

## **LevelOne** Fixation

Osteosynthese 2.3 Fracture and Reconstruction



Oral and maxillofacial surgery is our passion! It is our ambition to continue its development in collaboration with our customers. Day in, day out, we work to develop innovative products and services that satisfy the highest quality demands and contribute to the patient's well-being.

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## Feature, Function and Benefit



With LevelOne, KLS Martin offers a comprehensive system for plate and screw osteosynthesis. A clearly structured variety of implants, universally applicable and designed for specific applications, covers the most diverse areas of oral and maxillofacial surgery.

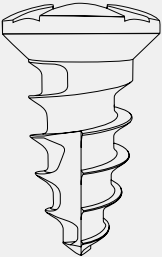
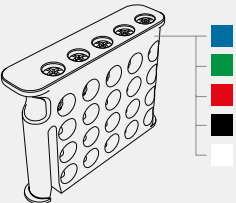
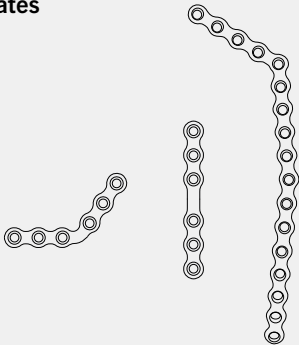
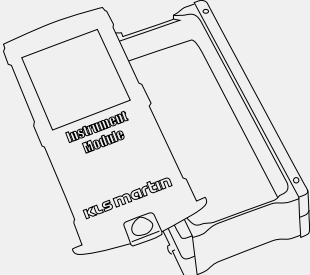
The storage system consists of basic modules, storage modules, and color-coded screw storage packs that can be filled individually and combined according to requirements.

This offers surgeons the option of choosing between preconfigured modules or configuring their own system.

There are no limits to the configuration options.

LevelOne – a coherent approach that has become indispensable in osteosynthesis.

## LevelOne – Implants

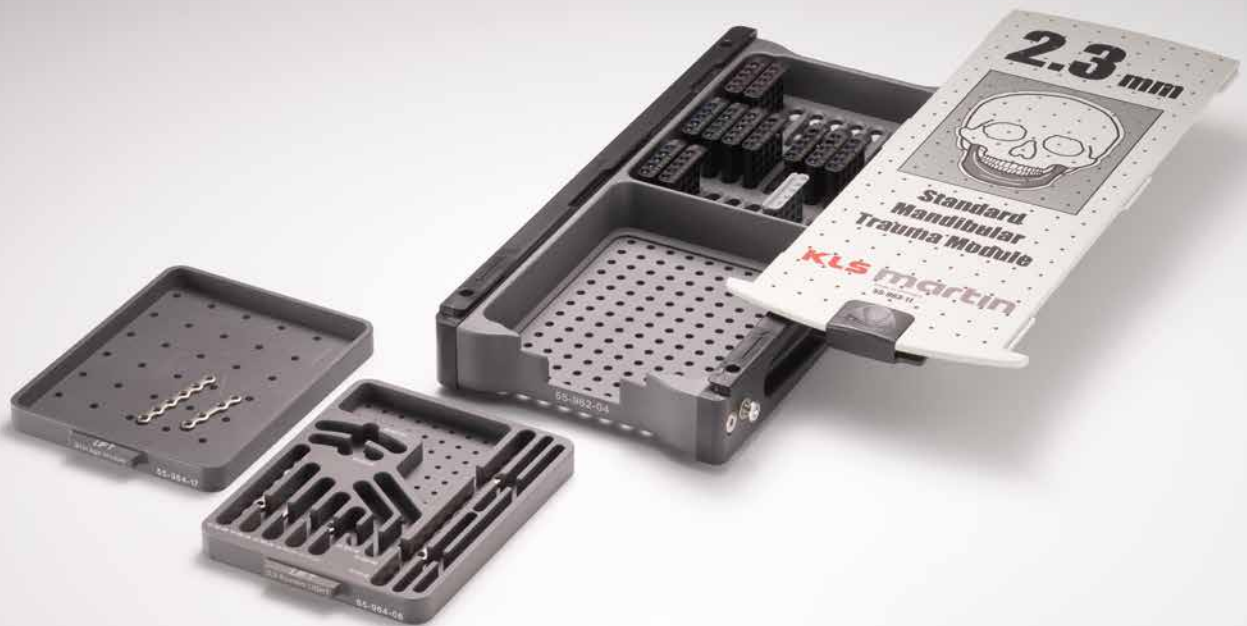
	Feature and Function	Benefit
<b>maxDrive® Screws</b> 	<ul style="list-style-type: none"><li>▪ Predefined, self-centering self-retaining mechanism</li><li>▪ Various different designs<ul style="list-style-type: none"><li>▪ Standard Ø 2.3 mm</li><li>▪ Emergency Ø 2.5 mm</li></ul></li></ul>	<ul style="list-style-type: none"><li>▪ Easy pick-up and insertion of the screw</li><li>▪ Can be screwed in at an angle</li><li>▪ Direct force transfer from the screwdriver blade to the screw</li><li>▪ Screw variance for multiple application options</li></ul>
<b>Clip magazines and instruments</b> 	<ul style="list-style-type: none"><li>▪ Color-coded screw clips and instruments</li></ul>	<ul style="list-style-type: none"><li>▪ Quick and easy identification of corresponding implants and instruments</li></ul>
<b>Plates</b> 	<ul style="list-style-type: none"><li>▪ Variety of plate designs<ul style="list-style-type: none"><li>▪ Universal plate geometries</li><li>▪ Specific implant designs</li></ul></li></ul>	<ul style="list-style-type: none"><li>▪ Versatile coverage of a very wide range of applications</li></ul>
<b>Storage</b> 	<ul style="list-style-type: none"><li>▪ Freely combinable LevelOne storage modules</li></ul>	<ul style="list-style-type: none"><li>▪ Compact storage for instruments and implants</li><li>▪ Flexibility and adaptation to individual customer requirements</li></ul>

