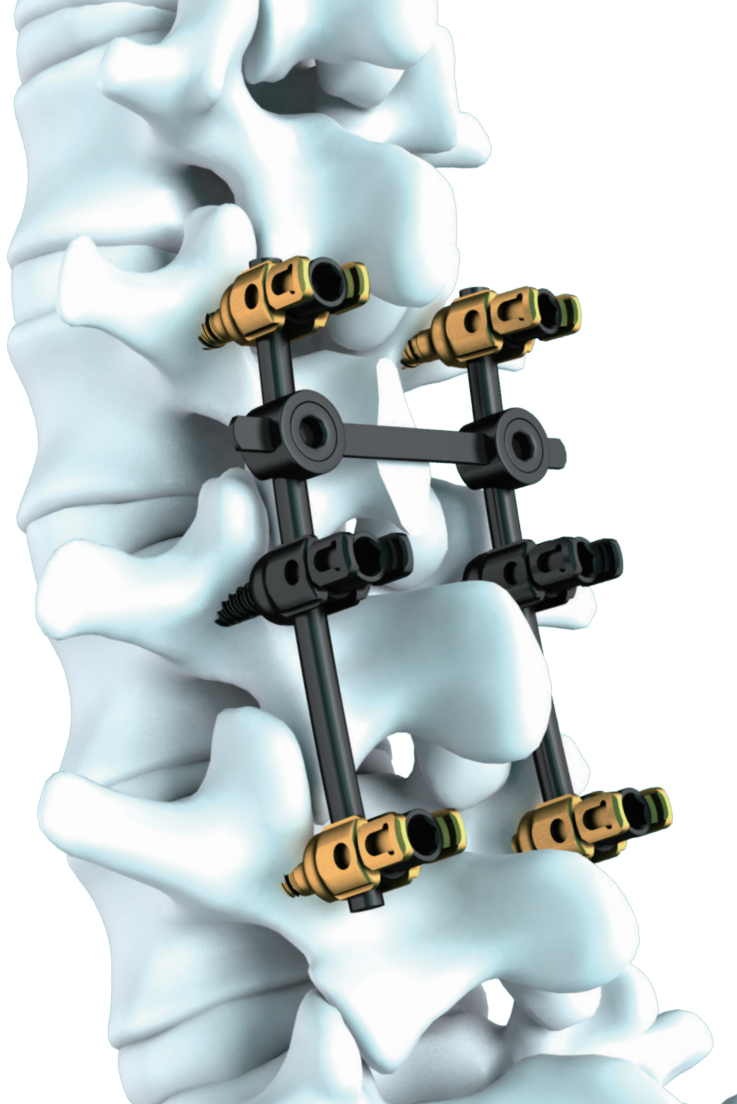




WASTON 华森
MEDICAL

PROFESSIONAL
RELIABLE

SPINE CATALOGUE

Health is Important



Introduction

Changzhou Waston Medical Appliance Co., Ltd, which is one of China's most dynamic and innovative surgical medical device manufacturers and service providers, was founded in 2002. It consists of five divisions, including the Orthopedics Department, Surgical Stapler Department, Thoracic Surgery Department, Surgical Instruments Department and New Product Development Department. Our company has three R&D and production bases, they are National Changzhou Hi-tech Industry Zone of Jiangsu, National Wujin Hi-tech Industry Zone of Jiangsu, and Science and Technology Center of Changzhou separately.



Waston's Orthopedics Department locates at Wujin National Hi-Tech Industry zone of Jiangsu. Our company covers an area of 100,000 m², with standard factory 50,000 m², purification plant 3,000 m² and R & D center 3,000m². The company has workers with senior or above level who are responsible for the R&D, manufacture and management accounting for more than 40% of the total number of employees. We have a full set of international advanced equipment such as 5-axis machining centers, slitting machine tools, CNC machine tools and 3D printers. Relying on the Beijing Union Medical College Hospital, Beijing Military General Hospital, Southern Medical University, South China University of Technology, Suzhou University, Changzhou Science & Education Town and other institutions of technical support and close cooperation, Watson company has the domestic first-class R&D and processing capacity. In strict implementation of ISO and CMD standard operating, all the products have passed European Union CE certificates of TUV and parts of them have been proved by FDA With reliable quality, attentive service, WASTON is widely recognized within the industry in the domestic market.

Corporate philosophy: Create by heart, Share of development

Corporate mission and objectives: with rigorous scientific attitude, the concept of continuous innovation and a deep understanding of clinical medicine to research and develop high-quality medical products which fit the clinical and is easy-to-use. It may be waston's greatest happiness to be domestic and foreign customers trusted national brands.



Catalogue

I. Cervical

1.WALEN Anterior Cervical System.....	1
2.NEULEN Cervical Laminoplasty system.....	6

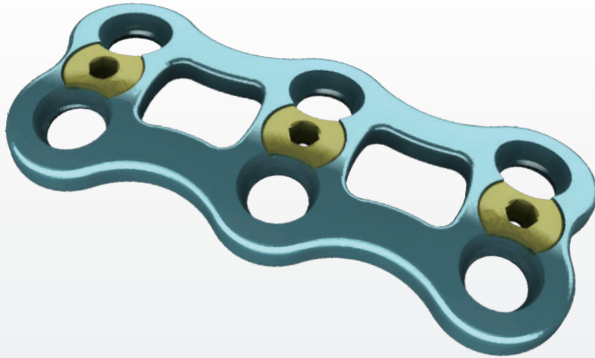
II. Lumbar

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WALEN Anterior Cervical System



Indication

- Trauma, degenerative diseases, tumor, spinal canal stenosis and Instability & spondylolisthesis caused by fusion failure.

