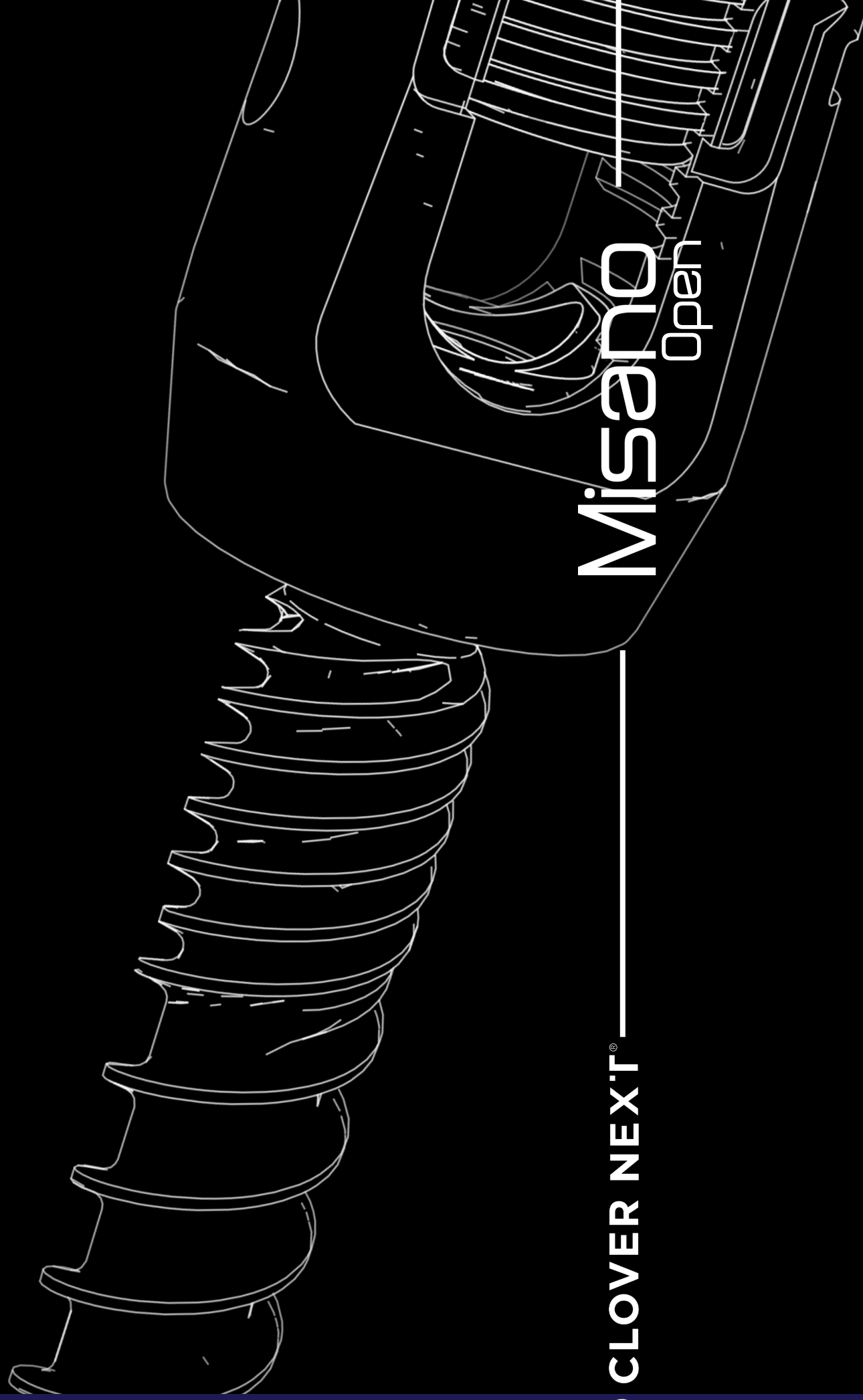




● CLOVER NEX'Γ

Misano
Open



Self-tapping screw allowing insertion even without tapping

DUAL-LEAD thread for rapid insertion and FOUR-LEAD thread for high pedicle purchase

