QUICK REFERENCE GUIDE

T2 Stratosphere™

Expandable Corpectomy System

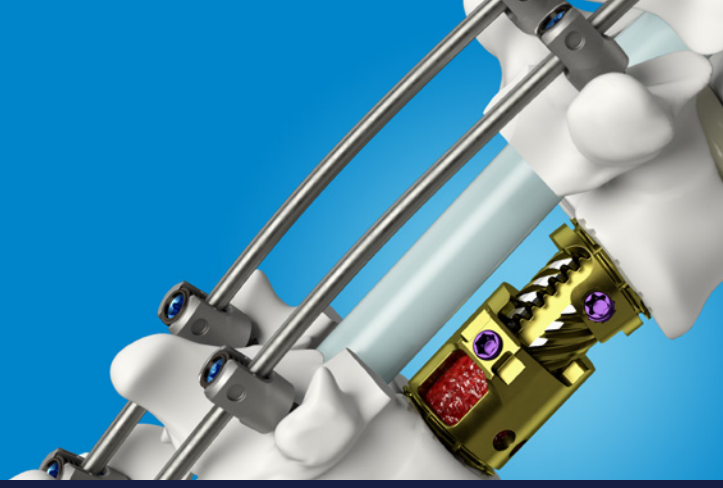
Medtronic

Further, Together

MICHELSON TECHNOLOGY AT WORK

MORE CONTACT.
MORE VISUALIZATION.
MORE PRECISION.[1]

T2 Stratosphere™
Expandable Corpectomy System



CONTINUOUS PRECISION ANGULATION
FOR PATIENT ENDPLATE MATCHING

SELF-ADJUSTING MULTI-AXIAL END CAP

16° Total Range of Motion

Up to 38° of total angulation with optional modular end caps

Continuous Endplate Conformity
Surface to surface contact maintained during posterior correction

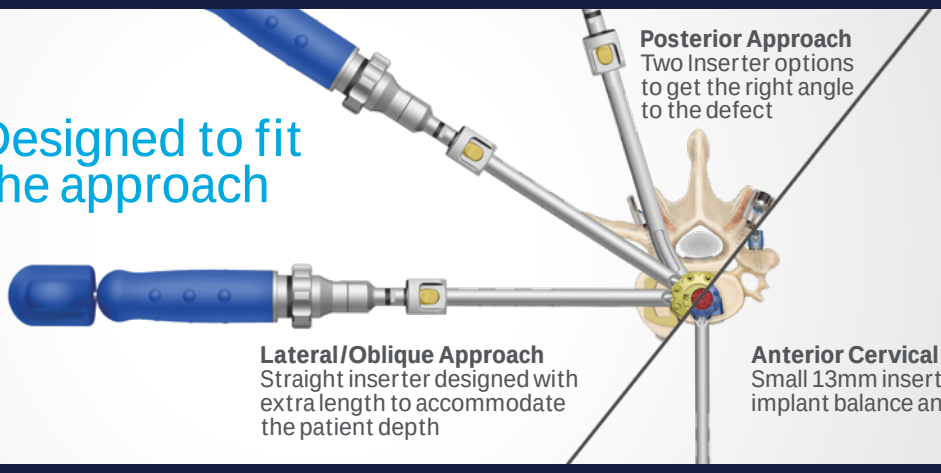
Distributed Surface Loading
prevents point loading and reduces the risk of subsidence[2]

LEAN, STRONG, AND AGILE
THE INSERTER FOR SIMPLIFIED IMPLANT DELIVERY

Low Profile
for visualization of anatomy

ONE Instrument
Insert, Expand, Lock[3]
Multi-Functional, All-In-One

Designed to fit the approach



Posterior Approach
Two Inserter options to get the right angle to the defect

Lateral/Oblique Approach
Straight inserter designed with extra length to accommodate the patient depth