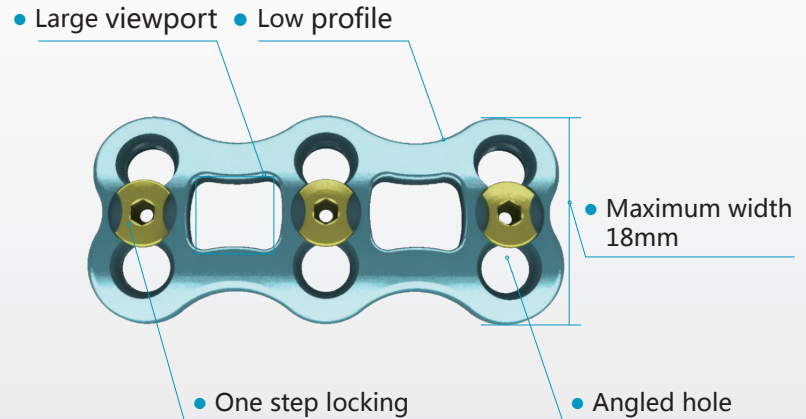
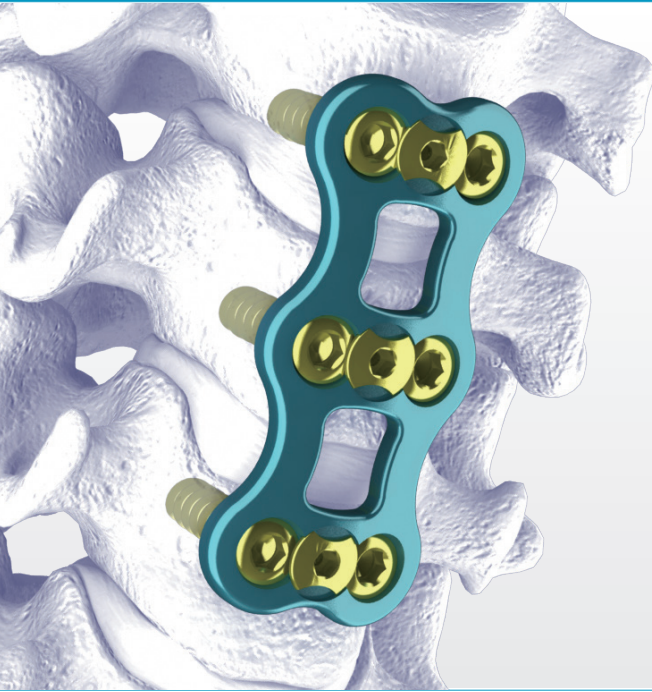
Feature

- Non limiting system; large viewport; visible endplate; self-tapping screw; low profile plate with locking device; screw guide system.

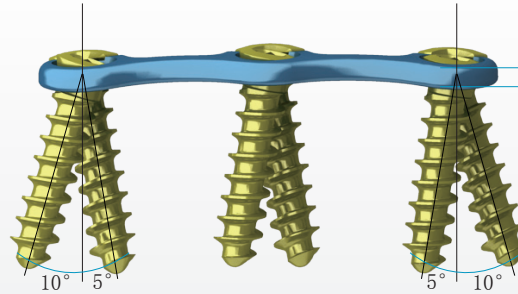
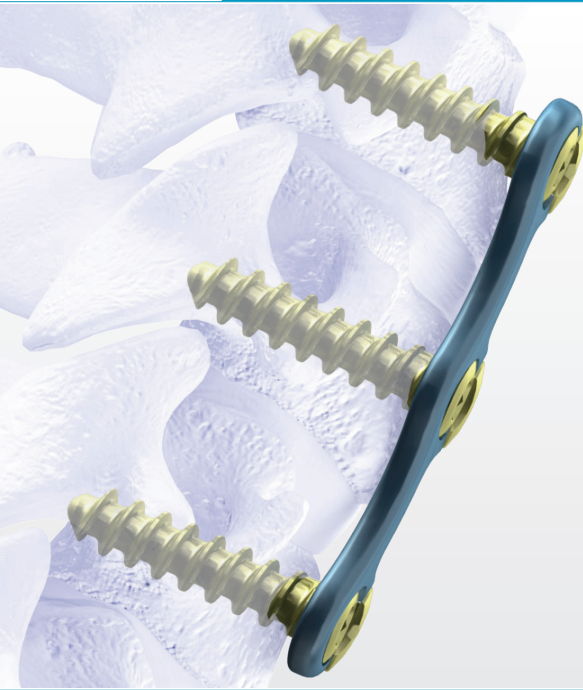
Advantage

- Choose fixed structure according to operation needs;
- Easy to observe bone graft in operation and do evaluation after;
- Reduce operation time, increase screw's holding force;
- Keep middle vertebral body stable in multilevel discectomies;

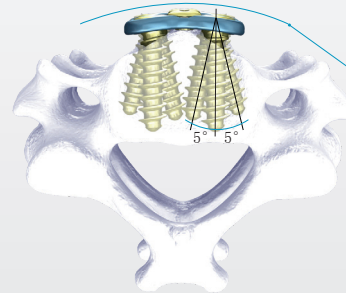
WALEN Anterior Cervical System



WALEN Anterior Cervical System



• Thickness only 2.1mm



• Anatomical shape design

WALEN Anterior Cervical System



Product code	Holes	Length(mm)
11124- (025/027/030)	4	25/27.5/30
11124- (137/140/145)	6	37.5/40/45
11124- (252/255)	8	52.5/55



Vertebral screw

Product code	Dia.	Length(mm)
11125- (012 ~ 018)	3.5	12/13/14/15/16/17/18

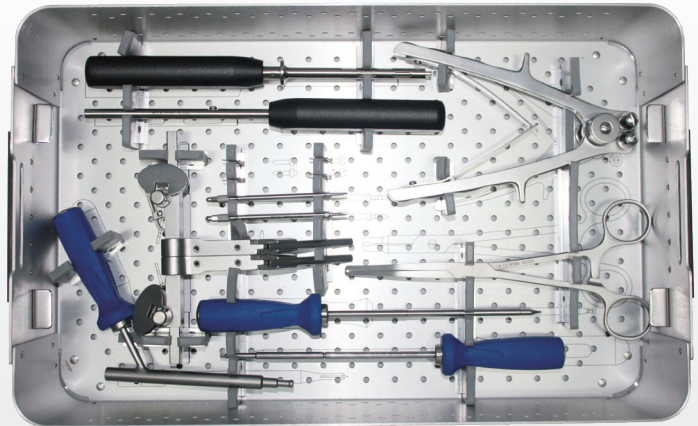
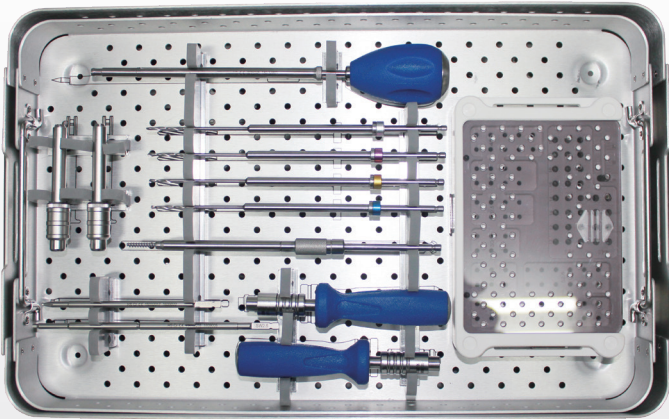


Revision screw

Product code	Dia.	Length(mm)
11126- (012 ~ 018)	4.0	12/13/14/15/16/17/18

WALEN Anterior Cervical System Instruments

15032



NEULEN Cervical Laminoplasty System

Feature

- Immediate lamina supporting in surgery, best maintain the canal plasty expanded;
- The lower dentate supporting plate provides a more stable supporting force;
- Arc openings provide better inclusion;
- Has certain plasticity, can be slightly moulded in operation.

