

Osteosynthesis 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.

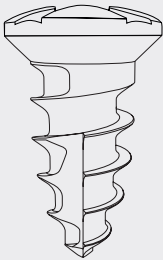
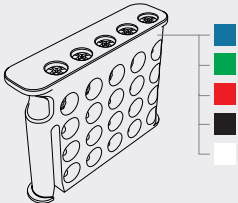
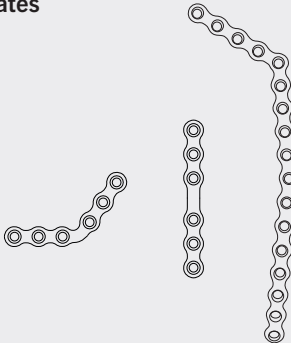
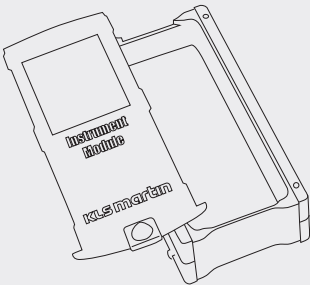
The storage system consists of basic modules, storage modules, and color-coded screw storage packs that can be filled individually and combined according to requirements.

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

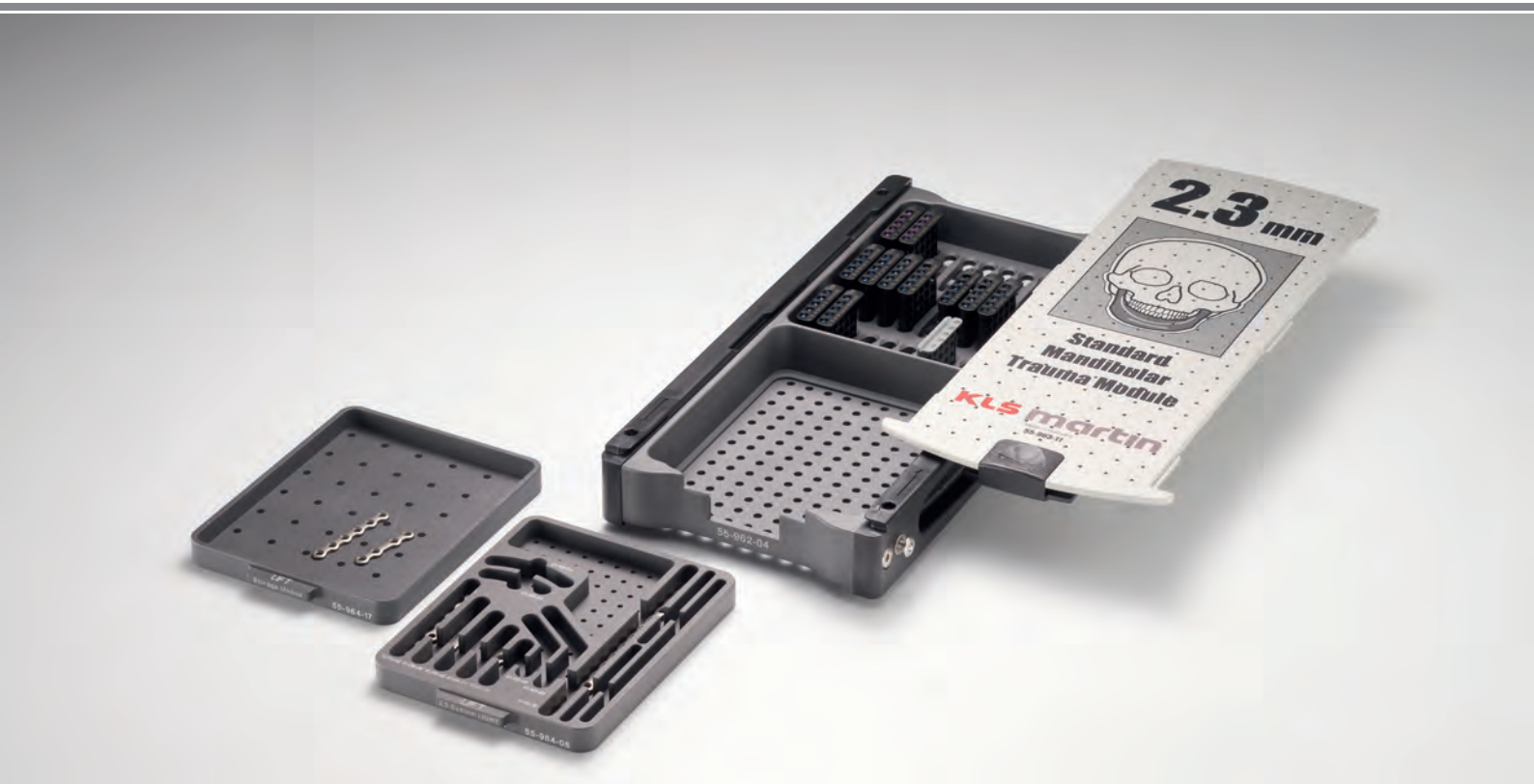
	Feature and Function	Benefit
maxDrive® Screws 	■ Predefined, self-centering self-retaining mechanism ■ Various different designs ■ Standard Ø 2.3 mm ■ Emergency Ø 2.5 mm	■ Easy pick-up and insertion of the screw ■ Can be screwed in at an angle ■ Direct force transfer from the screwdriver blade to the screw ■ Screw variance for multiple application options
Clip magazines and instruments 	■ Color-coded screw clips and instruments	■ Quick and easy identification of corresponding implants and instruments
Plates 	■ Variety of plate designs ■ Universal plate geometries ■ Specific implant designs	■ Versatile coverage of a very wide range of applications
Storage 	■ Freely combinable LevelOne storage modules	■ Compact storage for instruments and implants ■ Flexibility and adaptation to individual customer requirements

