

# LOCKING PLATES

- surgical technique -



Locking plates are used for bone osteosynthesis, reconstruction of broken bones, and corrective orthopedic procedures, including TPO, TPLO / CBLO or corrective osteotomy.

**Locking plates SYSTEM 1.5** are intended mainly for treatment of long bone fractures in very small animals up to 4 kg, metacarpal or metatarsal fractures in animals from 4 to 10 kg, fractures of the mandible / jaw in animals up to 10 kg and fractures of ulna in animals up to 7 kg.

**Locking plates SYSTEM 2.0** are intended mainly for treatment of long bone fractures in small animals up to 7 kg, fractures of the scapula in animals from 4 to 11 kg and fractures of the mandible / jaw in animals up to about 22 kg.

**Locking plates SYSTEM 2.4** are intended mainly for treatment of long bone fractures in medium-sized animals weighing from 4 to 12 kg, scapula fractures in animals from 8 to 20 kg and fractures of the mandible / jaw in animals from 12 to 40 kg.

**Locking plates SYSTEM 2.7** are intended mainly for treatment of long bone fractures in medium-sized animals weighing from 6 to 25 kg, scapula fractures in animals from 15 to 35 kg and fractures of the mandible / jaw in animals over 25 kg.

**Locking plates SYSTEM 3.5** are intended mainly for treatment of long bone fractures in animals weighing 15 to 50 kg, scapula fractures in animals over 30 kg.

**Locking plates SYSTEM 4.5** are intended mainly for treatment of long bone fractures in animals weighing over 50 kg or for treatment of fractures in big animals like goats, horses etc.

After recognizing the type of fracture and determining the method of treatment, the appropriate implant for case and patient should be chosen. Before inserting the plate, bone reposition should be done, for this purpose a Kirschner wire can be inserted in intramedullary canal, which in the initial phase of stabilization will help in restoring the bone length and maintaining the axis.

# PLATE SELECTION CHART

Tabela doboru płyt

WEIGHT / waga [kg] ----->		1	2	3	4	5	7	10	12	15	17	20	25	30	35	40	45	50	60	70	80		
<b>METACARPUS / METATARSUS</b> ŚRÓDRĘCZE / ŚRÓDSTOPIE	1.5																						
	2.0																						
	2.4																						
	2.7																						
	3.5																						
<b>TIBIA</b> KOŚĆ PISZCZELOWA	1.5																						
	2.0																						
	2.4																						
	2.7																						
	3.5																						
	3.5+																						
<b>FEMUR</b> KOŚĆ UDOWA	1.5																						
	2.0																						
	2.4																						
	2.7																						
	3.5																						
	3.5+																						
<b>PELVIS / ACETABULUM</b> MIEDNICA / PANEWKA	1.5																						
	2.0																						
	2.4																						
	2.7																						
	3.5																						
	4.5																						
<b>SCAPULA</b> ŁOPATKA	1.5																						
	2.0																						
	2.4																						
	2.7																						
	3.5																						
<b>MANDIBLE / MAXILLA</b> ŻUCHWA / SZCZĘKA	1.5																						
	2.0																						
	2.4																						
	2.7																						
<b>HUMERUS</b> KOŚĆ RAMIENNA	1.5																						
	2.0																						
	2.4																						
	2.7																						
	3.5																						
	3.5+																						
<b>RADIUS</b> KOŚĆ PROMIENIOWA	1.5																						
	2.0																						
	2.4																						
	2.7																						
	3.5																						
	3.5+																						
<b>ULNA</b> KOŚĆ ŁOKCIOWA	1.5																						
	2.0																						
	2.4																						
	2.7																						
	3.5																						

SYSTEMS / systemy ----->

1.5

2.0

2.4

2.7

3.5

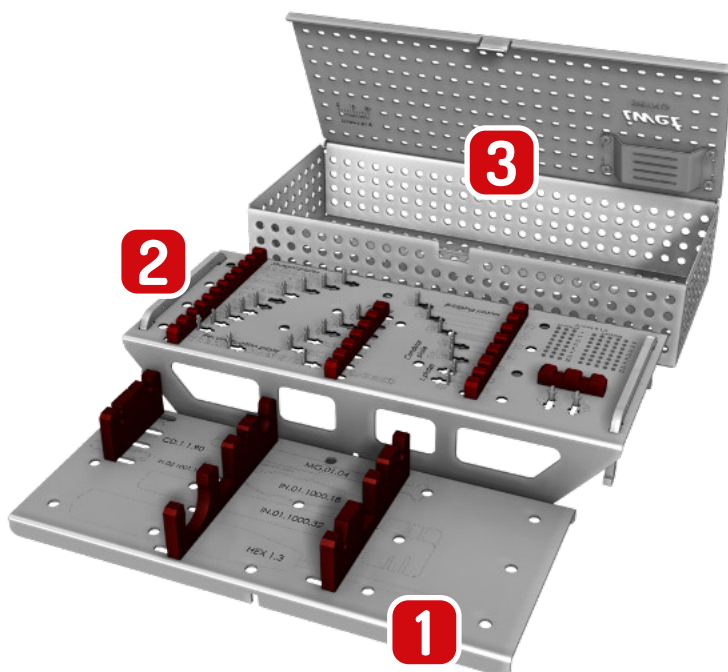
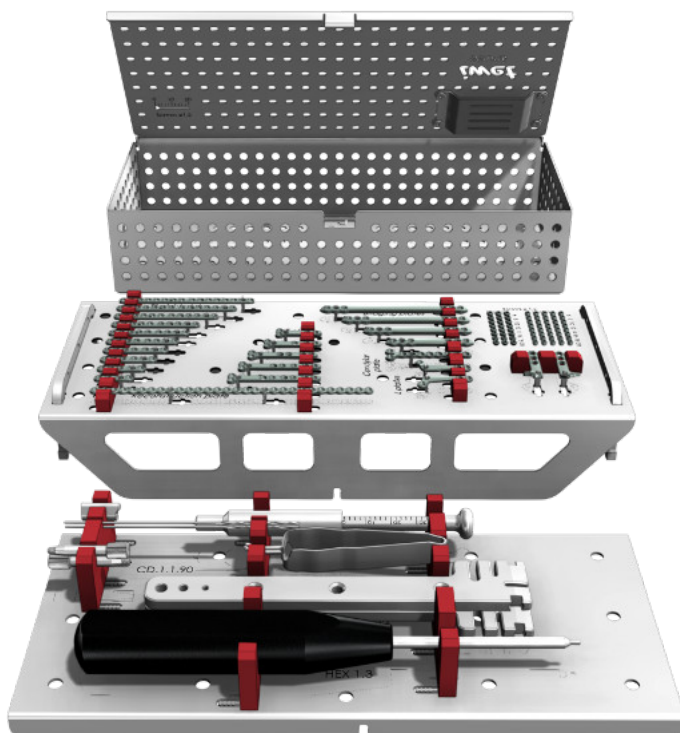
3.5+