Anterior Cervical Approach
Small 13mm inserter for implant balance and control

MEASURE, VISUALIZE, AND DELIVER THE IMPLANT
SYNERGYCORPECTOMY WITH STEALTHSTATION NAVIGATION AND O-ARM IMAGING

Targeted
bone removal & decompression

ONE STEP
implant selection using Stealth Station template measuring

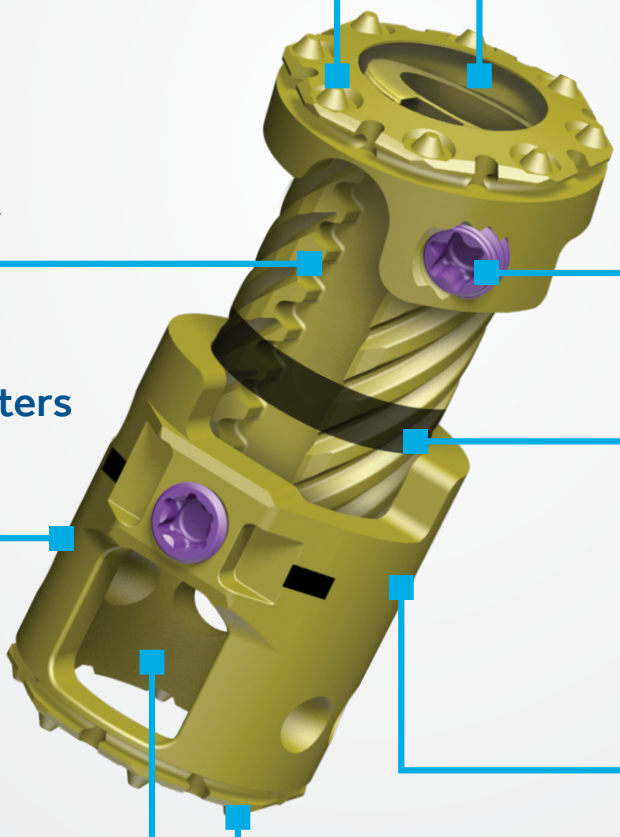
3-D visualization in all planes

1 Compared to T2 Altitude µ Device
2 Based on Internal Data on file
3 Final lock with driver through the inserter

IMPLANT FEATURES

Precision angulation with a built-in Self-Adjusting Multi-Axial End Cap allowing 16 degrees total range of motion

