



  
**SURGICAL**  
— STOCK —

# 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 m<sup>2</sup>, with standard factory 50,000 m<sup>2</sup>, purification plant 3,000 m<sup>2</sup> and R & D center 3,000m<sup>2</sup>. 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

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# WALEN Anterior Cervical System



## Indication

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

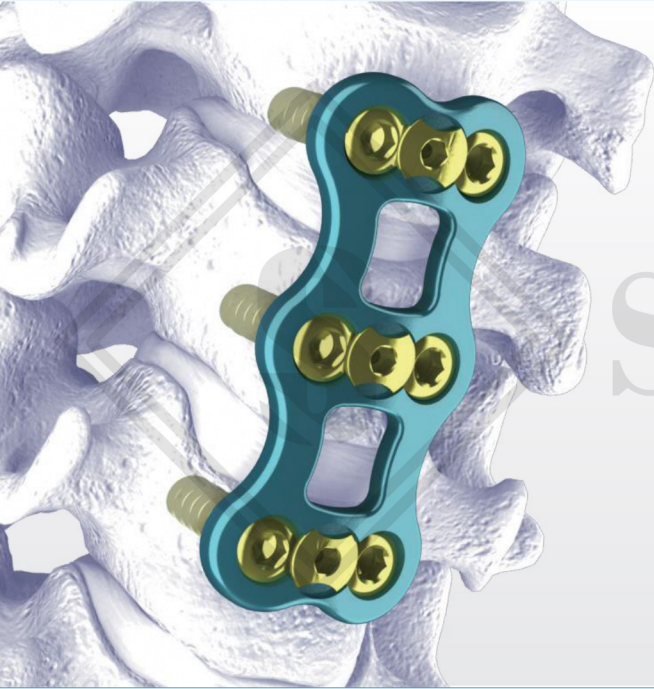
## Feature

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

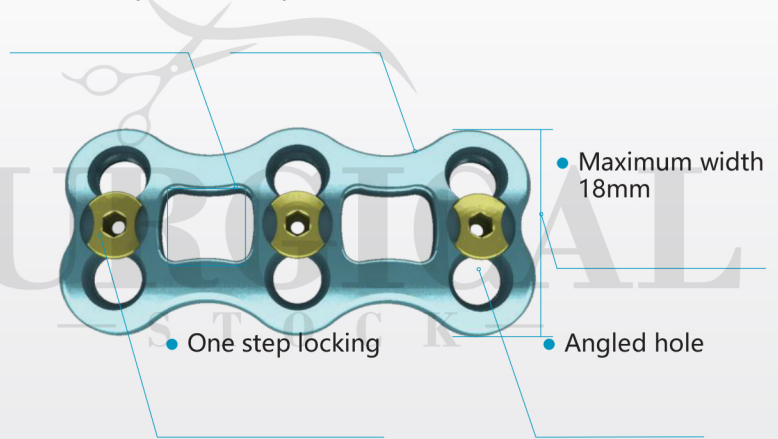
## Advantage

- 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;

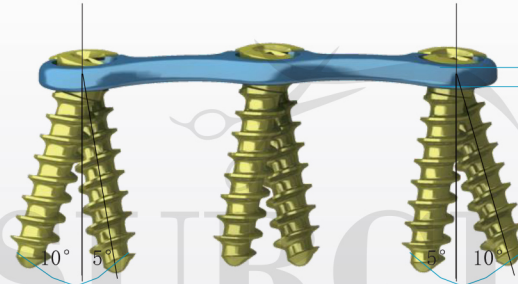
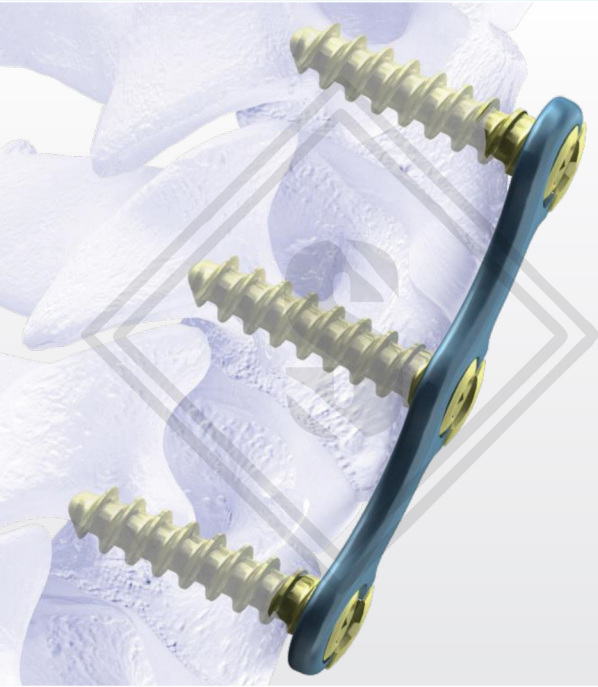
# WALEN Anterior Cervical System



