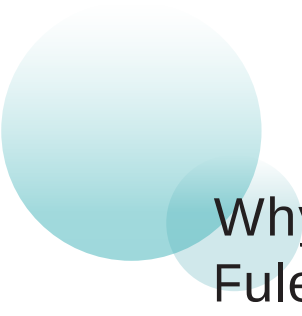


颈椎前路板b板

操作手册

FJQ-b Anterior Cervical Plate
Technical Manual





Why Choose Fule?

Fule advantage

- Beijing Fule is a national high-tech enterprise integrating R&D, production and sales of medical equipment, and has a production line of fully intelligent processing equipment.

- The academician expert studio was established to help Fule improve its research and development capabilities, and further deepen the cooperation of production-academy-research; it was approved as a post-doctoral research station.

- The hardware facilities are complete, the R&D team is excellent, and the clinical experts work closely with more than one hundred domestic and foreign patents.

- Based on the agent cooperation model, it has established a nationwide sales and service network, and its products are supplied to nearly a thousand tertiary hospitals across the country and exported to more than 20 overseas countries.



Contents

Products Advantage.....01

IFU.....03

Surgical Technical.....04

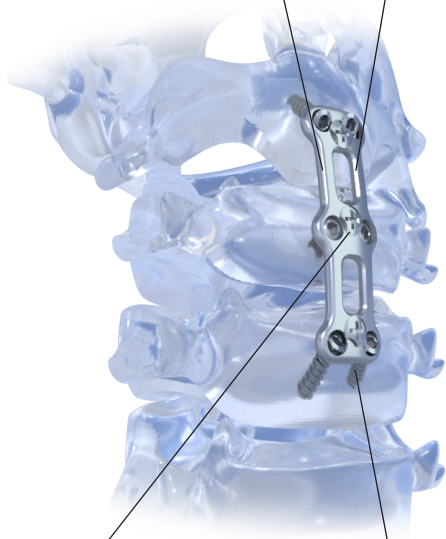
Products Information.....14

Instruments.....15

Products Advantage

- Semi-restrictive system, dynamic compression design, can promote rapid bone graft fusion

- The pre-bending curvature of the plate body is in line with the anatomical characteristics, and the adhesion is excellent



- The simple and reliable anti-back-off design of the rotary disc lock can effectively prevent the screw from falling out

- The large diameter and deep thread screw design enhance the pull-out resistance

Products Advantage

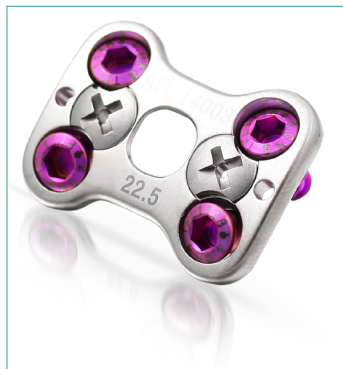
- Low profile and curved design, less stimulation to the surrounding soft tissue

- The pre-curved design in accordance with the anatomy has excellent application

- The long groove type of bone graft nail hole is convenient for bone grafting

- Large diameter, deep thread screw design, increase pullout resistance

- The elastic anti - back structure is easy to operate



Self-Drilling Screw



Self-Tapping Screw

IFU

【Indications】

1. Single-segment dislocated injury without bone defect or vertebral compression fracture
2. Patients requiring interbody fusion
3. Severe wedge compression or burst vertebral anterior column fracture
4. Need for vertebral resection of anterior decompression and bone graft
5. concurrent neurological dysfunction

【Contraindications】

1. Obvious spinal cord compression
2. The severe segmental instability
3. The serious degeneration of aged vertebral joints
4. markedly narrow spinal canals
5. Severe calcification and ossification of ligaments and joint capsules

Surgical Technical

【Step 1】 Patient positioning

- The patient was placed in the supine position, with the head and neck in the middle of the extended, the head tilted back, and the neck in the hyperextended position. The back of the neck was padded to determine and maintain the normal physiological curvature of the cervical spine.



Surgical Technical

【Step 2】 Approach

- The right or left approach is optional. The exposed neck is pushed back: the automatic retractor can be used to obtain the best surgical field. In addition, the vertebral body distractor can be used, and the auxiliary retractor positioning needle of the distractor is placed on the midline of the upper and lower chills adjacent to the surgical segment. The distractor is installed on the retractor positioning device, and the vertebral body can be distracted with moderate force.
- The disc is removed, and necessary corpectomy is performed as needed, with tools such as nucleus pulposus forceps, curews, and rongeur forceps used to clean the disc and cartilage tissue until the posterior longitudinal ligament is exposed. Choose to use bone graft or titanium cage for intervertebral fusion as needed.



Surgical Technical

【Step 3】 Plate selection and positioning

- The exposed anterior vertebral osteophytes are removed so that the titanium plate can be stabilized on the anterior vertebral cortex. The anterior cervical titanium plate is 22.5 to 110 mm in length and is suitable for 1-4 segments of the vertebral body.
- Select the appropriate size of the titanium plate placed on the cervical spine to determine the length of the plate. The titanium plate should be placed across the whole fusion segment, and the shortest plate should be used as far as possible to avoid affecting the movement of the adjacent intervertebral disc.
- Intraoperative fluoroscopy can achieve the best results in the selection of titanium plates and the placement of screws.