4.5



# 1.5

## SYSTEM



## Instrument set for locking plates

Zestaw instrumentarium - płytki blokowane

	REF
<b>Threaded drill guide <math>\phi</math>1.1 (x2)</b> TULEJKA WIERTARSKA GWINTOWANA $\phi$ 1.1 (X2)	IN.02.1001.1115
<b>Compression drill sleeve <math>\phi</math>1.1</b> TULEJKA WIERTARSKA KOMPRESYJNA $\phi$ 1.1	IN.02.1002.11
<b>Drill bit <math>\phi</math>1.1 x 90 (x2)</b> WIERTŁO $\phi$ 1.1 X 90 (X2)	CD.1.1.90
<b>Screwdriver HEX 1.3</b> WKRETAK STOŻKOWY HEX 1.3	IN.01T.1000.17.13
<b>Depth gauge</b> MIARKA GRUBOŚCI KOŚCI	MG.01.04
<b>Universal bending irons (x2)</b> WYGINAKI UNIWERSALNE (X2)	IN.01.1000.32
<b>Tweezers for screws</b> PESETA DO WKRETOW	IN.01.1000.18
<b>SET OF STERILIZATION CONTAINERS AND TRAYS</b> ZESTAW: KONTENER I PALETY STERYLIZACYJNE	IZ.01.1004



Sys 1.5



**SET WITHOUT IMPLANTS**  
ZESTAW BEZ IMPLANTÓW

IZ.01.1004.0

Sys 1.5



**SET WITH IMPLANTS**  
ZESTAW Z IMPLANTAMI

IZ.01.1004.Z

## LCP Containers and trays - for sterilization

Kontener i palety LCP - do sterylizacji

REF	IZ.01.1004
<b>Sterilization tray for instruments</b> PALETA DO STERYLIZACJI INSTRUMENTARIUM	<b>1</b>
<b>Sterilization tray for implants</b> PALETA DO STERYLIZACJI IMPLANTÓW	<b>2</b>
<b>Sterilization container for implants and instruments</b> KONTENER DO STERYLIZACJI IMPLANTÓW I INSTRUMENTARIUM	<b>3</b>

WYMIARY / DIMENSIONS

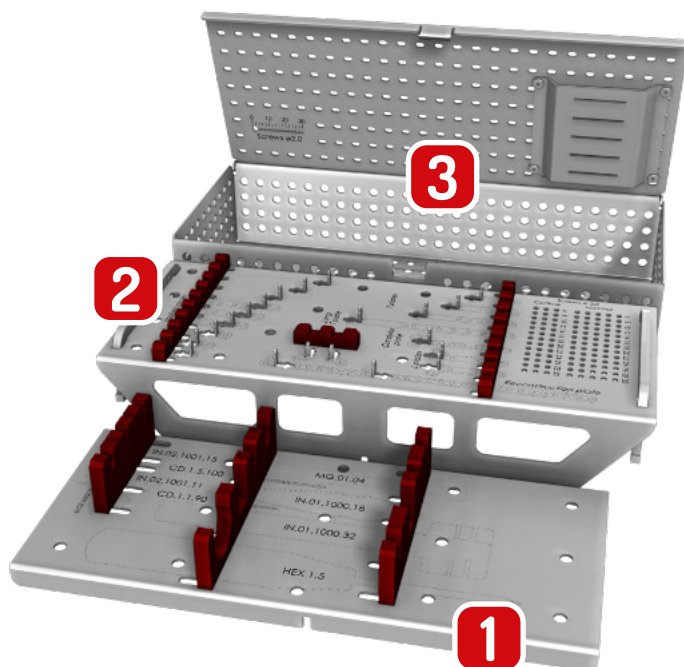
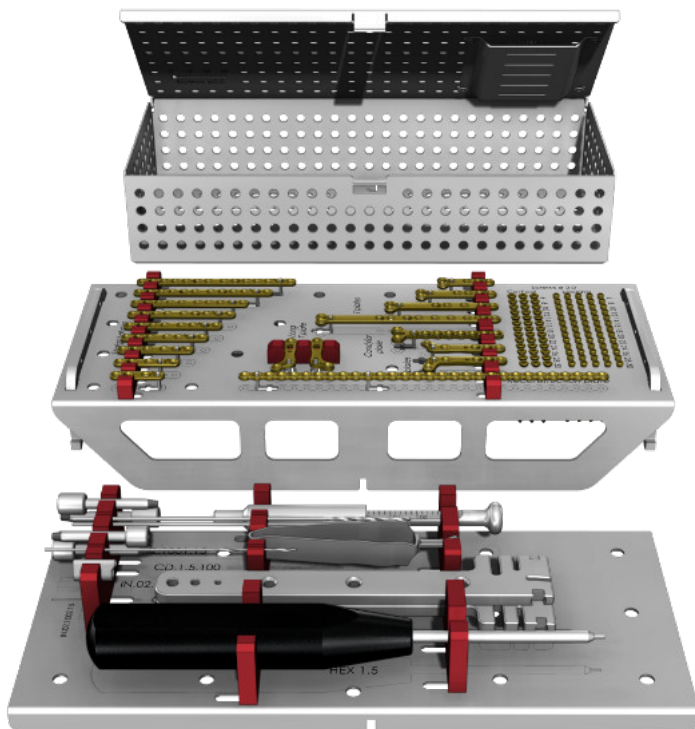
255x108x54