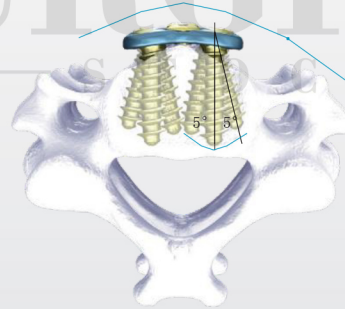
- Large viewport
- Low profile



# WALEN Anterior Cervical System



• Thickness only 2.1mm



• Anatomical shape design

# WALEN Anterior Cervical System



Vertebral screw



Revision screw

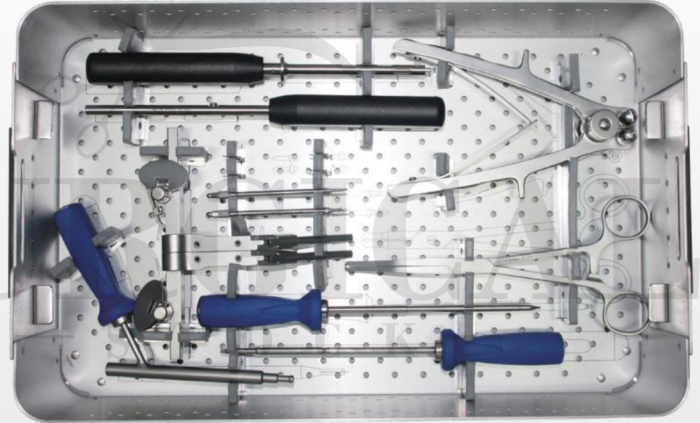
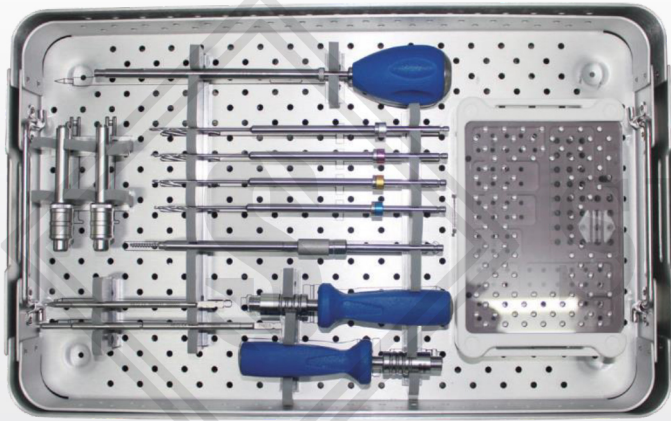
Product code	Holes	Length(mm)
AJ-2000	4	25/27.5/30
AJ-2001	6	37.5/40/45
AJ-2002	8	52.5/55

Product code	Dia.	Length(mm)
AJ-2003	3.5	12/13/14/15/16/17/18

Product code	Dia.	Length(mm)
AJ-2004	4.0	12/13/14/15/16/17/18

# WALEN Anterior Cervical System Instruments

AJ-2039



# 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





# NEULEN Cervical Laminoplasty System



NEULEN Screw(Cross self-tapping)

Product code	Dia.	Length(mm)
AJ-2005	2.5	6
AJ-2006		8
AJ-2007		



NEULEN Plate

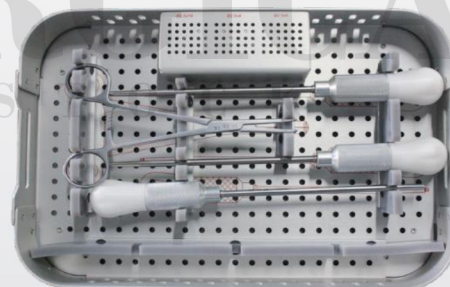
Product code	Height(mm)
AJ-2011	12
AJ-2012	14
AJ-2013	16



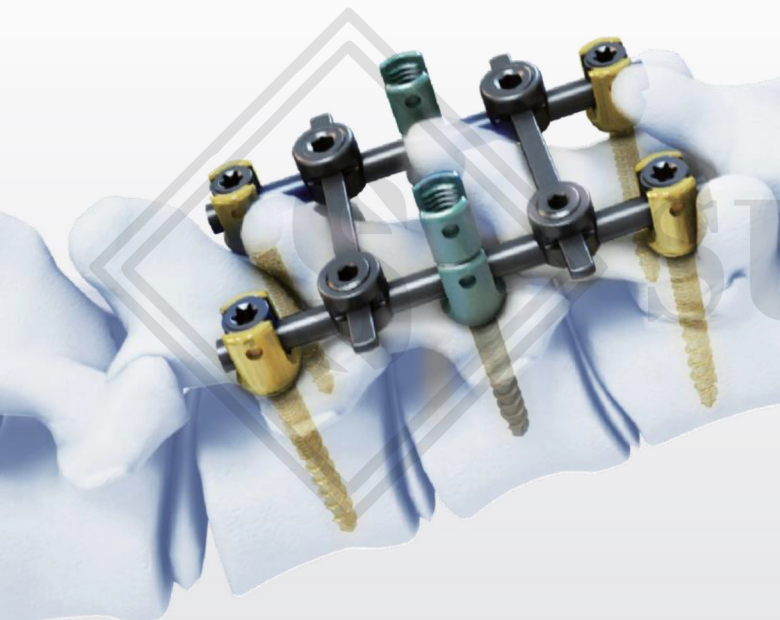
NEULEN Screw(Cross self-tapping&drilling)

