



Med-Line

Disposable products

HSW NORM-JECT®
HSW SOFT-JECT®
HSW FINE-JECT®

HSW NORM-JECT®

HSW SOFT-JECT®

HSW FINE-JECT®



Disposable syringes and disposable needles

- safety and comfort for the patient
- optimized handling for the user
- benefits for the health services

As one of the world's leading manufacturers of disposable syringes, Henke-Sass, Wolf offers high product quality based on the experience of more than 40 years. Continuous innovation and intensive contact with medical practice ensure consistency in quality and performance of our products. Typical product characteristics of our 2-part and 3-part range of syringes are fine dosage and tightness. For the state-of-the-art production of our syringes we solely use thoroughly tested and chemically stable raw materials from leading European manufacturers.

Product features of the HSW NORM-JECT® and HSW SOFT-JECT® range:

Carefully-designed ergonomics ensure ease of use for all our 2-part and 3-part syringes ranging from 0,3 ml to 100 ml (120 ml).

Extensive tests and product validation during the development phase result in a safe grip to both plunger and barrel of our syringes. Special production methods and the firm's own tool-manufacturing know-how have enabled a high-precision design of the inner walls of the barrel. The syringes also feature high extraction forces of the plunger from the barrel due to a positive safety stop to prevent accidental spills.

HSW NORM-JECT® and HSW SOFT-JECT® syringes are available with by-packed, mounted and fixed needles in various sizes (for separate needles please see section HSW FINE-JECT® on page 10). Our small volume syringes 1 – 20 ml offer an improved needle-luer slip-connection by a corrugated cone of the syringes made possible by a new production method.

HSW disposable syringes offer high-transparency and are made of medical and laboratory grade polypropylene and polyethylene from European manufacturers. The fine calibrations simplify effortless, high-precision, line-to-line dosage and resist wipe off.

The fine-dosage models (0,3 ml, 0,5 ml and 1 ml) are particularly suitable for injecting insulin and tuberculin, as well as for laboratory applications.



The range up to 2 ml (3 ml) features centric Luer tips.



The larger models have eccentric cones



HSW NORM-JECT®

HSW SOFT-JECT®

HSW FINE-JECT®

Primary Packaging

Henke-Sass, Wolf packages the disposable syringes within individual sterile strip packs or unsterile in bulk packaging for further processing. This packaging allows sterility of the syringes of 5 years. Our soft blister packs are labeled with necessary data such as syringe type, volume, sterilization method, shelf life and batch number. The blister packs are opened by usage of the tear-open strip.

Secondary Packaging

The cleverly-designed dispenser box contributes to the disposable syringes' overall functionality. It is designed for the purpose of easy and comfortable removal of the products. Additionally we take great care of our environmental responsibility by using cardboard made of recyclable raw materials.

Demand-specific programme

The disposable syringes are available without needle¹, with by-packed needle², with mounted needle³ or with fixed needle⁴.



Product safety

Our syringes are manufactured according to the latest international requirements and local standards such as DIN, EN, ISO and FDA.

Quality management according to GMP, ISO and CE certification enable batch traceability through all production stages from the input of raw material to the final release of the product after sterilization.

This total quality system is supported by automatic online inspection devices inbuilt on machines to assure consistency of highest product quality.



HSW NORM-JECT®

HSW SOFT-JECT®

HSW FINE-JECT®



2-part disposable syringes HSW NORM-JECT®

available from sizes 1-50 ml (60 ml)

- smooth flow, tight, high transparency barrel
- no rubber, styrene or DEHP
- latex- and silicone-oil-free
- pyrogen-free, PVC-free, non-toxic
- sterile, individually blister strip packed
- your first choice for an inert syringe *
- defined position of the plunger at volume "0" to feel when plunger is completely inserted
- no dead space for 1ml Insulin and Tuberculin syringe
- extended graduation for wider range of application
- positive safety stop to prevent accidental spills
- 1–20 ml (24 ml) available with both by-packed or without needle
- 5 ml (6 ml) and 10 ml (12 ml) additionally available with especially designed oral tip which prevents accidental luer or hypodermic connection → incompatible with injection needles
 - ↪ for oral medication especially for children (medicine reaches the circulation from the mouth via the gastro-intestinal tract)
 - ↪ for dispensing non-IV medications
 - ↪ for use with high-viscosity liquids where no needle is required
- 30 ml and 50 ml (60 ml) available without needle
- available in non-sterile version (bulk) upon request



