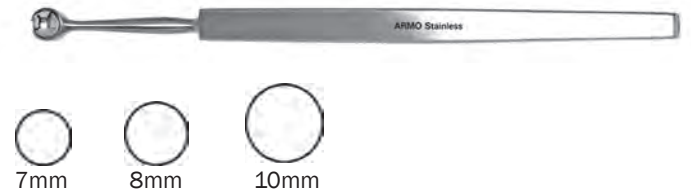


instrument quality level		
HIPP		ARMO
theatre (Germany)		superior

## Bone Curettes

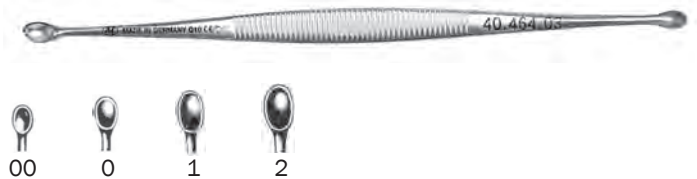
### Bunge

Ø		ARMO
7mm	14.5cm	ARMA6014
8mm	14.5cm	ARMA6015
10mm	14.5cm	ARMA6016



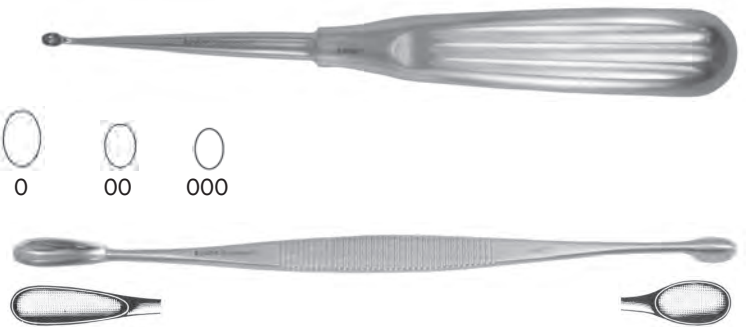
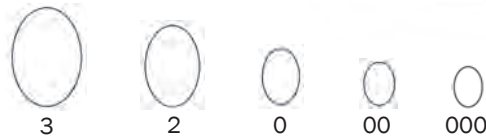
### Williger, double ended

		HIPP		ARMO
00 + 0	14cm	HIP4046401		ARMA6011
0 + 1	14cm	HIP4046402		ARMA6012
1 + 2	14cm	HIP4046403		ARMA6013



### Volkman

	ARMO
000	ARMA6060
00	ARMA6061
0	ARMA6062
2	ARMA6064
3	ARMA6065
double ended 17cm	ARMA6077



### Martini, double ended

		HIPP	ARMO
00 + 0	14cm	HIP4046001	
0 + 1	14cm	HIP4046002	ARMA6089
1 + 2	14cm	HIP4046003	ARMA6090
2 + 3	14cm		ARMA6091



## Dermal Curettes

### Fox

Ø		HIPP	ARMO
3mm	14cm	HIP2441203	HIPA6073
4mm	14cm	HIP2441204	HIPA6074
5mm	14cm	HIP2441205	HIPA6075
6mm	14cm	HIP2441206	HIPA6076



### Piffard

		ARMO
medium #2	14cm	ARMA6044
large #3	14cm	ARMA6045



# 32 CURETTES

## Ear Curettes

### Buck



blunt



straight

Size	Length	Model
00	16.5cm	ARMA6050
0	16.5cm	ARMA6051
1	16.5cm	ARMA6052
2	16.5cm	ARMA6053
3	16.5cm	ARMA6054

**ARMO**



curved

00	16.5cm	ARMA6048
1	16.5cm	ARMA6049

**ARMO**

sharp



straight

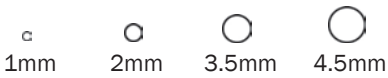
00	16.5cm	ARMA6057
0	16.5cm	ARMA6058
1	16.5cm	ARMA6059

**ARMO**



## Eye Curettes

### Meyhoefer



Ø

Tip Size (Ø)	Length	Model
1mm	13.5cm	ARMA60101
2mm	13.5cm	ARMA60102
3.5mm	13.5cm	ARMA60103
4.5mm	13.5cm	ARMA60104

**ARMO**

## Uterine Curettes

### Sims, blunt



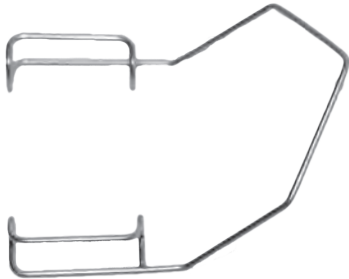
Length	Model
5mm	26cm ARMA6039
6mm	26cm ARMA6040
7mm	26cm ARMA6041
8mm	26cm ARMA6042
12mm	26cm ARMA6046

**ARMO**

<b>instrument quality level</b>
<b>HIPP</b>
theatre (Germany)

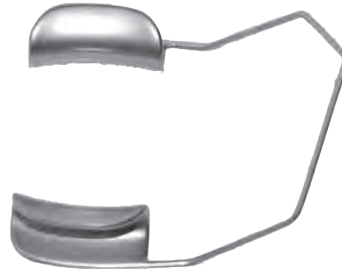
## Eye Specula

### Barraquer Wire



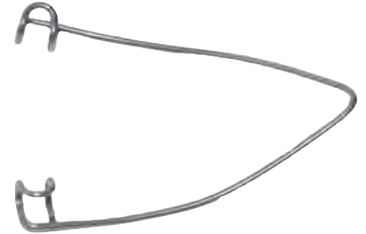
Adult 15mm blades **HIPP**  
HIP1004014

### Barraquer Wire (Solid)



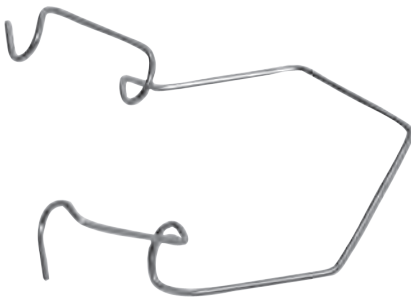
Adult 15mm blades **HIPP**  
HIP1064015

### Wire Specula - Infant



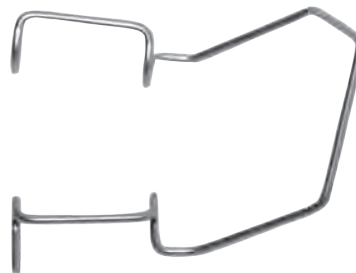
Infant 5mm blades **HIPP**  
HIP1083604

### Kratz-Barraquer Wire



Adult 15mm blades **HIPP**  
HIP1094015

### Kratz-Barraquer Heavy (1mm) Wire



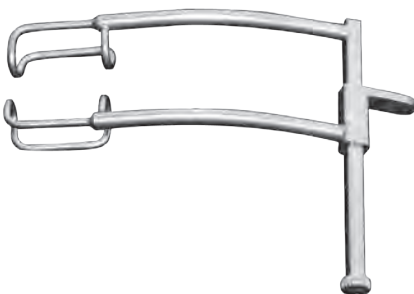
Adult 15mm blades **HIPP**  
HIP1104015

### Alfonso



8 x 5mm blades **HIPP**  
HIP1284608

### Murdoch



Adult, left 15mm blades **HIPP** HIP1385010  
 Adult, right 15mm blades **HIPP** HIP1385001  
 Child, left 10mm blades **HIPP** HIP1384410  
 Child, right 10mm blades **HIPP** HIP1384401