Advantage

- Provide a stable support for vertebral body decompression;
- Four holes is better for surgery requirement;
- The unique angle makes vertebral body more stable.

Neulen plate

- 90-95°
Dentate Stable support

- Arc openings provide better inclusion



NEULEN Cervical Laminoplasty System



NEULEN Screw(Cross self-tapping)

Product code	Dia.	Length(mm)
10511-306	2.5	6
10511-308		8
10511-310		



NEULEN Plate

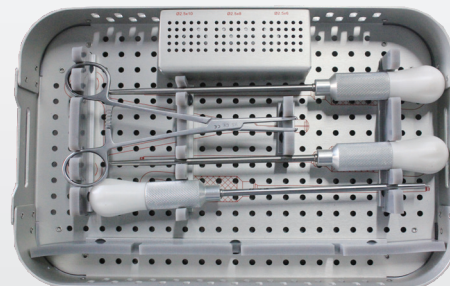
Product code	Height(mm)
11101-012	12
11101-014	14
11101-016	16



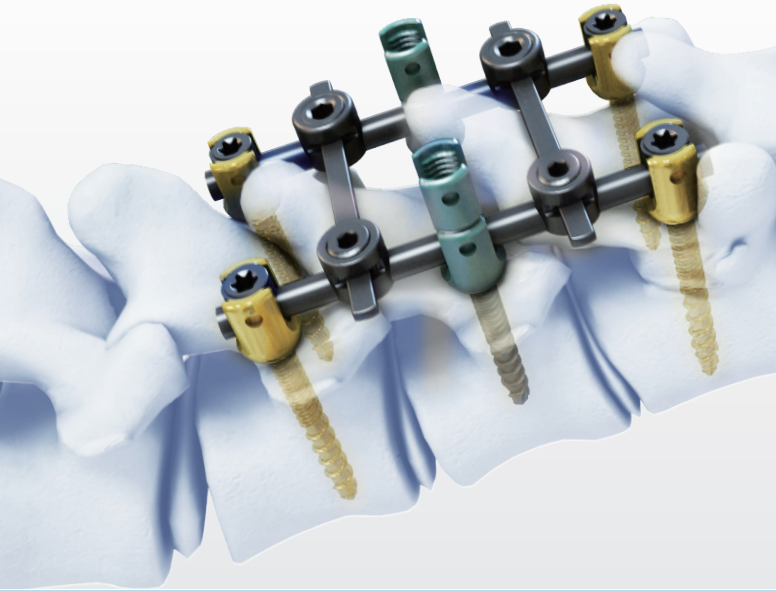
NEULEN Screw(Cross self-tapping&drilling)

Product code	Dia.	Length(mm)
10511-406	2.5	6
10511-408		8
10511-410		10

15067 NEULEN Plate Instruments



Master 10 Spinal System



Feature

- Low profile on top opening, reduce postoperative foreign body sensation;
- Safe, easy to operate;
- Design of partial trapezoidal thread, reliable locking, wide application;
- Unique plum nut prevents slip in operation;
- Conical screw core and taper thread combination, ensure the ability of bone fixation;
- After repeated tests, the product is stable and reliable;
- Used with 6.0mm (diameter) connecting rod.

Indication

- Applied to vertebral fractures, spondylolisthesis, tumor.

Master 10 Spinal System

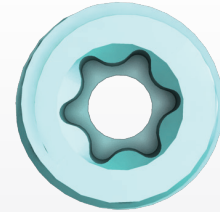
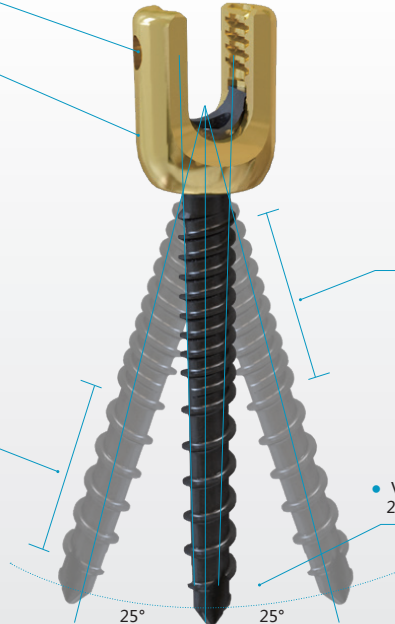
- The head of the screw bolt allows a larger tool to minimize the stress exerted on the pedicle

- Low profile design

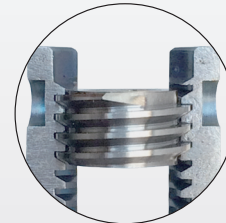
- Cancellous screw thread

- Cortical screw thread

- Variable angle pedicle screws provide 25° in any direction

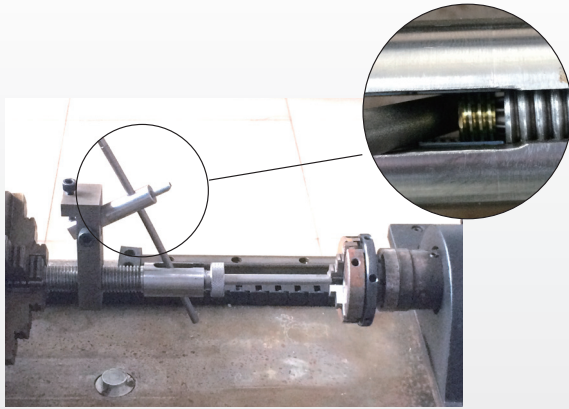


- Unique plum nut prevents slip in operation

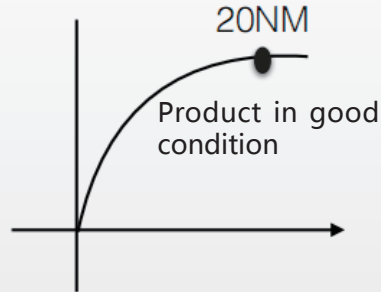


- Locking plug is designed to prevent prolapse with trapezoidal thread

Master 10 Spinal System



Maximum Torque Test



Test Result

- It is recommended to use this tool in final locking to avoid man-made damage



Torque Limiting Tool

Master 10 Spinal System



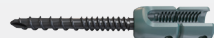
Poly-axial Screw
(U-II)