Sophisticated yet compact instrumentation

Cannulated and fenestrated screw for injection of cement or bone substitute

Sterile packaging

Stabilization system thoracolumbar vertebral

Misano is a thoraco-lumbosacral stabilization system, entirely manufactured in titanium, allowing the use of a single pedicle screw, MIS or open, for the treatment of all degenerative, traumatic, and deformity-related spinal pathologies.

The self-tapping screw can be inserted without the use of a tap and features a specific double-lead thread distally, ensuring fast insertion, which then transitions to a four-lead thread providing strong pedicle anchorage. All screws are cannulated to enable guide-wire insertion and fenestrated to allow for cement augmentation.

The Misano thoraco-lumbosacral stabilization system by Next consists of monoaxial and polyaxial pedicle screws, locking nuts, straight and pre-contoured rods in titanium and cobalt-chrome, as well as a wide range of hooks, offsets, connectors and cross-links. It is used to promote solid arthrodesis of the treated portion of the spinal column.





When properly used, the Misano thoracolumbosacral stabilization system is indicated to promote the development of robust thoracic, lumbar, and sacral arthrodesis.

It is recommended in cases of spinal deformities, degenerative disc disease, traumatic vertebral fractures, vertebral tumors, spinal stenosis, spondylolisthesis, pseudoarthrosis, and previous unsuccessful attempts at vertebral fusion.

Any surgical decisions differing from the manufacturer's recommendations are at the discretion and under the responsibility of the surgeon.

Do not use 4.5 mm screws in the lumbar or lumbosacral spine, and do not couple 4.5 mm screws with CoCr rods.

Features



TITANIUM ALLOY



ALLOY CO-CR
UPON REQUEST



ETO STERILE



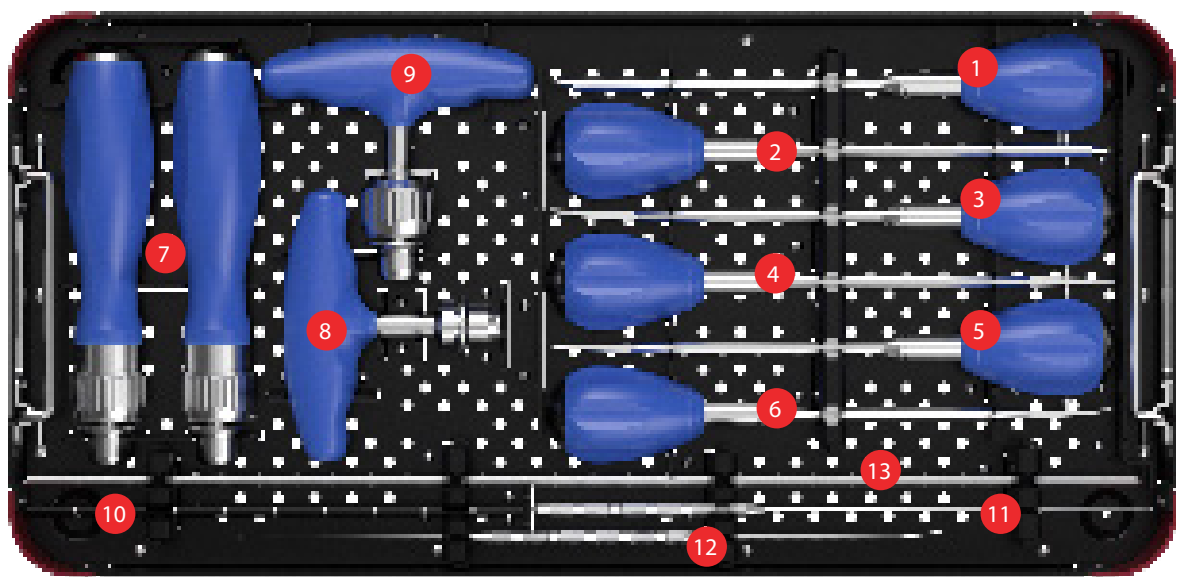
#LESSISMORE

INSTRUMENTS



Next has invested significantly in the design and refinement of its instruments with the goal of providing ergonomic, functional, and compact instrumentation. Designed for the surgeon and the surgical team.