Product code	Dia.	Length(mm)
AJ-2008	2.5	6
AJ-2009		8
AJ-2010		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

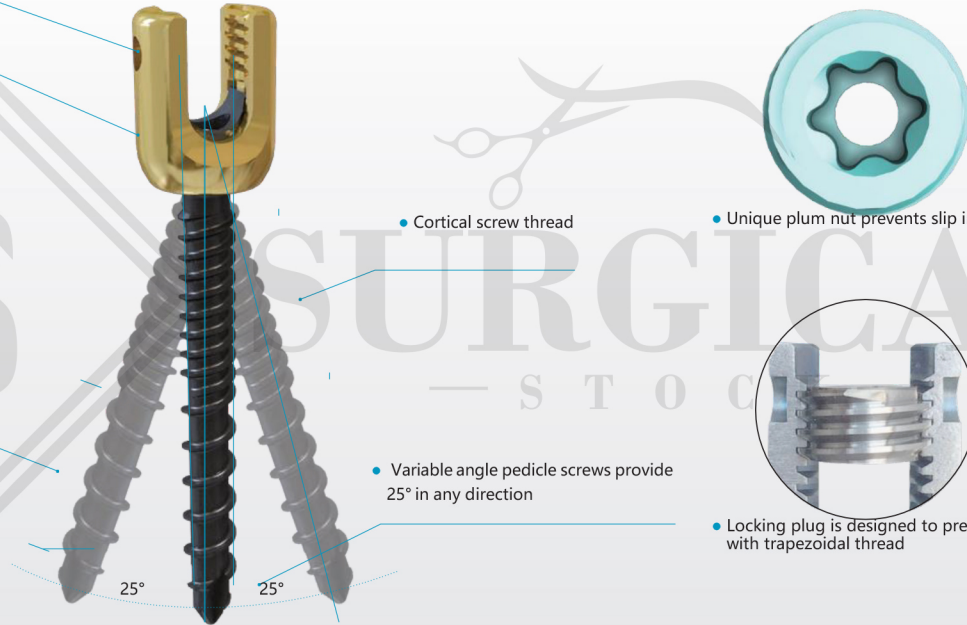
- Cancellous screw thread

- Cortical screw thread

- Variable angle pedicle screws provide 25° in any direction

- Unique plum nut prevents slip in operation

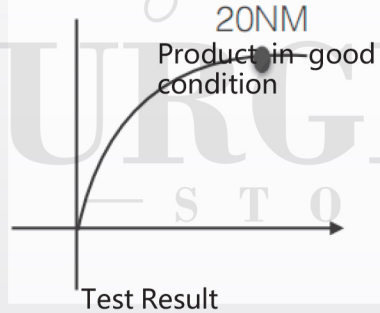
- Locking plug is designed to prevent prolapse with trapezoidal thread



# Master 10 Spinal System



Maximum Torque Test

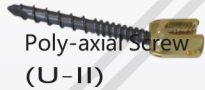


- It is recommended to use this tool in final locking to avoid man-made damage

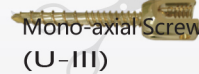


Torque Limiting Tool

# Master 10 Spinal System



Product code	Dia.	Length(mm)
AJ-2014	6.0	35/40/45/50
AJ-2015	6.5	35/40/45/50/55
AJ-2016	7.0	35/40/45



Product code	Dia.	Length(mm)
AJ-2021	5.5	35/40/45
AJ-2022	6.0	35/40/45/50
AJ-2023	6.5	35/40/45/50/55
AJ-2024	7.0	35/40/45



Product code	Dia.	Length(mm)
AJ-2017	5.5	35/40/45
AJ-2018	6.0	35/40/45/50
AJ-2019	6.5	35/40/45/50/55
AJ-2020	7.0	35/40/45



Product code	Dia.	Length(mm)
AJ-2025	5.5	35/40/45
AJ-2026	6.0	35/40/45/50
AJ-2027	6.5	35/40/45/50/55
AJ-2028	7.0	35/40/45