Sys 1.5



# 2.0

## SYSTEM



## Instrument set for locking plates

Zestaw instrumentarium - płytki blokowane

	REF
<b>Threaded drill guide <math>\phi 1.5</math> (x2)</b> TULEJKA WIERTARSKA GWINTOWANA $\phi 1.5$ (x2)	IN.02.1001.15
<b>Threaded drill guide <math>\phi 1.1</math> (x2)</b> TULEJKA WIERTARSKA GWINTOWANA $\phi 1.1$ (x2)	IN.02.1001.11
<b>Compression drill sleeve <math>\phi 1.5</math></b> TULEJKA WIERTARSKA KOMPRESYJNA $\phi 1.5$	IN.02.1002.15
<b>Drill bit <math>\phi 1.1 \times 90</math></b> WIERTŁO $\phi 1.1 \times 90$	CD.1.1.90
<b>Drill bit <math>\phi 1.5 \times 100</math> (x2)</b> WIERTŁO $\phi 1.5 \times 100$ (x2)	CD.1.5.100
<b>Screwdriver HEX 1.5</b> WKRETAK STOŻKOWY HEX 1.5	IN.01T.1000.17.15
<b>Depth gauge</b> MIARKA GRUBOŚCI KOŚCI	MG.01.04
<b>Universal bending irons (x2)</b> WYGINAKI UNIWERSALNE (x2)	IN.01.1000.32
<b>Tweezers for screws</b> PESETA DO WKRETOW	IN.01.1000.18
<b>SET OF STERILIZATION CONTAINERS AND TRAYS</b> ZESTAW: KONTENER I PALETY STERYLIZACYJNE	IZ.01.1003



Sys 2.0



**SET WITHOUT IMPLANTS**  
ZESTAW BEZ IMPLANTÓW

IZ.01.1003.0

Sys 2.0



**SET WITH IMPLANTS**  
ZESTAW Z IMPLANTAMI

IZ.01.1003.Z

## LCP Containers and trays - for sterilization

Kontener i palety LCP - do sterylizacji

REF	IZ.01.1003
<b>Sterilization tray for instruments</b> PALETA DO STERYLIZACJI INSTRUMENTARIUM	<b>1</b>
<b>Sterilization tray for implants</b> PALETA DO STERYLIZACJI IMPLANTÓW	<b>2</b>
<b>Sterilization container for implants and instruments</b> KONTENER DO STERYLIZACJI IMPLANTÓW I INSTRUMENTARIUM	<b>3</b>

Sys 2.0



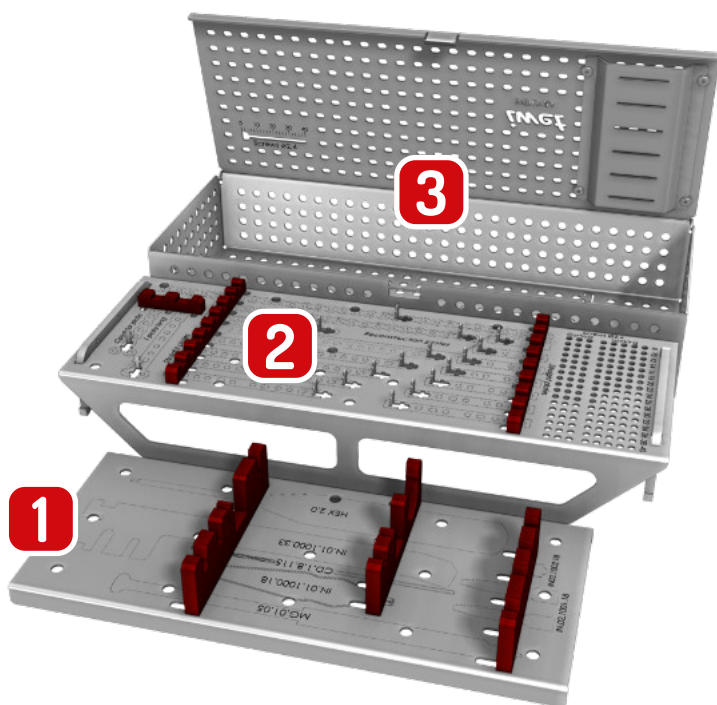
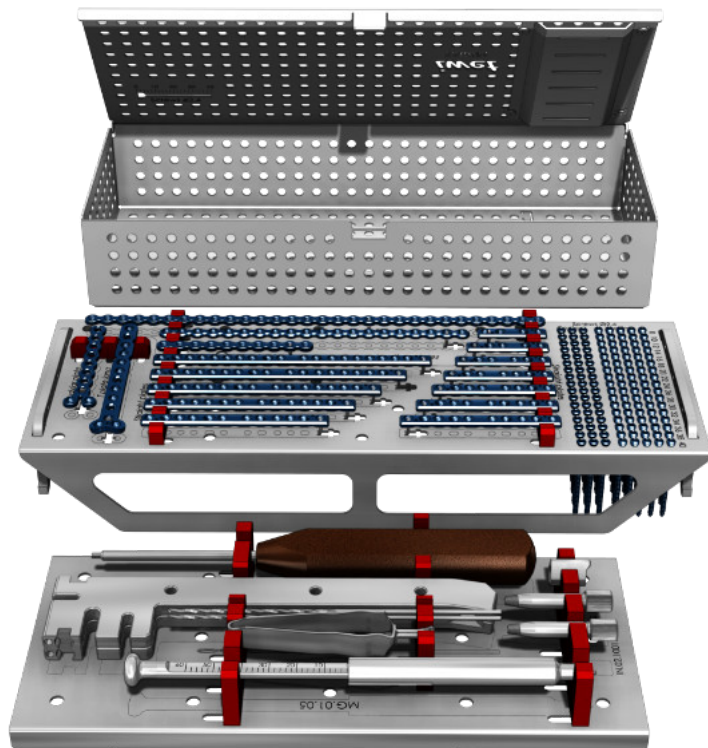
WYMIARY / DIMENSIONS