Upon request 2 ml (3 ml) – 50 ml (60 ml) syringes available with Luer Lock tip



No dead space with our 2-part 1 ml Insulin and TBC syringes due to a pin at distal end of plunger



All 30 ml and 50 ml (60 ml) HSW NORM-JECT® alternatively available with Luer, Luer Lock or Catheter tip

* Please contact HSW for further details



HSW NORM-JECT®

HSW SOFT-JECT®

HSW FINE-JECT®

2 part disposable syringes HSW NORM-JECT®

Manufacturing Programme disposable products: HSW-Disposable Syringes and Needles

According to the latest DIN, EN, ISO and FDA standards • Quality management system certified according to ISO 13485:2003 / AC 2007 • CE-marked

size		* pieces per box	pieces per carton	volume per carton in m ³	pieces per Europallet	pieces per 20' container	gross weight per carton kg
1 ml Ins/TBC	┐	100	1.800	0,057	54.000	756.000	ca. 6,8
2 ml (3 ml)	┐┐	100	2.500	0,084	50.000	917.500	ca. 9,8
5 ml (6 ml)	┐┐┐	100	2.000	0,107	32.000	550.000	ca. 12,0
10 ml (12 ml)	┐┐┐┐	100	1.200	0,093	21.600	403.200	ca. 10,8
20 ml (24 ml)	┐┐┐┐┐	100	800	0,106	12.800	220.000	ca. 11,5
30 ml	┐┐┐	50	500	0,122	7.500	122.500	ca. 11,3
30 ml Cath.	┐┐┐	50	500	0,122	7.500	122.500	ca. 12,3
50 ml (60 ml)	┐┐┐┐	30	300	0,122	4.500	73.500	ca. 10,8
50 ml (60 ml) Cath.	┐┐┐┐	30	300	0,122	4.500	73.500	ca. 11,0

*without
needles*

1 ml Ins/TBC	┐	w.n. 27 G x 1½"	100	1.800	0,057	54.000	756.000	ca. 8,2
2 ml (3 ml)	┐┐	w.n. 23 G x 1¼"	100	2.500	0,084	50.000	917.500	ca. 11,8
5 ml (6 ml)	┐┐┐	w.n. 21 G x 1½"	100	2.000	0,107	32.000	550.000	ca. 13,6
5 ml (12 ml)	┐┐┐	w.n. 22 G x 1¼"	100	2.000	0,107	32.000	550.000	ca. 13,6
10 ml (12 ml)	┐┐┐┐	w.n. 21 G x 1½"	100	1.200	0,093	21.600	403.200	ca. 11,8
20 ml (24 ml)	┐┐┐┐┐	w.n. 20 G x 1½"	100	800	0,106	12.800	220.000	ca. 12,1
20 ml (24 ml)	┐┐┐┐┐	w.n. 21 G x 1½"	100	800	0,106	12.800	220.000	ca. 12,1

*with
by-packed
needles*

┐ Luer

┐┐ Luer Lock

┐ Oral

* Oral tip syringes are packed unsterile for packing details contact HSW

HSW NORM-JECT®

HSW SOFT-JECT®

HSW FINE-JECT®



3-part disposable syringes HSW SOFT-JECT®



1

available¹ from sizes 1 ml – 50 ml (60 ml)

- smooth flow, tight, high transparency barrel
- rubber piston syringes
- latex-free
- pyrogen-free, PVC-free, non-toxic



2

- lubricated synthetic rubber piston allows a smooth draw
- 50ml and 100ml syringes with extended graduation for wider range of application
- available in non-sterile version (bulk) upon request

3-part disposable syringes HSW SOFT-JECT® 50 ml (60 ml)

These syringes² are available with Luer, Catheter and Luer Lock tip and offer smooth gliding of the piston with minimal quantity of silicone oil. All 50 ml (60 ml) syringes are printed with an extended graduation up to 60 ml.