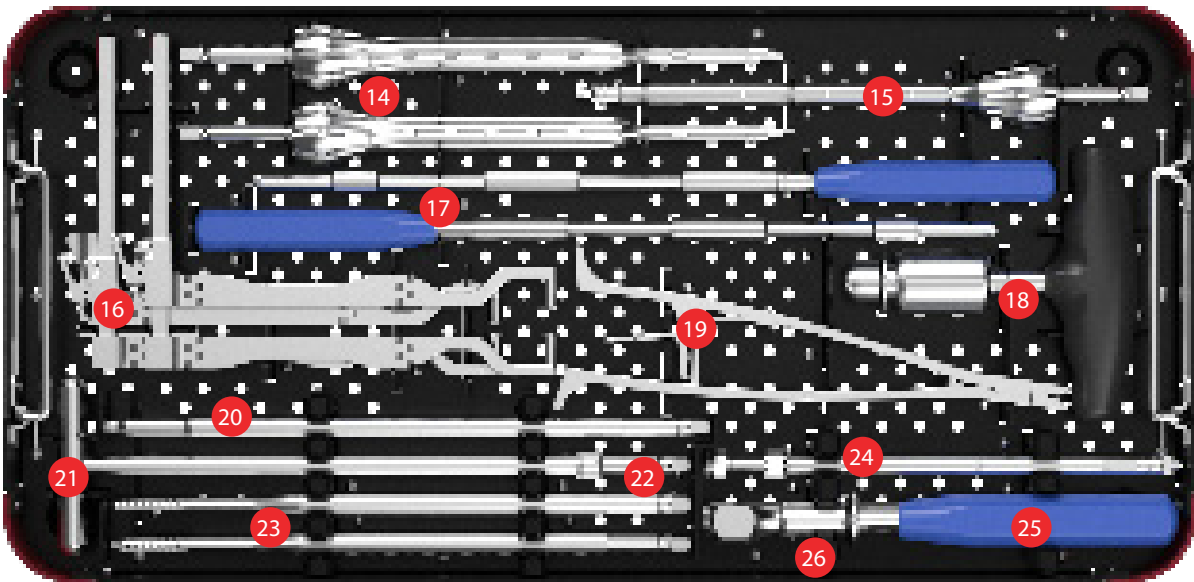
CASE 1 | TRAY 1



1	THORACIC AWL	MSN-A0SS02510S	8	T-HANDLE	MSN-H1SS00000S
2	LUMBAR AWL	MSN-A0SS03208S	9	RATCHETING T-HANDLE	MSN-H1SS00100S
3	NARROW GEAR SHIFT PROBE CURVED	MSN-B1SS00000S	10	ROD TEMPLATE L200 D5.5	MSN-M0AL00000S
4	NARROW GEAR SHIFT PROBE STRAIGHT	MSN-B0SS00000S	11	SOUNDING 2MM	MSN-C0SS00000S
5	GEAR SHIFT PROBE STRAIGHT	MSN-B0SS00001S	12	DOUBLE SOUNDING 2MM	MSN-C1SS00000S
6	GEAR SHIFT PROBE CURVED	MSN-B1SS00001S	13	KIRCHNER WIRES	MSN-K0NT00500S
7	RATCHETING HANDLE	MSN-H0SS00100S			