### Sauer



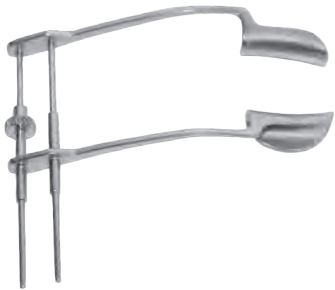
11mm blades **HIPP**  
HIP1623010

# 34 SPECULA

instrument quality level	
<b>HIPP</b>	<b>ARMO</b>
theatre (Germany)	superior

## Eye Specula (cont'd)

### Bangerter



Adult 15mm blades **HIPP**  
HIP1405515

### Cook



Child 11mm blades **HIPP**  
HIP1364011

### Mellinger



Child 10mm **HIPP**  
HIP1345011

### Lester-Burch



Adult 15mm blades **HIPP**  
HIP1658522

### Lieberman V-wire



Adult 15mm blades **HIPP**  
HIP1646215V

### Castroviejo



15mm blades **ARMO**  
ARMA5300

instrument quality level		
HIPP		ARMO
theatre (Germany)		superior

**Vaginal Specula**

**Grave**



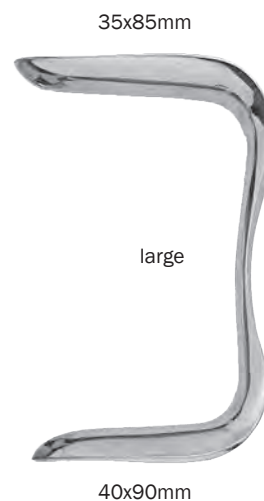
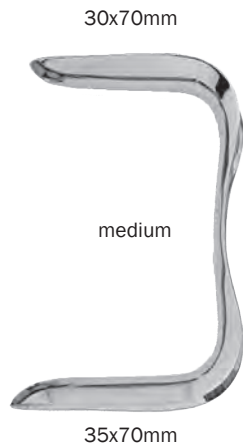
Size	Blade	HIPP	ARMO
small	20x75mm	HIP501001	ARMA5500
medium	35x95mm	HIP501002	ARMA5501
large	35x115mm	HIP501003	ARMA5502

**Pederson**



Size	Blade	HIPP	ARMO
small	13x75mm	HIP501101	ARMA5503
medium	22x100mm	HIP501102	ARMA5504
large	25x120mm	HIP501103	ARMA5505

**Sims**

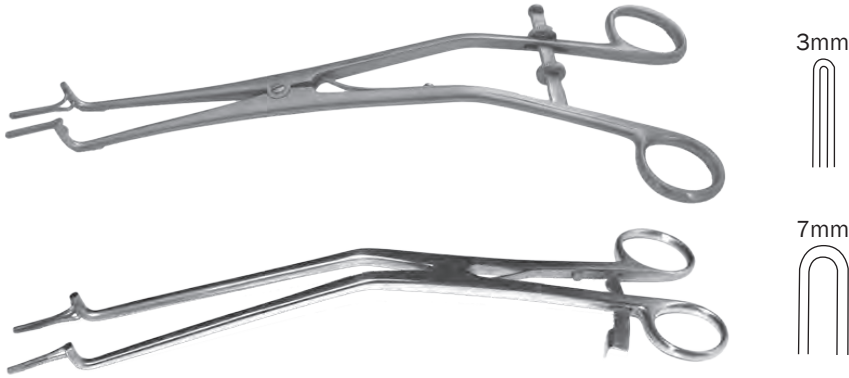


	ARMO
small	ARMA5511
medium	ARMA5512
large	ARMA5513

# 36 SPECULA

## Vaginal Specula (cont'd)

### Kogan Endocervical Speculum



		<b>ARMO</b>
<i>with set screw &amp; gauge</i>		
3mm wide tips	24cm	ARMA5506
<i>with ratchet, no gauge</i>		
3mm wide tips	28cm	ARMA5507
7mm wide tips	28cm	ARMA5508

## Nasal Specula

### Thudichum



Size	Blade	<b>ARMO</b>
No.0	18 x 8mm	ARMA5400
No.1	20 x 10mm	ARMA5401
No.2	22 x 12mm	ARMA5402
No.3	24 x 13mm	ARMA5403
No.4	26 x 13mm	ARMA5404

## Proctoscopes

### Kelly



Size	Dimensions	<b>ARMO</b>
standard	21 x 50mm	ARMA2390
medium	27 x 50mm	ARMA2391
long	22 x 100mm	ARMA2392

instrument quality level	
<b>ARMO</b>	
superior	

## Scalpel Handles

### Handles for blades 10 - 15

	ARMO	
No. 3 (standard grip)	ARMA4950	
No. 3 (with scale in mm)	ARMA4956	
No. 3 (round grip)	ARMA4952	
No. 3 (hexagonal grip)	ARMA4958	
No. 7	ARMA4954	

No. 3 (standard grip)



No. 3 (with scale in mm)



No. 3 (round grip)



No. 3 (hexagonal grip)



No. 7



### Handles for blades 18 - 36

	ARMO	
No. 4 (standard grip)	ARMA4951	
No. 4 (with scale in mm)	ARMA4957	
No. 9 (hollow handle)	ARMA4953	

No. 4 (standard grip)



No. 9 (hollow handle)



## Blades

Solid forged knife  
Safety blade-Box/5



No. 4 (standard grip)



Safety Blade



# 38 PLASTER

instrument quality level		
<b>HIPP</b>		<b>ARMO</b>
theatre (Germany)		superior

## Wolff Cast Breaker



**HIPP**

**ARMO**

18cm HIP650718

24cm HIP650724

HIPA6000

## Bruns Plaster Scissors Smooth Jaw



**HIPP**

**ARMO**

24cm HIP155923

ARMA6005

## Bruns Plaster Scissors Serrated Jaw



**HIPP**

**ARMO**

24cm HIP155723

ARMA6006

## Esmarch Plaster Scissors



**ARMO**

20cm ARMA6007

## Stille Cutting Shears



**ARMO**

23cm ARMA6003

37cm ARMA6004

## Beeson Spreader



**ARMO**

30cm ARMA6002



instrument quality level		
HIPP		ARMO
theatre (Germany)		superior

## Hennig Spreader



**ARMO**  
27cm ARMA6001

## USA Model Spreader



**ARMO**  
23cm ARMA5998

## Haglund-Stille Spreader



**ARMO**  
28cm ARMA5999

# HOOKS, RETRACTORS

## Weitlaner



**ARMO**

2 x 3 teeth, blunt	10.5cm	ARMA4158
2 x 3 teeth, sharp	10.5cm	ARMA4159
3 x 4 teeth, blunt	14cm	ARMA4156
3 x 4 teeth, sharp	14cm	ARMA4157