# LevelOne Fixation


## Fields of Use

The possible areas of application with the 2.3 mm system are as diverse as the LevelOne system itself:

- Fractures in atrophied jaws
- Unstable oblique, mandibular angle and defect fractures
- Mandibular fractures in non-cooperative patients
- Mandibular reconstruction in conjunction with non-vascularized bone implants




## Overview of Materials

	Plates	Screws
<b>Materials</b>	 Pure titanium in implant quality	 Titanium alloy in implant quality Ti-6Al-4V
<b>Standards</b>	DIN ISO 5832-2 DIN 17850 ASTM F 67	DIN ISO 5832-3 DIN 17851 ASTM F 136a


## Fracture screws 2.0 mm

maxDrive®  

### Mini screws Ø 2.3 mm self-retaining

	Ø x L (mm)	maxDrive® 5	STERILE   R 5	STERILE   R 1
	2.3 x 4 mm	25-873-04-09	25-873-04-75	25-873-04-71
2.3 x 5 mm	25-873-05-09	25-873-05-75	25-873-05-71	
2.3 x 6 mm	25-873-06-09	25-873-06-75	25-873-06-71	
2.3 x 7 mm	25-873-07-09	25-873-07-75	25-873-07-71	
2.3 x 9 mm	25-873-09-09	25-873-09-75	25-873-09-71	
2.3 x 11 mm	25-873-11-09	25-873-11-75	25-873-11-71	
2.3 x 13 mm	25-873-13-09	25-873-13-75	25-873-13-71	
2.3 x 15 mm	25-873-15-09	25-873-15-75	25-873-15-71	
2.3 x 17 mm	25-873-17-09	25-873-17-75	25-873-17-71	
2.3 x 19 mm	25-873-19-09		25-873-19-71	