INSTRUMENTS

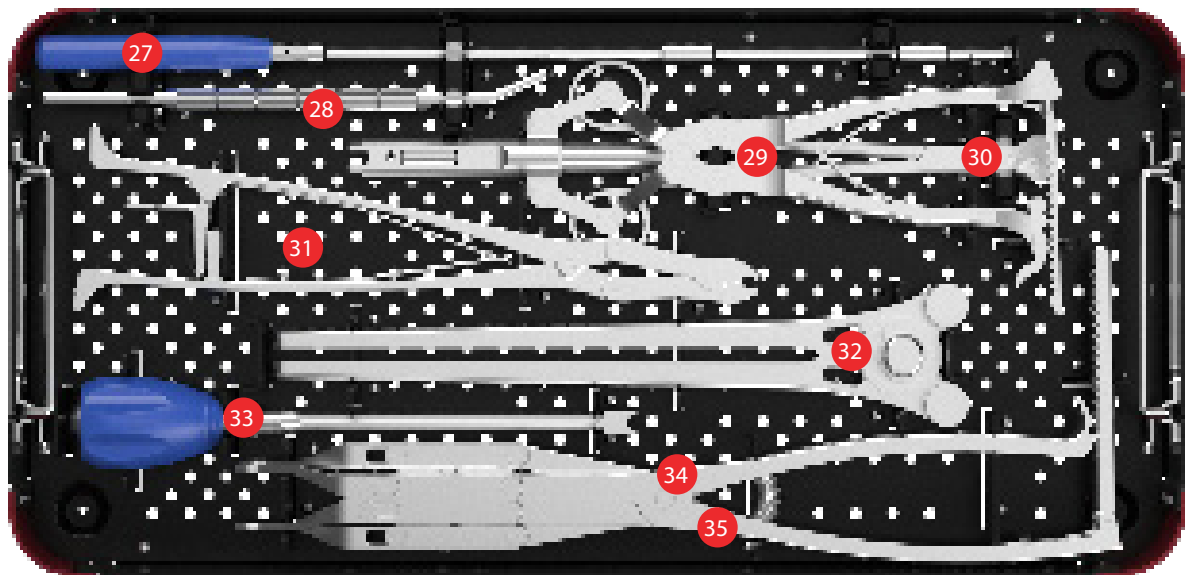
CASE 1 | TRAY 2



14	POLYAXIAL SCREWDRIVER	MSN-I1SS25120S	22	FREEHAND POLYAXIAL SCREWDRIVER	MSN-I1SS28520S
15	POLYAXIAL CANNULATED SCREWDRIVER	MSN-I2SS23920S	23	TAP 4.5MM	MSN-J0SS00045S
16	CASPAR	MSN-N0SS00001S		TAP 5.5MM	MSN-J0SS00055S
17	CAP HOLDER	MSN-I0SS30025S		TAP 6.5MM	MSN-J0SS00065S
18	DINAMOMETRIC T-HANDLE 9Nm	MSN-H1SS00090S		TAP 7.5MM	MSN-J0SS00075S
19	ROD HOLDER	MSN-D0SS00001S	24	CEMENT NEEDLE ADAPTER	MSN-K0SS00200S
20	CAP SCREWDRIVER	MSN-I1SS28525S	25	COUNTER TORQUE HANDLE	MSN-Q0SS00000S
21	TULIP ALIGNMENT	MSN-K0SS00227S	26	LOCKSCREW GUIDE TOWER	MSN-Q0SS00002S

INSTRUMENTS

CASE 2 | TRAY 1



27	CAP HOLDER LONG	MSN-I0SS38025S	32	ROD BENDER	MSN-F0SS00000S
28	HAEXAGONAL WRENCH	MSN-Q0SS00001S	33	ROD PUSHER	MSN-P0SS00000S
29	PERSUADER	MSN-P0SS00005S	34	DISTRACTOR	MSN-N1SS00000S
30	ROCKER	MSN-P0SS00003S	35	COMPRESSOR	MSN-N0SS00000S
31	ROD GRIPPER	MSN-E1SS00000S			