LevelOne Fixation

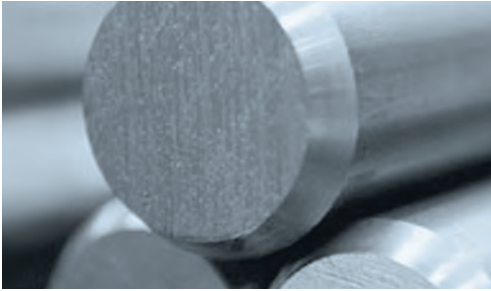
Fields of Use

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 with bone transplants
(however, not for bridging continuity defects)



Overview of Materials

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

Fracture screws 2.3 mm

maxDrive®  

Mini screws Ø 2.3 mm self-retaining

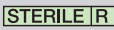
	Ø x L (mm)	maxDrive® 5	STERILE TR 5	STERILE TR 1
	2.3 x 4 mm	25-873-04-09	25-873-04-75	25-873-04-71
	2.3 x 5 mm	25-873-05-09	25-873-05-75	25-873-05-71
	2.3 x 6 mm	25-873-06-09	25-873-06-75	25-873-06-71
	2.3 x 7 mm	25-873-07-09	25-873-07-75	25-873-07-71
	2.3 x 9 mm	25-873-09-09	25-873-09-75	25-873-09-71
	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 TR 5	STERILE TR 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 packaged implants

Centre-Drive®

Mini screws Ø 2.3 mm self-retaining			
	Ø x L (mm)	Centre-Drive®	
	2.3 x 5 mm	25-663-05-09	
	2.3 x 7 mm	25-663-07-09	25-663-07-75
	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