### Emergency screws Ø 2.5 mm self-retaining

	Ø x L (mm)	maxDrive® 5	STERILE   R 5	STERILE   R 1
	2.5 x 5 mm	25-874-05-09	25-874-05-75	25-874-05-71
2.5 x 7 mm	25-874-07-09	25-874-07-75	25-874-07-71	
2.5 x 9 mm	25-874-09-09		25-874-09-71	
2.5 x 13 mm	25-874-13-09		25-874-13-71	
2.5 x 17 mm	25-874-17-09		25-874-17-71	





Explanation of icons

-  Titanium alloy
-  maxDrive®
-  Centre-Drive®
-  Units per package

**STERILE IR** Sterile packaged implants

**Centre-Drive®**   

**Mini screws Ø 2.3 mm**  
self-retaining

	Ø x L (mm)	Centre-Drive®	<b>STERILE IR</b>
	2.3 x 5 mm	25-663-05-09	
2.3 x 7 mm	25-663-07-09	<b>25-663-07-75</b>	
2.3 x 9 mm	25-663-09-09		
2.3 x 11 mm	25-663-11-09		
2.3 x 13 mm	25-663-13-09		
2.3 x 15 mm	25-663-15-09		
2.3 x 17 mm	25-663-17-09		
2.3 x 19 mm	25-663-19-09		

**Emergency screws Ø 2.5 mm**  
self-retaining

	Ø x L (mm)	Centre-Drive®
	2.5 x 9 mm	25-664-09-09
2.5 x 13 mm	25-664-13-09	
2.5 x 17 mm	25-664-17-09	

## Implants: Mandible and Fracture plates

Two plates per side are recommended for mandibular reconstruction. Each plate is to be secured with a minimum of three screws per side.