# Master 10 Spinal System Instruments

Aj-2034





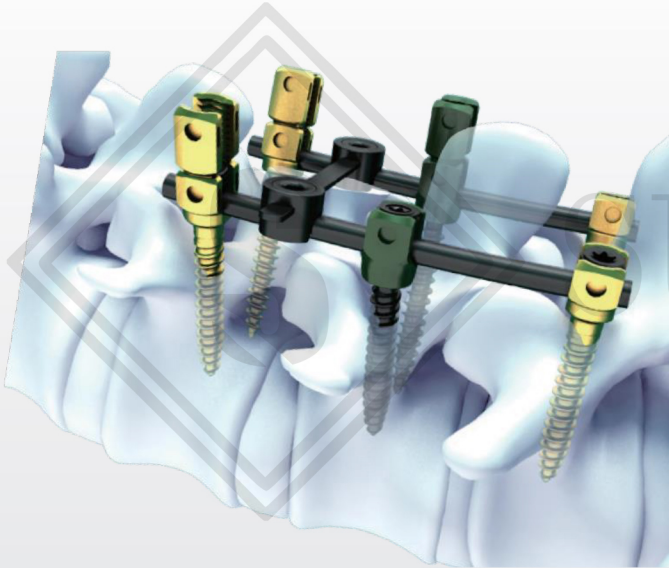
# Master 9 Spinal System

## Feature

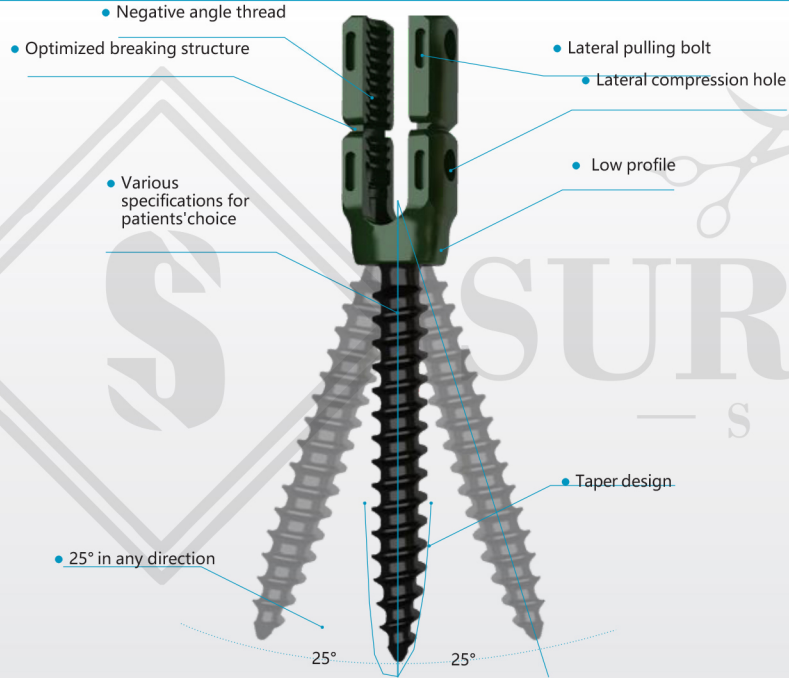
- New Master 9 system;
- Reverse screw design, the nut is easy to install to prevent slipping and opening;
- Lower profile design keeps the adjacent articular process, provide more bone graft space;
- A system can solve problems of the detachment, fracture, lateral bending etc;
- After repeated tests,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

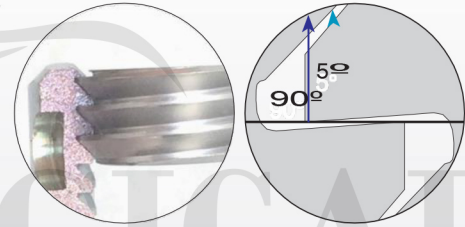
## Indication

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



# Master 9 Spinal System

- Negative angle thread
  - Optimized breaking structure
  - Lateral pulling bolt
  - Lateral compression hole
  - Low profile
  - Various specifications for patients' choice
  - Taper design
  - 25° in any direction
- 

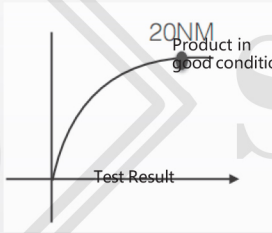


N@ggtiv@ gngl@ locking m@chgnişm

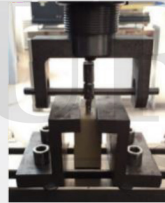


Tgp@r thr@gd, pr@ciş@ guid@

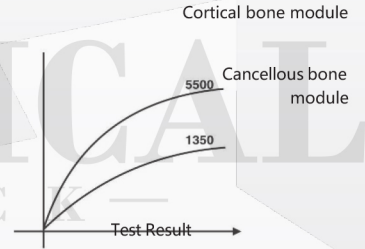
# Master 9 Spinal System



**Torque Test**



Unit N



**Pull-out Strength Test**

# Master 9 Spinal System

Short Mono-axial Screw (±)

Product code	Dia.	Length(mm)
AJ-2029	4.0	25/30/35
AJ-2030	4.5	25/30/35/40
AJ-2031	5.0	30/35/40/45/50
AJ-2032	5.5	30/35/40/45/50
AJ-2033	6.0	30/35/40/45/50
AJ-2034	6.5	30/35/40/45/50
AJ-2035	7.0	30/35/40/45/50
AJ-2036	7.5	35/40/45/50/55