THORACIC AWL MSN-A0SS02510S



LUMBAR AWL MSN-A0SS03208S



INSTRUMENTS

SOUNDING 2MM MSN-C0SS00000S



SOUNDING 2MM DOUBLE MSN-C1SS00000S



POLYAXIAL SCREWDRIVER MSN-I1SS25120S



POLYAXIAL CANNULATED SCREWDRIVER MSN-I2SS23920S



FREEHAND POLYAXIAL SCREWDRIVER MSN-I1SS28520S



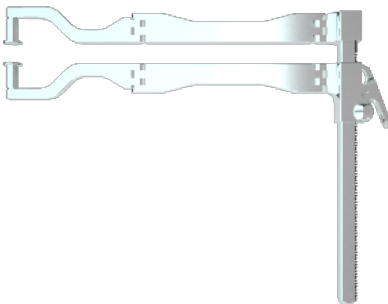
CAP HOLDER MSN-I0SS30025S



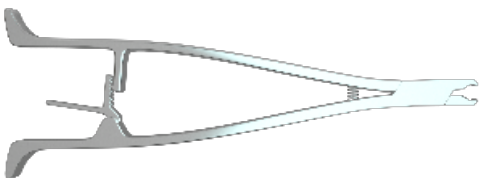
CAP SCREWDRIVER MSN-I1SS28525S



CASPAR MSN-N0SS00001S



ROD HOLDER MSN-D0SS00001S



DINAMOMETRIC T HANDLE 9Nm MSN-H1SS000090S



INSTRUMENTS

TULIP ALIGNMENT MSN-K0SS00227S



TAP 4.5MM MSN-J0SS00045S



TAP 5.5MM MSN-J0SS00055S



TAP 6.5MM MSN-J0SS00065S



TAP 7.5MM MSN-J0SS00075S



KIRCHNER WIRES MSN-K0NT00500S



COUNTER-TORQUE HANDLE MSN-Q2SS00000S



LOCKSCREW GUIDE
DEROTATION TOWER MSN-Q0SS00002S



ROD PUSHER MSN-P0SS00000S

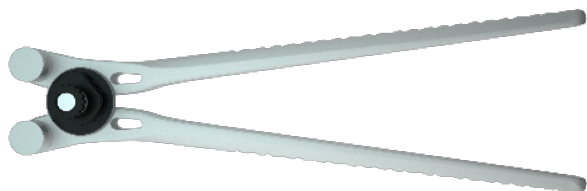


HEAXGONAL WRENCH MSN-Q0SS00001S

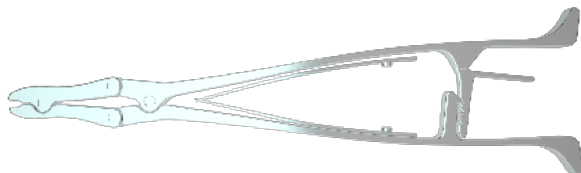


INSTRUMENTS

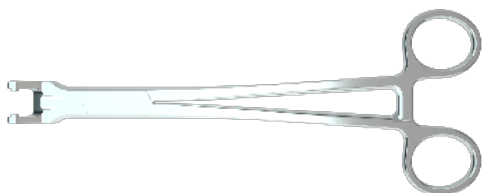
ROD BENDER MSN-F0SS00000S



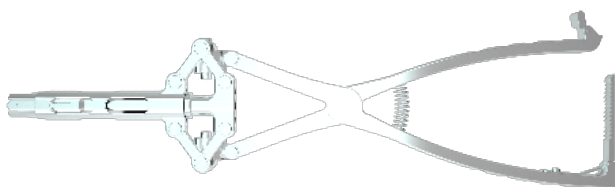
ROD GRIPPER MSN-E1SS00000S



ROCKER FORCEPS MSN-P0SS00003S



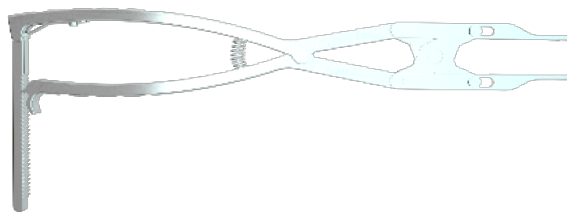
PERSUADER MSN-P0SS00005S



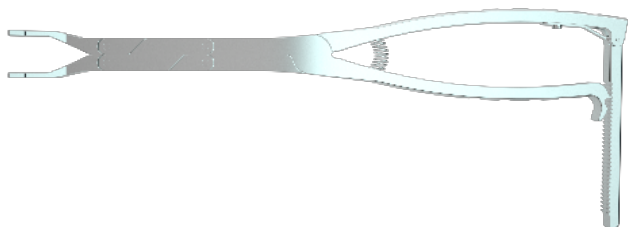
CEMENT NEEDLE ADAPTER MSN-K0SS00200S



PARALLEL DISTRACTOR MSN-N1SS00000S