Large cavity for graft pre-packing



Continuous expansion and collapse capability

Manual locking of the Self-Adjusting Multi-Axial End Cap

Various implant diameters and heights to match the patient anatomy

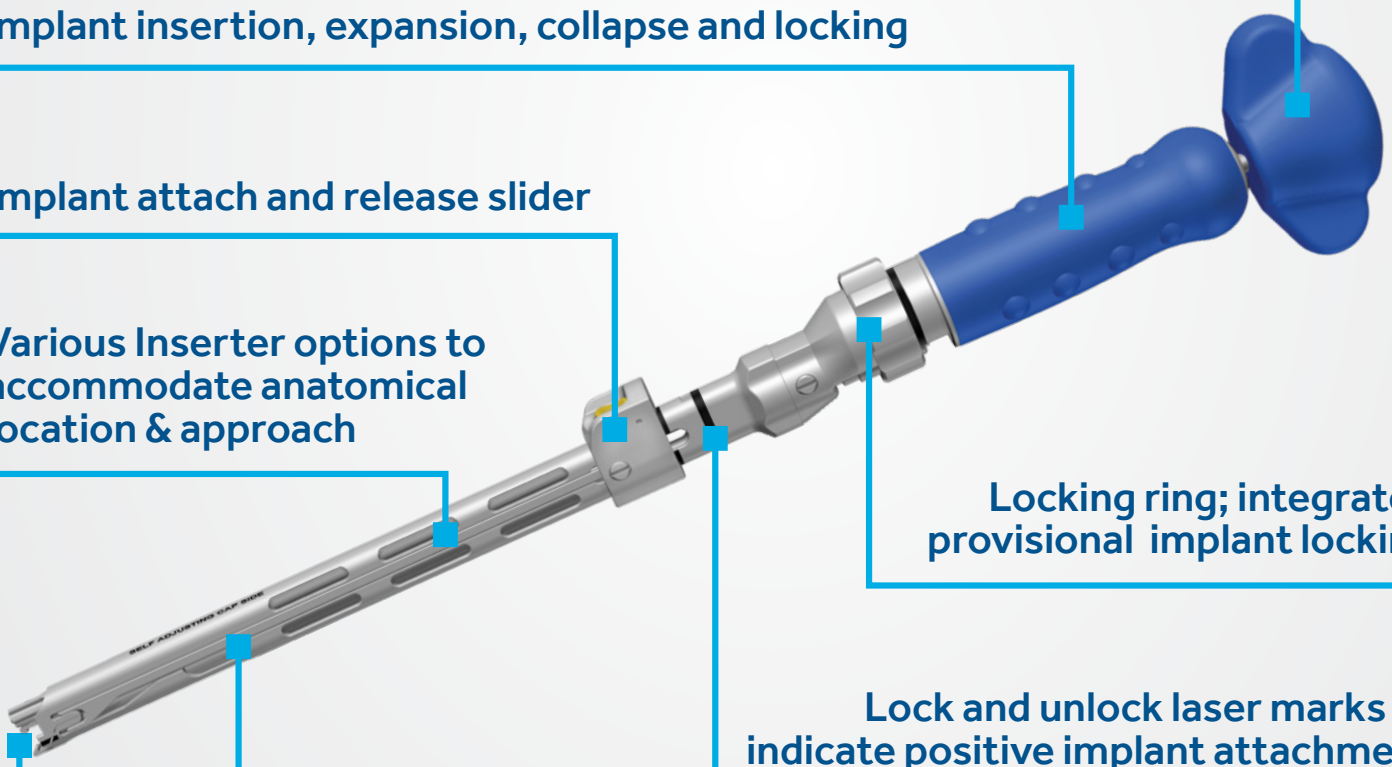
3mm wide maximum expansion laser mark

Grab and go implant design with no assembly required

Large window for graft post-packing

Optional Modular End Caps can be oriented to accommodate the surgical approach

INSTRUMENT FEATURES



Surgeon controlled distraction force with tactile feedback

Multi-functional all-in-one Inserters allow for implant insertion, expansion, collapse and locking

Implant attach and release slider

Various Inserter options to accommodate anatomical location & approach

Locking ring; integrated provisional implant locking

Lock and unlock laser marks to indicate positive implant attachment

Low profile Inserter shaft for visualization of the anatomy

Rigid implant attachment

CENTERPIECES

Fifteen Centerpiece Options

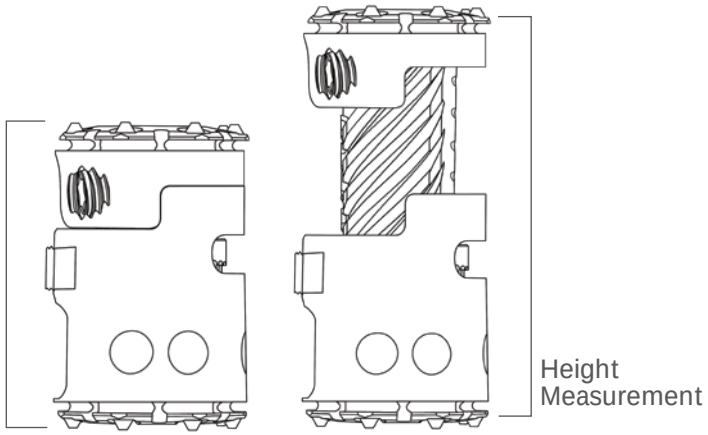
CENTERPIECE DIAMETER COMPARISON

Ø13mm Centerpiece

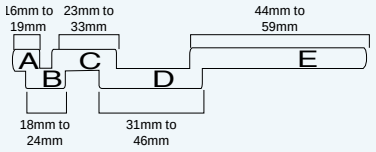
Ø20mm Centerpiece

Ø25mm Centerpiece

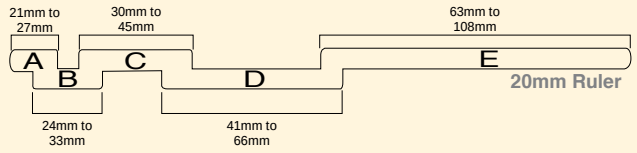
CENTERPIECE HEIGHT COMPARISON



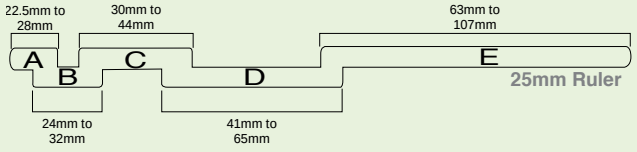
CENTERPIECE IMPLANT SELECTION



Size	Diameter (mm)	Collapsed Height (mm)*	Expanded Height (mm)**	End Cap Compatibility
13A	13	16	19	13mm & 16mm****
13B	13	18	24	13mm & 16mm****
13C	13	23	33	13mm & 16mm****
13D	13	31	46	13mm & 16mm****
13E	13	44	59	13mm & 16mm****



