



TECHNICAL FILE OF SPINAL SYSTEM

INSTRUCTION FOR USE

Doc. No.	TF.01-15-IFU
Issue Date	01.01.2022
Rev. No./Date	01/22.02.2024
Page No.	1 / 9

IMPORTANT INFORMATION ON THE SPINAL SYSTEM

DESCRIPTION:

The Spinal System consists of a variety of shapes and sizes of rods, hooks, screws, Crosslink Plates, staples and connecting components, as well as implant components from other Shandong WeiGao Orthopaedic Device Company Limited spinal systems, which can be rigidly locked into a variety of configurations, with each construct being tailor-made for the individual case.

Certain implant components from Shandong WeiGao Orthopaedic Device Company Limited spinal systems can be used with the Spinal System. These components include rods, hooks, screws, plates, Crosslink plates, connectors, staples and washers. Please note that certain components are specifically designed to connect to ϕ 4.75mm, ϕ 5.5mm, or ϕ 6.0mm rods, while other components can connect to both ϕ 5.5mm rods and ϕ 6.0 mm rods. Care should be taken so that the correct components are used in the spinal construct.

The Spinal System hooks are intended for posterior use only. The Spinal System staples are intended for anterior use only. However, for patients of smaller stature, The Spinal System 4.75mm rods and associated components may be used posteriorly.

The Spinal System implant components are fabricated from titanium and titanium alloy which conform with ISO5832-2 and ISO5832-3. Shandong WeiGao Orthopaedic Device Company Limited expressly warrants that these devices are fabricated from one of the foregoing material specifications. No other warranties express or implied, are made. Implied warranties of merchantability and fitness for a particular purpose or use are specifically excluded. **Never use stainless steel and titanium implant components in the same construct.**

To achieve best results, do not use any of the Spinal System implant components with components from any other unless specifically allowed to do so in this or another Shandong WeiGao Orthopaedic Device Company Limited document. As with all orthopaedic and neurosurgical implants, none of the Spinal System components should ever be reused under any circumstances.

INDICATIONS and INTENDED USE, CONTRAINDICATIONS AND POSSIBLE ADVERSE EVENTS:

INDICATIONS AND INTENDED USE:

SINO Spinal Internal Fixation Device

Intended use: The device is used for thoracolumbar spine internal fixation, spinal deformity correction and intervertebral fusion.

Indications:

- Degenerative disease (such as disc herniation, spinal stenosis, spondylolisthesis and lumbar instability)
- Spinal malformation (such as scoliosis, humpback and/or spinal lordosis)
- Trauma (such as fracture or dislocation)
- Pseudoarthrosis, tumor resection and /or previous fusion failure

UPASS Spinal Internal Fixation Device

Intended use: It is applicable for thoracolumbar vertebral spinal internal fixation, spine malformation correction and intervertebral fusion.

Indications:

- Degenerative disease (such as Disc herniation, spinal stenosis, spondylolisthesis and lumbar instability);
- Spinal malformation (such as Scoliosis, humpback and / or spinal lordosis);
- Trauma (such as fracture or dislocation);
- 4) Prosthetic joint, tumor resection, and / or previous fusion failure.



TECHNICAL FILE OF SPINAL SYSTEM

INSTRUCTION FOR USE

Doc. No.	TF.01-15-IFU
Issue Date	01.01.2022
Rev. No./Date	01/22.02.2024
Page No.	2 / 9

PCF Spinal Internal Fixation System

Intended use: It is applicable for cervical vertebral spinal internal fixation, spine malformation correction and cervical fusion.

Indications:

- Trauma (fracture and dislocation)
- Degenerative change (cervical spondylopathy and posterior stability construction after laminectomy of cervical spinal canal stenosis)
- Tumour (posterior construction after resection of vertebral tumour)
- Infectious disease (posterior stability construction after clearance of spinal tuberculous focus)
- Congenital disease (posterior stability construction after laminectomy for developmental cervical canal stenosis)
- Instability of the cervical spine caused by rheumatoid arthritis

PREMIER Spinal Internal Fixation System

Intended use: It is applicable for thoracolumbar vertebral spinal internal fixation, spine malformation correction and intervertebral fusion.