## Gelpi



**HIPP**      **ARMO**  
1 x 1 teeth, sharp  
11cm HIP624811      ARMA3353

## Parsonnet Epicardial



**HIPP**

Mini	HIP3152506
Small	HIP3153206
Medium	HIP3153807
Large	HIP3155011

# 40 HOOKS, RETRACTORS

instrument quality level		
<b>HIPP</b>		<b>ARMO</b>
theatre (Germany)		superior

## Spey Hook (Snook Ovaryectomy)



7cm shank  
11cm shank

### ARMO

ARMA3000

ARMA3001

## Hartman Cerumen Hook



16cm

### ARMO

ARMA2999

## Delicate



### Sharp

2 prong

16cm

ARMA3359

3 prong

16cm

ARMA3360

### Blunt

2 prong

16cm

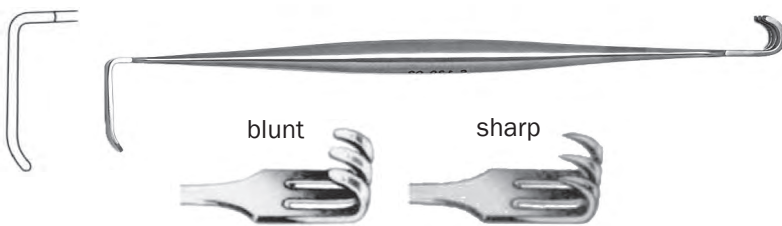
ARMA3361

3 prong

16cm

ARMA3362

## Senn-Miller



blunt  
sharp

16cm  
16cm

### HIPP

HIP613902

HIP613903

### ARMO

ARMA3355

ARMA3352

## Ragnell-Davis



15cm

### ARMO

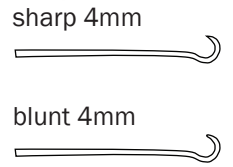
ARMA3354

instrument quality level		
HIPP		ARMO
theatre (Germany)		superior

# HOOKS, RETRACTORS 41

## Gillies Skin Hook

		HIPP	ARMO
Sharp, 4mm Hook	18cm	HIP615202	ARMA3358
Blunt, 4mm Hook	18cm	HIP615201	ARMA3356



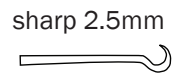
## Joseph

		ARMO
2mm	16cm	ARMA3351
5mm	16cm	ARMA3350



## Kilner

		HIPP	ARMO
Sharp, 2.5mm Hook	16cm	HIP615016	ARMA3357



## Tracheal Hook

		ARMO
1 prong, blunt	16cm	ARMA3364



## Roux Retractor

	ARMO
14cm	ARMA3376
15cm	ARMA3377
16cm	ARMA3378



instrument quality level	
<b>ARMO</b>	
superior	

## Nail Nippers

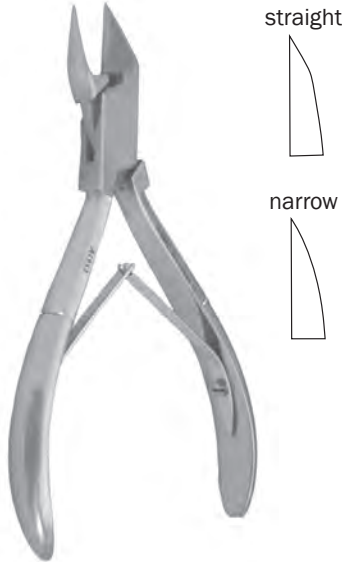
### Single leaf spring



10.5cm



### Double leaf spring



straight 13cm  
narrow 16cm

**ARMO**

ARMA1953  
ARMA1954

### Double leaf spring with lock



curved

14cm  
16cm

**ARMO**

ARMA1955  
ARMA1956

### Double leaf spring with lock



**ARMO**  
14cm ARMA1957

### Turnbull - Spring action with lock



**ARMO**  
pliers 13cm ARMA1958  
spare spring ARMA1951

### Compound action with lock



**ARMO**  
pliers 16cm ARMA1950  
spare spring ARMA1951

instrument quality level	
<b>HIPP</b>	<b>ARMO</b>
theatre (Germany)	superior

## Cuticle Cutter



**ARMO**  
10.5cm ARMA1952

## Nail Splitter



**HIPP**  
15cm HIP142215

## Rasps

### Two Sided Rasp, Single End

20mm wide 22cm **ARMO**  
ARMA2804



### Four Sided Rasp, Double End

8mm 21cm **ARMO**  
ARMA2805



## Blacks Files

- ARMO**
- straight
    - narrow head, fine cut ARMA2800
    - narrow head, medium cut ARMA2801
  - angled
    - narrow head, fine cut ARMA2802
    - narrow head, medium cut ARMA2803



# 44 SUCTION & IRRIGATION

<b>instrument quality level</b>
<b>ARMO</b>
superior

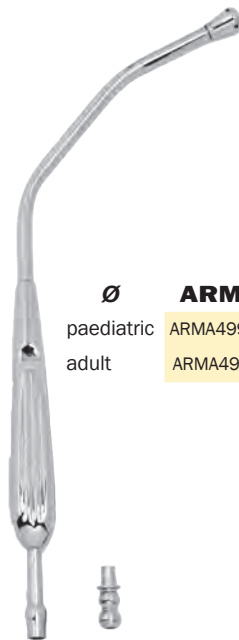
## Suction Tips

### Poole



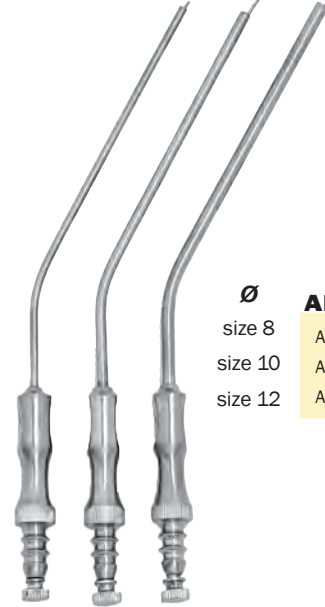
∅ **ARMO**  
10mm ARMA4999

### Yankauer



∅ **ARMO**  
paediatric ARMA4990  
adult ARMA4991

### Frazier



∅ **ARMO**  
size 8 ARMA5000  
size 10 ARMA5001  
size 12 ARMA5002

## Ear Syringe

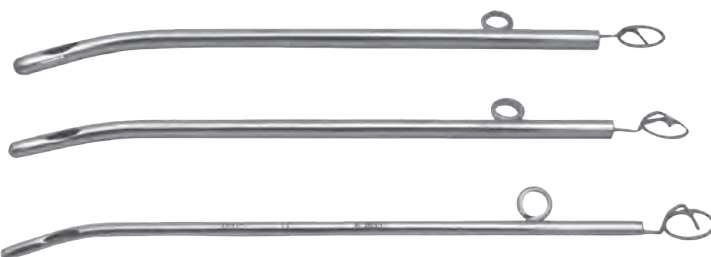


**ARMO**  
syringe, two nozzles & shield 100ml ARMA2010  
syringe, two nozzles & shield 150ml ARMA2011



**Spares**  
'O' ring for nozzle ARMA2015  
'O' ring for plunger ARMA2012  
nozzle set ARMA2013  
shield ARMA2014

## Metal Catheter



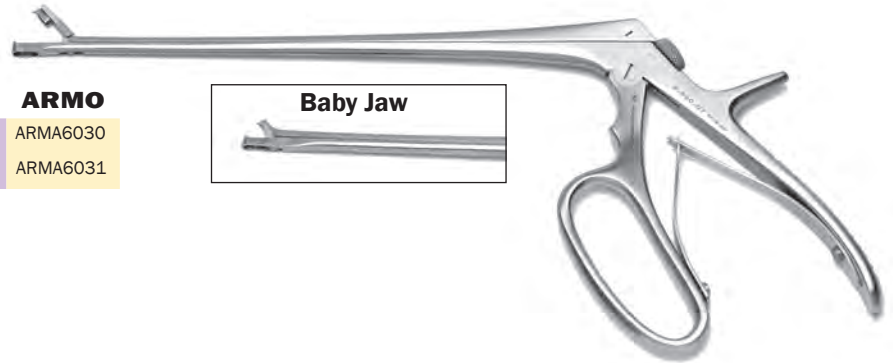
**ARMO**  
14 french gauge ARMA3857  
12 french gauge ARMA3856  
10 french gauge ARMA3855

instrument quality level	
HIPP	ARMO
theatre (Germany)	superior

## Biopsy Forceps

### Tischler

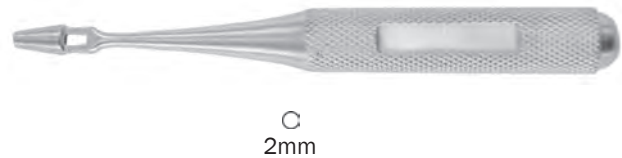
		HIPP	ARMO
Standard (7 x 3mm jaw)	25cm shaft	HIP255007	ARMA6030
"Baby" (4.2 x 2.3mm jaw)	21cm shaft	HIP255004	ARMA6031