Long Mono-axial Screw (±)

Product code	Dia.	Length(mm)
AJ-2037	4.0	25/30/35
AJ-2038	4.5	25/30/35/40
AJ-2039	5.0	30/35/40/45/50
AJ-2040	5.5	30/35/40/45/50
AJ-2041	6.0	30/35/40/45/50
AJ-2042	6.5	30/35/40/45/50
AJ-2043	7.0	30/35/40/45/50
AJ-2044	7.5	35/40/45/50/55

Short Poly-axial Screw (±)

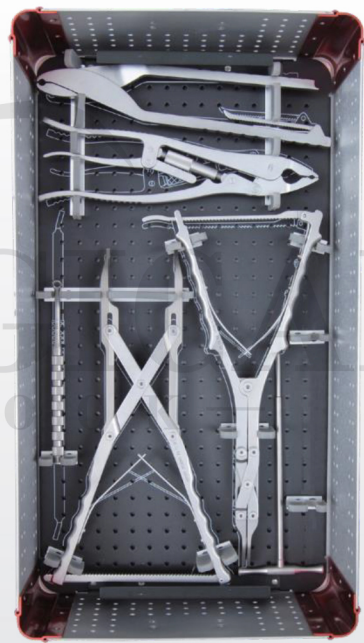
Product code	Dia.	Length(mm)
AJ-2045	4.0	25/30/35
AJ-2046	4.5	30/35/40/45
AJ-2047	5.0	35/40/45/50/55
AJ-2048	5.5	35/40/45/50/55
AJ-2049	6.0	35/40/45/50/55
AJ-2050	6.5	35/40/45/50/55
AJ-2051	7.0	40/45/50/55/60

Long Poly-axial Screw (±)

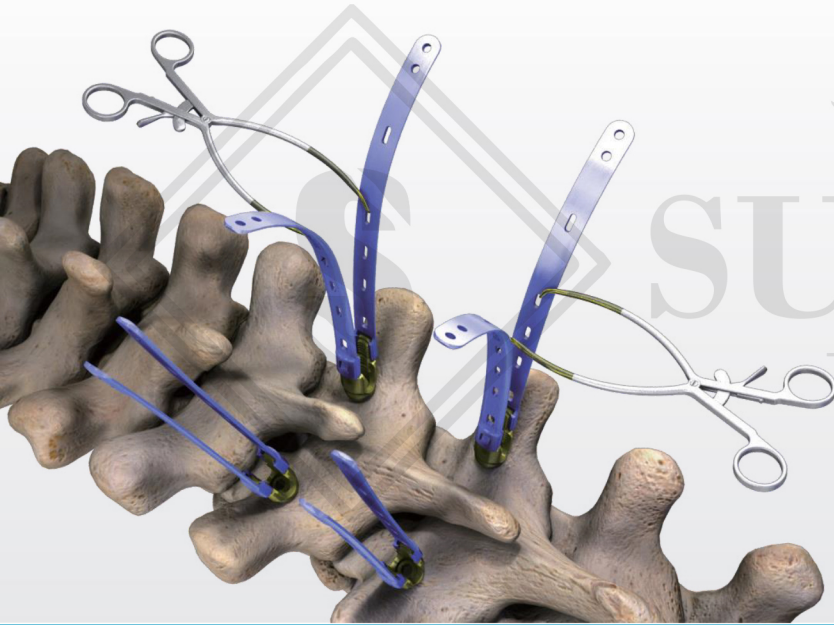
Product code	Dia.	Length(mm)
AJ-2052	4.0	25/30/35
AJ-2053	4.5	30/35/40/45
AJ-2054	5.0	35/40/45/50/55
AJ-2055	5.5	35/40/45/50/55
AJ-2056	6.0	35/40/45/50/55
AJ-2057	6.5	35/40/45/50/55
AJ-2058	7.0	40/45/50/55/60

# Master 9 Spinal System Instruments

AJ-2035



# 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

AJ-2036



Mono-axial screw

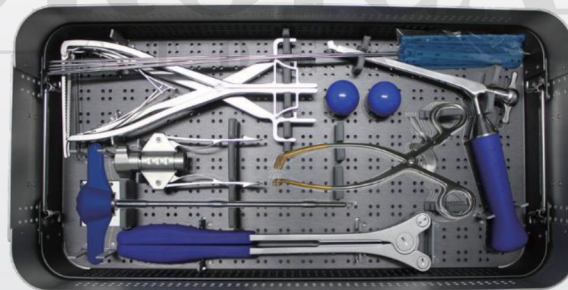
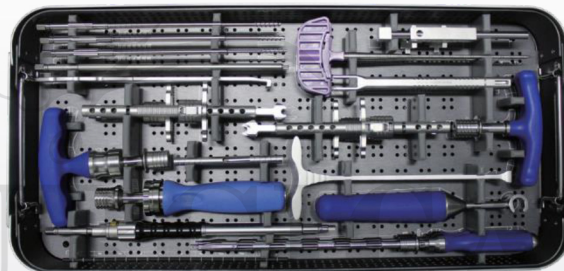
Product code	Dia.	Length(mm)
AJ-2059	5.0	30/35/40/45/50
AJ-2060	5.5	30/35/40/45/50
AJ-2061	6.5	30/35/40/45/50