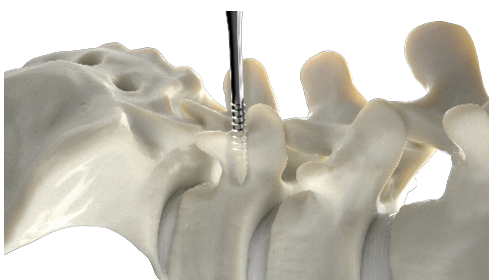


PARALLEL COMPRESSOR MSN-N0SS00000S



OPEN SURGICAL TECHNIQUE

1 —



Pedicle Screw Preparation

After determining the entry point, advance through the pedicle using the thoracic or lumbar cortical opener.

Then open the pedicle channel with the curved or straight pedicle probe.

Use the straight or curved ball-tip feeler to assess the integrity of the pedicle walls.

Although Misano pedicle screws are self-tapping, pedicle taps may be used to prepare the screw pathway.

It is recommended to undertap by one size relative to the selected screw diameter.

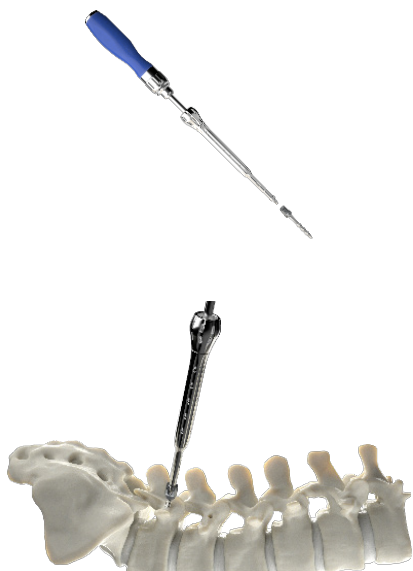
Taps, available in 4.5 mm, 5.5 mm, 6.5 mm, 7.5 mm and 8.5 mm, should be connected to either the straight handle or the T-handle.

Thread length is 30 mm.

All the instruments mentioned above are laser-marked at 10 mm intervals to assess depth and assist in selecting the appropriate screw length.

OPEN SURGICAL TECHNIQUE

2 —



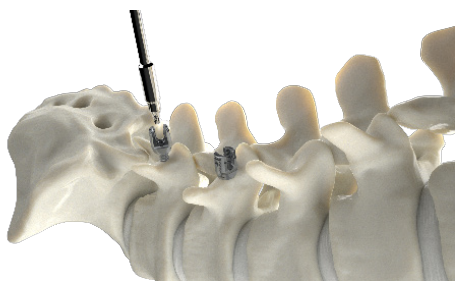
Screw Insertion

Connect the polyaxial screwdriver to the ratchet handle:

- engage the screwdriver with the screw by inserting its tip into the tulip until the threads reach the screw head, then rotate the screwdriver collar clockwise for final tightening;
- proceed with screw implantation.