- Ti** Titanium alloy
-  Plate profile
- 1** Units per package

STERILE IR Sterile packaged implants



51-212-17-09 **Ti** **1**

51-212-17-71 **Ti** **1**

 = 1.5 mm

Smart-Shape plate, symphysis top



51-212-18-09 **Ti** **1**

51-212-18-71 **Ti** **1**

 = 1.5 mm

Smart-Shape plate, symphysis bottom



51-213-27-09 **Ti** **1**

51-213-27-71 **Ti** **1**

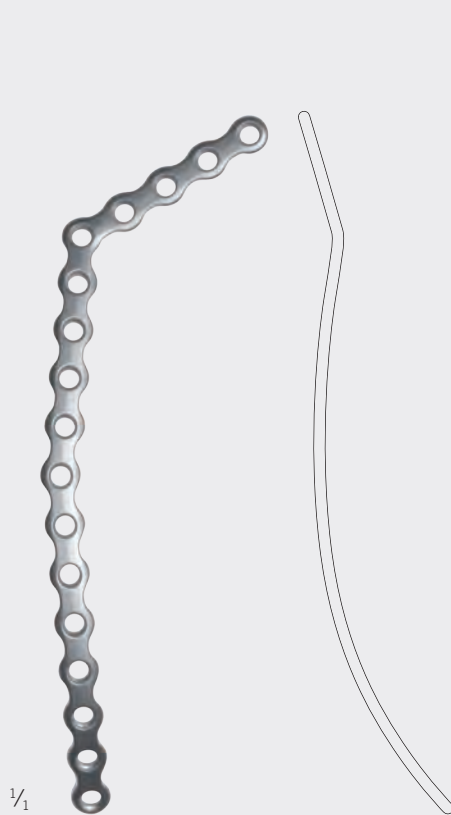
 = 1.5 mm

Smart-Shape plate, 27-hole, straight

Implants: Mandible



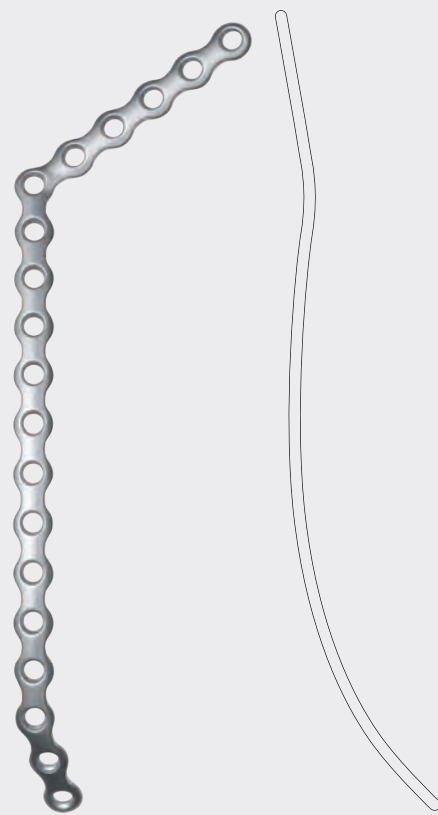
Smart-Shape plates 2.3 mm



51-210-17-09  1
51-210-17-71  1

 = 1.5 mm

Smart-Shape plate, ramus top right



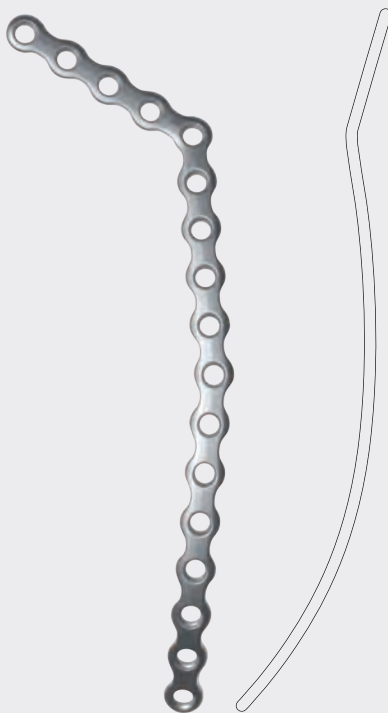
51-210-19-09  1
51-210-19-71  1

 = 1.5 mm

Smart-Shape plate, ramus bottom right



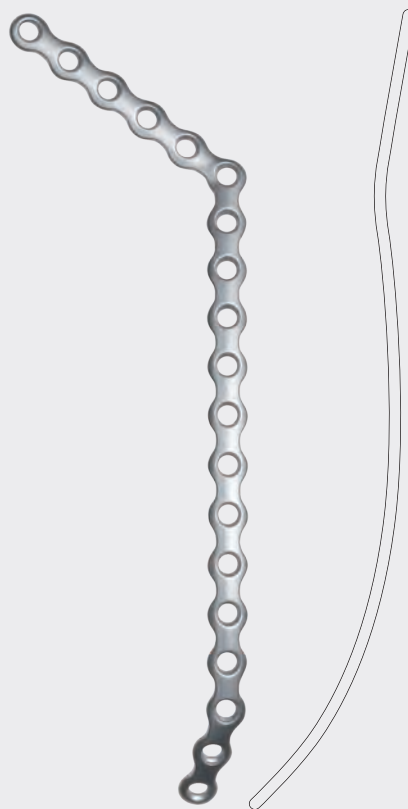
Smart-Shape plates 2.3 mm



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

= 1.5 mm

Smart-Shape plate, ramus top left



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

= 1.5 mm

Smart-Shape plate, ramus bottom left

Implants:
Fracture plates

1/1



51-112-04-09 5
51-112-04-91 1
51-112-04-71 1
 = 1.5 mm



51-114-04-09 5
51-114-04-91 1
51-114-04-71 1
 = 1.5 mm



51-110-06-09 5
51-110-06-91 1
51-110-06-71 1
 = 1.5 mm



51-116-06-09 5