255x108x54



# 2.4

## SYSTEM

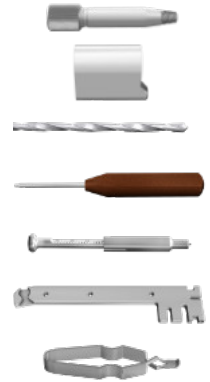




## Instrument set for locking plates

Zestaw instrumentarium - płytki blokowane

	REF
<b>Threaded drill guide <math>\phi</math>1.8 (x2)</b> TULEJKA WIERTARSKA GWINTOWANA $\phi$ 1.8 (x2)	IN.02.1001.18
<b>Compression drill sleeve <math>\phi</math>1.8</b> TULEJKA WIERTARSKA KOMPRESYJNA $\phi$ 1.8	IN.02.1002.18
<b>Drill bit <math>\phi</math>1.8 x 115 (x2)</b> WIERTŁO $\phi$ 1.8 X 115 (x2)	CD.1.8.115
<b>Screwdriver HEX 2.0</b> WKREŃAK STOŻKOWY HEX 2.0	IN.01T.1000.17.20
<b>Depth gauge</b> MIARKA GRUBOŚCI KOŚCI	MG.01.05
<b>Universal bending irons (x2)</b> WYGINAKI UNIWERSALNE (x2)	IN.01.1000.33
<b>Tweezers for screws</b> PESETA DO WKREŃTÓW	IN.01.1000.18
<b>SET OF STERILIZATION CONTAINERS AND TRAYS</b> ZESTAW: KONTENER I PALETY STERYLIZACYJNE	IZ.01.1000



**SET WITHOUT IMPLANTS**  
ZESTAW BEZ IMPLANTÓW

IZ.01.1000.0



**SET WITH IMPLANTS**  
ZESTAW Z IMPLANTAMI

IZ.01.1000.Z

## LCP Containers and trays - for sterilization

Kontener i palety LCP - do sterylizacji

REF	IZ.01.1000
<b>Sterilization tray for instruments</b> PALETA DO STERYLIZACJI INSTRUMENTARIUM	<b>1</b>
<b>Sterilization tray for implants</b> PALETA DO STERYLIZACJI IMPLANTÓW	<b>2</b>
<b>Sterilization container for implants and instruments</b> KONTENER DO STERYLIZACJI IMPLANTÓW I INSTRUMENTARIUM	<b>3</b>

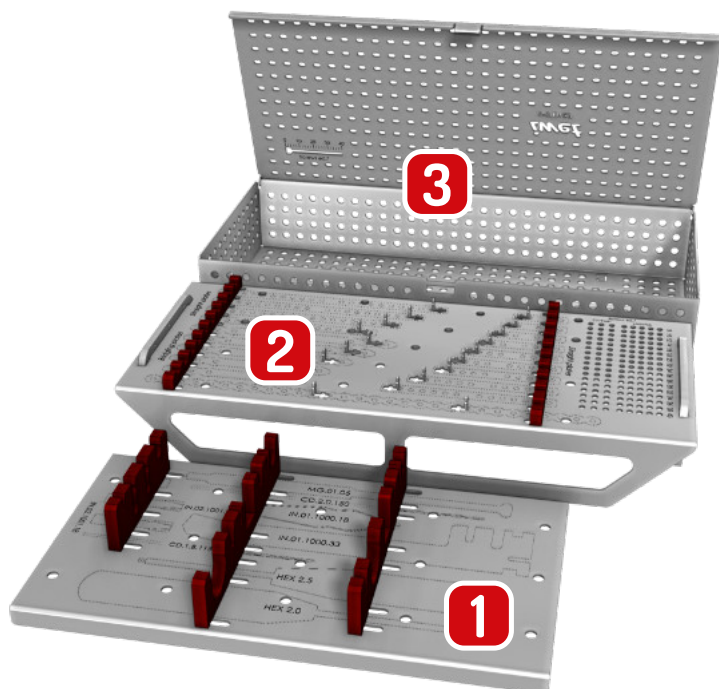
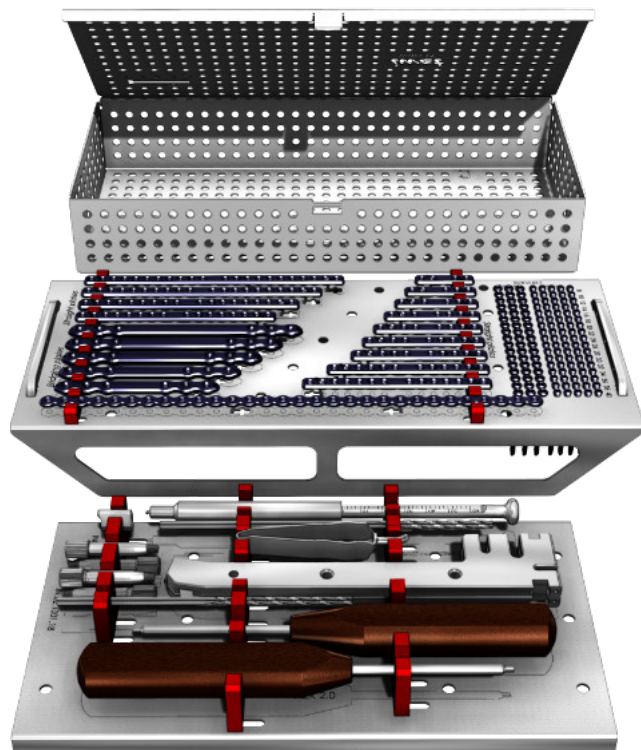


