

# MS Implant System

2013 PRODUCT CATALOG

**OSSTEM<sup>®</sup>**  
IMPLANT

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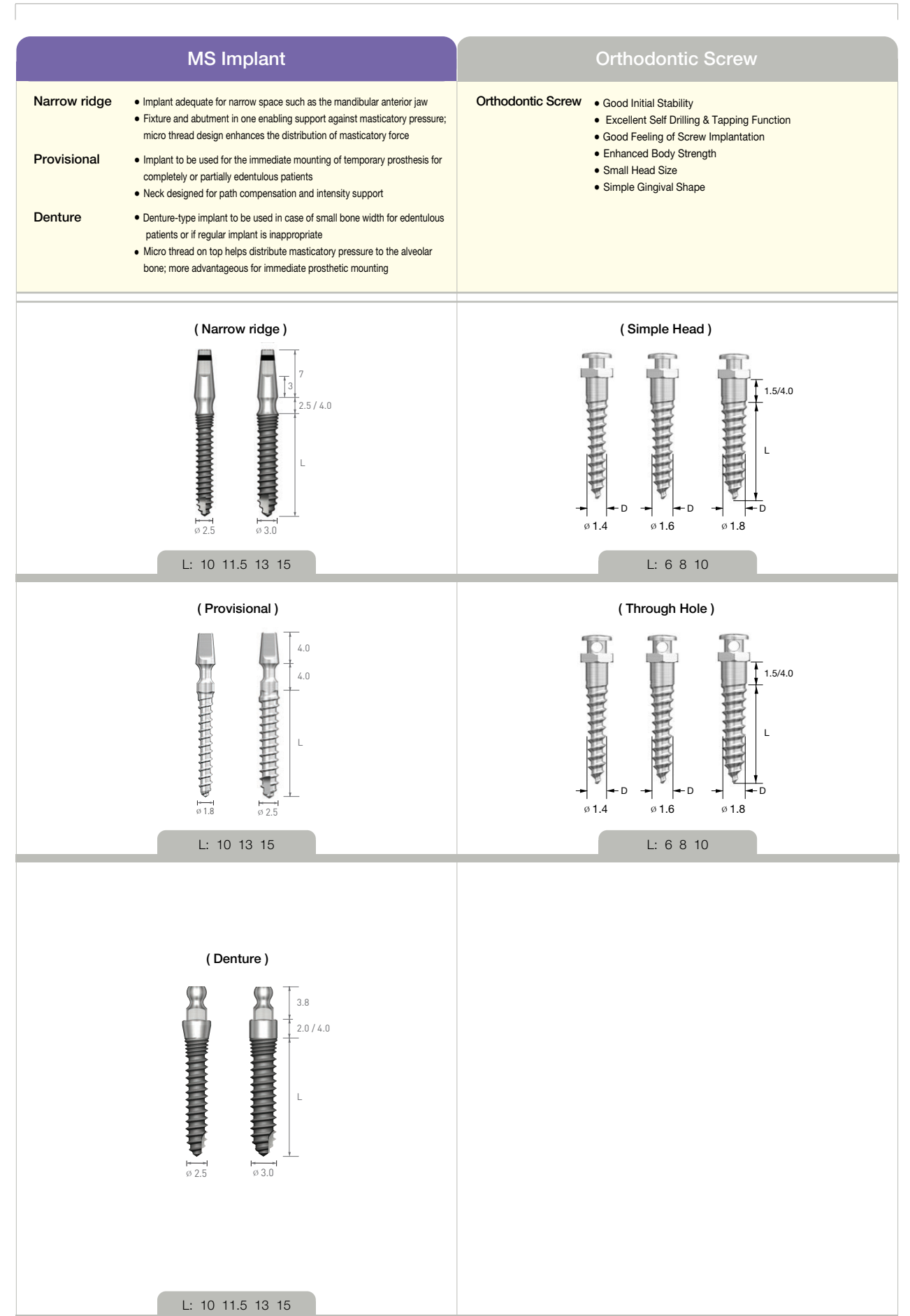
<p><b>MS Implant</b></p>	<p><b>8</b> MS Implant (Narrow ridge)</p>	<p><b>8</b> Impression Coping (Narrow ridge)</p>	<p><b>9</b> Temporary Cap (Narrow ridge)</p>	<p><b>9</b> Lap Analog (Narrow ridge)</p>
<p><b>10</b> MS Implant (Provisional)</p>	<p><b>10</b> Lap Analog (Provisional)</p>	<p><b>11</b> MS implant (Denture)</p>	<p><b>11</b> O-ring Retainer Cap Set</p>	<p><b>11</b> Lab Analog (Denture)</p>
<p><b>12</b> MS KIT</p>	<p><b>12</b> Drill for MS Implant</p>	<p><b>13</b> Driver for Narrow Ridge &amp; Provisional type</p>	<p><b>13</b> Driver for Denture type</p>	<p><b>13</b> Gauge for MS Implant</p>
<p><b>13</b> Torque Handle</p>	<p><b>13</b> Driver Separator</p>	<p><b>Orthodontic Screw</b></p>	<p><b>16</b> Orthodontic Screw</p>	<p><b>18</b> Ortho KIT</p>
<p><b>18</b> Drill</p>	<p><b>19</b> Universal Handle</p>	<p><b>19</b> Driver Tip</p>	<p><b>19</b> Machine Driver</p>	<p><b>20</b> Driver Handle</p>
<p><b>20</b> Hand Driver</p>	<p><b>20</b> Driver Separator</p>			