51-116-06-91 1
51-116-06-71 1
 = 1.5 mm



51-110-08-09 5
51-110-08-91 1
51-110-08-71 1
 = 1.5 mm



1/1

51-110-16-09 Ti 5
 51-110-16-91 Ti 1
 51-110-16-71 Ti 1
 1.5 mm



51-150-06-09 Ti 5
 51-150-06-91 Ti 1
 51-150-06-71 Ti 1
 1.5 mm



51-150-08-09 Ti 5
 51-150-08-91 Ti 1
 51-150-08-71 Ti 1
 1.5 mm



51-130-04-09 Ti 5
 51-130-04-91 Ti 1
 51-130-04-71 Ti 1
 1.5 mm



51-132-04-09 Ti 5
 51-132-04-91 Ti 1
 51-132-04-71 Ti 1
 1.5 mm

Instruments: Screwdrivers and blades

Screwdrivers and blades

Centre-Drive®

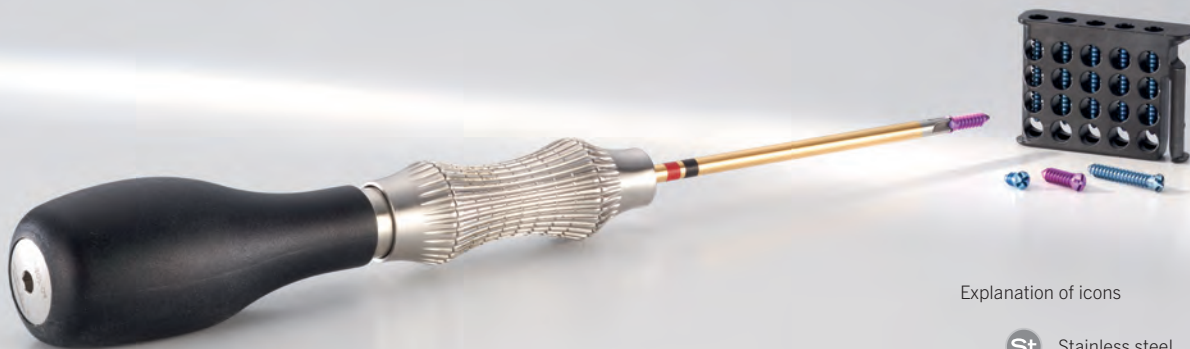
maxDrive®






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	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	x
25-486-98-07	 2.0/2.3 mm	94 mm		x	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, black



25-651-01-04

Measuring clip for screw diameter



1/4

25-542-17-07  2.0/2.3 mm

Screwdriver, rigid, not detachable



1/4

25-486-17-07  2.0 mm

Screwdriver, rigid, not detachable



1/2

25-422-20-07  2.0 mm

25-424-20-07  2.0 mm

Bone graft screwdriver



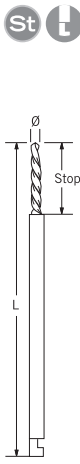
1/2

25-480-20-07  St

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 115 mm	—	50-519-15-07	1
	1.9 x 115 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