Product code	Dia.	Length(mm)
11469- (235~245)	5.5	35/40/45
11469- (335~350)	6.0	35/40/45/50
11469- (435~455)	6.5	35/40/45/50/55
11469- (535~545)	7.0	35/40/45



Mono-axial Screw
(U-III)

Product code	Dia.	Length(mm)
11470- (235~245)	5.5	35/40/45
11470- (335~350)	6.0	35/40/45/50
11470- (435~455)	6.5	35/40/45/50/55
11470- (535~545)	7.0	35/40/45



Long Mono-axial
Screw
(U-IV)

Product code	Dia.	Length(mm)
11471- (235~245)	5.5	35/40/45
11471- (335~350)	6.0	35/40/45/50
11471- (435~455)	6.5	35/40/45/50/55
11471- (535~545)	7.0	35/40/45



Long Poly-axial
Screw
(U-V)

Product code	Dia.	Length(mm)
11472- (235~245)	5.5	35/40/45
11472- (335~350)	6.0	35/40/45/50
11472- (435~455)	6.5	35/40/45/50/55
11472- (535~545)	7.0	35/40/45

Master 10 Spinal System Instruments

15028



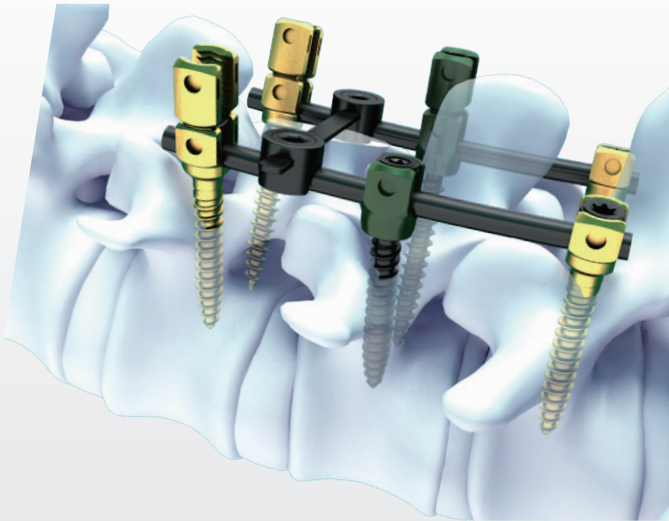
Master 9 Spinal System

Feature

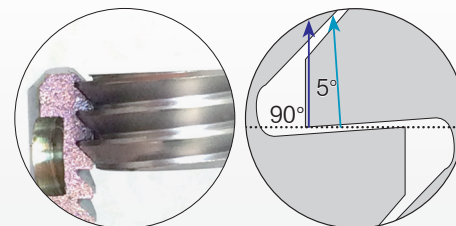
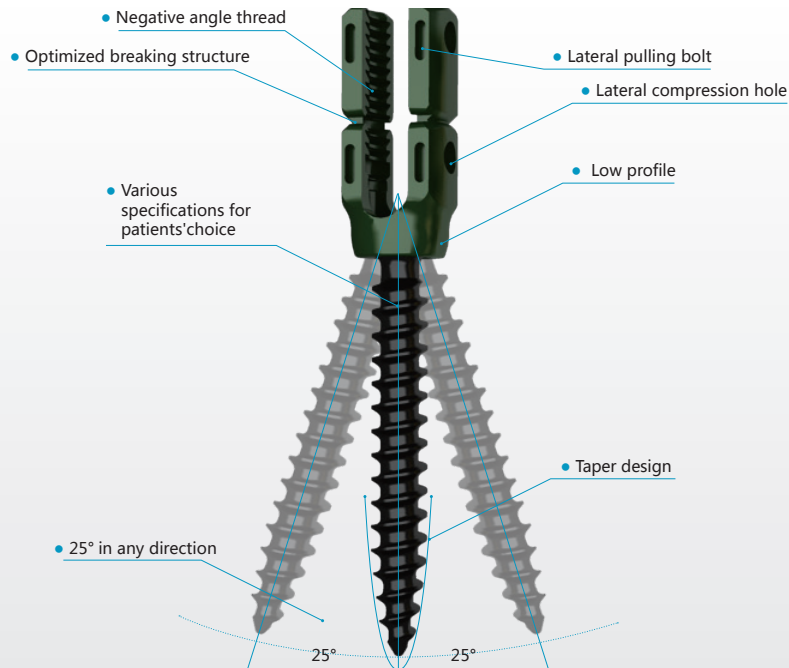
- New Master 9 system;
- Reverse screw design, the nut is easy to install to prevent slipping and opening;
- Lower profile design keeps the adjacent articular process, provide more bone graft space;
- A system can solve problems of the detachment, fracture, lateral bending etc;
- After repeated tests, the product is stable and reliable;
- Used with 5.5mm (diameter) connecting rod.

Indication

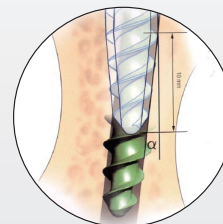
- Suitable for lower thoracic spine, upper lumbar vertebral fracture, tumor, or smaller patient.