Indications:

- Degenerative disc disease (such as herniation, spinal stenosis, spondylolisthesis, and lumbar instability);
- Spinal malformation (such as scoliosis, humpback and/or spinal lordosis);
- Trauma (such as fracture or dislocation)
- Pseudoarthrosis, tumour resection, and /or previous failure.

MISPINE Spinal Internal Fixation System

Intended use: It is applicable for thoracolumbar vertebral spinal internal fixation, spine malformation correction and intervertebral fusion.

Indications:

- Degenerative disease (such as Disc herniation, spinal stenosis, spondylolisthesis and lumbar instability);
- Spinal malformation (such as Scoliosis, humpback and / or spinal lordosis);
- Trauma (such as fracture or dislocation);
- Pseudarthrosis, tumor resection, and / or previous fusion failure.

CONTRAINDICATIONS:

Contraindications include, but are not limited to:

1. Active infectious process or significant risk of infection (immunocompromise).
2. Signs of local inflammation.
3. Fever or leukocytosis.
4. Morbid obesity.
5. Pregnancy.
6. Mental illness.
7. Grossly distorted anatomy caused by congenital abnormalities.
8. Any other medical or surgical condition which would preclude the potential benefit of spinal implant surgery, such as the presence of congenital abnormalities, elevation of sedimentation rate unexplained by other diseases, elevation of white blood count (WBC), or a marked left shift in the WBC differential



TECHNICAL FILE OF SPINAL SYSTEM

INSTRUCTION FOR USE

Doc. No.	TF.01-15-IFU
Issue Date	01.01.2022
Rev. No./Date	01/22.02.20 24
Page No.	3 / 9

count.

9. Rapid joint disease, bone absorption, osteopenia, osteomalacia and/or osteoporosis. Osteoporosis or osteopenia is a relative contraindication since this condition may limit the degree of obtainable correction, stabilization, and/or the amount of mechanical fixation.

10. Suspected or documented metal allergy or intolerance.

11. Any case not needing a bone graft and fusion.

12. Any case where the implant components selected for use would be too large or too small to achieve a successful result.

13. Any case that requires the mixing of metals from two different components or systems.

14. Any patient having inadequate tissue coverage over the operative site or inadequate bone stock or quality.

15. Any patient in which implant utilization would interfere with anatomical structures or expected physiological performance.

16. Any patient unwilling to follow postoperative instructions.

17. Any case not described in the indications.

Safety Warning

All of the possible adverse events associated with spinal fusion surgery without instrumentation are possible. With instrumentation, a listing of potential adverse events includes, but is not limited to:

1. Early or late loosening of any or all of the components.

2. Disassembly, bending, and/or breakage of any or all of the components.

3. Foreign body (allergic) reaction to implants, debris, corrosion products (from crevice, fretting, and/or general corrosion), including metallosis, staining, tumor formation, and/or autoimmune disease.

4. Pressure on the skin from component parts in patients with inadequate tissue coverage over the implant possibly causing skin penetration, irritation, fibrosis, necrosis, and/or pain. Bursitis. Tissue or nerve damage caused by improper positioning and placement of implants or instruments.

5. Post-operative change in spinal curvature, loss of correction, height, and/or reduction.

6. Infection.

7. Dural tears, pseudomeningocele, fistula, persistent CSF leakage, meningitis.

8. Loss of neurological function (e.g., sensory and/or motor), including paralysis (complete or incomplete), dysesthesias, hyperesthesia, anesthesia, paresthesia, appearance of radiculopathy, and/or the development or continuation of pain, numbness, neuroma, spasms, sensory loss, tingling sensation, and/or visual deficits.

9. Cauda equina syndrome, neuropathy, neurological deficits (transient or permanent), paraplegia, paraparesis, reflex deficits, irritation, arachnoiditis, and/or muscle loss.

10. Urinary retention or loss of bladder control or other types of urological system compromise.

11. Scar formation possibly causing neurological compromise or compression around nerves and/or pain.

12. Fracture, microfracture, resorption, damage, or penetration of any spinal bone (including the sacrum,

Pedicles, and/or vertebral body) and/or bone graft or bone graft harvest site at, above, and/or below the level of surgery. Retro pulsed graft.