## Biopsy Punches

### Keyes

Ø		ARMO
2mm	10.5cm	ARMA6034



# RING CUTTERS

## Standard

	ARMO
ring cutter 16cm	ARMA5550
spare blade	ARMA5560



*Note:*  
- for use on soft metals only

## Walton

	ARMO
Walton ring cutter	ARMA5555
spare blade	ARMA5556



*Note:*  
- for use on soft metals only

# 46 DILATORS

## Hegar

### Single ended



	<b>ARMO</b>
3mm	ARMA1883
4mm	ARMA1884
5mm	ARMA1885
6mm	ARMA1886
7mm	ARMA1887
8mm	ARMA1888
9mm	ARMA1889
10mm	ARMA1890
11mm	ARMA1891
12mm	ARMA1892
13mm	ARMA1893
14mm	ARMA1894
Set of 12	ARMA1882

### Double ended



	<b>ARMO</b>
1 / 2mm	ARMA1901
3 / 4mm	ARMA1903
5 / 6mm	ARMA1905
7 / 8mm	ARMA1907
9 / 10mm	ARMA1909
11 / 12mm	ARMA1911
13 / 14mm	ARMA1913
15 / 16mm	ARMA1915
17 / 18mm	ARMA1917
19 / 20mm	ARMA1919
21 / 22mm	ARMA1921
23 / 24mm	ARMA1923
25 / 26mm	ARMA1925

## Hawkin-Ambler

### Single ended



	<b>ARMO</b>
3 - 6mm	ARMA1005
4 - 7mm	ARMA1006
5 - 8mm	ARMA1007
6 - 9mm	ARMA1008

	<b>ARMO</b>
7 - 10mm	ARMA1009
8 - 11mm	ARMA1010
9 - 12mm	ARMA1011
10 - 13mm	ARMA1012

	<b>ARMO</b>
11 - 14mm	ARMA1013
12 - 15mm	ARMA1014
13 - 16mm	ARMA1015
14 - 17mm	ARMA1016

	<b>ARMO</b>
15 - 18mm	ARMA1017
16 - 19mm	ARMA1018
17 - 20mm	ARMA1019
18 - 21mm	ARMA1020



**Trousseau**

14cm **ARMO**  
ARMA1023



**TOWEL CLIPS**

**Backhaus Standard**



**ARMO**  
9cm ARMA5150  
11cm ARMA5154  
14cm ARMA5152

**Cross Action**



**ARMO**  
8cm ARMA5161

**Lorna**



**ARMO**  
14cm ARMA5170

# 48 PROBES

instrument quality level	
<b>ARMO</b>	
superior	

## Splinter Probes



**Disposable, Double Ended**

with caps 11cm



## Eye Probes



**Disposable Eye Probe with Rubber Tips**

with caps 11cm



**Foreign Body Needle & Spud**

no caps

ARMA6020

**Foreign Body Needle & Gouge**



with caps

15cm

**ARMO**  
ARMA6021



**Foreign Body Spud & Gouge**

with caps 13.5cm

**ARMO**  
ARMA6022

**Eye Magnet & Foreign Body Loop**



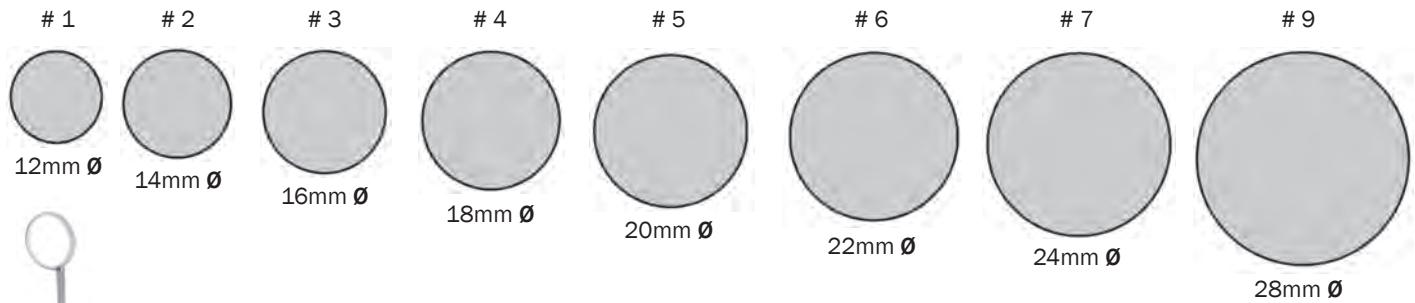
reversible screw handle 11.5cm

**ARMO**  
ARMA6023



# 50 PROBES

## Laryngeal Mirrors



### Mirror with fixed handle



### Mirror without handle

### Handle for laryngeal mirrors

Size	Ø	ARMO
# 2	14mm	ARMA2275
# 3	16mm	ARMA2276
# 4	18mm	ARMA2277
# 5	20mm	ARMA2278
# 6	22mm	ARMA2279
# 7	24mm	ARMA2280

Size	Ø	ARMO
# 1	12mm	ARMA2261
# 3	16mm	ARMA2263
# 5	20mm	ARMA2265
# 6	22mm	ARMA2266
# 7	24mm	ARMA2267
# 9	28mm	ARMA2269
# 10	30mm	ARMA2270

10cm	<b>ARMO</b> ARMA2260
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## Extractors

### Schamberg



10cm	<b>ARMO</b> ARMA6027
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### Unna



teardrop ends	14cm	<b>ARMO</b> ARMA6024
round ends	14cm	<b>ARMO</b> ARMA6025

**Sounds, Uterine**

**Sims**



**ARMO**

Malleable - Silver plated brass	32cm	ARMA3819
Rigid - Solid stainless steel	32cm	ARMA3820

**RONGEURS**

**Liston Bone Cutting Forceps**

**Single action**



straight



**ARMO**

14cm	ARMA9947
17cm	ARMA9950

**Compound action**



angled



**ARMO**

27cm	ARMA9966
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# 52 HOLLOWWARE (STAINLESS)

## Kidney Dishes



	<b>ARMO</b>
15cm	ARMA7408
20cm	ARMA7409
25cm	ARMA7410
30cm	ARMA7411

## Bowls



Ø	Depth	<b>ARMO</b>
60mm	30mm	ARMA7011
80mm	40mm	ARMA7012
100mm	50mm	ARMA7013
120mm	60mm	ARMA7014
140mm	60mm	ARMA7015
180mm	85mm	ARMA7016
320mm	85mm	ARMA7017

## Jars

Jar Type	Ø	Depth	<b>ARMO</b>
Dressing with lid	100mm	100mm	ARMA7003
Dressing with lid	150mm	150mm	ARMA7004
Forceps	50mm	125mm	ARMA7001
Forceps	50mm	200mm	ARMA7002



## Measuring Jugs

		<b>ARMO</b>
Graduated	500ml	ARMA7031
Graduated	1000ml	ARMA7032
Graduated	2000ml	ARMA7033