# OSSTEM HISTORY

2012	Nov	Hosts 'OSSTEM ATC Forum 2012 Seoul'
	Jul	Registers and obtains approval from FDA in Mexico Established OSSTEM Dental Equipment Research Institute
	Jun	Develops and begins commercial production of TSIII CA Develops and begins commercial production of ESSET Kit for Ridge Split
	May	Develops and begins commercial production of MS SA
	Apr	Hosts 'OSSTEM World Meeting 2012 Taipei'
2011	Dec	Introduces and commences commercial production of K2 Unit & Chair
	Nov	Develops and begins commercial production of Smart Membrane
	Oct	Registers and obtains approval from Health Canada Develops and begins commercial production of USII SA and 123 Kit
	Sep	Establishes subsidiary offices in Dacca, Bangladesh and Ho Chi Minh City, Vietnam [OSSTEM Bangladesh Ltd. and OSSTEM IMPLANT Vina Co., Ltd.] Develops and begins commercial production of SSIII SA Registers and obtains approval from the Ministry of Health and Society in Vietnam
	Aug	Establishes subsidiary offices in Manila, Philippines and Vancouver, Canada [OSSTEM Philippines Inc. and HiOssen Implant Canada Inc.]
2010	Nov	Develops and begins commercial productions of SSII SA
	Aug	Develops and begins commercial productions of TSIII Ultra-wide
	Jun	Develops and begins commercial productions of TSIII HA and CAS Kit Opens 'OSSTEM World Meeting 2010 in Beijing'
	Apr	Develops and begins commercial productions of Osstem Guide
	Mar	Develops and begins commercial productions of TSIII SA
2009	Oct	Registers and obtains approval from Health, Labor and Welfare in Japan
	May	Hosts 'OSSTEM World Meeting 2009 in Bangkok'
	Jan	Certifies PEP7 (the world's first new Osseo-inductive compound)
2008	Nov	Develops and begins commercial productions of SS Ultra-wide
	Jun	Develops and begins commercial productions of GSIII
	Apr	Holds 'OSSTEM World Meeting 2008 in Seoul'

2008	Mar	Opens ATC Training Center
	Jan	Establishes OSSTEM Bone Science Institute
2007	Oct	Establishes subsidiary offices in Sydney, Australia [Osstem Australia PTY Ltd.]
	Jun	Registers and obtains approval from the TGA in Australia
	May	Develops and begins commercial production of US Ultra-wide
	Apr	Hosts 'OSSTEM World Meeting 2007 in Seoul'
2006	Dec	Establishes subsidiary offices in Bangkok, Thailand and Kuala Lumpur, Malaysia [OSSTEM Thailand Co., Ltd. and OSSTEM Malaysia SDN, BHD]
	Nov	Registers and obtains approval from the SFDA in China
	Sep	Establishes subsidiary office in Philadelphia, U.S.A [HiOssen Inc.]
	Aug	Establishes subsidiary offices in Beijing, China / Singapore and Hong Kong [OSSTEM China Co., Ltd. / OSSTEM Singapore Pte Ltd. and OSSTEM Hong Kong Ltd.]
2005	Jul	Establishes subsidiary office in Tokyo, Japan [OSSTEM Japan Corp.]
	Apr	Registers and obtains the GOST-R certification in Russia Opens 'OSSTEM World Meeting 2006 in Seoul'
	Jan	Establishes the subsidiary offices in Moscow, Russia and Mumbai, India [OSSTEM LLC. and OSSTEM IMPLANT India Pvt Ltd.]
	Dec	Registers and obtains approval by the DOH in Taiwan Establishes the subsidiary office in Ashborn, Germany [OSSTEM Germany GmbH]
	May	Develops and begins commercial production of GSII
2004	Apr	Hosts 'OSSTEM World Meeting 2005 in Seoul'
	Mar	Obtains KGMP(Korean Good Manufacturing Practice) in Korea
	Jan	Establishes the subsidiary office in Taipei, Taiwan [OSSTEM Corporation]
2002	Nov	Develops and begins commercial production of SSIII
	Jul	Develops and begins commercial production of USIII
	Apr	Opens 'OSSTEM World Meeting 2004 in Seoul'
2001	Oct	Develops and begins commercial production of SSII
	Aug	Registers and obtains approval by the FDA in the USA Develops and begins commercial production of USII
	Jan	Establishes OSSTEM Implant R&D Center
1999	Mar	Establishes AIC(Apsun Dental Implant Research & Education Center)
	Jan	Obtains CE-0434 certification
1997	Dec	Obtains ISO-9001 certification
	Jan	Begins commercial production under the brand name of OSSTEM
1995	Jan	Establishes OSSTEM IMPLANT Co., Ltd. in Seoul, Korea
	Jan	Develops dental implants and acquires industrial license
1992	Jan	Initiates the development of dental implant system