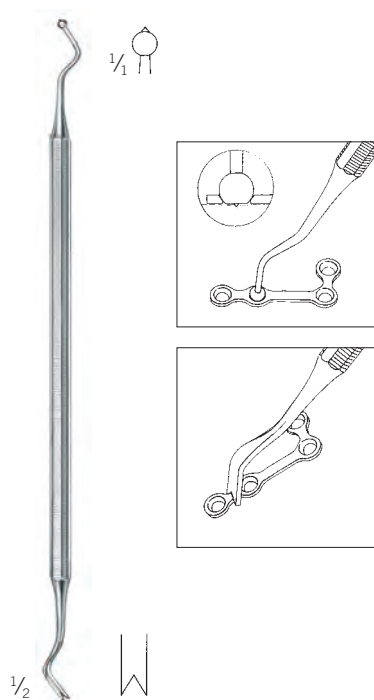
- St** Stainless steel
-  J-notch attachment
-  Dental attachment
- 1** Units per package

STERILE IR Sterile packaged implants

Twist drills

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

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



25-514-13-07 **St** **1**
15 cm/6"
Bending pliers, with pin



1/2



1/2

25-471-15-07
Trocar

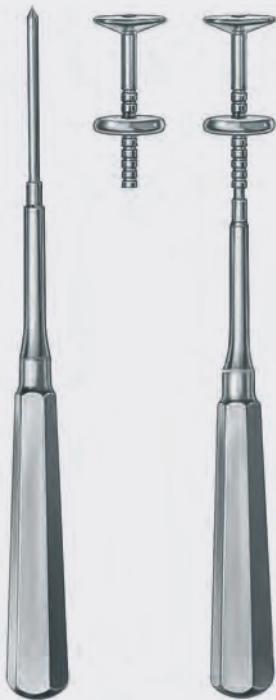


25-471-20-07
Drill sleeve

25-471-00-07 St 1

20 cm / 8"

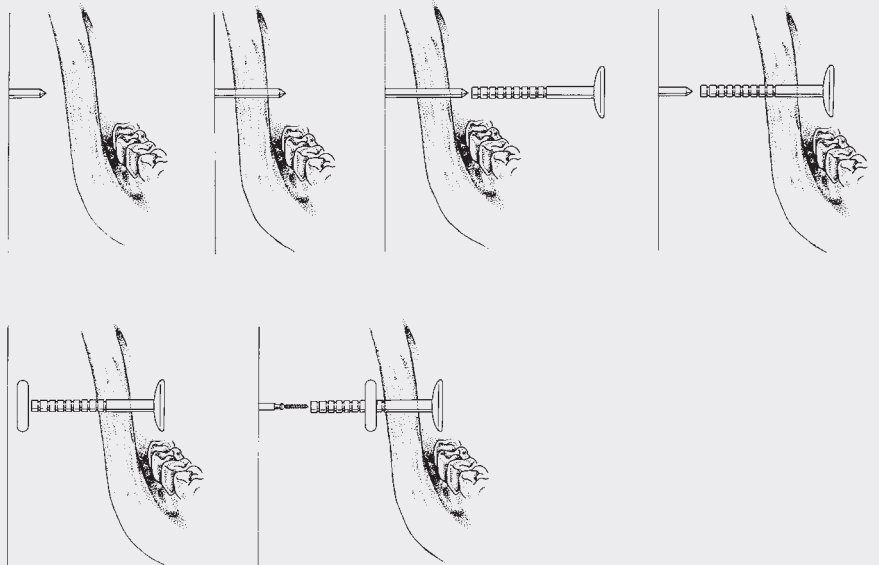
Transbuccal system for 2.0 and 2.3 mm screws, complete
(incl. trocar and drill sleeve)