**Trays**

Tray Type		<b>ARMO</b>
Instrument, with lid	200 x 150 x 40mm	ARMA7021
Instrument, with lid	300 x 200 x 50mm	ARMA7023
Catheter, with lid	300 x 80 x 40mm	ARMA7022
Catheter, with lid	400 x 100 x 40mm	ARMA7024



**HOLLOWWARE (POLYPROPYLENE)**

**Kidney Dishes (HEAVY DUTY)**

- **Autoclavable.**
- Heavy duty polypropylene for repeated use.
- Permanent graduated measurement markings.
- **Australian made.**

Colour	Capacity	Approx Size (mm)	Sales Unit	Product Code
Green	700ml	230 x 120 x 45	Each	
Yellow	700ml	230 x 120 x 45	Each	
Green	1000ml	320 x 150 x 50	Each	



**Kidney Dishes (Standard)**

- Washable.
- Single patient use.
- Permanent graduated measurement markings.
- **Australian made.**

Colour	Capacity	Approx Size (mm)	Sales Unit	Product Code
Green	700ml	230 x 120 x 45	Pack of 25	
Yellow	700ml	230 x 120 x 45	Pack of 25	



# 54 HOLLOWWARE (POLYPROPYLENE)

## Instrument Trays (HEAVY DUTY)



- **Autoclavable.**
- Heavy duty polypropylene for repeated use.
- **Australian made.**

Colour	Type	Approx Size (mm)	Sales Unit	Product Code
Green	Solid	220 x 140 x 20	Each	
Green	Solid	245 x 195 x 40	Each	
Green	Perforated	180 x 150 x 30	Each	
Green	Perforated	270 x 150 x 30	Each	

## Instrument Trays (Standard)



- Washable.
- Single patient use.
- **Australian made.**

Colour	Capacity	Approx Size (mm)	Sales Unit	Product Code
Green	500ml	500 x 70 x 30	Each	
Green	200ml	200 x 70 x 30	Each	
Yellow	200ml	200 x 70 x 30	Each	

## Bowls (HEAVY DUTY)



- **Autoclavable.**
- Heavy duty polypropylene for repeated use.
- Permanent graduated measurement markings.
- **Australian made.**

Colour	Capacity	Approx Size (mm)	Sales Unit	Product Code
Green	150ml	100 x 50	Each	
Green	500ml	140 x 70	Each	
Green	1000ml	185 x 90	Each	
Green	1500ml	205 x 80	Each	
Green	2500ml	240 x 110	Each	
Green	3500ml	305 x 90	Each	
Green	6000ml	345 x 120	Each	



## Bowls (Standard)

- Washable.
- Single patient use.
- Permanent graduated measurement markings.
- **Australian made.**

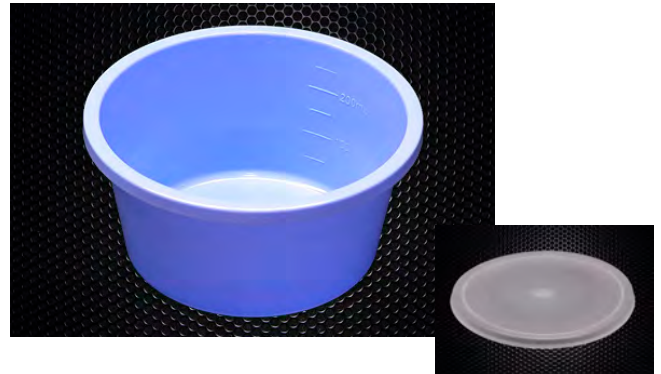
Colour	Capacity	Approx Size (mm)	Sales Unit	Product Code
Green	250ml	95 x 50	Pack of 25	
Green	500ml	115 x 60	Pack of 25	
Green	1000ml	145 x 80	Pack of 30	
Green	2000ml	195 x 90	Pack of 25	



## Denture Cup & Lid

- Washable.
- Single patient use.
- Permanent graduated measurement markings.
- **Australian made.**

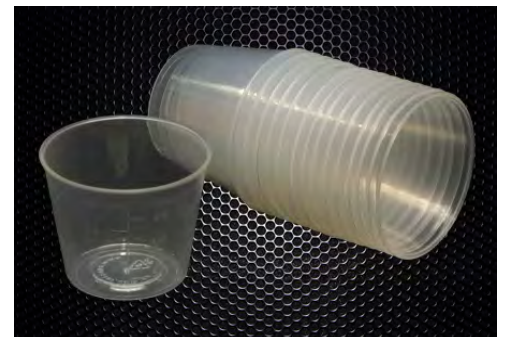
Colour	Capacity	Approx Size (mm)	Sales Unit	Product Code
Blue	250ml	95 x 50	Pack of 25	
Clear Lid	n/a	95 diam	Pack of 25	



## Medicine Measures

- Washable.
- Single patient use.
- Permanent graduated measurement markings.
- **Australian made.**

Description	Colour	Capacity	Sales Unit	Product Code
Measure graduated 2.5ml - 30ml	Clear	30ml	Pack of 100	
Measure graduated 5ml - 60ml	Clear	60ml	Pack of 25	
Lid to suit 30ml & 60ml measures	Clear	n/a	Pack of 100	



# 56 STERILISATION CONTAINERS

## MiniSet Sterilisation Containers



Small dimension sterile containers that are ideally suited to deal with the ever increasing demands of surgery in the modern practice. Just perfect for all those who need their surgical instruments clearly organized in small tray based sets.

A great way to protect and extend useful the life of valuable instruments, including delicate micro-instruments.

Also an ideal space-saving storage solution.

We guarantee that our sterile container system will improve your practice's instrument sterilisation processes.

### Three Sizes - One System

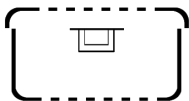
- Simple easy to use design MiniSet containers are available in three different heights.
- The container widths are matched to each other, the lids have raised non-skid resting buttons thus enabling optimal space utilisation both inside the steriliser and during storage.

Size	Product Code
300 x 140 x 40mm	
300 x 140 x 70mm	
300 x 140 x 100mm	

### Lightweight

- Corrosion-proof aluminium - The container box is made of a high quality aluminum alloy with an anodized surface.
- The extremely low weight of the aluminum makes each container significantly lighter than stainless steel.
- Physical properties such as a high heat storage capacity and good thermal conductivity guarantee the best drying results.

### Steam Penetrable - Bacterial Barrier



- Perforated lid and bottom configuration to allow excellent steam penetration and flow.
- Bacteria filter inserts allow steam to enter and leave freely but excludes bacteria.
- Bacteria filter choice of either heavy duty re-usable textile or disposable paper with sterilisation indicator.

### Identification

- Label insert slots on both sides of container for easy set identification.
- Optional sterility indicator labelling safety system that makes sterility verification prior to the surgery. Lets you verify from outside whether container contents have been properly sterilised.

### Cliplock Lid

- Safety feature that keeps lid securely closed during sterilisation and storage.
- Assists in maintaining the sterility of container contents during transport and storage.
- Tamper evident.

## MiniSet Sterilisation Containers

### Accessories

Description	Product Code
Silicone Mat	
Bacteria Filter - paper	
Bacteria Filter - fabric	
Label Insert with Sterility Indicator	
Label Dispenser	

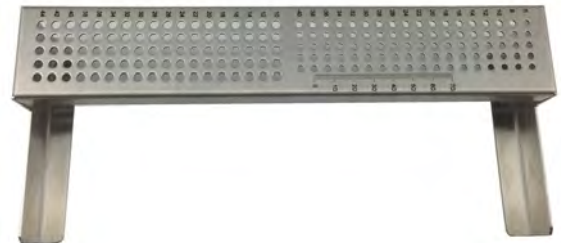


Silicone Mat

- 270 x 125mm size fits snugly into MiniSet containers.
- Protects valuable instruments during the autoclaving process.
- Organizes and separates instruments inside the container.