3

All types are available without needle, 50 ml (60 ml) Luer Lock are alternatively available with mounted needle 14 G x 1 ¼" (2,00 x 30 mm) with the needle tube being treated by anti-coring treatment. Luer Lock types are compatible for use with most common syringe pumps. Please ask for further information.

100 ml (120 ml) HSW SOFT-JECT® available³ with Catheter tip

- attachable Luer tips integrated in the piston rod



HSW NORM-JECT®

HSW SOFT-JECT®

HSW FINE-JECT®

3-part disposable syringes HSW SOFT-JECT® with mounted needles

- needle pre-assembled on syringe
- available in sizes 1 ml, 3 ml, 5 ml and 10 ml (1 ml both with Insulin U-100 and TBC graduation)
- 1 ml: needle mounted on Luer tip
- 3 ml, 5 ml and 10 ml: needle mounted on Luer Lock tip
- various syringe-needle combinations available



3-part disposable syringes HSW SOFT-JECT® with fixed needles

- needle tube permanently attached in syringe
- no dead space
- safety stop
- available in sizes 0,5 ml and 1 ml (0,3 ml coming soon!) both with Insulin U-100 and TBC graduation
- suitable for dosage of very small volumes
- needles available in two different lengths (12 mm and 8 mm)
- single-blister packed: 100 pieces per inner box



HSW NORM-JECT®

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HSW FINE-JECT®



3 part disposable syringes HSW SOFT-JECT®

Manufacturing Programme disposable products: HSW-Disposable Syringes and Needles

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*without
needles*

size		pieces per box	pieces per carton	volume per carton in m ³	pieces per Europallet	pieces per 20' container	gross weight per carton kg
1 ml Ins/TBC	┐	100	1.800	0,057	54.000	756.000	ca. 6,3
3 ml	┐ ┐	100	2.400	0,081	48.000	900.000	ca. 10,9
5 ml	┐ ┐	100	2.000	0,107	32.000	550.000	ca. 13,0
10 ml	┐ ┐	100	1.200	0,093	21.600	403.200	ca. 12,0
20 ml	┐ ┐	100	800	0,106	12.800	220.000	ca. 12,9
30 ml	┐ ┐	60	600	0,113	9.000	122.500	ca. 14,0
50 ml (60 ml)	┐ ┐	50	300	0,098	6.000	86.700	ca. 11,9
50 ml (60 ml) Cath.		50	300	0,098	6.000	86.700	ca. 12,3
50 ml (60 ml) Perfus.		50	300	0,098	6.000	86.700	ca. 13,0
100 ml (120 ml) Cath.		30	180	0,116	2.880	48.600	ca. 13,3

*with
by-packed
needles*

1 ml Ins/TBC	┐	w.n. 27 G x 1/2"	100	1.800	0,057	54.000	756.000	ca. 7,7
3 ml	┐ ┐	w.n. 23 G x 1 1/4"	100	2.400	0,081	48.000	900.000	ca. 12,8
5 ml	┐ ┐	w.n. 21 G x 1 1/2"	100	2.000	0,107	32.000	550.000	ca. 14,6
5 ml	┐ ┐	w.n. 22 G x 1 1/4"	100	2.000	0,107	32.000	550.000	ca. 14,6
10 ml	┐ ┐	w.n. 21 G x 1 1/2"	100	1.200	0,093	21.600	403.200	ca. 13,0
20 ml	┐ ┐	w.n. 20 G x 1 1/2"	100	800	0,106	12.800	220.000	ca. 13,6
20 ml	┐ ┐	w.n. 21 G x 1 1/2"	100	800	0,106	12.800	220.000	ca. 13,6