Once the desired insertion depth is reached, the screwdriver detaches from the screw by rotating the collar counterclockwise.

3 —



Screw Head Adjustment

If needed, the direct screwdriver may be used by placing its tip directly onto the screw shaft.

Tighten or loosen the screw to the required depth.

The polyaxial screw head can be aligned using the tulip rotator.



OPEN SURGICAL TECHNIQUE

Opt. —



Cement Augmentation

Connect the cementation guide by inserting its tip into the screw and rotating the guide collar clockwise for final tightening.

After confirming that both components are securely connected, introduce the single-use bone filler for screw cementation.

Before injecting the cement, ensure that the bone filler is fully seated against the screw shaft.

4 —



Rod preparation

Once all screws are in place use the rod template to determine the length of the final bar.

If necessary to bend and shape the bars you can use the rod bender.



5 —

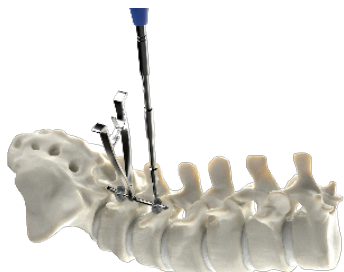


Rod Placement

Place the previously selected bar inside the screw head with the rod holder.

OPEN SURGICAL TECHNIQUE

6A —



Locking Nut Placement — A

To facilitate correct placement of the locking nut onto the screw, the locking-nut guide may be used.

Its slightly enlarged distal end sits atop the screw head, and by applying downward pressure, the rod is correctly seated into the screw head.

The locking nut may then be placed using the dedicated nut inserter.

If needed, the rod pusher may also be used.



6B —



Locking Nut Placement — B

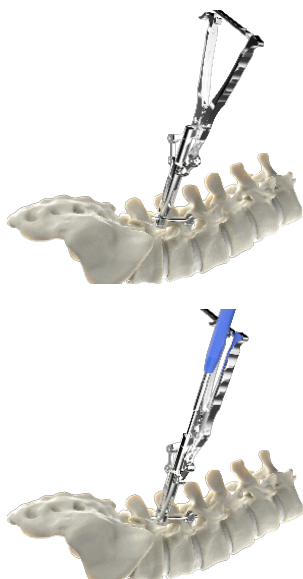
As an alternative to the rod pusher, the rocker may be used. Grasp the screw head with the rocker, then leverage it downward until the rod is fully seated within the screw head.

Subsequently, insert the locking nut using the locking-nut inserter.



OPEN SURGICAL TECHNIQUE

6C —



Locking Nut Placement — C

Alternatively, the persuader may be used, allowing greater force to seat the rod into the screw head and place the locking nut.

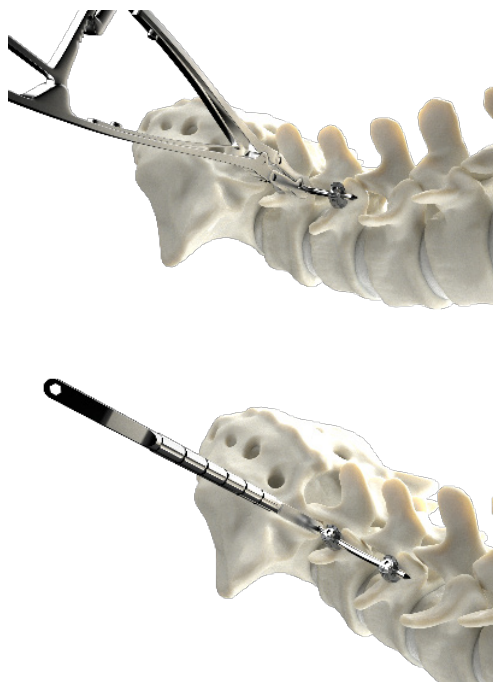
With the handles fully open, attach the persuader to the screw tulip.