## Veterinary Orthopaedic Screw Rack

- Screw rack inserts snugly into our 100mm deep MiniSet Container.
- Fits both 2.7mm and 3.5mm screws.
- Made in Australia from 316L grade stainless steel.



Size	Product Code
265 x 50 x 50mm (base 120mm)	

# 58 INSTRUMENT KITS

instrument quality level		
<b>HIPP</b>		<b>ARMO</b>
theatre (Germany)		superior

## Veterinary Instrument Kits

Veterinary Kits have been developed through the guidance of Veterinary professionals and wholesalers. Purchasing instruments in the form of pre-assembled kits helps to take out some of the guesswork involved in the instrument selection process. These kits are designed for convenience and are available at a significant saving versus purchasing instruments on an individual basis.

These kits are available in up to three different grades.

We also recognise that it is still preferable to purchase some instruments based on personal preference and that is the reason why we have omitted needle holders from being included in any of our kits, with the exception of our ophthalmic kits.

## Spey Kits

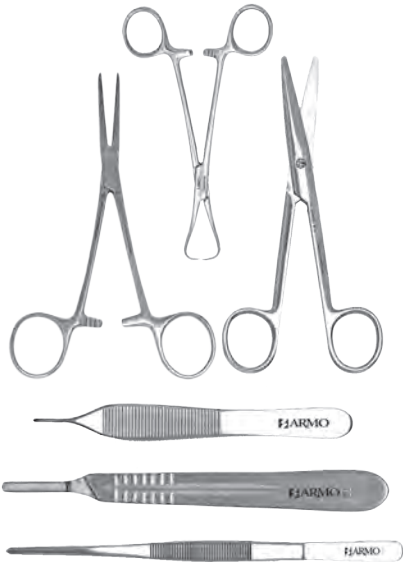


Description	Size	CANINE						FELINE						
		A9010-G1		A9010-G2		A9010-G3		A9013-G1		A9013-G2		A9013-G3		
		Qty	Item #	Qty	Item #	Qty	Item #	Qty	Item #	Qty	Item #	Qty	Item #	
<b>Spey Hook</b>														
• 7cm shank	7cm													
• 11cm shank	11cm	1	ARMA3001	1	ARMA3001	1	ARMA3001	1	ARMA3000	1	ARMA3000	1	ARMA3000	
<b>Scalpel Handle</b>														
• No.3	#3													
• No.4	#4	1	ARMA4951	1	ARMA4951	1	ARMA4951	1	ARMA4950	1	ARMA4950	1	ARMA4950	
<b>Artery Forceps</b>														
• Halsted-Mosquito, curved	12.5cm	4	ARMA2121	4	ARMA2121	4	ARMA2121	4	ARMA2121	4	ARMA2121	4	ARMA2121	
• Crile, curved	14cm	2	ARMA2111	2	ARMA2111	2	ARMA2111	2	ARMA2111	2	ARMA2111	2	ARMA2111	
• Crile, straight	14cm	2	ARMA2110	2	ARMA2110	2	ARMA2110	2	ARMA2110	2	ARMA2110	2	ARMA2110	
• Rochester-Carmalt, straight	16cm	2	ARMA2100	2	ARMA2100	2	ARMA2100	2	ARMA2100	2	ARMA2100	2	ARMA2100	
<b>Dressing Forceps</b>														
• Adson, standard point	12cm	1		1		1	ARMA2401	1		1		1	ARMA2401	
<b>Tissue Forceps</b>														
• Adson-Brown	12cm	1				1	ARMA2554	1				1	ARMA2554	
• Allis, 4x5 teeth	15cm	2	ARMA2605	2	ARMA2605	2	ARMA2605	2	ARMA2605	2	ARMA2605	2	ARMA2605	
<b>Scissors</b>														
• Mayo, straight	14.5cm	1	HIP103015	1		1	ARMA3202	1	HIP103015	1		1	ARMA3202	
• Metzenbaum, curved	14cm			1						1				
• Metzenbaum, curved	16cm	1	HIP107115			1	ARMA3256	1	HIP107115			1	ARMA3256	
<b>Towel Clips</b>														
• Backhaus	9cm	4	ARMA5150	4	ARMA5150	4	ARMA5150	4	ARMA5150	4	ARMA5150	4	ARMA5150	

instrument quality level		
HIPP		ARMO
theatre (Germany)		superior

## Veterinary Instrument Kits

### Suturing Kits



Description	Size	SUTURING			
		A9016-G2		A9016-G3	
		GRADE II		GRADE III	
		Qty	Item #	Qty	Item #
<b>Scalpel Handle</b> • No.4	#4	1	ARMA4951	1	ARMA4951
<b>Artery Forceps</b> • Crile, curved	14cm	2	ARMA2111	2	ARMA2111
<b>Dressing Forceps</b> • Adson, standard point	12cm	1		1	ARMA2401
<b>Tissue Forceps</b> • Tissue, 1x2 teeth • Adson, 1x2 teeth	14cm 12cm	1	ARMA2616	1	ARMA2616
<b>Scissors</b> • Mayo, straight	14.5cm	1		1	ARMA3202
<b>Towel Clips</b> • Backhaus • Cross-action	9cm 9cm	4	ARMA5150	4	ARMA5150

### General Soft Tissue Kits



Description	Size	SOFT TISSUE KIT					
		A9018-G1		A9018-G2		A9018-G3	
		GRADE I		GRADE II		GRADE III	
		Qty	Item #	Qty	Item #	Qty	Item #
<b>Scalpel Handle</b> • No.4	#4	1	ARMA4951	1	ARMA4951	1	ARMA4951
<b>Artery Forceps</b> • Halsted-Mosquito, curved • Halsted-Mosquito, straight • Crile, curved • Crile, straight • Rochester-Carmalt, curved • Rochester-Carmalt, straight	12.5cm 12.5cm 14cm 14cm 16cm 16cm	2 2 2 2 2 2	ARMA2121 ARMA2120 ARMA2111 ARMA2110 ARMA2105 ARMA2100	2 2 2 2 2 2	ARMA2121 ARMA2120 ARMA2111 ARMA2110 ARMA2105 ARMA2100	2 2 2 2 2 2	ARMA2121 ARMA2120 ARMA2111 ARMA2110 ARMA2105 ARMA2100
<b>Dressing Forceps</b> • Adson, standard point	12cm	1		1		1	ARMA2401
<b>Tissue Forceps</b> • Adson, 1x2 teeth • Adson-Brown • Allis, 4x5 teeth	12cm 12cm 15cm	1 1 4	  ARMA2605	1 1 4	  ARMA2605	1 1 4	ARMA2600 ARMA2554 ARMA2605
<b>Scissors</b> • Mayo, straight • Metzenbaum, curved • Metzenbaum, curved • Spencer, suture/ligature	14.5cm 14cm 15.5cm 9cm	1 1 1 1	HIP103015 HIP107115 A3400	1 1 1	  ARMA3400	1 1 1	ARMA3202 ARMA3256 ARMA3400
<b>Retractors</b> • Senn-Miller	16cm	2	A3555	2	ARMA3555	2	ARMA3555
<b>Towel Clips</b> • Backhaus • Cross-action	9cm 9cm	4	A5150	4	ARMA5150	4	ARMA5150