WYMIARY / DIMENSIONS

290x112x54

# 2.7

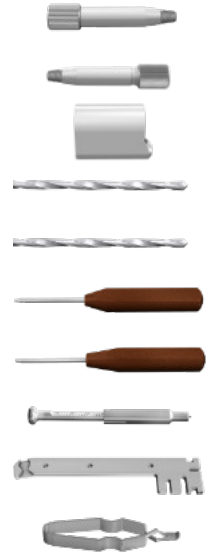
## SYSTEM



## Instrument set for locking plates

Zestaw instrumentarium - płytki blokowane

	REF
<b>Threaded drill guide <math>\varnothing 2.0</math> (x2)</b> TULEJKA WIERTARSKA GWINTOWANA $\varnothing 2.0$ (x2)	IN.02.1001.20
<b>Threaded drill guide <math>\varnothing 1.8</math> (x2)</b> TULEJKA WIERTARSKA GWINTOWANA $\varnothing 1.8$ (x2)	IN.02.1001.18
<b>Compression drill sleeve <math>\varnothing 2.0</math></b> TULEJKA WIERTARSKA KOMPRESYJNA $\varnothing 2.0$	IN.02.1002.20
<b>Drill bit <math>\varnothing 2.0 \times 150</math> (x2)</b> WIERTŁO $\varnothing 2.0 \times 150$ (x2)	CD.2.0.150
<b>Drill bit <math>\varnothing 1.8 \times 115</math> (x2)</b> WIERTŁO $\varnothing 1.8 \times 115$ (x2)	CD.1.8.115
<b>Screwdriver HEX 2.0</b> WKRETAK STOŻKOWY HEX 2.0	IN.01T.1000.17.20
<b>Screwdriver HEX 2.5</b> WKRETAK STOŻKOWY HEX 2.5	IN.01T.1000.17.25
<b>Depth gauge</b> MIARKA GRUBOŚCI KOŚCI	MG.01.05
<b>Universal bending irons (x2)</b> WYGINAKI UNIWERSALNE (x2)	IN.01.1000.33
<b>Tweezers for screws</b> PESETA DO WKRETAW	IN.01.1000.18
<b>SET OF STERILIZATION CONTAINERS AND TRAYS</b> ZESTAW: KONTENER I PALETY STERYLIZACYJNE	IZ.01.1001



Sys 2.7



**SET WITHOUT IMPLANTS**  
ZESTAW BEZ IMPLANTÓW

IZ.01.1001.0

Sys 2.7



**SET WITH IMPLANTS**  
ZESTAW Z IMPLANTAMI

IZ.01.1001.Z

## LCP Containers and trays - for sterilization

Kontener i palety LCP - do sterylizacji

REF	IZ.01.1001
<b>Sterilization tray for instruments</b> PALETA DO STERYLIZACJI INSTRUMENTARIUM	1
<b>Sterilization tray for implants</b> PALETA DO STERYLIZACJI IMPLANTÓW	2
<b>Sterilization container for implants and instruments</b> KONTENER DO STERYLIZACJI IMPLANTÓW I INSTRUMENTARIUM	3

WYMIARY / DIMENSIONS

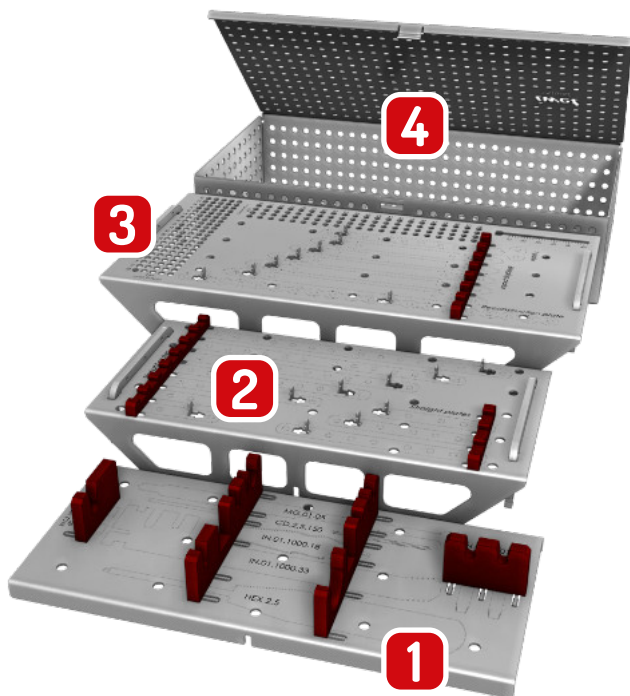
305x139x54

Sys 2.7



# 3.5

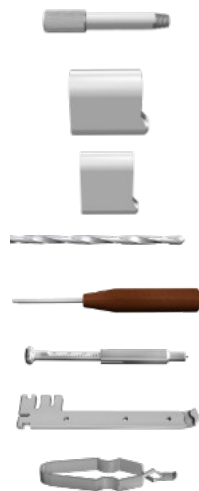
## SYSTEM



## Instrument set for locking plates

Zestaw instrumentarium - płytki blokowane

	REF
<b>Threaded drill guide ø2.5 (x2)</b> TULEJKA WIERTARSKA GWINTOWANA Ø2.5 (X2)	IN.02.1001.25
<b>Compression drill sleeve ø2.5 anatomical locking TPL0 plates</b> TULEJKA WIERTARSKA KOMPRESYJNA Ø2.5 PŁYTKI TPL0 ANATOMICZNE BLOKOWANE	IN.02.1002.2568
<b>Compression drill sleeve ø2.5</b> TULEJKA WIERTARSKA KOMPRESYJNA Ø2.5	IN.02.1002.25108
<b>Drill bit ø2.5 x 150 (x2)</b> WIERTŁO Ø2.5 X 150 (X2)	CD.2.5.150
<b>Screwdriver HEX 2.5</b> WKRETAK STOŻKOWY HEX 2.5	IN.01T.1000.1725
<b>Depth gauge</b> MIARKA GRUBOŚCI KOŚCI	MG.01.05
<b>Universal bending irons (x2)</b> WYGINAKI UNIWERSALNE (X2)	IN.01.1000.33
<b>Tweezers for screws</b> PEŚETA DO WKRETAW	IN.01.1000.18
<b>SET OF STERILIZATION CONTAINERS AND TRAYS</b> ZESTAW: KONTENER I PALETY STERYLIZACYJNE	IZ.01.1002