Closing the handles causes the mechanism to lower the rod into the screw head.

Then insert the locking nut into the persuader using the long nut inserter.

Detach the persuader from the screw tulip by releasing the handles.

7 —



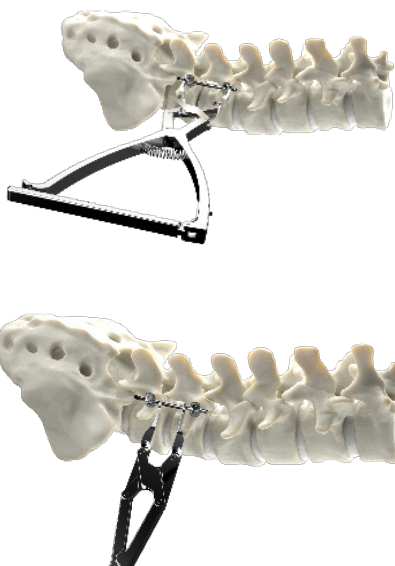
Rod rotation

If rod rotation is needed before final tightening, the derotation pliers may be used.

Alternatively, the hexagonal end of the rod allows use of a hex key.

OPEN SURGICAL TECHNIQUE

8 —



Compression and Distraction

Once the rod is fully seated in all polyaxial screw heads and locking nuts are in place, distraction or compression can be performed using the distractor or compressor.

9 —



Final tightening

Proceed with the final tightening of the construct.

Final tightening is performed using the counter-torque system, composed of the counter-torque handle connected to the locking-nut guide, and the locking-nut screwdriver (T25) previously assembled to the 9 Nm torque-limiting T-handle.

VITE MONOASSIALE CANNULATA - FENESTRATA	D5.5	FROM L30 TO L55
	D6.5	FROM L30 TO L55
	D7.5	FROM L30 TO L55
	D8.5	FROM L30 TO L55
VITE POLIASSIALE CANNULATA - FENESTRATA	D4.5	FROM L25 TO L40
	D5.5	FROM L30 TO L55
	D6.5	FROM L30 TO L55
	D7.5	FROM L30 TO L90
	D8.5	FROM L30 TO L90
	D9.5	FROM L45 TO L90
VITE POLIASSIALE PERCUTANEA CANNULATA - FENESTRATA	D4.5	FROM L25 TO L40
	D5.5	FROM L30 TO L55
	D6.5	FROM L30 TO L55
	D7.5	FROM L30 TO L90
	D8.5	FROM L30 TO L90
	D9.5	FROM L45 TO L90
BARRE PRECURVATE IN TITANIO	D5.5	FROM L25 TO L100
BARRE IN TITANIO	D5.5	FROM L110 TO L500
BARRE IN CO-CR	D5.5	FROM L110 TO L500
CAP DI SERRAGGIO PER VITI E UNCINI		
DOMINO		
ELEMENTO DI CONNESSIONE		
CROSSLINK MODULARE		S - M - L - XL
ANGLED OFFSET		FROM L20 TO L60
OFFSET		FROM L20 TO L60
LUMBAR WIDE HOOK		FROM SIZE 7 TO SIZE 11
PEDICLE HOOK		FROM SIZE 5 TO SIZE 9
TORACHIC LAMINAR HOOK		FROM SIZE 5 TO SIZE 9
OLBIQUE HOOK - DX/SX		
OFFSET HOOK - DX/SX		
LUMBAR NARROW HOOK		FROM SIZE 7 TO SIZE 11



● CLOVER NEX'T®

Clover Orthopedics s.r.l.

M. info@cloverorthopedics.com

W. cloverorthopedics.com

T. +39 02 457 902 31

F. +39 02 457 902 66

CE
0426

ITALCERT
SISTEMA DI GESTIONE QUALITÀ
CERTIFICATO
UNI CEI EN ISO 13485:2016
UNI EN ISO 9001:2015