┐ Luer

┐ Luer Lock



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3 part disposable syringes HSW SOFT-JECT®

Manufacturing Programme disposable products: HSW-Disposable Syringes and Needles

According to the latest DIN, EN, ISO and FDA standards • Quality management system certified according to ISO 13485:2003 / AC 2007 • CE-marked

size			pieces per box	pieces per carton	volume per carton in m ³	pieces per Europallet	pieces per 20' container	gross weight per carton kg
1 ml Ins		w.n. 27 G x 1/2"	100	1.600	0,084	32.000	550.400	ca. 9,1
1 ml TBC		w.n. 27 G x 1/2"	100	1.600	0,084	32.000	550.400	ca. 9,1
3 ml		w.n. 23 G x 1 1/4"	100	1.600	0,084	32.000	369.600	ca. 10,9
5 ml		w.n. 21 G x 1 1/2"	100	900	0,093	16.200	247.500	ca. 8,3
10 ml		w.n. 21 G x 1 1/2"	100	900	0,093	16.200	247.500	ca. 10,9

*with
mounted
needles*

0,3 ml* Ins		w.n. 29 G x 1/2"	100	1.600	0,050	57.600	912.000	ca. 6,5
		w.n. 30 G x 5/16"	100	1.600	0,050	57.600	912.000	ca. 6,5
0,5 ml Ins		w.n. 30 G x 5/16"	100	2.400	0,085	48.000	883.200	ca. 7,1
1 ml Ins		w.n. 30 G x 1/2"	100	2.400	0,085	48.000	883.200	ca. 8,4
		w.n. 30 G x 5/16"	100	2.400	0,085	48.000	883.200	ca. 8,4
1 ml TBC		w.n. 30 G x 1/2"	100	2.400	0,085	48.000	883.200	ca. 8,4

*with fixed
needles*

* coming soon!

 Luer

 Luer Lock

HSW NORM-JECT®

HSW SOFT-JECT®

HSW FINE-JECT®



Hypodermic needles HSW FINE-JECT® for single use

As a manufacturer of disposable medical needles, HSW is committed to a patient's safety and comfort. In order to prevent discomfort for the patient and unnecessary stress for clinicians during usage of our products, HSW products are regularly mechanically analyzed and experiences of clinical practice are fed back in order to improve constantly product quality and safety for higher patient comfort. The hypodermic needles HSW FINE-JECT® stand for

- optimized siliconization of needle tube
- high pull-out forces of canula-hub-connection
- innovative anti-coring treatment of needle tube
- consistent low penetration load of needle and skin

Our disposable needles also offer standard product characteristics such as

- precision lancet point according to ISO 7864 with exact, smooth bevel cut
- mainly thin wall tubing, dry siliconization
- 5 year sterility after date of sterilization

Materials

Needle tube:	stainless steel in accordance with ISO 9626 (available with long bevel or short bevel)
Hub:	Polypropylene in accordance with section 9 of ISO 7864 (colour of hub acc. to the International Colour Codes ISO 6009)
Protecting cap:	Polypropylene in accordance with section 10 of ISO 7864

Packing

Primary package:	„Peel open“ blister system packing
Dispenser box:	Paper-board box of 100 pieces
Transport package:	Corrugated paper-board box of 4.000 pieces, respectively 3.000 pieces