Master 9 Spinal System

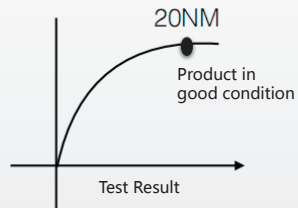
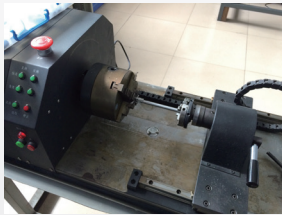


Negative angle locking mechanism

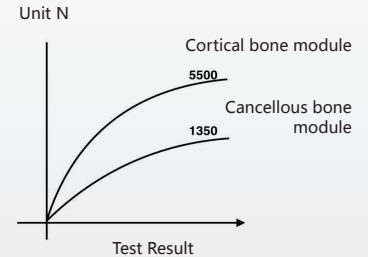
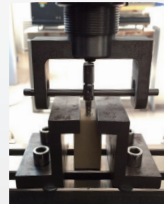


Taper thread, precise guide

Master 9 Spinal System



Torque Test



Pull-out Strength Test

Master 9 Spinal System



Short Mono-axial Screw
(IV)

Product code	Dia.	Length(mm)
11361- (025 ~ 035)	4.0	25/30/35
11361- (125 ~ 140)	4.5	25/30/35/40
11361- (230 ~ 250)	5.0	30/35/40/45/50
11361- (330 ~ 350)	5.5	30/35/40/45/50
11361- (430 ~ 450)	6.0	30/35/40/45/50
11361- (530 ~ 550)	6.5	30/35/40/45/50
11361- (630 ~ 650)	7.0	30/35/40/45/50
11361- (735 ~ 755)	7.5	35/40/45/50/55



Long Mono-axial Screw
(VIII)

Product code	Dia.	Length(mm)
11363- (025 ~ 035)	4.0	25/30/35
11363- (125 ~ 140)	4.5	25/30/35/40
11363- (230 ~ 250)	5.0	30/35/40/45/50
11363- (330 ~ 350)	5.5	30/35/40/45/50
11363- (430 ~ 450)	6.0	30/35/40/45/50
11363- (530 ~ 550)	6.5	30/35/40/45/50
11363- (630 ~ 650)	7.0	30/35/40/45/50
11363- (735 ~ 755)	7.5	35/40/45/50/55



Short Poly-axial Screw
(IV)

Product code	Dia.	Length(mm)
11362- (025 ~ 035)	4.0	25/30/35
11362- (130 ~ 145)	4.5	30/35/40/45
11362- (235 ~ 255)	5.0	35/40/45/50/55
11362- (335 ~ 355)	5.5	35/40/45/50/55
11362- (435 ~ 455)	6.0	35/40/45/50/55
11362- (535 ~ 555)	6.5	35/40/45/50/55
11362- (640 ~ 660)	7.0	40/45/50/55/60

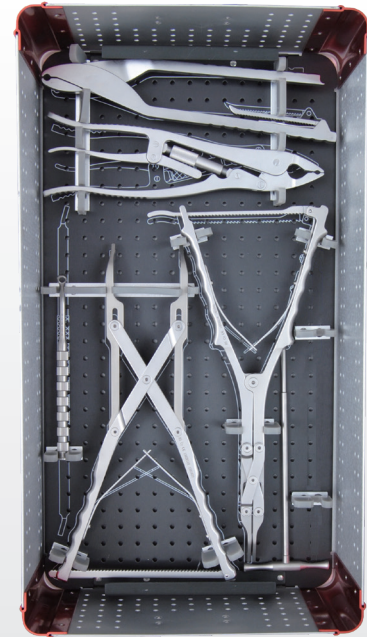
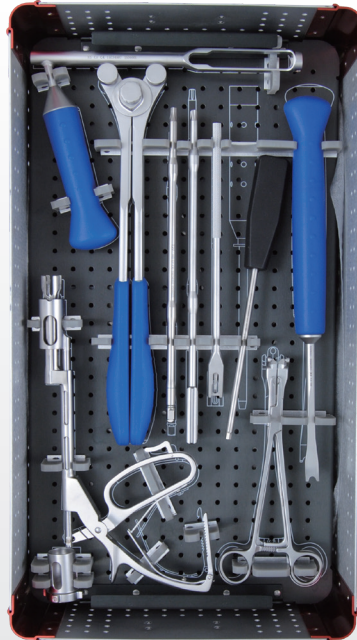


Long Poly-axial Screw
(VIII)

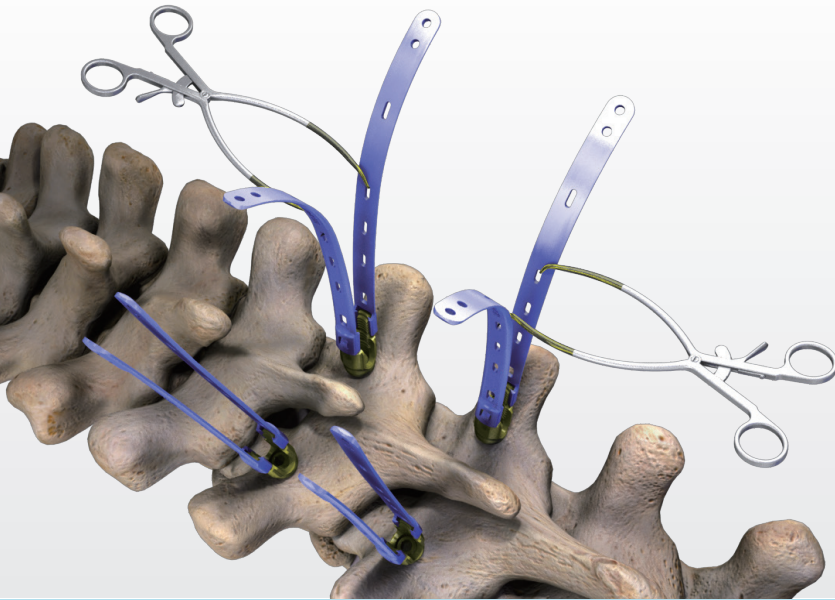
Product code	Dia.	Length(mm)
11364- (025 ~ 035)	4.0	25/30/35
11364- (130 ~ 145)	4.5	30/35/40/45
11364- (235 ~ 255)	5.0	35/40/45/50/55
11364- (335 ~ 355)	5.5	35/40/45/50/55
11364- (435 ~ 455)	6.0	35/40/45/50/55
11364- (535 ~ 555)	6.5	35/40/45/50/55
11364- (640 ~ 660)	7.0	40/45/50/55/60

Master 9 Spinal System Instruments

15034



Master 7 Spinal System



Feature

- Master 7 system show a new minimally invasive technology and concept;
- Reverse screw design avoids slipping, get better holding force;
- Flexible minimally invasive pathway, conducive to adjustment and increase vision field;
- Hollow double section thread design can get a good control effect on osteoporosis.
- Human engineering design tools, more comfortable, more convenient to install;
- Used with 5.5mm(diameter) connecting rod.