# 60 INSTRUMENT KITS

instrument quality level		
<b>HIPP</b>		<b>ARMO</b>
theatre (Germany)		superior

## Veterinary Instrument Kits

### Ophthalmic Kits



Lieberman V-wire speculum for Ophthalmic Kit Grades I & II



Barraquer wire speculum for Ophthalmic Kit Grade III



		OPHTHALMIC					
		A9021-G1		A9021-G2		A9021-G3	
		GRADE I		GRADE II		GRADE III	
Description	Size	Qty	Item #	Qty	Item #	Qty	Item #
<b>Needle Holders</b>							
• Castraviejo straight - smooth jaw & no lock	13cm	1	ARMA4260	1	ARMA4260	1	ARMA4260
<b>Eye Specula</b>							
• Liebermann V-wire (15mm blades)		1	HIPVS1646215	1	HIPVS1646215		
• Barraquer (15mm blades)						1	HIPVS1004014
<b>Scalpel Handle</b>							
• No.7	#7	1	ARMA4954	1	ARMA4954	1	ARMA4954
<b>Chalazion Forceps</b>							
• Desmarres	#2	1	ARMA2517	2	ARMA2517	2	ARMA2517
<b>Dressing Forceps</b>							
• Adson, standard point	12cm	1		1		1	ARMA2401
<b>Tissue Forceps</b>							
• Adson Micro, 1x2 teeth	12cm	1	HIP315812	1		1	ARMA2559
<b>Scissors</b>							
• Iris, straight	11cm	2	HIP130411	2		2	ARMA3152
• Strabismus, straight	11cm	1	HIP125011	1		1	ARMA3157

## Educational/Dissection Kits

We offer a complete range of instruments for dissecting/educational kits for students attending all types of learning institutions, including Universities, TAFE and Schools. We assemble kits according to your specification.



All kits are supplied in high quality, durable zipped wallets. Wallets are available in four colours, Black, Green, Navy, and Red. Screenprinting of your logo and name, etc can be arranged (minimum order quantity applies). Completed sets are supplied in tamper-proof heat sealed plastic bags. Bar-coding of wallets can also be arranged.

We can fulfill the kit requirements for all types of scientific courses that contain a dissection component in the syllabus, including:

- Agriculture
- Anatomy
- Animal Husbandry
- Biology
- Dentistry
- Environmental Studies
- Histology
- Medicine
- Nursing
- Psychology
- Veterinary



Choose from any of the instruments listed in this catalogue to be included in your customised kit. Additionally, we can also supply the following educational items for inclusion in your kit:

- Microscope Slides and Cover Slips
- Magnifying Glasses
- Brushes
- Penlight and Examination Torches



For further information and quotation please call us on (08) 9273 3022

# 62 INSTRUMENT CARE

## Introduction

These instructions are intended as general guidance for cleaning and sterilisation of reusable surgical instruments. It is important to recognise that equipment, operators, cleaning agents and procedures all have a contribution to the efficacy of instrument processing.

In general there are two methods for cleaning instruments : a “Manual” method and an “Automated” method. Whenever possible Automated method should be utilised. Automated cleaning process using an Automated Washer-Disinfector is more reproducible, therefore more reliable, and staff are less exposed to the contaminated instruments and the cleaning agents used. Always ensure that staff handling instruments and cleaning agents **wear suitable protective apparel**. In particular, take note of the instructions provided by the cleaning agent manufacturer for correct handling and use of the product.

### TUNGSTEN CARBIDE INSTRUMENTS:

Instruments that contain tungsten carbide (TC) can be easily identified by their distinctive gold coloured handles. DO NOT clean TC instruments in ultrasonic cleaners the vibrations will damage the weld between the TC and the stainless steel. DO NOT use solutions that contain benzyl ammonium chloride (BAC) to clean/disinfect TC instruments. The BAC will soften and destroy the TC inserts.

Only use pH neutral cleaners and lubricants on TC instruments. High pH will break down the carbide and the instrument will deteriorate prematurely. Low pH will begin to break down the weld material that adheres the TC to the stainless steel and the TC will lose hardness.

### SINGLE USE INSTRUMENTS:

Instruments labelled “Single-Use” must not be reprocessed as they are not designed to perform as intended after the first usage.

## 1. Holding/Pre-soak

Never allow blood, tissue and debris to dry onto instrument surfaces. If rinsing and decontamination processes are not immediately available, pre-treat instruments or hold them in a neutral pH pre-soak enzymatic solution after patient use but prior to actual cleaning. **We recommend our PreFoam (AMJ90TP) foaming spray for pre-soaking soiled instruments and scopes. Also our PreGel (AMJ91A) concentrated pre-clean gel is ideal for this purpose.**

As soon as possible, rinse, disinfect, and clean instruments as follows:

## 2. Rinse

Immediately after surgery, remove organic materials by rinsing instruments under warm (not hot) running water. This rinse should remove most debris. DO NOT process dissimilar metals (stainless, copper, chrome plated) together.

## 3. Disinfect

Immerse instruments in an appropriate disinfectant for 10-20 minutes. Always closely follow manufacturers’ recommended disinfecting time and solution preparation instructions. Then rinse again.

**CAUTION:** Disinfected instruments are NOT STERILE.

Never expose stainless steel instruments to bleach or other corrosive chemicals. Exposure to bleach may result in instrument surfaces pitting and void all manufacturer warranties.

## 4. Cleaning

All blood, body fluids and tissue must be completely removed from an instrument prior to sterilisation.

Irrespective of the cleaning method used always observe the following:

- a) Use **ONLY** neutral pH (7) cleaners and detergents.
- b) **ALWAYS** use distilled (demineralised) water.
- d) Dissimilar metal instruments **MUST BE** separated.
- e) f) **DO NOT** let “sharps” (scissors, knives, etc) touch each other during the cleaning process.
- g) All instruments with hinges, box locks, ratchets, etc **MUST BE** processed in an open position.

### i/ Soak:

- Soaking instruments in an enzymatic cleaner bath is an effective way of removing organic material.
- Make sure to follow the cleaning agent manufacturers’ instructions carefully. **We recommend our Viruzyme III for this purpose, using a typical dosage of 3-5ml/L, and soak for 10 minutes.**
- Ensure that all spaces and recesses are completely filled with cleaning solution and no air pockets exist.
- Maintain a solution temperature of 20° to 40° C during the soaking process.
- Rinse instruments under running water to remove solution.
- Change solution frequently.

### ii/ Ultrasonic Soaking & Cleaning:

- This is widely recognised as being the most effective method of cleaning instruments. However, extreme care must be taken when using this method to prevent damage being caused to instruments. CHECK that your selected cleaner can be safely used with your ultrasonic cleaner.
- Process instruments as per the manufacturers’ recommended cleaning cycle - **NEVER LONGER.**
- **We recommend our Viruzyme III for this purpose, using a typical dosage of 3-5ml/L, and soak for 3 minutes.**
- Upon completion of the cycle, remove instruments **IMMEDIATELY** and rinse.



## 4. Cleaning (cont'd)

### iii/ *Automatic Washer Sterilisers:*

- Follow manufacturers' recommendations but ensure instruments are lubricated after the last rinse cycle and before the sterilisation process.

### iv/ *Manual Cleaning:*

- Use a stiff nylon brush. Do not use steel wool or wire brushes.
- Brush delicate instruments carefully, and if possible separately from general instruments.
- After scrubbing rinse instruments thoroughly in running water to remove cleaning solution. While rinsing, open and close any hinged instruments, such as scissors, to ensure that the hinged areas are rinsed out and no debris remains.

d) Ensure that instrument surfaces are visibly clean and free from stains and debris.