Size	Diameter (mm)	Collapsed Height (mm)*	Expanded Height (mm)**	End Cap Compatibility
20A	20	21	27	20mm & 22mm & 20mm Extended
20B	20	24	33	20mm & 22mm & 20mm Extended
20C	20	30	45	20mm & 22mm & 20mm Extended
20D	20	41	66	20mm & 22mm & 20mm Extended
20E***	20	63	108	20mm & 22mm & 20mm Extended



Size	Diameter (mm)	Collapsed Height (mm)*	Expanded Height (mm)**	End Cap Compatibility
25A	25	22.5	28	25mm & 30mm & 25mm Extended
25B	25	24	32	25mm & 30mm & 25mm Extended
25C	25	30	44	25mm & 30mm & 25mm Extended
25D	25	41	65	25mm & 30mm & 25mm Extended
25E***	25	63	107	25mm & 30mm & 25mm Extended

Note: The heights above are measured without End Caps attached to the Centerpiece.

*The collapsed height includes the spikes on the Centerpiece
**The expanded height does not include the spikes on the Centerpiece
***20E and 25E Centerpieces are not included in the set configuration
****For the 13mm Centerpieces, End Caps are cleared for use in the thoracolumbar spine only

END CAPS

Twenty-Three Modular End Cap Options

END CAP DIAMETER COMPARISON

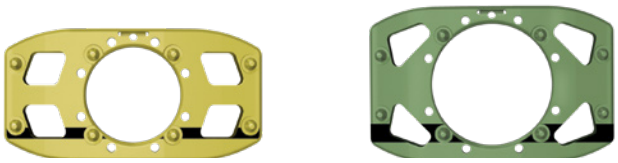
13mm | 16mm | 20mm | 22mm | 25mm | 30mm

END CAP ANGLE COMPARISON

0 degrees* | 8 degrees | 15 degrees

*Only available in 16mm, 22mm, 30mm End Cap options.

EXTENDED END CAP WIDTH COMPARISON



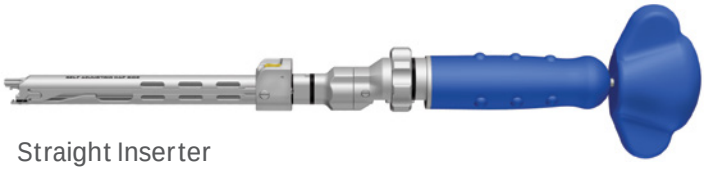
20mm | 25mm

Lengths available = 30mm, 35mm, 40mm, 45mm
Extended End Caps are only offered in 0 degrees.

Note
Modular End Caps are cleared for use in the thoracolumbar spine only.

Note
Only 0 degree End Caps are available in the StealthStation Software.

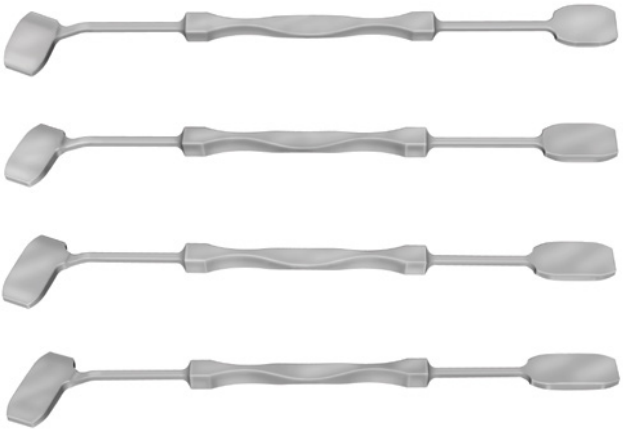
INSTRUMENTS



Straight Inserter
13mm, 4360113

Straight Inserter
20/25mm, 4360120

Angled Inserter
20/25mm, 4360221



Extended Template
20mm × 30mm, 4360030
20mm × 35mm, 4360035
20mm × 40mm, 4360040
20mm × 45mm, 4360045