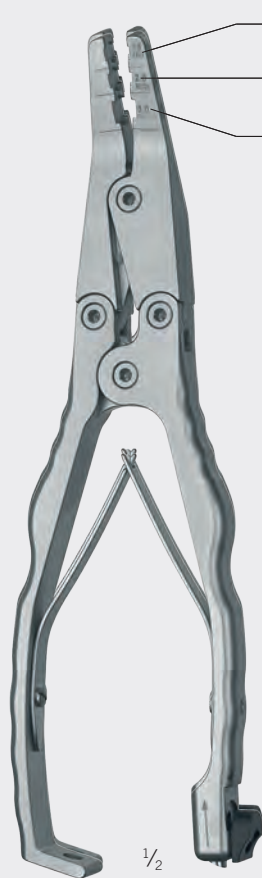


1/2

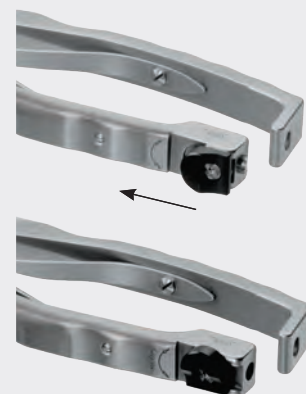
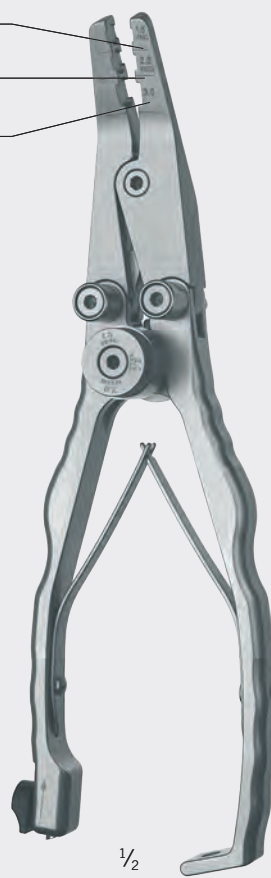
25-474-00-01 St 1

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

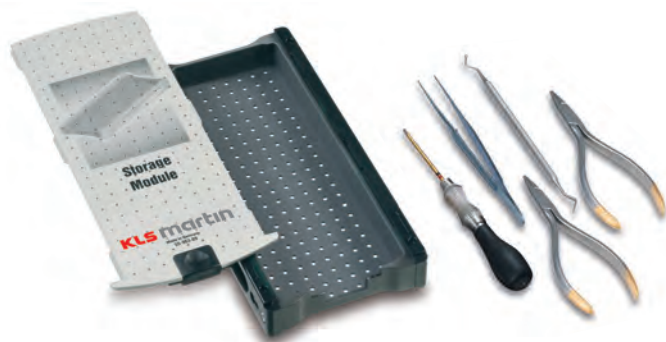


55-961-09-04

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

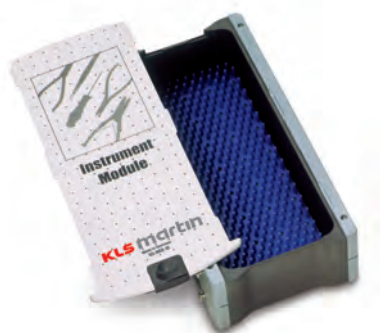
55-963-09-04
Lid

55-963-08-04
Lid



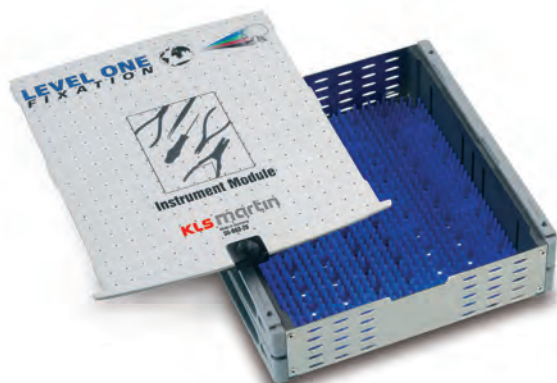
55-962-34-04
Double insert module

Storage: Instruments



55-969-16-04

Free storage, with lid, without silicone mat
24 x 13 cm



55-969-14-04

Free storage, with lid, without silicone mat
24 x 24 cm

Instrument modules

		Individual components
55-964-15-04	24 x 13 cm	Free storage, without lid
55-964-30-04	24 x 24 cm	Free storage, without lid
55-969-30-04	24 x 24 cm	Multi*, configured, without lid
55-969-49-04	24 x 24 cm	Basic*, configured, without lid
55-963-30-04	24 x 24 cm	Lid
55-969-94-04	24 x 13 cm	Silicone mat for 55-969-16-04
55-969-93-04	24 x 24 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



Multi storage*
24 x 24 cm



Basic storage*
24 x 24 cm

Instrument modules

55-969-30-04 55-963-30-04		Instrument tray Multi, configured, 24 x 24 cm Lid 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
50-504-23-07	1	Multifunctional instrument 1.5/2.0/3.0 mm Type A
50-504-24-07	1	Multifunctional instrument 1.5/2.0/3.0 mm Type B