Developed in cooperation with:  
P.J.W. Stoelinga, University of Nijmegen, NL





Explanation of icons

- Titanium alloy
- Plate profile
- Units per package

**STERILE IR** Sterile packaged implants



1/1

51-212-17-09

51-212-17-71

= 1.5 mm

Smart-Shape plate, symphysis top



51-212-18-09

51-212-18-71

= 1.5 mm

Smart-Shape plate, symphysis bottom



51-213-27-09

51-213-27-71

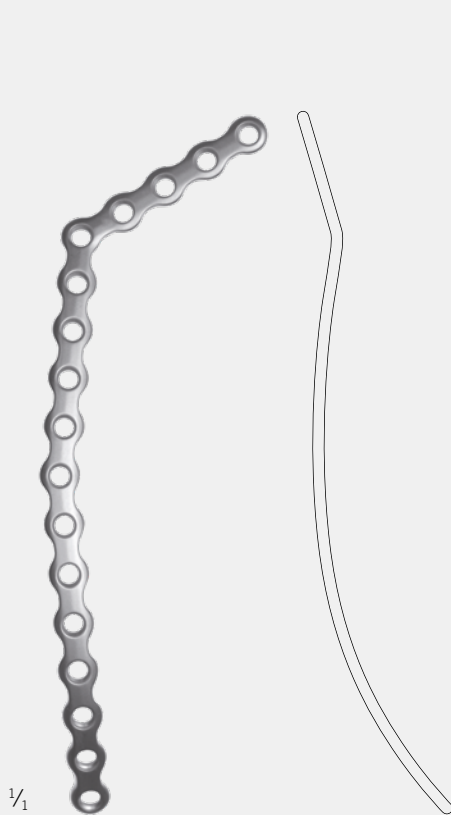
= 1.5 mm

Smart-Shape plate, 27-hole, straight

# Implants: Mandible



## Smart-Shape plates 2.3 mm

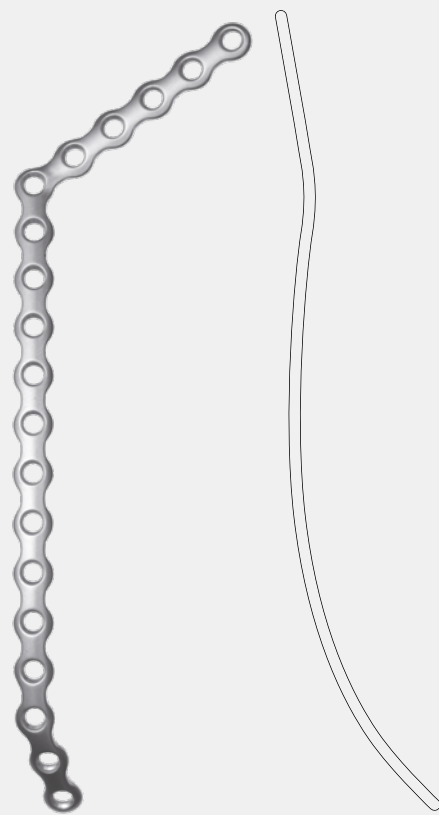


51-210-17-09 1

51-210-17-71 1

= 1.5 mm

Smart-Shape plate, ramus top right

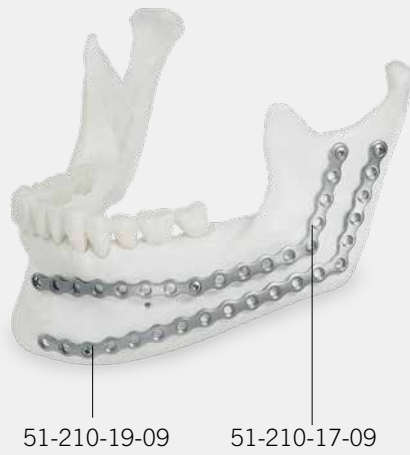


51-210-19-09 1

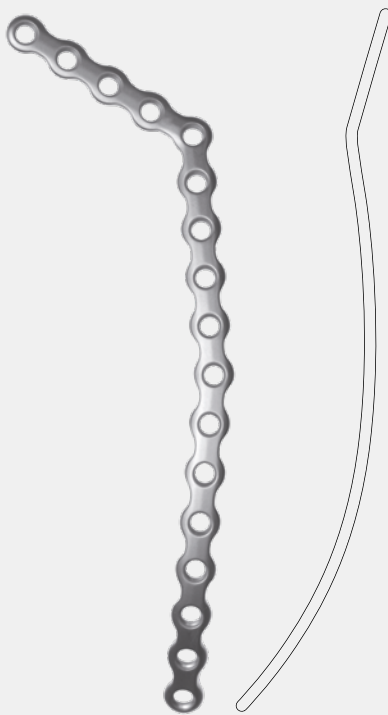
51-210-19-71 1

= 1.5 mm

Smart-Shape plate, ramus bottom right



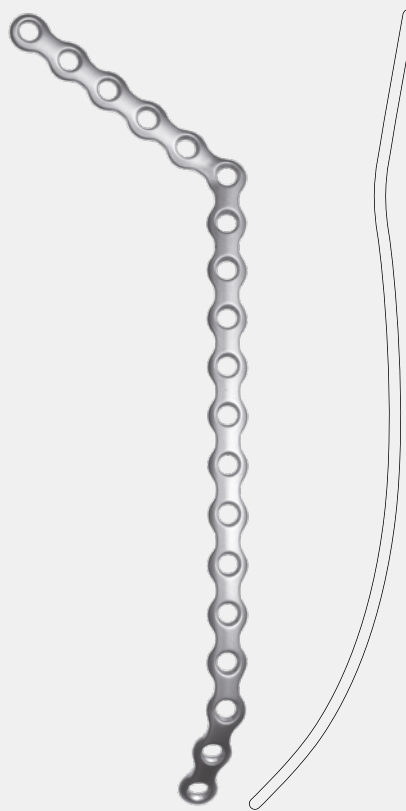
Smart-Shape plates 2.3 mm



51-211-17-09 Ti 1  
 51-211-17-71 Ti 1

$\varnothing = 1.5 \text{ mm}$

Smart-Shape plate, ramus top left



51-211-19-09 Ti 1  
 51-211-19-71 Ti 1

$\varnothing = 1.5 \text{ mm}$

Smart-Shape plate, ramus bottom left

# Implants: Fracture plates

1/1



51-112-04-09   
51-112-04-91   
51-112-04-71   
 = 1.5 mm



51-114-04-09   
51-114-04-91   
51-114-04-71   
 = 1.5 mm



51-110-06-09   
51-110-06-91   
51-110-06-71   
 = 1.5 mm



51-116-06-09   
51-116-06-91   
51-116-06-71   
 = 1.5 mm



51-110-08-09   
51-110-08-91   
51-110-08-71   
 = 1.5 mm



1/1

51-110-16-09   
 51-110-16-91   
 51-110-16-71   
 = 1.5 mm



51-150-06-09   
 51-150-06-91   
 51-150-06-71   
 = 1.5 mm



51-150-08-09   
 51-150-08-91   
 51-150-08-71   
 = 1.5 mm



51-130-04-09   
 51-130-04-91   
 51-130-04-71   
 = 1.5 mm



51-132-04-09   
 51-132-04-91   