Template
13/16mm, 4361316
20/25mm, 4362025
22/30mm, 4362230

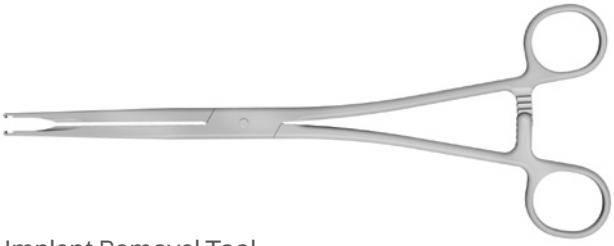
Caliper
13mm, 4360713
20/25mm, 4360720

End Cap Removal Tool
4360002

Bone Tamp
Small 9359003
Large 9359904

Torque Limiting Handle
T10, SC335010-J
T17, SC230020-J

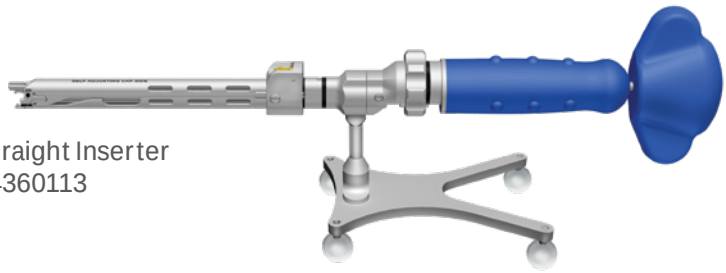
Driver
T10, 4360513
T17, 4360520



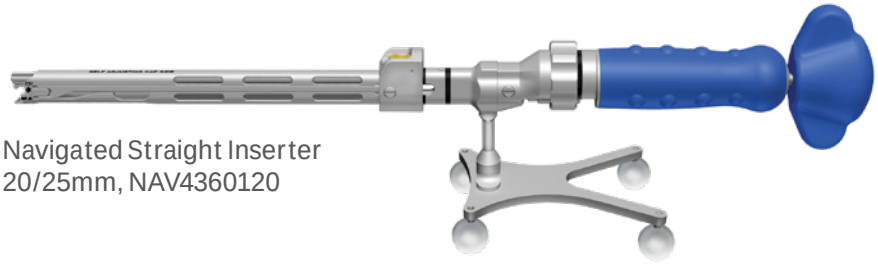
Implant Removal Tool
4360320

Loading Block
7975116

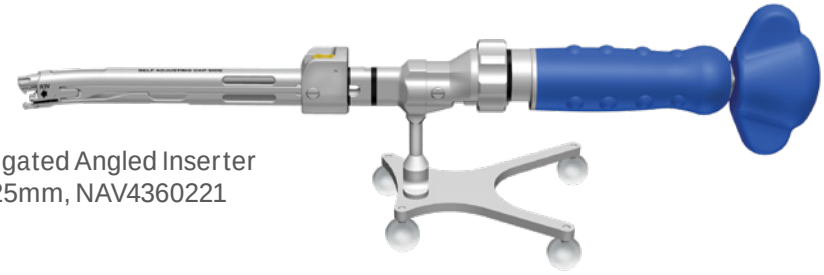
NAVIGATED **INSTRUMENTS**



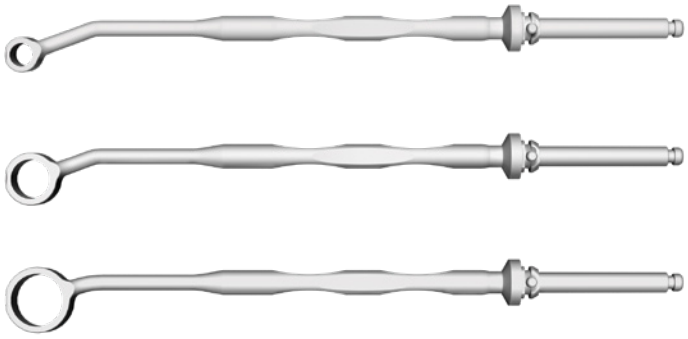
Navigated Straight Inserter
13mm, NAV4360113