Sys 3.5



**SET WITHOUT IMPLANTS**  
ZESTAW BEZ IMPLANTÓW

IZ.01.1002.0

Sys 3.5



**SET WITH IMPLANTS**  
ZESTAW Z IMPLANTAMI

IZ.01.1002.Z

## LCP Containers and trays - for sterilization

Kontener i palety LCP - do sterylizacji

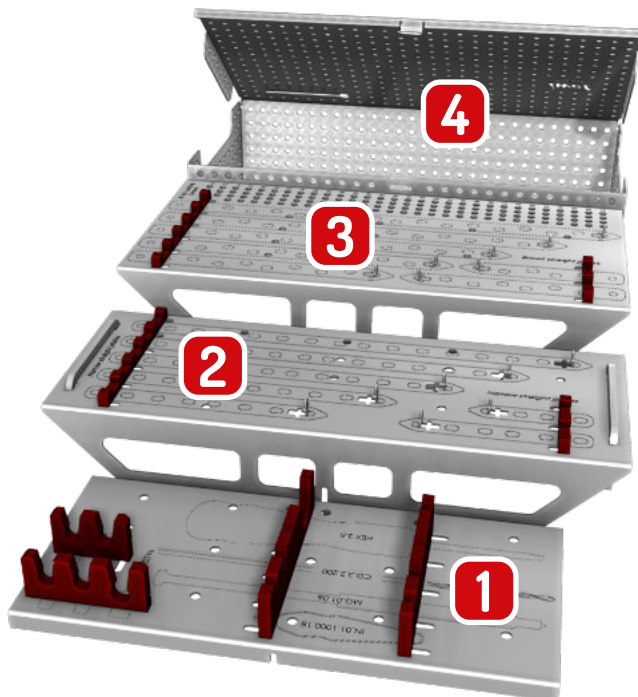
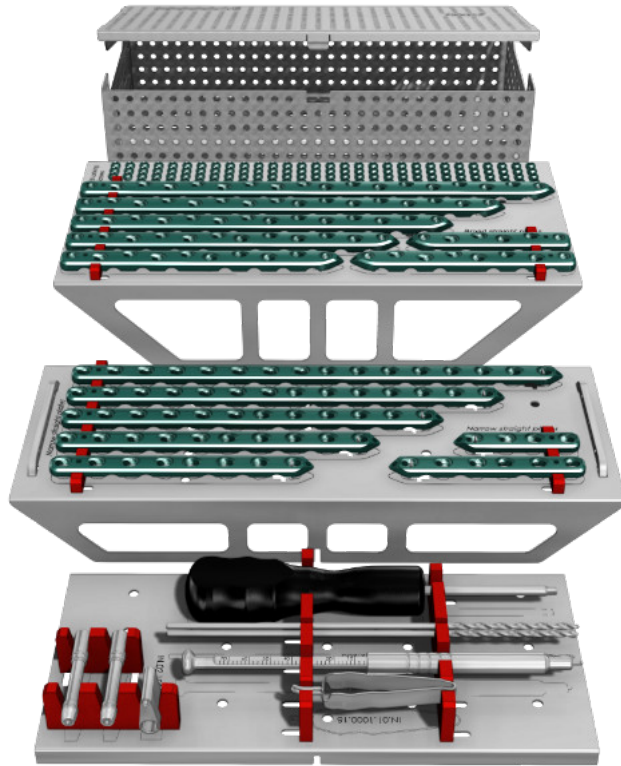
REF	IZ.01.1002
<b>Sterilization tray for instruments</b> PALETA DO STERYLIZACJI INSTRUMENTARIUM	<b>1</b>
<b>Sterilization tray for implants</b> PALETA DO STERYLIZACJI IMPLANTÓW	<b>2</b>
<b>Sterilization tray for implants</b> PALETA DO STERYLIZACJI IMPLANTÓW	<b>3</b>
<b>Sterilization container for implants and instruments</b> KONTENER DO STERYLIZACJI IMPLANTÓW I INSTRUMENTARIUM	<b>4</b>

WYMIARY / DIMENSIONS

305x160x70

Sys 3.5





## Instrument set for locking plates

Zestaw instrumentarium - płytki blokowane

	REF
Threaded drill guide $\varnothing 3.2$ (x2) TULEJKA WIERTARSKA GWINTOWANA $\varnothing 3.2$ (x2)	IN.02.1001.32
Compression drill sleeve $\varnothing 3.2$ TULEJKA WIERTARSKA KOMPRESYJNA $\varnothing 3.2$	IN.02.1002.32
Drill bit $\varnothing 3.2 \times 200$ (x2) WIERTŁO $\varnothing 3.2 \times 200$ (x2)	CD.3.2.200
Screwdriver HEX 3.5 WKREŃAK STOŻKOWY HEX 3.5	IN.01T.1000.17.35
Depth gauge MIARKA GRUBOŚCI KOŚCI	MG.01.06
Tweezers for screws PEŚETA DO WKREŃÓW	IN.01.1000.18
<b>SET OF STERILIZATION CONTAINERS AND TRAYS</b> ZESTAW: KONTENER I PALETY STERYLIZACYJNE	<b>IZ.01.1005</b>



Sys 4.5



**SET WITHOUT IMPLANTS**  
ZESTAW BEZ IMPLANTÓW

IZ.01.1005.0

Sys 4.5



**SET WITH IMPLANTS**  
ZESTAW Z IMPLANTAMI

IZ.01.1005.Z

## LCP Containers and trays - for sterilization

Kontener i palety LCP - do sterylizacji

REF	IZ.01.1005
Sterilization tray for instruments PALETA DO STERYLIZACJI INSTRUMENTARIUM	<b>1</b>
Sterilization tray for implants PALETA DO STERYLIZACJI IMPLANTÓW	<b>2</b>
Sterilization tray for implants PALETA DO STERYLIZACJI IMPLANTÓW	<b>3</b>
Sterilization container for implants and instruments KONTENER DO STERYLIZACJI IMPLANTÓW I INSTRUMENTARIUM	<b>4</b>
WYMIARY / DIMENSIONS	<b>330x170x80</b>