13. Herniated nucleus pulposus, disc disruption or degeneration at, above, or below the level of surgery.

14. Non-union (or pseudarthrosis). Delayed union. Mal-union.

15. Cessation of any potential growth of the operated portion of the spine.

16. Loss of or increase in spinal mobility or function.

17. Inability to perform the activities of daily living.

18. Bone loss or decrease in bone density, possibly caused by stresses shielding.



TECHNICAL FILE OF SPINAL SYSTEM

INSTRUCTION FOR USE

Doc. No.	TF.01-15-IFU
Issue Date	01.01.2022
Rev. No./Date	01/22.02.20 24
Page No.	4 / 9

- 19. Graft donor site complications including pain, fracture, or wound healing problems.
- 20. Ileuses, gastritis, bowel obstruction or loss of bowel control or other types of gastrointestinal system compromise.
- 21. Hemorrhage, hematoma, occlusion, seroma, edema, hypertension, embolism, stroke, excessive bleeding, Phlebitis, wound necrosis, wound dehiscence, damage to blood vessels, or other types of cardiovascular system compromise.
- 22. Reproductive system compromise, including sterility, loss of consortium, and sexual dysfunction.
- 23. Development of respiratory problems, e.g. pulmonary embolism, atelectasis, bronchitis, pneumonia, etc.

Note: Additional surgery may be necessary to correct some of these potential adverse events.

WARNING AND PRECAUTIONS:

WARNING: The safety and effectiveness of pedicle screw spinal systems have been established only for spinal conditions with significant mechanical instability or deformity requiring fusion with instrumentation. These conditions are significant mechanical instability or deformity of the thoracic, lumbar, and sacral spine secondary to degenerative spondylolisthesis with objective evidence of neurologic impairment, fracture, dislocation, scoliosis, kyphosis, spinal tumor, and failed previous fusion (pseudarthrosis). The safety and effectiveness of this device for any other conditions are unknown.

PRECAUTION: The implantation of pedicle screw spinal systems should be performed only by experienced spinal surgeons with specific training in the use of this pedicle screw spinal system because this is a technically demanding procedure presenting a risk of serious injury to the patient. A successful result is not always achieved in every surgical case. This fact is especially true in spinal surgery where many extenuating circumstances may compromise the results. This device system is not intended to be the sole means of spinal support. Use of this product without a bone graft or in cases that develop into a non-union will not be successful. No spinal implant can withstand body loads without the support of bone. In this event, bending, loosening, disassembly and/or breakage of the device(s) will eventually occur.

Preoperative and operating procedures, including knowledge of surgical techniques, good reduction, and proper selection and placement of the implants are important considerations in the successful utilization of the system by the surgeon. Further, the proper selection and compliance of the patient will greatly affect the results. Patients who smoke have been shown to have an increased incidence of non-unions. These patients should be advised of this fact and warned of this consequence. Obese, malnourished, and/or alcohol abuse patients are also poor candidates for spine fusion. Patients with poor muscle and bone quality and/or nerve paralysis are also poor candidates for spine fusion.

PHYSICIAN NOTE: Although the physician is the learned intermediary between the company and the patient, the indications, contraindications, warnings and precautions given in this document must be conveyed to the patient.

CAUTION: CHINA LAW RESTRICTS THESE DEVICES TO SALE BY OR ON THE ORDER OF A PHYSICIAN.

Other preoperative, intraoperative, and postoperative warnings and precautions are as follows:

Implant Selection:

The selection of the proper size, shape and design of the implant for each patient is crucial to the success of the procedure. Metallic surgical implants are subject to repeated stresses in use, and their strength is limited by the need to adapt the design to the size and shape of human bones. Unless great care is taken in patient selection, proper placement of the implant, and postoperative management to minimize stresses on the implant, such stresses may cause metal fatigue and consequent breakage, bending or loosening of the device before the healing process is complete, which may result in further injury or the need to remove the device prematurely.



TECHNICAL FILE OF SPINAL SYSTEM
INSTRUCTION FOR USE

Doc. No.	TF.01-15-IFU
Issue Date	01.01.2022
Rev. No./Date	01/22.02.20 24
Page No.	5 / 9

Device Fixation:

For self breaking plugs, always hold the assembly with the Counter Torque device. Tighten and break-off the head of the plug to leave the assembly at optimum fixation security. After the upper part of the self breaking plug has been sheared off, further re-tightening is not necessary and not recommended. The head part should not remain in the patient. AFTER THE UPPER PART OF THE SELF BREAKING PLUG HAS BEEN SHEARED OFF, RE-ADJUSTMENT IS NOT POSSIBLE UNLESS THE PLUG IS REMOVED AND REPLACED WITH A NEW ONE.