Navigated Straight Inserter
20/25mm, NAV4360120



Navigated Angled Inserter
20/25mm, NAV4360221



Navigated Template
13mm, NAV4361316
20mm, NAV4362022
25mm, NAV4362530

Navigated Extended Template
20mm × 30mm, NAV4360030
FOR LATERAL APPROACH ONLY

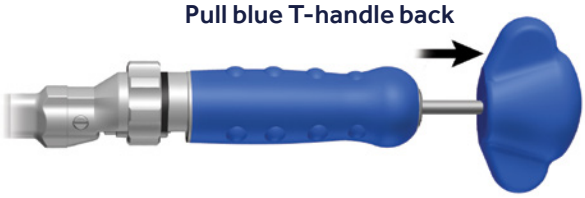
IMPLANT/INSERTER ASSEMBLY

1 Confirm that the Centerpiece height expands and collapses smoothly, before attachment to the inserter. Confirm that the End Cap is unlocked and that it freely rotates. If locked, use the Driver to unlock the set screws until resistance is felt. Do not fully remove the set screws.

2 Choose the appropriate Inserter that correlates with the implant.

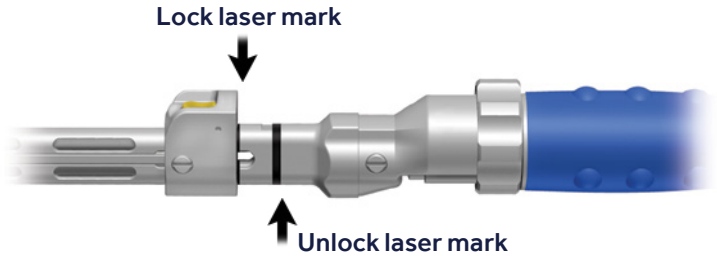
3 Hold the Inserter so the gold button is facing up.

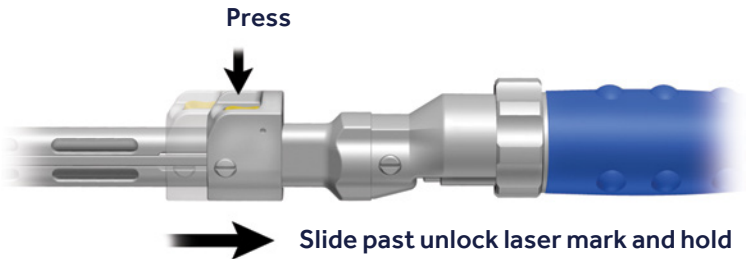
4



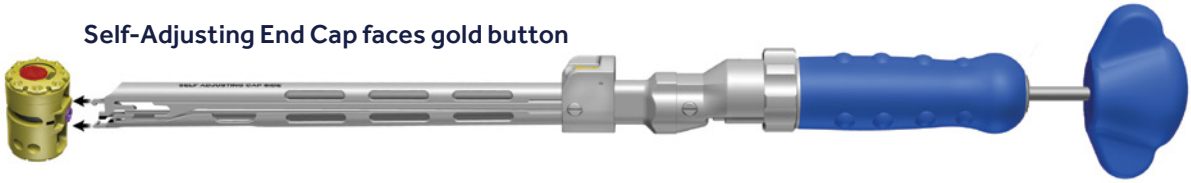
5

6



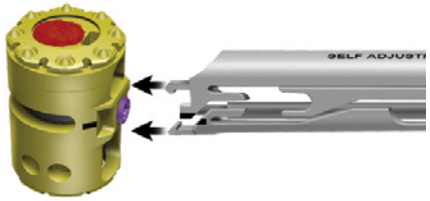


7



8

Align the prongs on the Inserter with the slots on the implant above and below the set screw



Prongs fit above and below set screw

9

Insert prongs

Press

10

Slide past lock laser mark

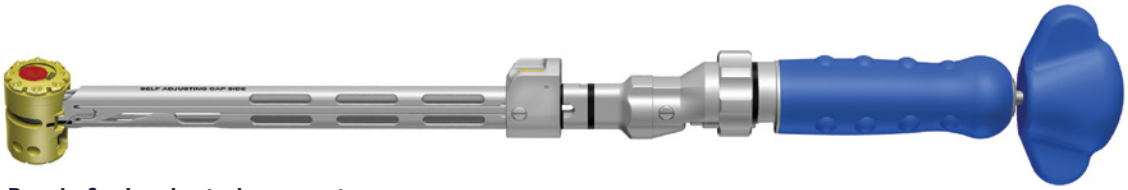
Push locking ring forward

11

12

Push blue T-handle forward

13



Ready for implant placement

PRODUCT ORDERING INFORMATION

SPSXV300 -
T2 Stratosphere Expandable Corpectomy System 13mm Instrument & Implant Set