Surgical Technical

【Step 4】 Bending plate

- The titanium plate was pre-bent in the longitudinal and transverse directions. If necessary, plate bending forceps could be used to change the curvature of the titanium plate in the sagittal plane to adapt to the increased or decreased curvature of the cervical lordosis.
- Please avoid repetitive, excessive bending of the titanium plate, otherwise it will damage the locking stop device on the titanium plate. Once the titanium plate has been bent in the sagittal plane, never bend the titanium plate again in the opposite direction.



Surgical Technical

【Step 5】 Insertion of positioning pin

- The titanium plate can be temporarily fixed and precisely positioned with a locator pin before screw implantation. When the position of the titanium plate is precisely determined, the positioning pin is inserted in the predetermined screw hole using the positioning pin driver.



Surgical Technical

【Step 6】 Screw placement-open circuit, drilling

- the single-tube limit guide drill was positioned on the screw hole of the titanium plate and the guide was pressed down lightly . The opener and orthopedic drill were inserted along the pipe.
- Tips: The screw leans inward 5°, the upper screw tip 10° and the lower screw tip 10° to avoid damage to the upper and lower discs and affect the locking effect of the locking device.



The plate provides a variety of screw placement angles to accommodate the anatomical situation of different patients. Some angles may be toward the neurovascular, so the direction and depth of the drill or screw should be monitored by X-ray to ensure safety.

Surgical Technical

【Step 7】 Screw insertion - using taps

- The system is equipped with self-tapping screws, so no tapping is required. If tapping is required, a tap can be used.
- The fixed depth of the tap was 12 mm. During drilling or tapping, intraoperative fluoroscopy will be helpful in the selection of the exact length of the screw.



Surgical Technical

【Step 8】 Implant screw

- Standard bone screw

The diameter is 4.0mm
Length 8/10/12/14/16/18/20mm

4.5mm (correction screw)
Length 10/12/14/16/18/20mm

- Turn two screws in the diagonal position of the plate. The locator needle was removed with the locator needle driver. Implant the remaining screws, the two screws that are fully prescrewed.



Surgical Technical

【Step 9】 Locking of the lock piece

- Insert the cross driver into the cross slot of the lock plate, gently rotate 90° so that the lock plate covers the fixing screw and the lock plate is stuck at the tail end of the screw.
- If necessary to release the lock piece, rotate the lock piece 90 clockwise or counterclockwise.



Product Information

● 【FJQ-b Anterior Cervical Plate】

Size	Product Code	Size	Product Code
20×17×2	0805004020	57.5×17×2	081015002
22.5×17×2	081001002	60×17×2	081016002
25×17×2	081002002	62.5×17×2	081017002
27.5×17×2	081003002	65×17×2	081018002
30×17×2	081004002	67.5×17×2	081019002
32.5×17×2	081005002	70×17×2	081020002
35×17×2	081006002	72.5×17×2	081021002
37.5×17×2	081007002	75×17×2	081022002
35×17×2.2	0833006035	77.5×17×2	081023002
37.5×17×2.2	0833006037	80×17×2	081024002
40×17×2	081008002	82.5×17×2	081025002
42.5×17×2	081009002	85×17×2	081026002
45×17×2	081010002	87.5×17×2	081027002
47.5×17×2	081011002	90×17×2	081028002
50×17×2	081012002	95×17×2	081029002
52.5×17×2	081013002	100×17×2	081030002
55×17×2	081014002	105×17×2	081031002
55×17×2.2	0833008055	110×17×2	081032002



Product Information

● 【Anterior Cervical Screw (self-Drilling)】

Size	Product Code	Size	Product Code
Φ4.0×8	081101000	Φ4.5×10	081201000
Φ4.0×10	081102000	Φ4.5×12	081202000
Φ4.0×12	081103000	Φ4.5×14	081203000
Φ4.0×14	081104000	Φ4.5×16	081204000
Φ4.0×16	081105000	Φ4.5×18	081205000
Φ4.0×18	081106000	Φ4.5×20	081206000
Φ4.0×20	081107000		



● 【Anterior Cervical Screw (self-Tapping)】

Size	Product Code	Size	Product Code
Φ4.0×8	0803040008	Φ4.5×10	0804045010
Φ4.0×10	0803040010	Φ4.5×12	0804045012
Φ4.0×12	0803040012	Φ4.5×14	0804045014
Φ4.0×14	0803040014	Φ4.5×16	0804045016
Φ4.0×16	0803040016	Φ4.5×18	0804045018
Φ4.0×18	0803040018	Φ4.5×20	0804045020
Φ4.0×20	0803040020		



Instruments



● 207-013
Drill Guide



● 207-025
Hex Screwdriver



● 207-024
Cross Screwdriver



● 107-231
Handle



● 207-060
Plate Holder



● 207-051
Drill



● 207-060
Screw Holder



● 201-010
Distractor

器械信息



● 201-060
Plate Bender



● 205-070
Positioning Pin Holder



● 205-080
Positioning Pin



● 311-180
Pin for Distractor Holder



● 311-170
Pin for Distractor



● 207-072
Container



● 207-073
Plate & Screw Box