When using Crosslink plates, the plug should be tightened to between 8 and 9 Nm. (70 to 80 inch-lbs).

PREOPERATIVE:

1. Only patients that meet the criteria described in the indications should be selected.
2. Patient conditions and/or pre dispositions such as those addressed in the aforementioned contraindications should be avoided.
3. Care should be used in the handling and storage of the implant components. The implants should not be scratched or otherwise damaged. Implants and instruments should be protected during storage, especially from corrosive environments.
4. An adequate inventory of implants should be available at the time of surgery, normally a quantity in excess of what is expected to be used.
5. Since mechanical parts are involved, the surgeon should be familiar with the various components before using the equipment and should personally assemble the devices to verify that all parts and necessary instruments are present before the surgery begins. Shandong Weigao Orthopaedic Device Co.,Ltd Spinal System components (described in the DESCRIPTION section) are not to be combined with the components from another manufacturer. Different metal types should never be used together.
6. All components and instruments should be cleaned and sterilized before use. Additional sterile components should be available in case of an unexpected need.

INTRAOPERATIVE:

1. Extreme caution should be used around the spinal cord and nerve roots. Damage to the nerves will cause loss of neurological functions.
2. Breakage, slippage, or misuse of instruments or implant components may cause injury to the patient or operative personnel.
3. The rods should not be repeatedly or excessively bent. The rods should not be reverse bent in the same location. Use great care to insure that the implant surfaces are not scratched or notched, since such actions may reduce the functional strength of the construct. If the rods are cut to length, they should be cut in such a way as to create a flat, non-sharp surface perpendicular to the midline of the rod. Cut the rods outside the operative field. Whenever possible, use pre-cut rods of the length needed.
4. Whenever possible or necessary, an imaging system should be utilized to facilitate surgery.
5. To insert a screw properly, a guide wire should first be used, followed by a sharp tap.
6. Caution: Do not overtap or use a screw/bolt that is either too long or too large. Over tapping or using an incorrectly sized screw/bolt may cause nerve damage, hemorrhage, or the other possible adverse events listed elsewhere in this package insert. If screws/bolts are being inserted into spinal pedicles, use as large a screw/bolt diameter as will fit into each pedicle.
7. Bone graft must be placed in the area to be fused and graft material must extend from the upper to the lower vertebrae being fused.
8. To assure maximum stability, two or more crosslink plates on two bilaterally placed, continuous rods, should be used necessarily.
9. Bone cement should not be used because the safety and effectiveness of bone cement has not been



TECHNICAL FILE OF SPINAL SYSTEM

INSTRUCTION FOR USE

Doc. No.	TF.01-15-IFU
Issue Date	01.01.2022
Rev. No./Date	01/22.02.20 24
Page No.	6 / 9

determined for spinal uses, and this material will make removal of the components difficult or impossible. The heat generated from the curing process may also cause neuralgic damage and bone necrosis.

10. Before closing the soft tissues, all of the nuts or screws should be tightened firmly. Recheck the tightness of all nuts or screws after finishing making sure that none loosened during the tightening of the other nuts or screws. Failure to do so may cause loosening of the other components.

POSTOPERATIVE:

The physician's postoperative directions and warnings to the patient, and the corresponding patient compliance, are extremely important.

1. Detailed instructions on the use and limitations of the device should be given to the patient. If partial weight-bearing is recommended or required prior to firm bony union, the patient must be warned that bending, loosening and/or breakage of the device(s) are complications which may occur as a result of excessive or early weight-bearing or muscular activity. The risk of bending, loosening, or breakage of a temporary internal fixation device during postoperative rehabilitation may be increased if the patient is active, or if the patient is debilitated or demented. The patient should be warned to avoid falls or sudden jolts in spinal position.

2. To allow the maximum chances for a successful surgical result, the patient or devices should not be exposed to mechanical vibrations or shock that may loosen the device construct. The patient should be warned of this possibility and instructed to limit and restrict physical activities, especially lifting and twisting motions and any type of sport participation. The patient should be advised not to smoke tobacco or utilize nicotine products, or to consume alcohol or non-steroidal or anti-inflammatory medications such as aspirin during the bone graft healing process.