Packaging details for all needle sizes

needle length < 2" (50 mm)

pieces per	pieces per	pieces per
box	carton	Europallet
100	4.000	200.000

needle length 2" (50 mm)

pieces per	pieces per	pieces per
box	carton	Europallet
100	3.000	180.000



HSW NORM-JECT®

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The following needle sizes are part of our standard manufacturing programme and in general available in stock:

size in inch	size in mm	HSW item no.	colour code	size in inch	size in mm	HSW item no.	colour code
30G x ½"	0,30 x 12 mm	4710003012		22G x 1 ½"	0,70 x 40 mm	4710007040	
27G x ½"	0,40 x 12 mm	4710004012		21G x 1"	0,80 x 25 mm	4710008025	
27G x ¾"	0,40 x 20 mm	4710004020		21G x 1 ½"	0,80 x 40 mm	4710008040	
26G x ½"	0,45 x 12 mm	4710004512		20G x 1"	0,90 x 25 mm	4710009025	
26G x 1"	0,45 x 25 mm	4710004525		20G x 1 ½"	0,90 x 40 mm	4710009040	
25G x ⅝"	0,50 x 16 mm	4710005016		19G x 1 ½"	1,10 x 40 mm	4710011040	
23G x 1"	0,60 x 25 mm	4710006025		18G x 1 ½"	1,20 x 40 mm	4710012040	
23G x 1 ¼"	0,60 x 30 mm	4710006030		16G x 1 ½"	1,60 x 40 mm	4710016040	
22G x 1 ¼"	0,70 x 30 mm	4710007030					

Besides our standard needles the following sizes are available:

size in inch	size in mm	HSW item no.	colour code	size in inch	size in mm	HSW item no.	colour code
27G x 2"	0,40 x 50 mm	8300011060		20G x 1 ¼"	0,90 x 30 mm	4710009030	
27G x 1 ⅝"	0,40 x 42 mm	8300003458		20G x ¾"	0,90 x 20 mm	coming soon	
27G x 1 ¼"	0,40 x 30 mm	coming soon		20G x ½"	0,90 x 12 mm	coming soon	
27G x ⅜"	0,40 x 23 mm	coming soon		20G x ⅜"	0,90 x 10 mm	coming soon	
26G x ⅞"	0,45 x 23 mm	4710004523		20G x ¼"	0,90 x 6 mm	coming soon	
25G x 1 ½"	0,50 x 40 mm	8300003551		19G x 2"	1,10 x 50 mm	4710011050	
25G x 1"	0,50 x 25 mm	4710005025		19G x 1 ¼"	1,10 x 30 mm	4710011030	
25G x ⅞"	0,50 x 23 mm	coming soon		19G x 1"	1,10 x 25 mm	4710011025	
24G x 1"	0,55 x 25 mm	4710005525		18G x 3"	1,20 x 75 mm	coming soon	
23G x 1 ½"	0,60 x 40 mm	8300000361		18G x 2"	1,20 x 50 mm	4710012050	
23G x ¾"	0,60 x 20 mm	coming soon		18G x 1 ¼"	1,20 x 30 mm	4710012030	
22G x 4"	0,70 x 100 mm	coming soon		18G x 1"	1,20 x 25 mm	4710012025	
22G x 3 ½"	0,70 x 87 mm	coming soon		18G x ¾"	1,20 x 20 mm	coming soon	
22G x 3"	0,70 x 75 mm	coming soon		18G x ½"	1,20 x 12 mm	coming soon	
22G x 2"	0,70 x 50 mm	4710007050		18G x ¼"	1,20 x 6 mm	coming soon	
22G x 1"	0,70 x 25 mm	4710007025		17G x 2"	1,50 x 50 mm	4710015050	
22G x ¾"	0,70 x 20 mm	4710007020		16G x 4"	1,60 x 100 mm	coming soon	
22G x ⅜"	0,70 x 10 mm	coming soon		16G x 3"	1,60 x 75 mm	coming soon	
21G x 2"	0,80 x 50 mm	4710008050		16G x 2"	1,60 x 50 mm	coming soon	
21G x 1 ¼"	0,80 x 30 mm	4710008030		16G x 1"	1,60 x 25 mm	4710016025	
21G x ⅝"	0,80 x 16 mm	4710008016		16G x ¾"	1,60 x 20 mm	coming soon	
20G x 2"	0,90 x 50 mm	4710009050		15G x 2"	1,80 x 50 mm	4710018050	
				15G x 1 ½"	1,80 x 40 mm	4710018040	

Further needle sizes would be available upon special request.
Please ask our Customer Service.