Poly-axial screw

Product code	Dia.	Length(mm)
AJ-2062	4.5	30/35/40/45
AJ-2063	5.0	30/35/40/45/50
AJ-2064	5.5	30/35/40/45/50
AJ-2065	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



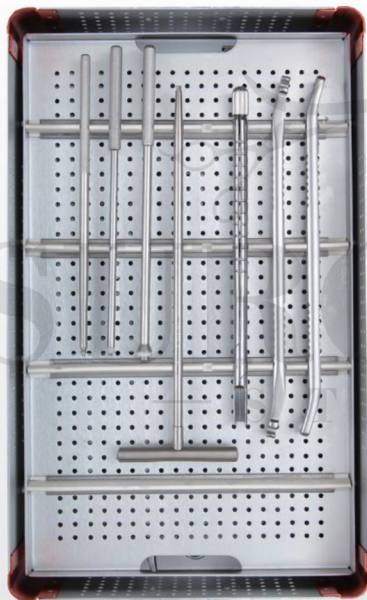
A9 Cross link	
Product code	Length(mm)
AJ-2066	13
AJ-2067	14
AJ-2068	15
AJ-2069	16
AJ-2070	17
AJ-2071	18
AJ-2072	19
AJ-2073	20



Staple		Length(mm)
Product code	Specification	
AJ-2074	L	60
AJ-2075	M	
AJ-2076	S	
AJ-2077	L/S (R/S)	
AJ-2078	L/M (R/M)	
AJ-2079	L/L (R/L)	

# A9 Anterior Thoracolumbar System Instruments

## AJ-2037



# Crosslink and Fixing Rod



Crosslink IV (Ø5.5)

Product code	Dia.	Length(mm)
AJ-2080	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)
AJ-2082	5.5	50/55/60-200
AJ-2083	5.5	300/400/500

Crosslink IV (Ø6.0)

Product code	Dia.	Length(mm)
AJ-2081	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)
AJ-2084	6.0	50/55/60-200
AJ-2085	6.0	300/400/500

# Crosslink and Fixing Rod



Fixing Rod(Mini Invasive)

Product code	Dia.	Length(mm)
AJ-2086	5.5	30/35/40~85
AJ-2087	5.5	90/100/110~120
AJ-2088	5.5	140/160/180~250



Curved Fixing Rod(Mini Invasive)

Product code	Dia.	Length(mm)
AJ-2089	5.5	45/50/55~80
AJ-2090	5.5	90/100/110~120



11237 Break-off Setscrew



11324 Setscrew



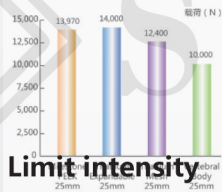
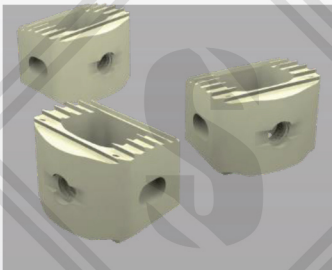
11533 Extension Plate



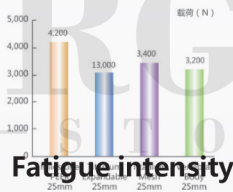
# Intervertebral Fusion Cage (Cervical)

## Feature

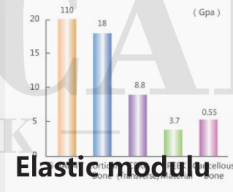
- Anatomic design, use metal needle to develop;
- PEEK elastic modulu is close to human bone, avoid the bone resorption caused by stress shielding;
- Fit with end plate, have good stability.



High resisting dash limit intensity

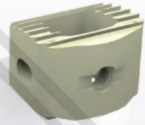


High resisting limit fatigue intensity  
There is no fragments in fatigue experiment