Indication

- Suitable for minimally invasive posterior thoracolumbar spine operation.

Master 7 Spinal System



- Priority break design

- Negative angle screw

- Low profile design

- Hollow structure For minimally invasive techniques



- Minimally invasive channel flexible locking device One step locking, prevent slipping

- Half double thread Improve the control of the vertebral body, make screw in more simple

Master 7 Spinal System Instruments

15033



Mono-axial screw

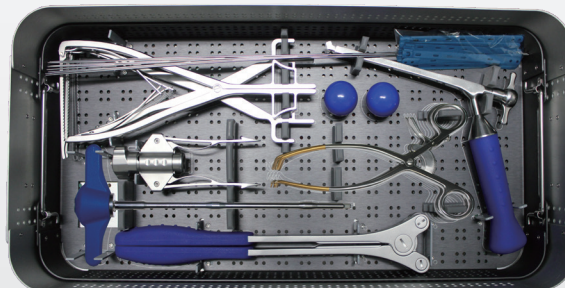
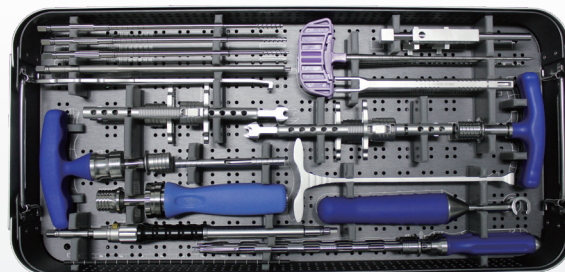
Product code	Dia.	Length(mm)
11270- (330~350)	5.0	30/35/40/45/50
11270- (430~450)	5.5	30/35/40/45/50
11270- (530~550)	6.5	30/35/40/45/50



Poly-axial screw

Product code	Dia.	Length(mm)
11271- (130~145)	4.5	30/35/40/45
11271- (230~250)	5.0	30/35/40/45/50
11271- (330~350)	5.5	30/35/40/45/50
11271- (530~550)	6.5	30/35/40/45/50

15033 Master 7 Spinal System Instruments



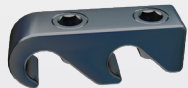
A9 Anterior Thoracolumbar System

Feature

- Use anterior pad with A9 crosslink, suitable for clinical anterior operation, the lower teeth of the gasket have a good control effect on the vertebral body, used with Master9 vertebral screw.



Product parameters



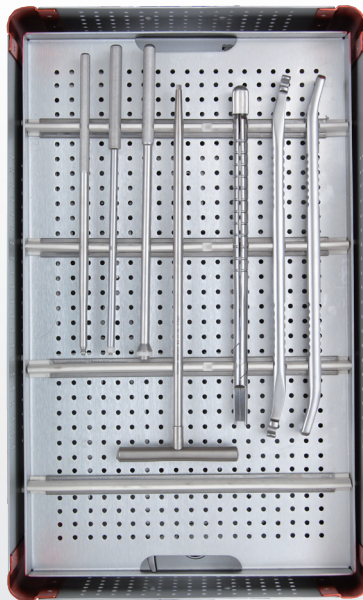
A9 Cross link	
Product code	Length(mm)
11537-013	13
11537-014	14
11537-015	15
11537-016	16
11537-017	17
11537-018	18
11537-019	19
11537-020	20



Staple		
Product code	Specification	Length(mm)
11515-060	L	60
11515-160	M	
11515-260	S	
11516-012 (112)	L/S (R/S)	
11516-015 (115)	L/M (R/M)	
11516-018 (118)	L/L (R/L)	

A9 Anterior Thoracolumbar System Instruments

15024



Crosslink and Fixing Rod



Crosslink IV (Ø5.5)

Product code	Dia.	Length(mm)
11334-(060 ~ 070)	5.5	60/65/70



Crosslink III (Ø5.5)

Product code	Dia.	Length(mm)
11333-(060 ~ 080)	5.5	60/65/70/75/80



Fixing rod IV (Ø5.5)

Product code	Dia.	Length(mm)
11314-(050~200)	5.5	50/55/60-200
11314-(300~500)	5.5	300/400/500

Crosslink IV (Ø6.0)

Product code	Dia.	Length(mm)
11434-(060 ~ 070)	6.0	60/65/70

Crosslink III (Ø6.0)

Product code	Dia.	Length(mm)
11433-(060 ~ 080)	6.0	60/65/70/80

Fixing rod IV (Ø6.0)

Product code	Dia.	Length(mm)
11412-(050~200)	6.0	50/55/60-200
11412-(300~500)	6.0	300/400/500

Crosslink and Fixing Rod



Fixing Rod (Mini Invasive)

Product code	Dia.	Length(mm)
11272-(030~085)	5.5	30/35/40~85
11272-(090~120)	5.5	90/100/110~120
11272-(140~250)	5.5	140/160/180~250



Curved Fixing Rod (Mini Invasive)

Product code	Dia.	Length(mm)
11272-(345~380)	5.5	45/50/55~80
11272-(390~420)	5.5	90/100/110~120



11237 Break-off Setscrew



11324 Setscrew

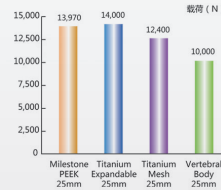
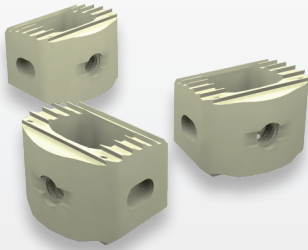


11533 Extension Plate

Intervertebral Fusion Cage (Cervical)

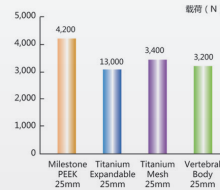
Feature

- Anatomic design, use metal needle to develop;
- PEEK elastic modulu is close to human bone, avoid the bone resorption caused by stress shielding;
- Fit with end plate, have good stability.