55-969-30-04 55-963-30-04		Instrument tray Basic, configured, 24 x 24 cm Lid 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
50-504-23-07	1	Multifunctional instrument 1.5/2.0/3.0 mm Type A
50-504-24-07	1	Multifunctional instrument 1.5/2.0/3.0 mm Type B

CMF Surgery

SonicWeld Rx®

Resorbable implants for use in craniomaxillofacial osteosynthesis

- Resorb x®
- Resorb xG

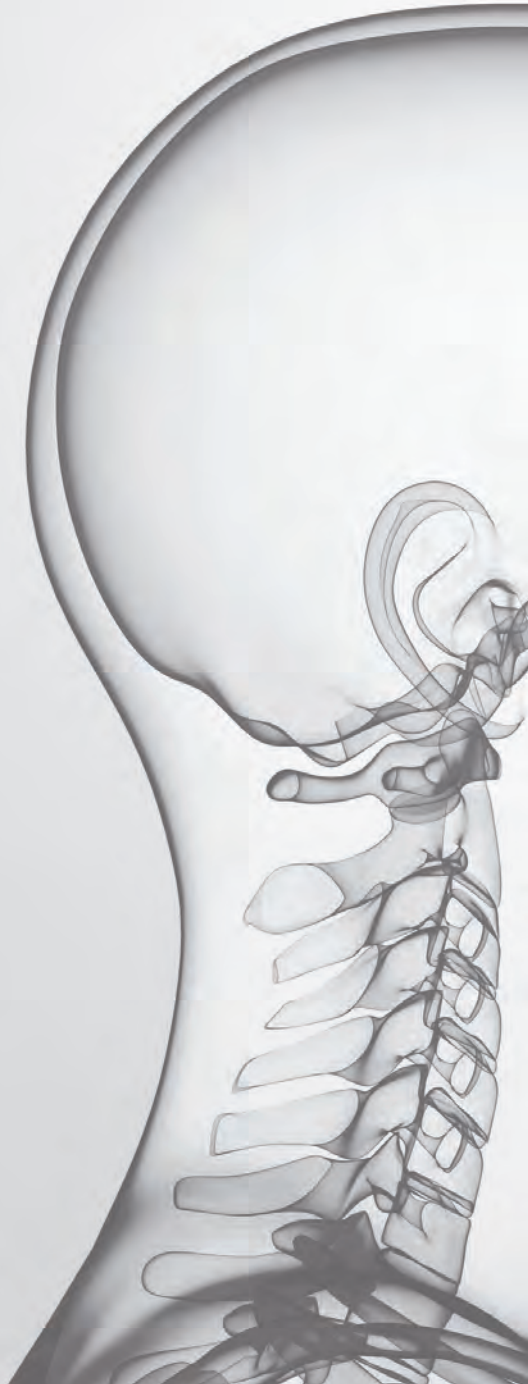


It is the face that makes humans unique and unmistakable –
“There is nothing that more closely reflects the life of an individual than the human face*.”

Our objective is to simplify craniofacial surgery with specially designed implant systems that ensure optimum satisfaction for both surgeon and patient. Together with renowned users we translate new ideas into innovative products and are constantly enhancing them.

Our range of products includes everything necessary for modern craniofacial surgery. We not only set standards but we also go beyond to take advantage of modern technology in the development of solutions customized for the individual patient.

KLS Martin – your competent and reliable partner for both everyday challenges and special challenges.



* © Kurt Haberstich (*1948)

Distractors

Devices for use in correction of malformations

- Cranial distraction
- Midface distraction
- Mandibular distraction



Individual Patient Solutions

Patient-specific solutions for use in craniomaxillofacial surgery

- IPS Implants®
- IPS CaseDesigner®
- IPS Gate®



LevelOne Fixation

Titanium implants and instruments for use in craniomaxillofacial osteosynthesis

- Traumatology
- Reconstruction
- Orthognatic surgery



CMF

App for CMF products

All important information about the CMF portfolio at one glance.



25

25-402-99-07.....	16,27
25-406-99-07.....	16,27
25-407-03-04.....	16
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