Elastic modulus approach to bony

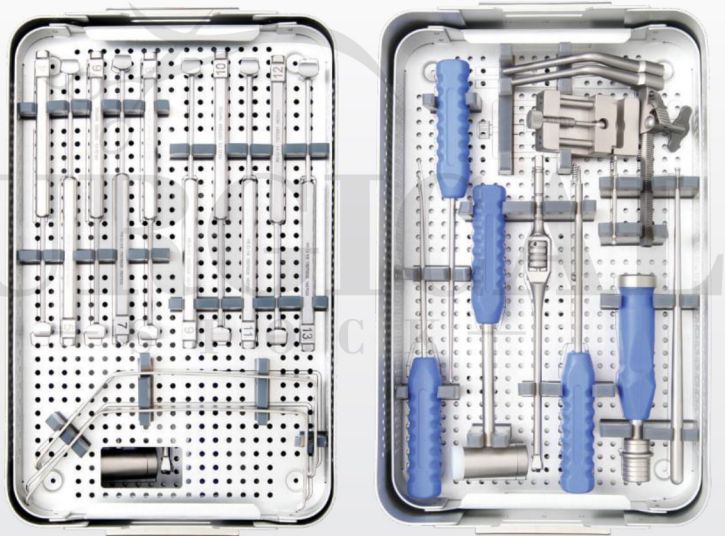
# Intervertebral Fusion Cage (Cervical)



PEEK-OPTIMA®

Dimension			
Product code	Length(mm)	Width(mm)	Height(mm)
AJ-2091	11	14	4/5/6/7/8/9/ 10/11/12/13

15070 Cervical Cage Instruments



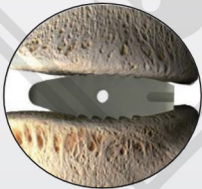
# Intervertebral Fusion Cage (Lumbar)

## 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)



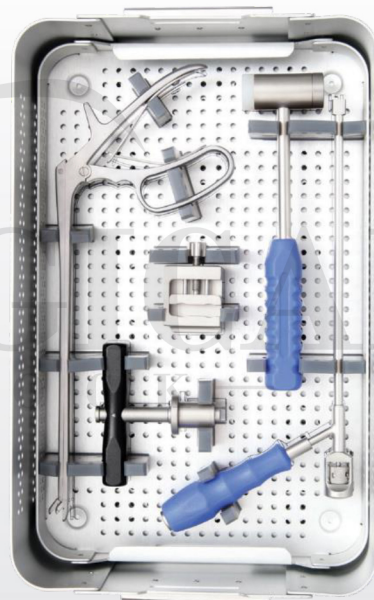
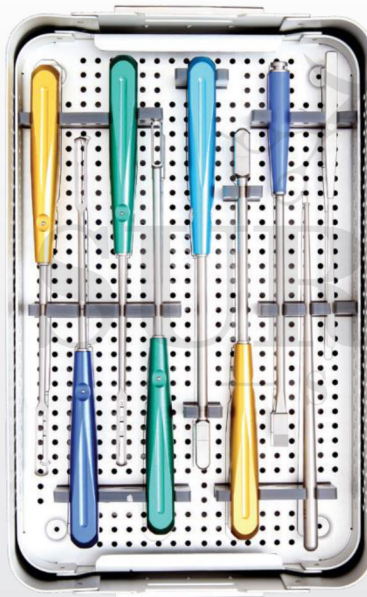
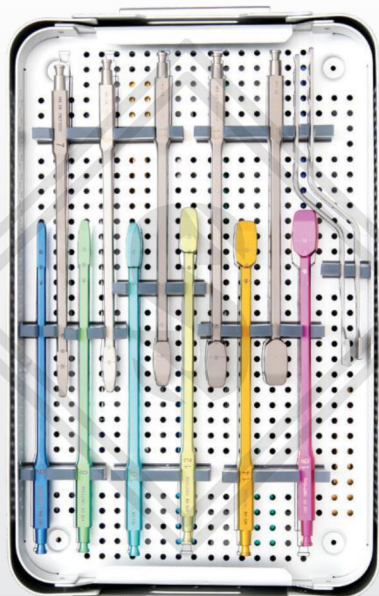
PEEK- OPTIMA<sup>®</sup>

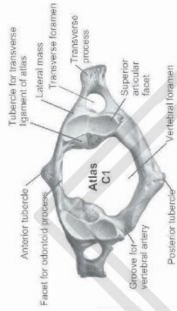
Product code	Dimension		
	Length(mm)	Width(mm)	Height(mm)
AJ-2092	20	10	6/8/10/12
AJ-2093	22	10	7/9/11/13
AJ-2094	26	10	8/10/12/14
AJ-2095	32	10	9/11/13/15
AJ-2096	36	12	10/12/14/16