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Dental/human syringes



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Reusable injection and application systems for dental/human medicine

Strict orientation to daily practice is clearly expressed in the injection and rinsing syringes used in human and dental medicine. Suggestions and requests from doctors of all specialist areas are the basis for the comprehensive and varied range of standard products.

Henke-Sass, Wolf has made a name for itself as a development pioneer (since 1923) and with its attractive price-performance ratio of syringe products. Many years of experience in the development and production of human and dental syringes and application systems are combined with a precise knowledge of practice requirements. HSW has always been a leader in the introduction of innovative new products. Examples of milestones here are the constant new developments in the area of intraligamental anesthetics and the introduction of the HSW HENKE-JECT® with pressure limitation 1985 as well as the introduction of the HSW SOFT-JECT® syringe 1997. Today, HSW is one of the most important manufacturers of syringe and application systems for intraligamental anesthetics, whether as an OEM manufacturer for world-renowned companies or for the products which are marketed under our own name.

We have set the benchmark in intraligamental anesthetics with the automatic pressure limitation that facilitates precise injection and thus reliably prevents damage to the paradontal tissue.

Dental syringes

More than 80 years of experience and know-how in the development of medicinal products at a very high level are reflected in the dental products of Henke-Sass, Wolf. Our products stand out for their innovative design, the most modern, state-of-the-art production techniques and continuous quality control measures. Many of our standard products are optionally available with metric or US thread attachments.

Dental cartridge syringe with aspiration

You will find ample choice for any application and user requirement in our high-quality cylinder cartridge syringes with aspiration.

HENKE – DENT 100 A AND 100 B

- Available in 2 reliable aspiration variants
- Can be used with all commercially available cylinder ampoules with full plug
- Bending mechanism for effortless insertion of the cylinder ampoules
- Proven design in line with its function
- Can be completely dismantled and is easy to clean
- Autoclavable at 134° C or 273° F
- Available in sizes 1.8 ml and 2.2 ml (for cylinder ampoules in these sizes)



HENKE – DENT 200 SL

- High-quality ampoule syringe with reliable aspiration
- Side loading
- Can be used with all commercially available cylinder ampoules with full plug
- Secure handling and ergonomic design
- Can be completely dismantled and is easy to clean
- Autoclavable at 134° C or 273° F
- Available in sizes 1.8 ml and 2.2 ml (for cylinder ampoules in these sizes)



HENKE – DENT 300 A – TRIO AND 300 B – QUATTRO

- 3 or 4 movable aspiration hooks guarantee ideal aspiration
- These syringes meet the most discerning requirements with regard to design and handling
- Can be used with all commercially available cylinder ampoules with hole plug
- User-friendly thanks to proven design
- Bending mechanism for effortless insertion of the cylinder ampoules
- Can be completely dismantled and is easy to clean
- Autoclavable at 134° C or 273° F



HENKE ASPIRATON SYRINGE ACCORDING TO COOK-WAITE (CW TYPE)

- Design of syringe according to Cook-Waite
- Side loading
- Can be used with all commercially available cylinder ampoules with full plug
- Front part is fixed and cannot be removed
- Reliable aspiration with harpoon aspiration device
- Secure handling and easy cleaning
- Autoclavable at 134° C or 273° F



HENKE ASPIRATION SYRINGE ASTRA

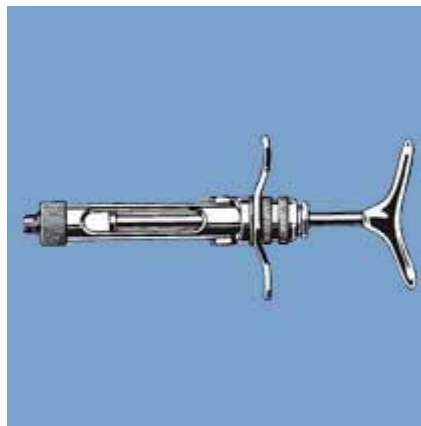
- Side loading
- Can be used with all commercially available cylinder ampoules with full plug
- Front part is fixed and cannot be removed
- Reliable aspiration with arrowhead
- Secure handling and easy cleaning
- Autoclavable at 134° C or 273° F