 51-132-04-71   
 = 1.5 mm

## Instruments: Screwdrivers and blades

### Screwdrivers and blades


Blades to fit	Length	25-402-99-07*	25-407-03-04 flattened	25-407-04-04* flattened	25-407-05-04*	25-406-99-07	50-425-05-07* rigid, flattened	25-410-00-07 Ratchet	25-411-00-07* Ratchet, flattened
25-434-98-07	2.0/2.3 mm	80 mm	x						
25-540-98-07	2.0/2.3 mm	94 mm		x	x	x	x	x	x
25-491-97-07	2.0/2.3 mm	80 mm	x						
25-486-97-07	2.0/2.3 mm	80 mm		x	x	x	x	x	x
25-486-98-07	2.0/2.3 mm	94 mm		x	x	x	x	x	x

\* For storage in the LevelOne modules





Explanation of icons

-  Stainless steel
-  maxDrive®
-  Centre-Drive®

Measuring clips




25-650-04-04  
Measuring clip for screw length, green




25-651-01-04  
Measuring clip for screw diameter





25-542-17-07  2.0/2.3 mm  
Screwdriver, rigid, not detachable




25-486-17-07  2.0 mm  
Screwdriver, rigid, not detachable

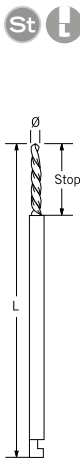


25-422-20-07  2.0 mm  
25-424-20-07  2.0 mm  
Bone graft screwdriver





25-480-20-07   
Retention sleeve for screw explanation

## Instruments: Twist drills

Twist drills				
	J-notch attachment			
	Ø x L (mm)	Stop (mm)		
	1.9 x 70 mm	7	25-460-07-07	1
	1.9 x 70 mm	7	25-460-07-71	1
	1.9 x 70 mm	9	25-460-09-07	1
	1.9 x 70 mm	9	25-460-09-71	1
	1.9 x 70 mm	–	25-460-19-07	1
	1.9 x 70 mm	–	25-460-19-71	1
	1.9 x 105 mm	–	25-462-19-07	1
	1.9 x 105 mm	–	25-462-19-71	1
	1.9 x 105 mm	7	50-519-07-07	1
	1.9 x 105 mm	7	50-519-07-71	1
	1.9 x 105 mm	–	50-519-15-07	1
	1.9 x 105 mm	–	50-519-15-71	1
	1.9 x 115 mm	7	50-519-17-07	1
	1.9 x 115 mm	7	50-519-17-71	1



Explanation of icons

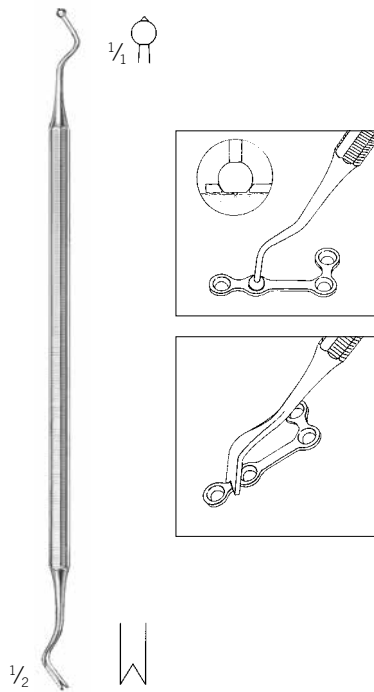
- St** Stainless steel
-  J-notch attachment
-  Dental attachment
- 1** Units per package