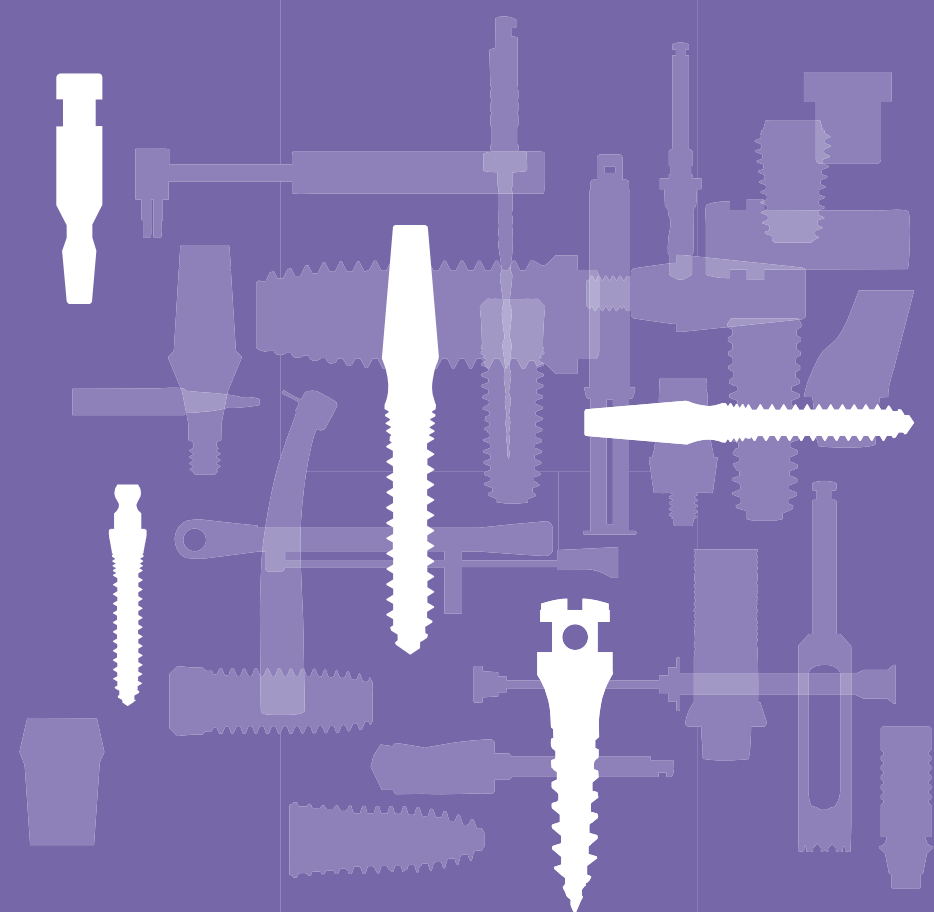
# OSSTEM Implant System Flow



# OSSTEM IMPLANT SYSTEM

## MS SYSTEM

Fixture and Restorative Components



## MS SYSTEM

### EARLY & ESTHETIC

OSSTEM IMPLANT

#### 08 MS Implant Components

Narrow ridge Components

Provisional Components

Port Components

Denture Components

#### 14 Drilling Sequence for MS Implant

#### 16 Orthodontic Components

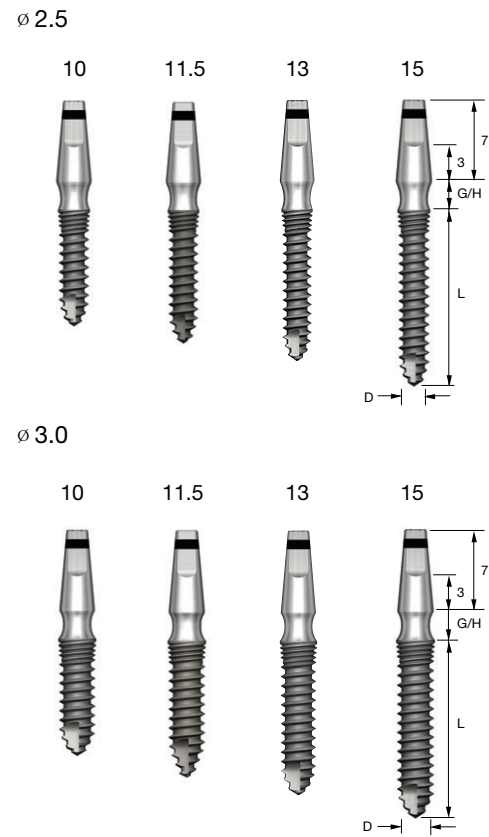
Simple Head

Through Hole

# MS Implant Components

※ The following labeled dimension may differ from the actual dimension.