CFN	Description	QTY
436013A	13mm, A-size Centerpiece	1
436013B	13mm, B-size Centerpiece	1
436013C	13mm, C-size Centerpiece	1
436013D	13mm, D-size Centerpiece	1
436013E	13mm, E-size Centerpiece	1
4360160	End Cap 16mm, 0˚	2
4360138	End Cap 13mm, 8˚	2
4360168	End Cap 16mm, 8˚	2
4360135	End Cap 13mm, 15˚	2
4360165	End Cap 16mm, 15˚	2
4360113	13mm Inserter	1
4361316	13mm/16mm Template	1
4360713	13mm Caliper	1
7975116	Loading Block	1
4360320	Implant Removal Tool	1
4360513	T10 Driver	2
SC335010-J	T10 Torque Limiting Handle	1
4360002	End Cap Removal Tool	1
9359003	Small Bone Tamp	1

SPSXV400 -
T2 Stratosphere Expandable Corpectomy System Extended Templates & Extended End Caps Set

CFN	Description	QTY
4360030	30mm Extended Template	1
4360035	35mm Extended Template	1
4360040	40mm Extended Template	1
4360045	45mm Extended Template	1
436020300	Extended End Cap 20 x 30mm, 0˚	2
436020350	Extended End Cap 20 x 35mm, 0˚	2
436020400	Extended End Cap 20 x 40mm, 0˚	2
436020450	Extended End Cap 20 x 45mm, 0˚	2
436025300	Extended End Cap 25 x 30mm, 0˚	2
436025350	Extended End Cap 25 x 35mm, 0˚	2
436025400	Extended End Cap 25 x 40mm, 0˚	2
436025450	Extended End Cap 25 x 45mm, 0˚	2

SPSXV350 -
T2 Stratosphere Expandable Corpectomy System 20/25mm Instrument & Implant Set

CFN	Description	QTY
436020A	20mm, A-size Centerpiece	1
436020B	20mm, B-size Centerpiece	1
436020C	20mm, C-size Centerpiece	1
436020D	20mm, D-size Centerpiece	1
436025A	25mm, A-size Centerpiece	1
436025B	25mm, B-size Centerpiece	1
436025C	25mm, C-size Centerpiece	1
436025D	25mm, D-size Centerpiece	1
4360220	End Cap 22mm, 0˚	2
4360300	End Cap 30mm, 0˚	2
4360208	End Cap 20mm, 8˚	2
4360228	End Cap 22mm, 8˚	2
4360258	End Cap 25mm, 8˚	2
4360308	End Cap 30mm, 8˚	2
4360120	20mm/25mm Inserter	1
4362025	20mm/25mm Template	1
4362230	22mm/30mm Template	1
4360221	20mm/25mm Angled Inserter	1
4360720	20mm/25mm Caliper	1
7975116	Loading Block	1
4360520	T17 Driver	2
SC230020-J	T17 Torque Limiting Handle	1
4360002	End Cap Removal Tool	1
4360320	Implant Removal Tool	1
9359904	Large Bone Tamp	1

SPSXV550 -
T2 Stratosphere Navigation Instruments

CFN	Description	QTY
NAV4360120	20mm/25mm Navigated Inserter	1
NAV4360113	13mm Navigated Inserter	1
NAV4360221	20mm/25mm Navigated Angled Inserter	1
NAV4361316	13mm Navigated Template	1
NAV4362022	20mm Navigated Template	1
NAV4362530	25mm Navigated Template	1
NAV4360030	30mm Navigated Extended Template	1

Indications

The corpectomy procedure is performed using a variety of products. Please see respective product package insert for a complete listing of indications, contraindications, warnings and precautions.

CORPECTOMY DEVICES

Thoracolumbar (T1-L5)

T2 Stratosphere System is limited to use in skeletally mature patients to replace a collapsed, damaged, or unstable vertebral body due to tumor or trauma (i.e. fracture). The system is also intended for patients with advanced stage tumors in whom life expectancy is of insufficient duration to permit achievement of fusion. The T2 Stratosphere System must be used with supplemental fixation.