**STERILE IR** Sterile packaged implants

**Twist drills**

<b>St</b> 	<b>Dental attachment</b>			
	<b>Ø x L (mm)</b>	<b>Stop (mm)</b>		
	1.8 x 34 x 21mm	19	50-928-00-07	<b>1</b>
	1.8 x 34 x 21mm	19	50-928-00-71	<b>1</b>
	1.8 x 22 mm	9	50-928-09-07	<b>1</b>
	1.8 x 22 mm	9	50-928-09-71	<b>1</b>

## Instruments



25-435-35-09 St 1  
18 cm/7"  
Plate-holding instrument



51-525-80-07 St 1  
18 cm/7"  
Plate-holding forceps



Explanation of icons

- St** Stainless steel
- 1** Units per package



50-325-01-07 **St 1**  
 15 cm/6"  
 Fracture clamp



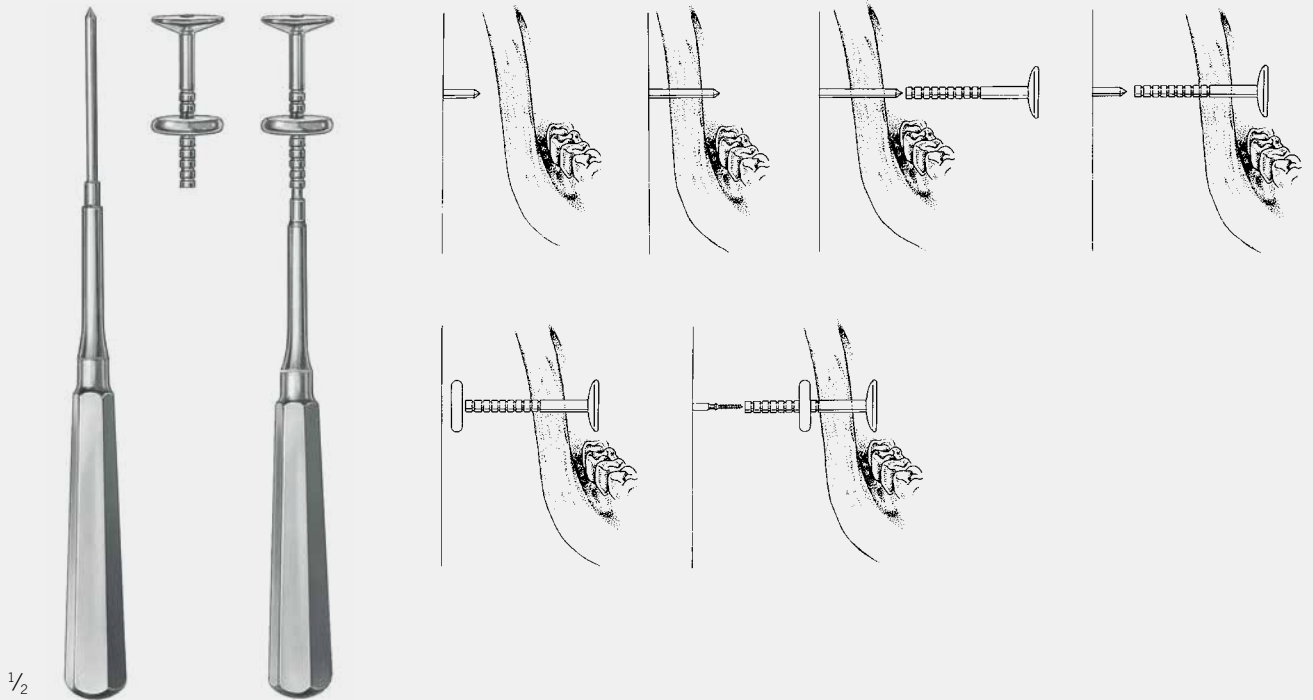
50-501-40-07 **St 1**  
 17 cm/6 3/4"  
 Depth gauge