## MS Implant (Narrow ridge)



D		ø 2.5	
L	G/H	2.5	4.0
10		MSP25103R	MSP25104R
11.5		MSP25113R	MSP25114R
13		MSP25133R	MSP25134R
15		MSP25153R	MSP25154R

D		ø 3.0	
L	G/H	2.5	4.0
10		MSP30103R	MSP30104R
11.5		MSP30113R	MSP30114R
13		MSP30133R	MSP30134R
15		MSP30153R	MSP30154R

- Implant adequate for narrow space such as the mandibular anterior jaw
- Fixture and abutment in one enabling support against masticatory pressure; micro thread design enhances the distribution of masticatory force
- RBM surface design for quick osseointegration
- Optimized shape and size of abutment enabling cutting-free prosthetic work
- Optimal design of body, thread, and drilling to enhance initial bonding and bone penetration
- Packing unit : MS Implant (Narrow ridge)
- Recommended torque : 30Ncm

## Impression Coping (Narrow ridge)



Code	MSPIC
------	-------

- Use for precise impression work
- In case of non-modification of abutments : after taking an impression using an impression cap, make the prosthesis after creating a model using an analog
- In case of modification of abutment height only: after taking an impression using an impression cap, create a model using an analog and make the prosthesis by modifying the model shape according to the modification of abutment
- Packing unit : Impression Coping

## Temporary Cap (Narrow ridge)



Code	MSPTC
------	-------

- Use for making temporary prosthesis
- One-touch locking design
- Packing unit : Temporary Cap (Narrow ridge)

## Lab Analog (Narrow ridge)

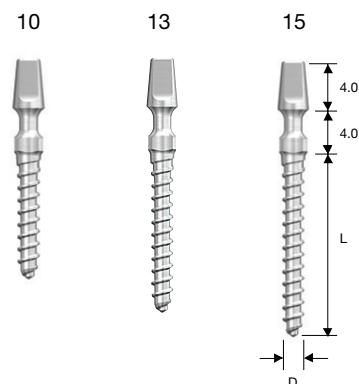


Code	MSPLA
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- Make an MS Implant (narrow ridge) abutment of the oral cavity onto a working model
- Packing unit : Lab Analog

### MS Implant (Provisional)

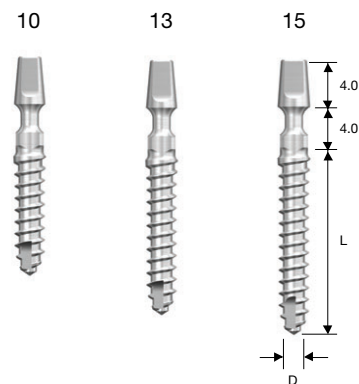
∅ 1.8



L	D	∅ 1.8
10		MST18104
13		MST18134
15		MST18154

- Recommended torque : 25Ncm

∅ 2.5



L	D	∅ 2.5
10		MST25104
13		MST25134
15		MST25154

- Implant to be used for the immediate mounting of temporary prosthesis for completely or partially edentulous patients
- Neck designed for path compensation and intensity support
- Simple system to make temporary prosthesis using titanium provisional caps and lab analogs
- Provisional cap facilitating prosthetic work on the chairside
- Rectangular structure to connect a driver to the bottom of the neck, thereby facilitating removal
- Optimized design of body, thread, and drilling to enhance initial bonding and bone penetration
- Packing unit : MS Implant (Provisional)
- Recommended torque : 30Ncm

### Lab Analog (Provisional)

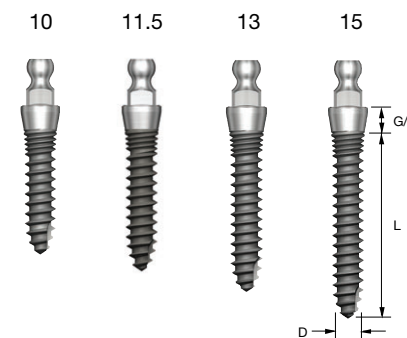


Code	MSTLA

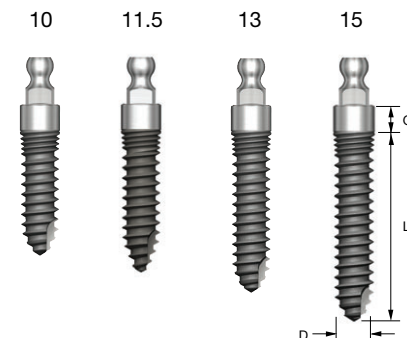
- Make an MS Implant (provisional) abutment of the oral cavity on a working model
- Packing unit : Lab Analog