Dental cartridge syringe without aspiration

HENKE-DENT 100

- Can be used with all commercially available cylinder ampoules (with hole plug and full plug)
- Bending mechanism for effortless insertion of the cylinder ampoules
- Proven design in line with its function (crutch handle instead of draw ring)
- Can be completely dismantled and is easy to clean
- Autoclavable at 134° C or 273° F
- Available in sizes 1.8 ml and 2.2 ml (for cylinder ampoules in these sizes)



Self-aspirating dental cartridge syringe

HENKE – DENT 2000 SA

- Large see-through window makes it easy to remove the cylinder ampoule
- Ergonomic, contemporary design
- Side loading
- Self-aspirating as the result of a drop-in pressure (by letting go of the thumb ring or plate)
- Can be used with all commercially available cylinder ampoules (with hole plug and full plug), depending on design
- Available in sizes 1.8 ml and 2.2 ml (for cylinder ampoules in these sizes)
- Can be completely dismantled and is easy to clean
- Autoclavable at 134° C or 273° F



Syringes for intraligamental anesthetics

The HSW HENKE-JECT® with and without pressure limitation, the HSW LIGMAJECT® and the HSW SOFT-JECT® micro-dosage wheel syringe have been especially developed for ILA and guarantee maximum standards and safety in their application.

HSW has been a pioneer and innovator of the ILA method for many years.

HSW LIGMAJECT® 1, THE ORIGINAL AND HSW LIGMAJECT® 2

- Ergonomic design and absolute handling
- Handle made of high-strength zinc die-cast and/or plastic
- Simple and very reliable handling
- One movement of the trigger lever corresponds to 0.2 ml
- With burst protection
- Size: 1.8 ml (for cylinder ampoules of this size)
- Autoclavable at 134° C or 273° F



HSW HENKE-JECT®

- Specially developed syringe for intraligamental anesthetics
- Excellent ergonomic design
- Handle made of high-strength zinc die-cast
- Simple and very reliable handling
- One movement of the trigger lever corresponds to 0.2 ml
- With burst protection
- Size: 1.8 ml (for cylinder ampoules of this size)
- Autoclavable at 134° C or 273° F



HSW HENKE-JECT® WITH PRESSURE LIMITATION

- Enhanced syringe for intraligamental anesthetics
- With patented pressure limitation (90 N or 120 N) for enhanced safety
- Excellent ergonomic design
- Handle made of high-strength zinc die-cast
- Simple and very reliable handling
- One movement of the trigger lever corresponds to 0.2 ml
- With burst protection
- Size: 1.8 ml (for cylinder ampoules of this size)
- Autoclavable at 134° C or 273° F



HSW SOFT-JECT® MICRO-DOSAGE WHEELSYRINGE

The transfer of pressure is done via a dosage wheel without any intermediate levers. With the HSW SOFT-JECT® it is therefore possible to carry out time-dependent injections with a pressure of $< 0,10$ MPA in the ligament. The syringe makes it possible for the injection pressure to be precisely controlled by the person administering the treatment; this means that side effects (such as a feeling of elongation, pressure pain after the anesthetic wears off) can be largely avoided. Injuries to the periodontal apparatus by applying too much pressure can thus be avoided as a controlled dosage of the anesthetic is made into the desmodont.