Inspect all instruments for proper function and good condition.

e) After scrubbing, rinse instruments thoroughly under running water. While rinsing, open and close scissors, haemostats, needle holders and other hinged instruments to make sure the hinge areas are rinsed out properly.

## 5. After Cleaning

### i/ *Inspection:*

- Inspect each instrument for proper function and condition.
- Make sure instrument surfaces are visibly clean and free from stains. **We recommend using our Virudet 12 Stain Remover (AMJ73A) to help remove any residue stains.**
- Separate all dissimilar metals prior to sterilisation.
- Allow instruments to air-dry.
- If instruments are to be stored prior to sterilisation ensure that they are stored in a clean and dry environment.

**NOTE: Caring for your instruments by following these cleaning, maintenance, and sterilisation guidelines will ensure trouble-free functionality and increase the longevity of your instruments. Not following proper instrument care guidelines and procedures will void all manufacturers' warranties.**

**For further information about our range of instrument cleaning and maintenance products please refer to our Consumables, Cleaners & Other Medical Products Catalogue or contact our office directly.**

## 6A. Autoclaving

Prior to sterilising, inspect all instruments for cleanliness. Ensure that instruments are visibly clean and free from stains and debris, INCLUDING any detergent residue - as this can cause staining upon autoclaving. If an instrument exhibits staining please refer to our Stain Indication Guide on the next page..

To sterilise follow these steps:

### i/ *Lubricate:*

- Any hinged instruments should be inspected for adequate lubrication at the screw or box joint. Treat any instruments lacking adequate lubrication. A non-silicone, water soluble lubricant must be used. **We recommend using our MedLube Instrument Lubricant & Rust Inhibitor (AMJ92A or AMJ92C).** DO NOT use industrial oils or lubricants.

### ii/ *Sterilising Instruments:* either individually or in sets

- Individual instruments: Disposable pouches are ideal. If sterilising an instrument with a ratchet lock, be sure to use a pouch that is wide enough for the instrument to be sterilised in an open (unlocked) position. Instruments that are locked during autoclaving can experience cracking around hinges or other problems due to heat expansion.
- Instrument sets: Unlock all instruments and sterilise in open position. Place heavy instruments on the bottom of set (when two layers are required). DO NOT OVERLOAD trays or chamber.

**CAUTION:** With most portable tabletop autoclaves, at the end of the autoclave cycle and before the drying cycle, unlock the door and open slightly (about 5mm). Then run the dry cycle for the period recommended by the autoclave manufacturer. If the autoclave door is fully opened before the drying cycle, cold air will rush into the chamber causing condensation on the instruments that may result in water stains or cause wetpacks. Check autoclave filters and chamber cleanliness regularly. Tip; Instrument Stain Remover such as our **Virudet 12 Stain Remover (AMJ73A)** is an effective way of cleaning the autoclave chamber.

## 6B. Chemical/Cold Sterilisation

Most chemical/cold sterilisation treatments render instruments sterile only after 10 hour immersion. This prolonged action can be more detrimental than the usual 20 minute autoclave cycle. Follow sterilisation cycle and process as recommended by the steriliser manufacturer.

**CAUTION:** For instruments with tungsten carbide insert jaws, we do not recommend using chemical/cold sterilisation treatments as the action may deteriorate the tungsten carbide.

# 64 INSTRUMENT CARE

## INSTRUMENT STAIN IDENTIFICATION AND TREATMENT

Contrary to popular belief the majority of instrument staining problems are not caused by faults within the instruments or the metal used within the manufacturing process. In fact over 95% of instrument staining is caused by incorrect or inadequate cleaning and sterilising processes.

The table below has been compiled in order to assist those involved in the instrument cleaning and sterilisation process identify the cause of instrument staining and recommended methods to eliminate future staining occurring.

Stain Colour	Cause	Treatment
Orange-Brown to Reddish (resembles rust)	If stain rubs off and no pitting exists, problem is most likely to be from: <ul style="list-style-type: none"> <li>Detergent residue on towels or a high Alkaline pH (&gt;8) detergent is being used leaving a phosphate surface deposit</li> <li>Dried blood</li> <li>Iodine or betadine residue</li> </ul>	<ul style="list-style-type: none"> <li>Check pH level of detergent and change to neutral pH detergent</li> <li>Check pH of towels to verify if detergent residues are present</li> <li>Rinse instruments thoroughly in warm water for a minimum of 30 seconds</li> <li>Use a stain remover on both instruments and autoclave</li> <li>If problem persists, consider changing to distilled water for rinsing process. Particularly if local water supply is high in iron or other minerals</li> </ul>
Black, Brown & Pitting	Subjected to a low Acidic pH (<6) substance, such as: <ul style="list-style-type: none"> <li>Low pH detergent residue on instruments or towels</li> <li>Exposed to other chemicals compounds from "cold soaking"</li> <li>Exposure to Bleach or other ammonia compounds</li> </ul>	<ul style="list-style-type: none"> <li>Check pH level of detergent and change to neutral pH detergent</li> <li>Check pH of towels to verify if detergent residues are present</li> <li>Eliminate exposure to chemicals or bleach</li> <li>Rinse thoroughly and consider distilled water for continued rinsing. Particularly if local water supply is high in iron or other minerals.</li> <li>Use a stain remover on both instruments and autoclave</li> <li>If pitting remains, return instrument to manufacturer for evaluation</li> </ul>
Rainbow or Multi-colour	<ul style="list-style-type: none"> <li>Instruments have been heat compromised, tensile strength is comprised</li> </ul>	<ul style="list-style-type: none"> <li>Check the autoclave for proper temperature</li> </ul>
Bluish-Green Bluish-Black	<ul style="list-style-type: none"> <li>Cross-contamination between dissimilar metals</li> </ul>	<ul style="list-style-type: none"> <li>Separate instruments by metal type before cleaning or autoclaving</li> </ul>
Bluish-Gray (possible pitting)	<ul style="list-style-type: none"> <li>Incorrect preparation of cold sterilisation solutions</li> </ul>	<ul style="list-style-type: none"> <li>Follow solution manufacturer's direction closely, particularly temperature and soak time</li> <li>Use distilled water</li> <li>Change solution as per manufacturer's instructions</li> </ul>
Rust	<ul style="list-style-type: none"> <li>Sterilising instruments of dissimilar metals in same cycle</li> <li>Chemicals in detergents or excess amounts of iron or other minerals from local water supply</li> <li>New instruments may be slightly magnetised during the manufacturing process</li> </ul>	<ul style="list-style-type: none"> <li>Separate instruments by metal type prior to sterilisation</li> <li>Use neutral pH detergents and change to distilled water. Particularly if local water supply is high in iron or other minerals.</li> <li>Wipe off residue leaving shiny metal underneath</li> <li>Use stain remover on both instruments and autoclave</li> <li>After several autoclaving treatments, the new instruments will lose their magnetic property</li> </ul>
Spotting Light or Dark	<ul style="list-style-type: none"> <li>Slow evaporation of water drops with mineral content</li> <li>Instrument wraps and towels may contain detergent residue</li> </ul>	<ul style="list-style-type: none"> <li>Eliminate water droplets and moisture by adhering to autoclave operating instructions</li> <li>Use stain remover on both the instruments and autoclave</li> <li>Use neutral pH detergents and change to distilled water. Particularly if local water supply is high in iron or other minerals.</li> <li>Wash wraps and towels in neutral pH detergent</li> </ul>

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