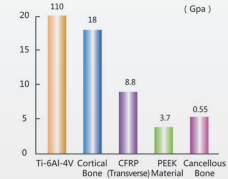
Limit intensity

High resisting dash limit intensity



Fatigue intensity

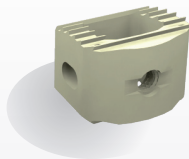
High resisting limit fatigue intensity
There is no fragments in fatigue experiment



Elastic modulus

Elastic modulus approach to bony

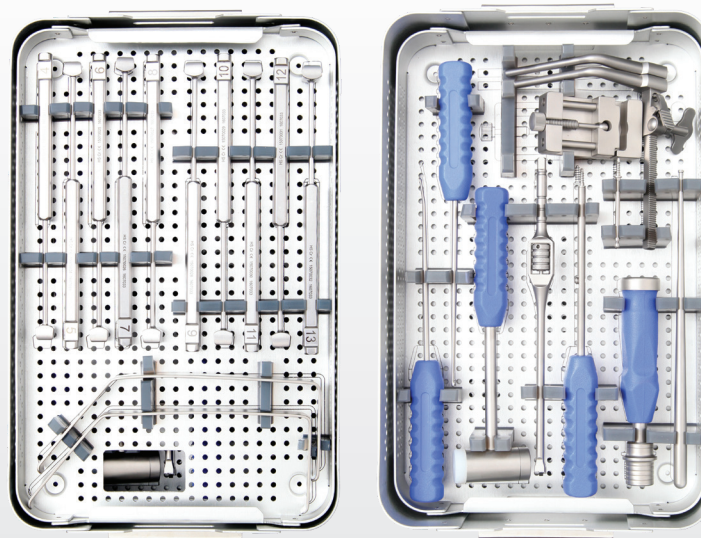
Intervertebral Fusion Cage (Cervical)



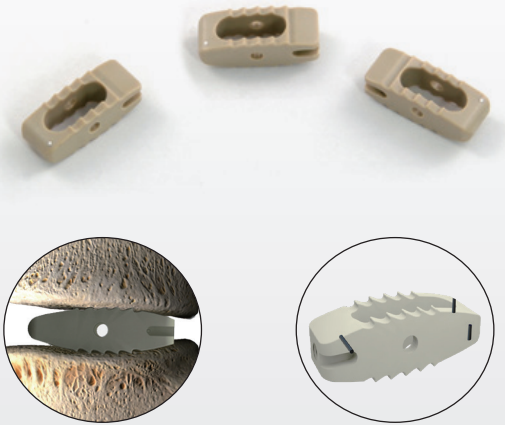
PEEK- OPTIMA®

Dimension			
Product code	Length(mm)	Width(mm)	Height(mm)
61621-(004~013)	11	14	4/5/6/7/8/9/ 10/11/12/13

15070 Cervical Cage Instruments



Intervertebral Fusion Cage (Lumbar)



Feature

- Bullet head design,easier to enter with an automatic opening effect;
- The surface of the implant is in form of teeth, which can effectively prevent the implant from moving forward or backward;
- The metal needle is suitable to observe the placement of the implant.

Indication

- This product applies to PLF, TLF, DLF, also applies to minimally invasive surgery or open surgery.

Intervertebral Fusion Cage (Lumbar)



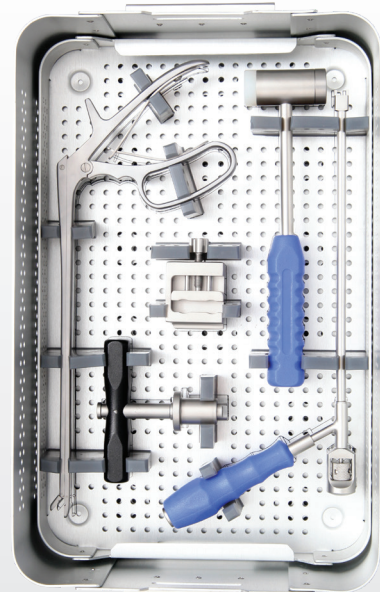
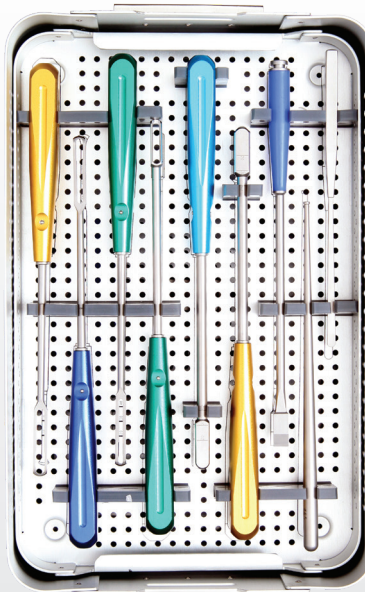
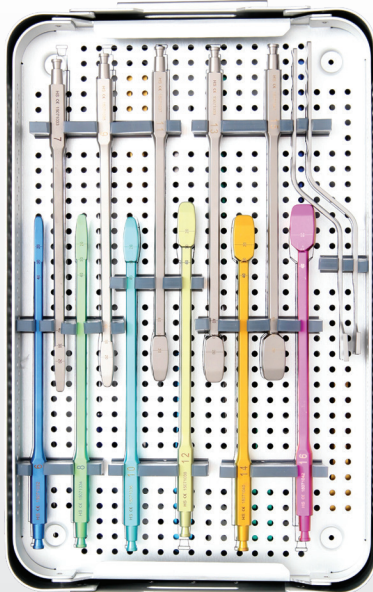
PEEK- OPTIMA[®]