- Precision syringe made of stainless steel
- Stepless pressure transmission through patented dosage wheel
- Damage to the tissue through increased pressure during the injection is avoided thanks to the dosage wheel technology
- Excellent ergonomic design
- Micro amounts of $< 0.01 - 0.10$ ml can be applied precisely in the right place
- With burst protection
- Size: 1.8 ml (for cylinder ampoules of this size)
- Autoclavable at 134°C or 273°F



Application syringe for elastic impression materials

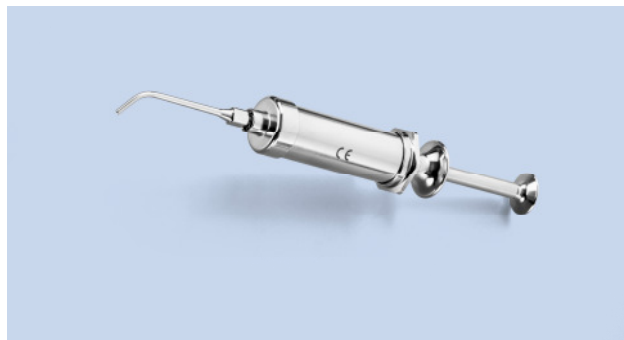
HENKE PRESS

- This proven construction facilitates a simple, prompt and clean scraping open of the elastic impression mass with low loss of material
- The specially graduated piston rod means that the fill level is visible at all times
- When the piston rod pulls back, the hardened elastic impression material is completely removed.
- Secure and sensitive hold thanks to the ergonomic finger support
- Can be fully sterilized
- Spare parts and accessories available (can be purchased from specialist dealers). Spare parts information, product prospectus
- Can be completely dismantled and is easy to clean
- Autoclavable at 134° C or 273° F



Irrigating syringe / HSW water syringe

- Syringe made entirely of metal, 10 ml
- Simple handling and precise dosage
- Secure hold through a grip that has been tried and tested many times
- Spare parts and accessories available (can be purchased from specialist dealers).
- Can be completely dismantled and is easy to clean
- Autoclavable at 134° C or 273°



Human Syringes

High-quality injection and application systems are available for a host of applications. Tradition and many years of experience in the development and production of glass-metal syringes are the guarantee for top-class quality and long durability. All our reusable syringes and application systems are of course easy to clean and fully autoclavable.

Injection syringes

HSW ULTRA-ASEPT®

- The high-quality injection syringe in a modular system:
- Graduated glass cylinder with precision cut
- Can be completely dismantled; effortless cleaning guaranteed
- Ground stainless steel piston
- Can be completely dismantled
- Autoclavable at 134° C or 273° F
- Available sizes: 2ml, 3ml, 5ml, 10ml, 20ml, 50ml
- Optional Luer or Luer Lock attachment
- In standard or 3-ring design
- Spare parts available (can be purchased from specialist dealers). Spare parts information, see product prospectus



HSW UNIVERSAL EAR SYRINGE 10 ml

- Chrome-plated syringe, made entirely of metal, 10 ml
- Can be used for single or long-term rinsing
- Secure hold through a grip that has been tried and tested many times
- Can be completely dismantled, meaning effortless cleaning
- Autoclavable at 134° C or 273° F
- Available as an individual syringe or as a set with all accessories in high-quality leather case
- Spare parts and accessories available (can be purchased from specialist dealers). Spare parts information, see product prospectus.



Wound and bladder syringes

HSW SCHIMMELBUSCH

This 3-ring syringe which is made entirely of metal can be used as a wound, bladder or HNO syringe with the appropriate attachments.

- Metal cannula and piston can be replaced
- Graduated piston rod with O ring
- Can be completely dismantled, meaning effortless cleaning
- Autoclavable at 134° C or 273° F
- Available sizes: 50, 75 and 125 ml
- Each one piece cannula cone end and olive end included
- Spare parts and accessories available (can be purchased from specialist dealers). Spare parts information, see product prospectus



HSW ULTRA-JANET

- Wound, bladder or feeding syringe in modular system
- Graduated glass cylinder with precision cut
- Can be completely dismantled; effortless cleaning guaranteed
- Ground stainless steel piston
- Autoclavable at 134 ° C or 273 ° F
- Available sizes: 50ml, 100ml, 150ml, 200ml
- Spare parts and accessories available (can be purchased from specialist dealers). Spare parts information, see product prospectus