### MS Implant (Denture)

∅ 2.5



∅ 3.0



L	D	∅ 2.5	
		G/H	
10		2.0	4.0
11.5		MSD25102R	MSD25104R
13		MSD25112R	MSD25114R
15		MSD25132R	MSD25134R
		MSD25152R	MSD25154R

L	D	∅ 3.0	
		G/H	
10		2.0	4.0
11.5		MSD30102R	MSD30104R
13		MSD30112R	MSD30114R
15		MSD30132R	MSD30134R
		MSD30152R	MSD30154R

- Denture-type implant to be used in case of small bone width for edentulous patients or if regular implant is inappropriate
- Micro thread on top helps distribute masticatory pressure to the alveolar bone; more advantageous for immediate prosthetic mounting
- Easy and convenient denture work through the possible use of retainer and lab analogs
- Ball-type structure for the connection of the O-ring attachment
- Use by selecting 2/4mm depending on the gingival height
- Packing unit : MS Implant (Denture)
- Recommended torque : 30Ncm

### O-ring Retainer Cap Set



Name	Code
O-ring Retainer cap set	RCS01
O-ring set	OAON01S

- Use for making stud-type overdenture
- Packing unit : Retainer Cap+ O-ring

### Lab Analog (Denture)



Code	MSDLA

- Make an MS Implant (denture) abutment of the oral cavity on a working model
- Packing unit : Lab Analog

## MS KIT



Code	OMSK
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### • MS Implant KIT

#### • KIT Components (basic)

##### 5-drill set

- $\varnothing$  1.5mm Lance Drill
- $\varnothing$  1.8mm Twist Drill Long
- $\varnothing$  1.8mm Twist Drill Short
- $\varnothing$  2.3mm Twist Drill Long
- $\varnothing$  2.3mm Twist Drill Short

##### 2-Drivers for the Narrow Ridge and Provisional types

- Machine Driver Long
- Torque Driver Long

##### 2-Drivers for the Denture types

- Machine Driver Short
- Torque Driver Short

##### 1 set of 3 other types

- Parallel Pin
- Driver Separator
- Depth Gauge

#### • KIT Components (optional)

##### 2-Drivers for the Narrow Ridge and Provisional types

- Machine Driver Short
- Torque Driver Short

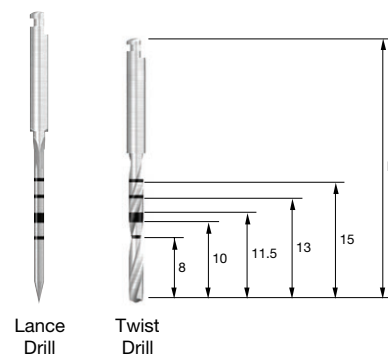
##### 2-Drivers for the Denture types

- Torque Driver Long

##### 1 set of 2 other types

- Torque Handle
- Torque Wrench

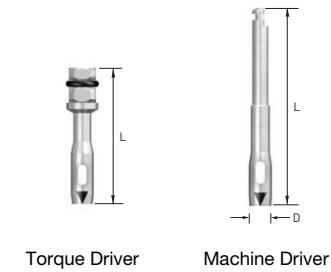
## Drill for MS Implant



Name	D	L	Code
$\varnothing$ 1.5mm Lance Drill	$\varnothing$ 1.5	35	OSLD15
$\varnothing$ 1.8mm Twist Drill Long	$\varnothing$ 1.8	42	OSMSD18L
$\varnothing$ 1.8mm Twist Drill Short	$\varnothing$ 1.8	32	OSMSD18S
$\varnothing$ 2.3mm Twist Drill Long	$\varnothing$ 2.3	42	OSMSD23L
$\varnothing$ 2.3mm Twist Drill Short	$\varnothing$ 2.3	32	OSMSD23S
$\varnothing$ 2.5mm Twist Drill Long	$\varnothing$ 2.5	42	OSMSD25L
$\varnothing$ 2.5mm Twist Drill Short	$\varnothing$ 2.5	32	OSMSD25S

- Same specification as implant length for easy identification ; laser marking on 8/10/11.5/13/15mm For lance drilling, drilling only the cortical bone is recommended; enables drilling up to the laser marking line depending on the surgeon's work environment