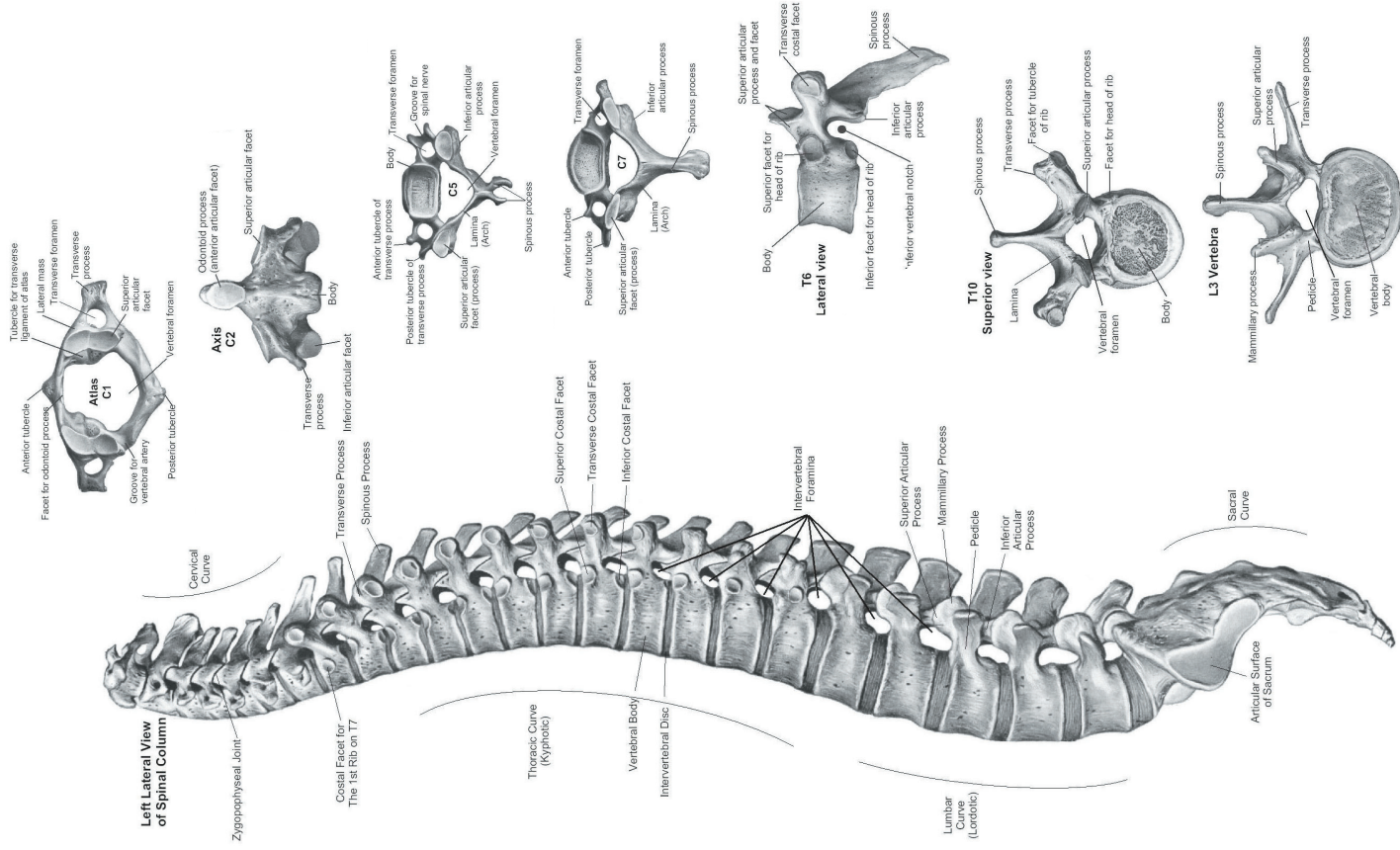
Dimension			
Product code	Length(mm)	Width(mm)	Height(mm)
61602- (006~012)	20	10	6/8/10/12
61606- (007~013)	22	10	7/9/11/13
61610- (008~014)	26	10	8/10/12/14
61614- (009~015)	32	10	9/11/13/15
61619- (010~016)	36	12	10/12/14/16

- PEEK elastic modulu is close to human bone, avoid the bone resorption caused by stress shielding;

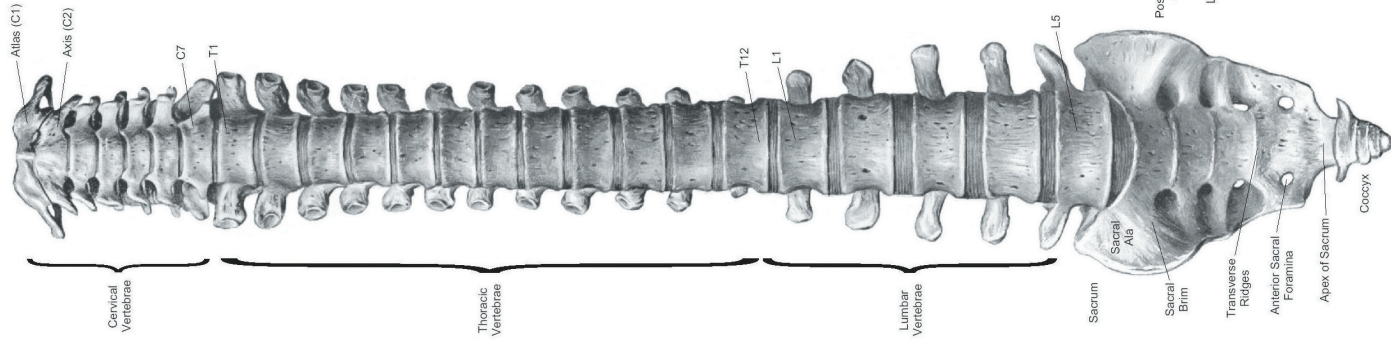
Lumbar Cage Instruments

15071

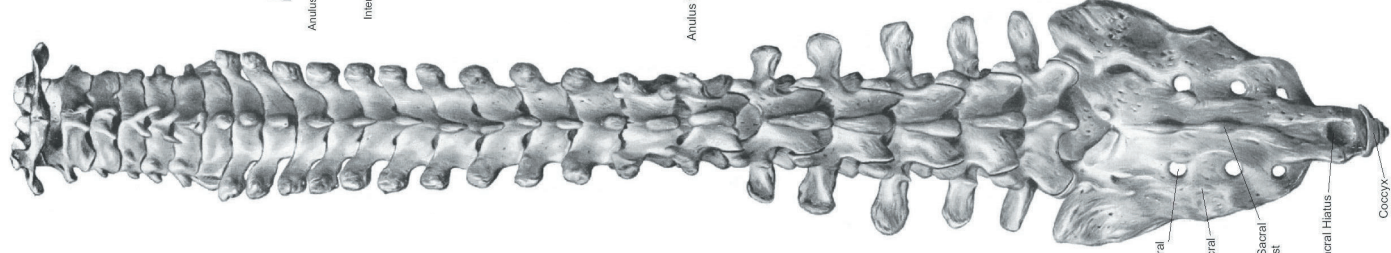




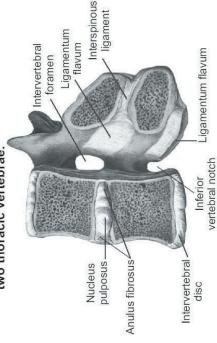
Anterior Spinal Column



Posterior Spinal Column



Ligamenta flava connecting two thoracic vertebrae.



Horizontal section through an intervertebral disc



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