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

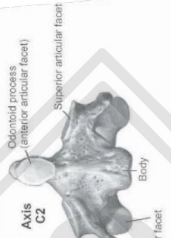
# Lumbar Cage Instruments

AJ-2038

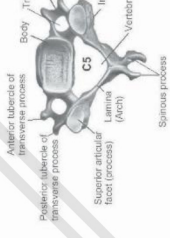




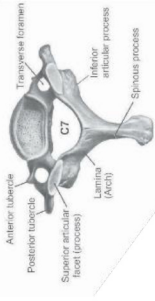
**Left Lateral View of Spinal Column**



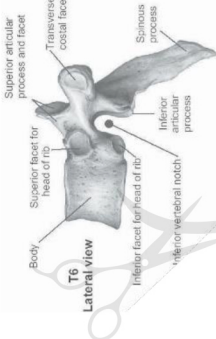
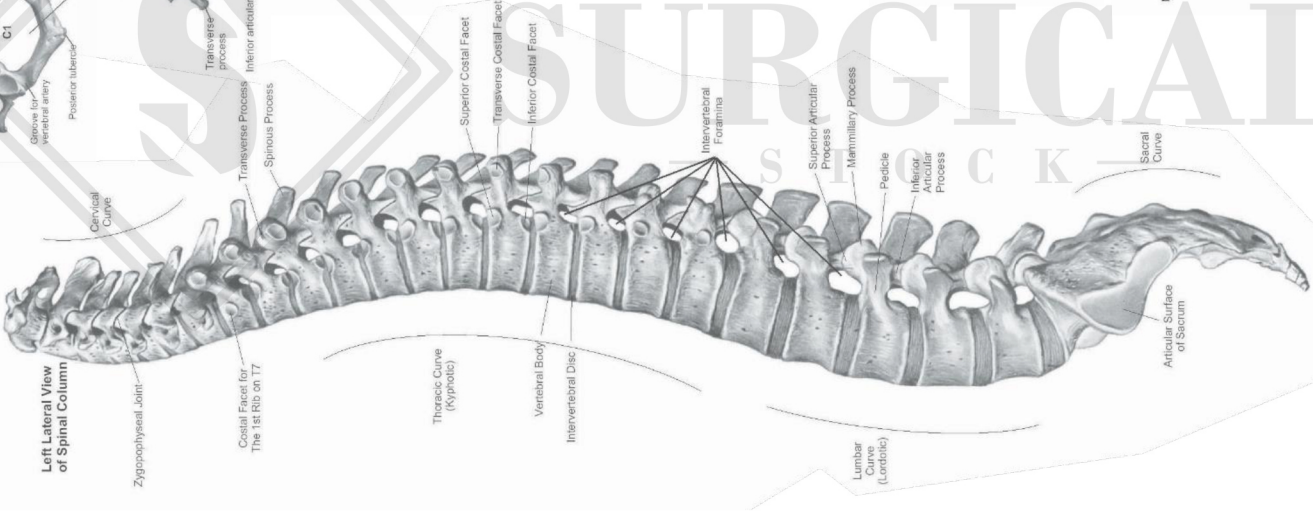
**Axis C2**



**C5**

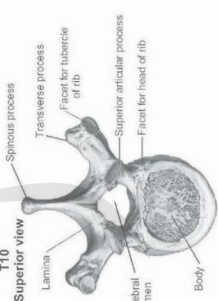


**C7**



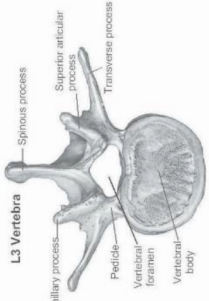
**T6**

**Lateral view**



**T10**

**Superior view**



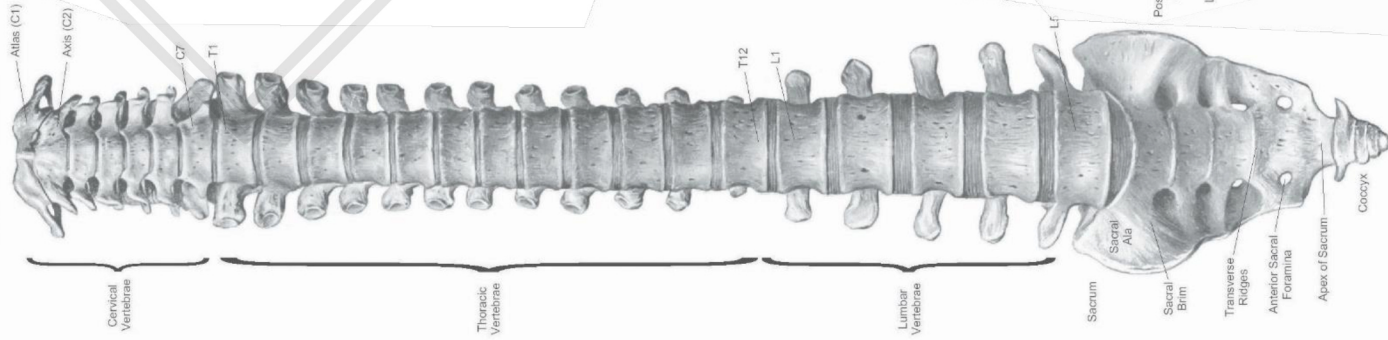
**L3 Vertebra**

**Mammillary process**

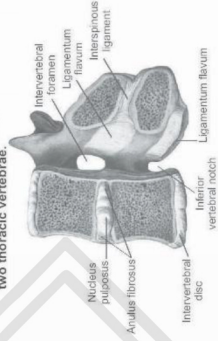


Posterior Spinal Column

Anterior Spinal Column



Ligamenta flava connecting two thoracic vertebrae



Horizontal section through an intervertebral disc



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