3. The patient should be advised of their inability to bend or rotate at the point of spinal fusion and taught to compensate for this permanent physical restriction in body motion.

4. Failure to immobilize a delayed or non-union of bone will result in excessive and repeated stresses on the implant. By the mechanism of fatigue, these stresses can cause the eventual bending, loosening, or breakage of the device(s). It is important that immobilization of the spinal surgical site be maintained until firm bony union is established and confirmed by roentgen graphic examination. If a state of nonunion persists or if the components loosen, bend, and/or break, the device(s) should be revised and/or removed immediately before serious injury occurs. The patient must be adequately warned of these hazards and closely supervised to insure cooperation until bony union is confirmed.

5. As a precaution, before patients with implants receive any subsequent surgery (such as dental procedures), prophylactic antibiotics may be considered, especially for high-risk patients.

6. The Weigao Orthopaedic Device Co., Ltd Spinal System implants are temporary internal fixation devices. Internal fixation devices are designed to stabilize the operative site during the normal healing process. After the spine is fused, these devices serve no functional purpose and may be removed. While the final decision on implant removal is, of course, up to the surgeon and patient, in most patients, removal is indicated because the implants are not intended to transfer or support forces developed during normal activities. If the device is not removed following completion of its intended use, one or more of the following complications may occur: (1) Corrosion, with localized tissue reaction or pain; (2) Migration of implant position, possibly resulting in injury; (3) Risk of additional injury from postoperative trauma; (4) Bending, loosening and breakage, which could make removal impractical or difficult; (5) Pain, discomfort, or abnormal sensations due to the presence of the device; (6) Possible increased risk of infection; (7) Bone loss due to stress shielding; and (8) Potential unknown and/or unexpected long term effects such as carcinogenesis. Implant removal should be followed by adequate postoperative management to avoid fracture, re-fracture, or other complications.

7. Any retrieved devices should be treated in such a manner that reuse in another surgical procedure is not possible. As with all orthopedic implants, the Spinal System components should never be reused



TECHNICAL FILE OF SPINAL SYSTEM

INSTRUCTION FOR USE

Doc. No.	TF.01-15-IFU
Issue Date	01.01.2022
Rev. No./Date	01/22.02.20 24
Page No.	7 / 9

under any circumstances. If the Spinal System components is reused, one or more of the following complications may occur: (1) Corrosion, with localized tissue reaction or pain; (2) Migration of implant position, possibly resulting in injury; (3) Risk of additional injury from postoperative trauma; (4) Bending, loosening and breakage, which could make removal impractical or difficult; (5) Pain, discomfort, or abnormal sensations due to the presence of the device; (6) Possible increased risk of infection; (7) Bone loss due to stress shielding; and (8) Potential unknown and/or unexpected long term effects such as carcinogenesis.

STORAGE REQUIREMENTS:

Spinal systems shall be stored in house with relative humidity not higher than 80%, and with good aeration, without caustic gas.

CLEANING AND DECONTAMINATION:

All instruments and implants must first be cleaned using established hospital methods before sterilization and introduction into a sterile surgical field. Additionally, all instruments and implants that have been previously taken into a sterile surgical field must first be decontaminated and cleaned using established hospital methods before sterilization and reintroduction into a sterile surgical field. Cleaning and decontamination can include the use of neutral cleaners followed by a demonized water rinse.

Note: certain cleaning solutions such as those containing caustic soda, formalin, glutaraldehyde, bleach and/or other alkaline cleaners may damage some devices, particularly instruments; these solutions should not be used. Also, certain instruments may require dismantling before cleaning.

All products should be treated with care. Improper use or handling may lead to damage and possible improper functioning of the device.

STERILIZATION:

Unless marked sterile and clearly labeled as such, the Spinal System components, as well as those implants from other Shandong WeiGao Orthopaedic Device Company Limited spinal systems specifically indicated for use with the Spinal System, described in this insert are provided non-sterile and must be sterilized prior to use. These products are recommended to be steam sterilized by the hospital using one of the three sets of process parameters below:

Remove all packaging materials prior to sterilization. Use only sterile products in the operative field.

Sterilization method	Pressure steam sterilization	Pressure steam sterilization
Equipment category	Steam Gravity Type	Steam Prevacuum Type
Designed Temperature	121°C	134°C
The Minimum Sterilization Time	20 min	4 min

Note: Because of the many variables involved in sterilization, each medical facility should do validation of sterilization , cleaning (e.g. temperatures, times) used for their equipment.