Sys 4.5



## Bone plate bending press \*

Prasa do gięcia płytek

REF
IN.06.1000.1



\* / RECOMMENDED FOR SYS 2.7/3.5/4.5  
Rekomendowana do sys 2.7/3.5/4.5





## A0 quick coupling screwdriver handle with torque limiter

Wkrętak dynamometryczny z chwytem A0

TRZPIEŃ SHAFT SIZE	SYSTEM SYSTEM	MOMENT TORQUE	REF
HEX 2.0	2,4 / 2,7	0,8 Nm	IN.08.1002.08
HEX 2.5	3,5	1,5 Nm	IN.08.1002.15



## A0 quick coupling torque limiter adapter

Prześciówka dynamometryczna z chwytem A0

TRZPIEŃ SHAFT SIZE	SYSTEM SYSTEM	MOMENT TORQUE	REF
HEX 1.3/1.5	1,5 / 2,0	0,4 Nm	IN.08.1001.04



## Drill guides for compression holes

Prowadniki wiertła do otworów kompresyjnych

Ø WIERTŁA Ø OF DRILL BIT	Ø WKRETA Ø OF SCREW	REF
1,1	1,5	PW.02.11
1,5	2,0	PW.02.15
1,8	2,4	PW.02.18
2,0	2,7	PW.02.20
2,5	3,5	PW.02.25



## LOCKING SCREW INSERTING



1.

To insert locking screw stabilizing bone fractures, screw in the appropriate drill sleeve for the locking screws in the threaded hole.

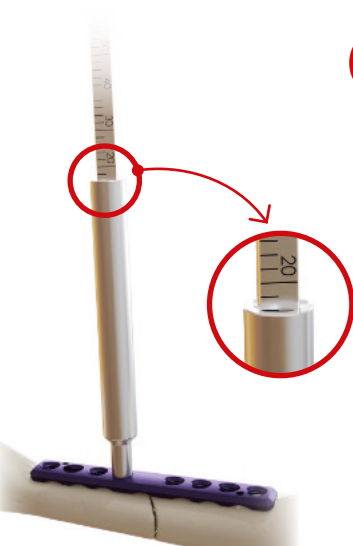
Screw diameter	1.5	2.0	2.4	2.7	3.5	4.5
Drill sleeve	1.1	1.5	1.8	2.0	2.5	3.2



2.

Drill a hole for locking screw by proper drill bit through two layers of cortical bone.

Screw diameter	1.5	2.0	2.4	2.7	3.5	4.5
Drill bit	1.1	1.5	1.8	2.0	2.5	3.2



3.

To measure the length of the screw, remove the drill bit and the guide sleeve, then in the drilled hole place the appropriate depth gauge. The hook should be led through two cortical bones, so that its bent part rests against the outer side of the second cortex. Touch the surface of the plate. From the scale, read the bone thickness with the bone plate. In order to ensure maximum fixing, to the result add 2-3mm (measured value is 16mm, add 2-3mm, so screw length should be around 18mm).

Screw diameter	1.5	2.0	2.4	2.7	3.5	4.5
Depth gauge	MG.01.04		MG.01.05			MG.01.06



0.4 Nm



0.8 Nm



1.5 Nm



4.

Using a dedicated screwdriver, screw in the locking screw, remembering not to tighten the screw by force, if the instrument set is equipped with a torque limit screwdriver, it should be used.

Ø of screw	1.5	2.0	2.4	2.7	3.5	4.5
Screwdriver	HEX 1.3	HEX 1.5	HEX 2.0	HEX 2.5	HEX 2.5	HEX 3.5
Torque	0.4 Nm	0.8 Nm	0.8 Nm	1.5 Nm	1.5 Nm	4 Nm
Torque limiter	IN.08.1001.04	IN.08.1002.08	IN.08.1002.08	IN.08.1002.15	IN.08.1002.15	

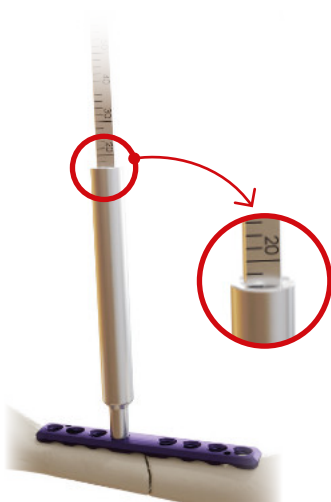
## CORTICAL SCREW INSERTING



1.

Drill a hole for the cortical screw by proper drill bit through two layers of cortical bone.

Screw diameter	1.5	2.0	2.4	2.7	3.5	4.5
Drill bit	1.1	1.5	1.8	2.0	2.5	3.2



2.

To measure the length of the screw, remove the drill bit and the guide sleeve, then in the drilled hole place the appropriate depth gauge. The hook should be led through two cortical bones, so that its bent part rests against the outer side of the second cortex. Touch the surface of the plate. From the scale, read the bone thickness with the bone plate. In order to ensure maximum fixing, to the result add 2-3mm (measured value is 16mm, add 2-3mm, so screw length should be around 18mm).

Screw diameter	1.5	2.0	2.4	2.7	3.5	4.5
Depth gauge	MG.01.04	MG.01.05	MG.01.05	MG.01.05	MG.01.05	MG.01.06



3.

Using a dedicated screwdriver, screw in the cortical screw, remembering that over tightening can lead to damaging the connections between the screw and the bone and breaking the thread.

Screw diameter	1.5	2.0	2.4	2.7	3.5	4.5
Screwdriver	HEX 1.5	HEX 2.0	HEX 2.5	HEX 2.5	HEX 3.5	HEX 3.5

## COMPRESSION BY LOCKING SCREW



1.

To insert the locking screw in the compression position, put the drilling sleeve for compression screws on the drilling sleeve for locking screws. (The pointed side of the compression screw drilling sleeve should be directed towards the plate) Then screw the drilling sleeve in the nearest threaded hole on the compression side of the locking - compression hole.