25-471-00-07 St 1

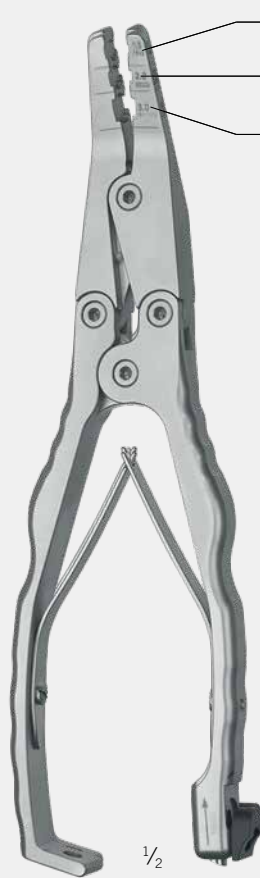
20 cm / 8"

Transbuccal system for 2.0 and 2.3 mm screws, complete  
(incl. trocar and drill sleeve)

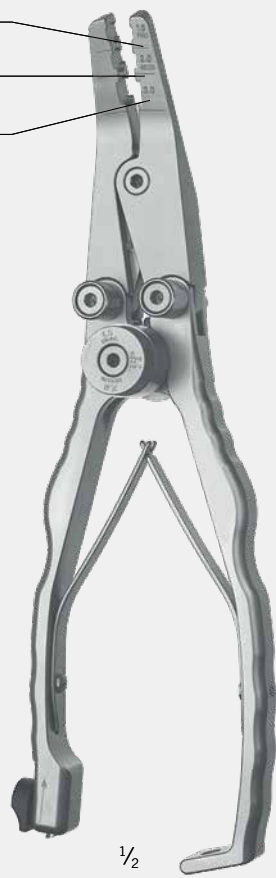


25-474-00-01 St 1

Supplementary instrument for transbuccal  
procedures, complete set



Fracture  
 Primary Recon  
 Recon



50-504-23-07 St 1

22 cm/8 1/2"

Bender-Cutter (A)

Mini	Fracture	Prim. Recon	Recon
	X	X	X

50-504-24-07 St 1

22 cm/8 1/2"

Bender-Cutter (B)

Mini	Fracture	Prim. Recon	Recon
	X	X	X

## Storage: Implants



55-961-09-04

2.3 mm fracture module complete, without implants

55-961-09-04	2.3-mm fracture module, complete, consisting of:
55-962-04-04	Insert module with black module rails
55-963-11-04	Cover for 2.3-mm fracture module
55-964-08-04	Insert for 2.3-mm fracture module
55-964-17-04	Insert, universal

	The insert 55-964-08-04 is prepared for the following implants:
51-110-06-09	Fracture plate, 6-hole
51-110-08-09	Fracture plate, 8-hole
51-110-16-09	Fracture plate, 16-hole
51-112-04-09	Fracture plate, 4-hole, short
51-114-04-09	Fracture plate, 4-hole, long
51-116-06-09	Fracture plate, 6-hole, long
51-130-04-09	Fracture plate, 4-hole, curved, short
51-132-04-09	Fracture plate, 4-hole, curved, long
51-150-06-09	Fracture plate, 6-hole, angled
51-150-08-09	Fracture plate, 8-hole, angled





55-962-14-04  
2,3-mm storage module without lid, without contents



55-962-24-04  
2.3-mm screw storage module without lid

55-963-09-04  
Lid

55-963-08-04  
Lid



55-962-34-04  
Double insert module

## Storage: Instruments



55-969-16-04

Free storage, with lid, without silicone mat  
15 x 30 cm



55-969-14-04

Free storage, with lid, without silicone mat  
30 x 30 cm

### Instrument modules

		Individual components
55-964-15-04	15 x 30 cm	Free storage, without lid
55-964-30-04	30 x 30 cm	Free storage, without lid
55-969-30-04	30 x 30 cm	Multi*, configured, without lid
55-969-49-04	30 x 30 cm	Basic*, configured, without lid
55-963-30-04	30 x 30 cm	Lid
55-969-94-04	15 x 30 cm	Silicone mat for 55-969-16-04
55-969-93-04	30 x 30 cm	Silicone mat for 55-969-14-04