MAGNETIC RESONANCE IMAGING (MRI) SAFETY INFORMATION:

Shandong WeiGao Orthopaedic Device Company Limited products are manufactured from titanium and titanium alloy which conform with ISO 5832-2 and ISO 5832-3. Shandong WeiGao Orthopaedic Device Company Limited products have not been tested for safety and suitability for the MR environment and Shandong WeiGao Orthopaedic Device Company Limited products have not been tested for heating or displacement in the MR environment.

	TECHNICAL FILE OF SPINAL SYSTEM INSTRUCTION FOR USE	Doc. No.	TF.01-15-IFU
		Issue Date	01.01.2022
		Rev. No./Date	01/22.02.20 24
		Page No.	8 / 9

PRODUCT COMPLAINTS and FURTHER INFORMATION

Any Health Care Professional (e.g. customer or user of this system of products), who has any complaint or who has experienced any dissatisfaction in the product quality, identity, durability, reliability, safety, effectiveness and/or performance, should notify the manufacturer that is Shandong WeiGao Orthopaedic Device Company Limited. Further, if any of the implanted Spinal System component(s) ever "malfunctions". (i.e., does not meet any of its performance specifications or otherwise does not perform as intended), or is suspected of doing so, the manufacturer should be notified immediately. If any Shandong WeiGao Orthopaedic Device Company Limited product ever "malfunctions" and may have caused or contributed to the death or serious injury of a patient, the manufacturer must be notified immediately. When filing a complaint please provide the component(s) name, part number, lot number(s), your name and address, the nature of the complaint.

Please contact customer service for supplementary information or further directions for use of this system or in case of complaint with below contact information;

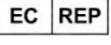
CONTACT INFORMATION	
Name of The Manufacturer	: SHANDONG WEIGAO ORTHOPAEDIC DEVICE COMPANY LIMITED
Central Office	: No.26 Xiangjiang Road, Tourist Resorts, Weihai City, Shandong province, China
Tel	: +86 (0) 631—5660288
Fax	: +86 (0) 631—5626886

Access to Safety and Clinical Performance Summary (SSCP)

The Safety and Clinical Performance Summary (SSCP), which aims to provide public access to an updated summary of key aspects of safety and clinical performance of the Spinal System manufactured by Shandong WeiGao Orthopaedic Device Company Limited, is available in the European database on medical devices (Eudamed). Access to this database is provided at "<https://ec.europa.eu/tools/eudamed>". For access to SSCP through this database, it is available under the Basic UDI-DI: 6903095GKSPI04ZB number of the Spinal System product.

DESCRIPTION FOR GRAPHICS, SYMBOLS AND ABBREVIATIONS USED IN THE LABELS

Note: Not all of these symbols will appear on the labels you see, you may see them on labels in different regions/countries and understand what they mean.

	This Device Complies With 2017/745 MDR		Authorized Representative In The European Community/ European Union
	Do Not Reuse		Caution
	Do Not Use If Package Is Damaged		Use-By Expiration Date

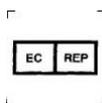


TECHNICAL FILE OF SPINAL SYSTEM

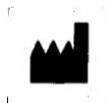
INSTRUCTION FOR USE

Doc. No.	TF.01-15-IFU
Issue Date	01.01.2022
Rev. No./Date	01/22.02.2024
Page No.	9 / 9

	Consult Instructions For Use	STERILE R	Sterilized using irradiation
LOT	Batch Code/Lot Number	UDI	Unique Device Identifier
	Date Of Manufacture	REF	Catalog / Model Number
	Information Of Manufacturer		Humidity Limitation
	Protect From Heat And Radio-Active Sources	Spec	Specification
	Keep Dry	Mat	— — Material
	Do not re sterilize		Upper Limit Of Temperature
MD	Medical device		



European representative
 Name: Shanghai International Holding Corp.GmbH(Europe)
 Address: Eiffestrasse 80, 20537 Hamburg Germany
 Tel: 0049-40-2513175
 Fax: 0049-40-255726



Manufacture Name:
 Shandong WeiGao Orthopaedic Device Company Limited

Central Office, Logistic and Storage
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