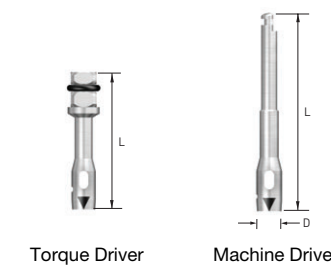
## Driver for Narrow Ridge & Provisional Type



Name	D	L	Code
Torque Driver (Short)	$\varnothing$ 3.4	16.5	MSPTS
Torque Driver (Long)	$\varnothing$ 3.4	21.5	MSPTL
Machine Driver (Short)	$\varnothing$ 3.4	24.4	MSPMS
Machine Driver (Long)	$\varnothing$ 3.4	29.4	MSPML

- Special-purpose driver for MS Implant (Narrow Ridge and Provisional)  
The triangle mark is used by aligning with the implant cross section

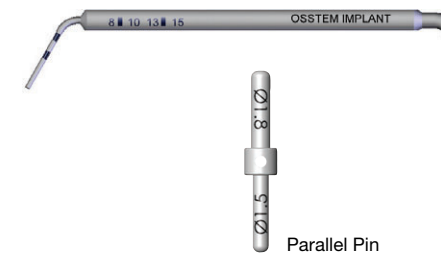
## Driver for Denture type



Name	D	L	Code
Torque Driver (Short)	$\varnothing$ 3.8	13.5	MSDTS
Torque Driver (Long)	$\varnothing$ 3.8	18.5	MSDTL
Machine Driver	$\varnothing$ 3.8	21.4	MSDMS

- Special-purpose driver for MS Implant (denture)  
The triangle mark is used by aligning with the implant cross section

## Gauge for MS Implant



Name	Code
Depth Gauge	MSDG
Parallel Pin	MSPP

- Depth gauge  
Left : For depth checking upon drilling  
Right : Use for MS implant bending
- The parallel pin is used for path checking upon drilling

## Torque Handle



Code	MSTH
------	------

- Use for manual torque after connecting to the connected part of a torque driver

## Driver Separator



Code	MSDS
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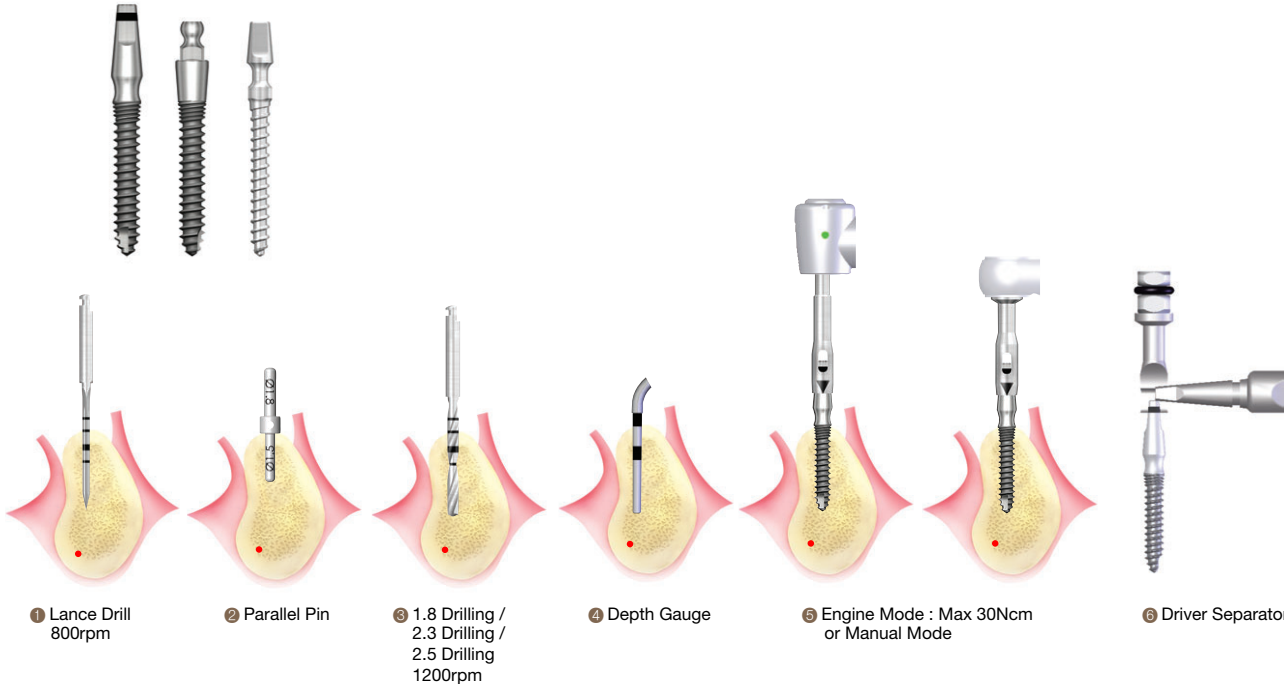
- In case a driver is stuck during grafting, separate based on the lever principle (inserting a driver separator into the driver groove)