		Module clips
55-969-98-04		to hold 3 racks, left
55-969-99-04		to hold 3 racks, right

\* Multi = Storage prepared for LevelOne multifunctional instruments

\* Basic = Storage prepared for traditional instruments



Figure: possible combination with system 2.0 Mini



55-969-24-04

Multi storage\*, configured, with lid, without instruments  
30 x 30 cm



55-969-59-04

Basic storage\*, configured, with lid, without instruments  
30 x 30 cm

#### Instrument modules

55-969-24-04		Instrument tray Multi, configured, 30 x 30 cm prepared for:
25-402-99-07	2	Screwdriver handle, medium
25-406-99-07	2	Screwdriver handle, large
25-496-15-09	1	Plate-holding forceps
50-205-17-07	2	Plate-holding forceps
50-325-01-07	1	Fracture clamp
50-501-40-07	1	Depth gauge
50-502-10-07	2	Multifunctional pliers for 1.0/1.5/2.0 mm
50-502-11-07	1	Cutter for 1.0/1.5/2.0 mm
50-502-23-07	1	Multifunctional instruments 2.3/2.7 mm Type A
50-502-24-07	1	Multifunctional instruments 2.3/2.7 mm Type B

55-969-59-04		Instrument tray Basic, configured, 30 x 30 cm prepared for:
25-402-99-07	2	Screwdriver handle, medium
25-406-99-07	2	Screwdriver handle, large
25-420-16-07	1	Plate-cutting pliers
25-496-15-09	1	Plate-holding forceps
25-510-12-07	1	Bending pliers KLS Martin Mini System
25-516-13-07	2	Modeling pliers
50-205-17-07	2	Plate-holding forceps
50-325-01-07	1	Fracture clamp
50-502-23-07	1	Multifunctional instrument 2.3/2.7 mm Type A
50-502-24-07	1	Multifunctional instrument 2.3/2.7 mm Type B

**25**

25-402-99-07.....	16,27
25-406-99-07.....	16,27
25-407-03-04.....	16
25-407-04-04.....	16
25-407-05-04.....	16
25-410-00-07.....	16
25-411-00-07.....	16
25-420-16-07.....	27
25-422-20-07.....	17
25-424-20-07.....	17
25-434-98-07.....	16
25-435-35-09.....	20
25-460-07-07.....	18
25-460-07-71.....	18
25-460-09-07.....	18
25-460-09-71.....	18
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25-460-19-71.....	18
25-462-19-07.....	18
25-462-19-71.....	18
25-471-00-07.....	22
25-471-15-07.....	22
25-471-20-07.....	22
25-474-00-01.....	22
25-480-20-07.....	17
25-486-17-07.....	17
25-486-97-07.....	16
25-486-98-07.....	16
25-491-97-07.....	16
25-496-15-09.....	27
25-510-12-07.....	27
25-516-13-07.....	27
25-540-98-07.....	16
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25-874-17-71.....	8

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50-205-17-07.....	27
50-325-01-07.....	21,27
50-425-05-07.....	16
50-501-40-07.....	21,27
50-502-10-07.....	27
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50-928-09-71.....	19

**51**

51-110-06-09.....	14,24
51-110-06-71.....	14
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51-110-08-09.....	24
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51-110-16-09.....	15,24
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51-112-04-91.....	14
51-114-04-09.....	14,24
51-114-04-71.....	14
51-114-04-91.....	14
51-116-06-09.....	14,24
51-116-06-71.....	14
51-116-06-91.....	14
51-130-04-09.....	15,24
51-130-04-71.....	15
51-130-04-91.....	15
51-132-04-09.....	15,24
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