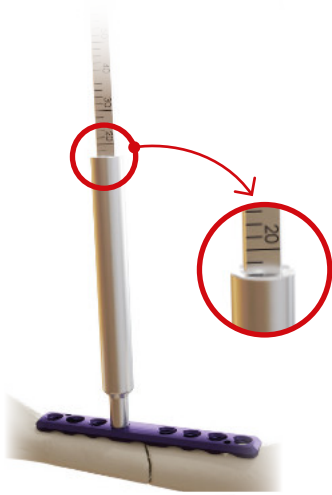
Screw diameter	1.5	2.0	2.4	2.7	3.5	4.5
Drill sleeve	1.1	1.5	1.8	2.0	2.5	3.2



2.

Drill a hole for the compression screw by drilling by proper drill bit through two layers of cortical bone.

Screw diameter	1.5	2.0	2.4	2.7	3.5	4.5
Drill bit	1.1	1.5	1.8	2.0	2.5	3.2



**3.**

To measure the length of the screw, remove the drill bit and the guide sleeve, then in the drilled hole place the appropriate depth gauge. The hook should be led through two cortical bones, so that its bent part rests against the outer side of the second cortex. Touch the surface of the plate. From the scale, read the bone thickness with the bone plate. In order to ensure maximum fixing, to the result add 2-3mm (measured value is 16mm, add 2-3mm, so screw length should be around 18mm).

Screw diameter	1.5	2.0	2.4	2.7	3.5	4.5
Depth gauge	MG.01.04		MG.01.05			MG.01.06



**4.**

Using a dedicated screwdriver, screw in the locking screw, remembering not to tighten the screw by force, if the instrument set is equipped with a torque limit screwdriver, it should be used.

Ø of screw	1.5	2.0	2.4	2.7	3.5	4.5
Screwdriver	HEX 1.3	HEX 1.5	HEX 2.0		HEX 2.5	HEX 3.5
Torque	0.4 Nm		0.8 Nm		1.5 Nm	4 Nm
Torque limiter	IN.08.1001.04		IN.08.1002.08		IN.08.1002.15	

0.4 Nm



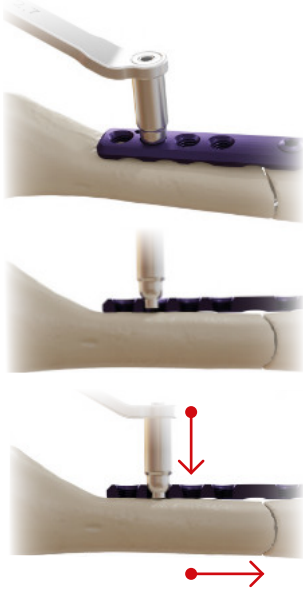
0.8 Nm



1.5 Nm



## COMPRESSION BY CORTICAL SCREW



1.

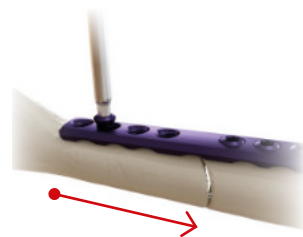
To insert the cortical screw in the compression position insert the compression guide on the outer edge of unthreaded part of the locking-compression hole, without pressing it against the bone and plate. If neutral position is necessary lightly push the guide to the bone, it will move it towards the threaded part of the hole.

2.

Drill a hole for the cortical screw by proper drill bit through two layers of cortical bone.



Screw diameter	1.5	2.0	2.4	2.7	3.5	4.5
Drill bit	1.1	1.5	1.8	2.0	2.5	3.2

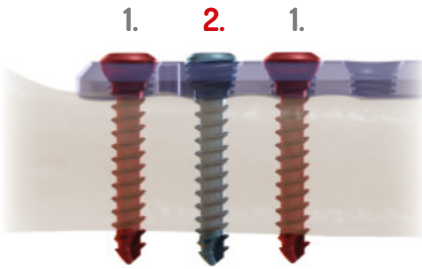


3.

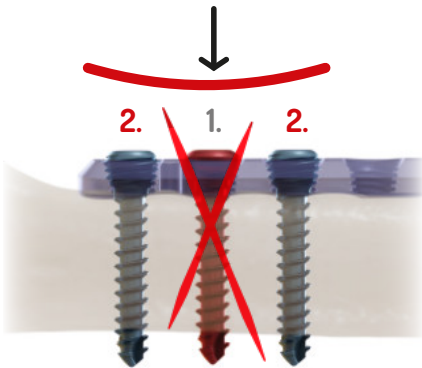
Using a dedicated screwdriver, screw in the cortical screw, remembering that over tightening can lead to damaging the connections between the screw and the bone and breaking the thread.

Screw diameter	1.5	2.0	2.4	2.7	3.5	4.5
Screwdriver	HEX 1.5	HEX 2.0	HEX 2.0	HEX 2.5	HEX 2.5	HEX 3.5

## LOCKING PLATE PRINCIPLES



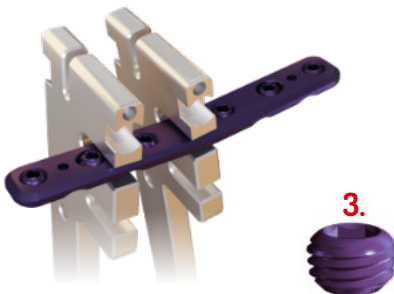
It is very important to remember about the correct order in which the bone screws are inserted in one fracture, first cortical screws (1) and after then locking screws (2).



Inserting screws in a different order especially inserting a cortical screw (1) between two locking screws (2) may lead to stress in the plate and neighbouring locking screws, which may result in implant fracture or abnormal healing process.



To compress the fracture, firstly fix the plate to one side of the fractured bone with at least two locking (2) or three cortical screws (1), then insert the locking (2) or cortical screw (1) into the compression hole on the opposite side of the plate.



Locking plates should be shaped between holes, if holes are in the the bending zone, fill them with locking screws (2) or threaded plugs (3) before bending the plate in order to prevent holes deformation.