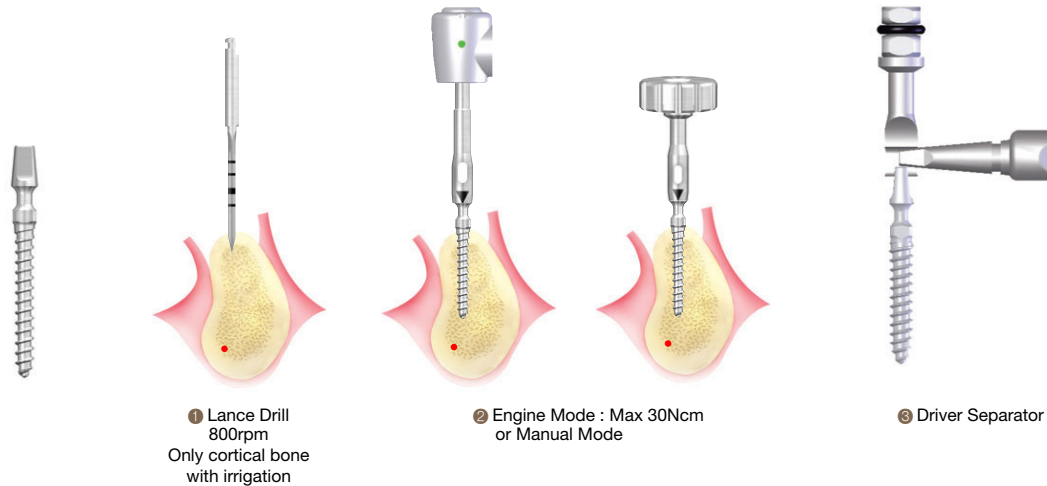
# Drilling Sequence for MS Implant

## MS Fixture

### ∅ 2.5mm / ∅ 3.0mm Fixture



### ∅ 1.8mm Fixture



# OSSTEM IMPLANT SYSTEM

Orthodontic screw & Bone screw  
Fixture and Restorative Components

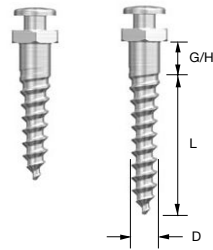
ORTHODONTIC  
SCREW &  
BONE SCREW

MS SYSTEM

# Orthodontic Components

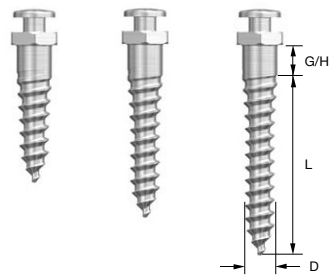
## Orthodontic Screw (Simple Head)

Ø 1.4



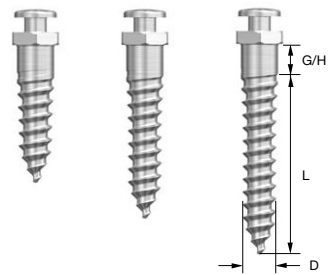
D	G/H	Ø 1.4
L		1.5
6		OSSH1406
8		OSSH1408

Ø 1.6



D	G/H	Ø 1.6
L		1.5
6		OSSH1606
8		OSSH1608
10		OSSH1610

Ø 1.8

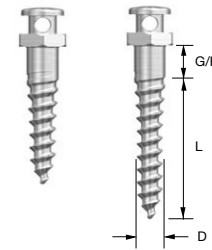


D	G/H	Ø 1.8
L		1.5
6		OSSH1806
8		OSSH1808
10		OSSH1810

- Machined Surface
- Material : Ti-6Al-4V

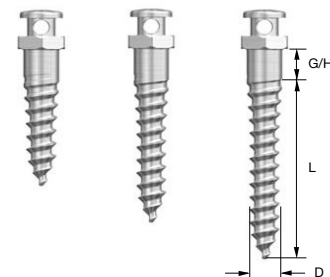
## Orthodontic Screw (Through Hole)

Ø 1.4



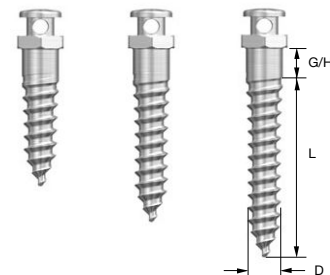
D	G/H	Ø 1.4
L		1.5
6		OSTH1406
8		OSTH1408