Cervical (C2-C7)

T2 Stratosphere System is limited to use in skeletally mature patients to replace a collapsed, damaged, or unstable vertebral body caused by tumor, trauma (i.e. fracture), or osteomyelitis, or for reconstruction following corpectomy performed to achieve decompression of the spinal cord and neural tissues in cervical degenerative disorders. This system is also intended for patients with advanced stage tumors in whom life expectancy is of insufficient duration to permit achievement of fusion. For the T2 Stratosphere System, cervical usage is limited to the 13mm Centerpiece only. The T2 Stratosphere system must be used with supplemental fixation and when used at more than two levels supplemental fixation should include posterior fixation.

Note: Navigation is limited to Thoracolumbar spine and Cervical Posterior options as specified.

FIXATION DEVICES

The Infinity™ OCT and Vertex™ Reconstruction Systems are intended to provide immobilization and stabilization of spinal segments as an adjunct to fusion, including for the following acute and chronic instabilities of the craniocervical junction, the cervical spine (C1 to C7) and the thoracic spine from T1-T3: traumatic spinal fractures and/or traumatic dislocations; instability or deformity; tumors involving the cervical spine. The Systems are also intended to restore the integrity of the spinal column even in the absence of fusion for a limited time period in patients with advanced stage tumors involving the cervical spine in whom life expectancy is of insufficient duration to permit achievement of fusion.

Properly used, the Atlantis Anterior Cervical Plate System is intended for anterior interbody screw fixation from C2 to T1. The indications and contraindications of spinal instrumentation systems should be well understood by the surgeon. The system is indicated for use in the temporary stabilization of the anterior spine during the development of cervical spinal fusions including for use in patients with trauma (including fractures) and tumors.

NOTA BENE: This device system is intended for anterior cervical intervertebral body fusions only.

WARNING: This device is not approved for screw attachment to the posterior elements (pedicles) of the cervical, thoracic, or lumbar spine.

The CD Horizon™ Spinal System with or without Sextant™ instrumentation is intended for posterior, non-cervical fixation as an adjunct to fusion including for the following indications: trauma (i.e. fracture or dislocation), tumor, and pseudarthrosis. Except for hooks, when used as an anterolateral thoracic/lumbar system, the CD Horizon™ Spinal System titanium, cobalt chrome, and stainless steel implants may also be used for the same indications as an adjunct to fusion. With the exception of DDD, the CD Horizon™ Legacy™ 3.5mm rods and associated components may be used for the aforementioned indications in skeletally mature patients as an adjunct to fusion.

Properly used, the Vantage™ Anterior Fixation System is intended to provide stabilization during the development of a solid spinal fusion. The specific indications include fracture, tumor resection, correction of severe instability and/or deformity when used in addition to a posterior spinal instrumentation system, and neoplastic disease

GRAFTON DBM DBF PRODUCTS

Indications

Grafton DBM DBF can be used in orthopedic or reconstructive bone grafting procedures. The product can also be used in bone grafting procedures in combination with autologous bone or other forms of allograft bone, or alone as a bone graft.

Risks

The presence of infection at the transplantation site is a contraindication for the use of this allograft. This allograft may contain trace amounts of antibiotics (gentamicin), surfactant, and other processing solutions. Caution should be exercised

if the patient is allergic to these antibiotics or chemicals.

Medtronic

Medtronic
Spinal and Biologics Business
Worldwide Headquarters

2600 Sofamor Danek Drive
Memphis, TN 38132

Medtronic Canada
Canadian Headquarters

99 Hereford Street
Brampton, ON L6Y 0R3

(905)460-3800
(800) 268-5346

The surgical technique shown is for illustrative purposes only. The technique(s) actually employed in each case will always depend upon the medical judgment of the surgeon exercised before and during surgery as to the best mode of treatment for each patient.

Please see the package insert for the complete list of indications, warnings, precautions, and other important medical information.

Medtronic Sofamor Danek USA, Inc.
1800 Pyramid Place
Memphis, TN 38132

(901) 396-3133
(800) 876-3133
Customer Service: (800) 933-2635

©2019 Medtronic. All Rights Reserved. Medtronic, Medtronic logo and Further, Together are trademarks of Medtronic. All other brands are trademarks of a Medtronic company. UC201908565 EC PMD022192-1.0 LITT2SREF19

medtronic.ca