Ø 1.6



D	G/H	Ø 1.6
L		1.5
6		OSTH1606
8		OSTH1608
10		OSTH1610

Ø 1.8



D	G/H	Ø 1.8
L		1.5
6		OSTH1806
8		OSTH1808
10		OSTH1810

- Machined Surface
- Material : Ti-6Al-4V
- Through Hole size : Ø 0.8

## Ortho KIT



Code	OOKS
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- A surgical KIT for use an orthodontic treatment

### KIT Components (basic)

- 2-drill set
  - $\varnothing$  1.3 drill [Short]
  - $\varnothing$  1.5 drill [Short]
- 3-driver set
  - Driver tip [Hex type - long]
  - Machine driver [Hex type - short]
  - Hand driver [Hex type]
- 2-handle set
  - Universal Handle
  - Driver Handle

### KIT Components (optional)

- Driver tip [Hex type - short]
- Machine driver [Hex type - long]
- Hand drill
- Driver separator
- $\varnothing$  1.3 drill [long]
- $\varnothing$  1.5 drill [long]

D	$\varnothing$ 1.3	$\varnothing$ 1.5
Short	OSODR130S	OSODR150S
Long	OSODR130C	OSODR150C

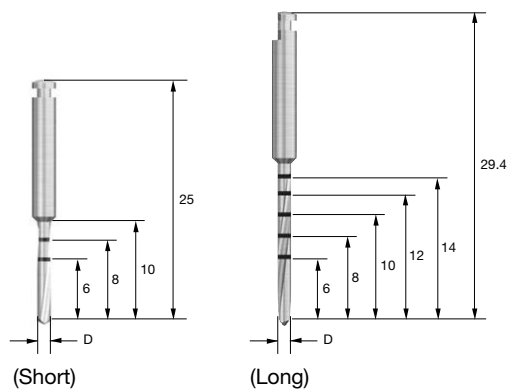
- Laser marking has been appeared for 6, 8, 10, 12 and 14 mm.
- Recommendation drilling RPM : 800rpm
- For  $\varnothing$  1.6mm screw surgery, use  $\varnothing$  1.3mm drill and for  $\varnothing$  1.8mm screw surgery, use  $\varnothing$  1.5mm drill, respectively to drill only cortical bone or drill according to the length of an orthodontic screw.

D	$\varnothing$ 1.3
Code	OSHDR130

- Use for only cortical bone drilling by coupling with the Universal handle
- Drill depth : 4mm
- Optional purchase

[Caution] Do not apply bending load with the hand drill

## Drill



## Hand Drill



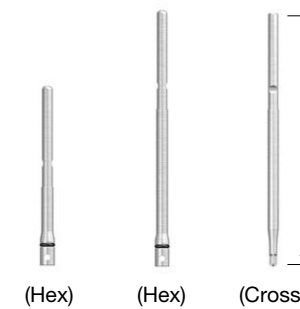
## Universal Handle

Code	OUIH
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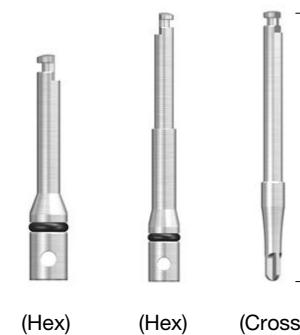
- Use after connecting with a driver tip
- Easy to use, the middle of the handle part has knurling treatment



## Driver Tip



## Machine Driver



Type	Hex		Cross
	Short	Long	
L	48	70	69
Code	OSDTS	OSDT	OCDT

- Use for the placement of orthodontic screws by coupling with the universal handle
- Hex and cross types are available, use the hex type for applying torque, and the cross type for correcting the through hole path of the screw

(Caution) Do not apply excessive torque with the cross type driver

Type	Hex		Cross
	Short	Long	
L	23.4	33.4	26.4
Code	OSMDA	OSMDB	OCMD

- Use for the orthodontic screw insertion or removal by connecting to the surgical engine
- Hex and cross types are available, use the hex type for applying torque, and the cross type for correcting the through hole path of the screw

(Caution) Do not apply excessive torque with the cross type driver

### Driver Handle

Code	TIDHC
------	-------

- Use for connecting a hand driver and for the manual tightening of screws

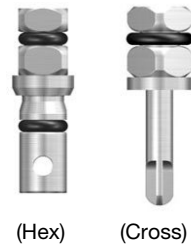


### Hand Driver

Type	Hex	Cross
Code	OSTDA	OCHD

- Use for the orthodontic screw insertion or removal by connecting to a driver handle and torque wrench
- Hex and cross types are available, use the hex type for applying torque, and the cross type for correcting the through hole path of the screw

(Caution) Do not apply excessive torque with the cross type driver



(Hex) (Cross)

### Driver Separator

Code	OSST75
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- If the driver is not removed after implantation of an orthodontic screw, insert a driver separator in the hole at the front part of the driver and remove the screw with lever action.

