

# The Third Channel-Assisted Unilateral Biportal Endoscopic Technique for Lumbar Spinal Stenosis Combined with Contralateral Disc Herniation

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## Materials

Name	Company	Catalog Number	Comments
Bone dissector	Hengsheng Medical Instrument Co., Ltd.	PMT-BLQ001	Used for soft tissue expansion and laminar bone surface soft tissue stripping. Curved streamline design, better hand holding, one device and two uses, one end as soft tissue expansion, the other end as bone tissue dissection, fully expand and dissect the lamina and facet soft tissue.
Electric surgical equipment for osseous tissue	Viewall	VP7110	Used to grind off vertebral plate and partial facet bone; in the device channel, it is used for processing bone tissue; grind bone tissue at high speed, without damage to soft tissues such as nerve vessel; even grind close to nerve root, without damage to nerve; it is safer and faster.
Expandable Channel	Hengsheng Medical Instrument Co., Ltd.	PMT-KZG001	Perform channel dilation
Handle of scalpel	Hengsheng Medical Instrument Co., Ltd.	PMT-DB001	Used to install scalpel
Mouth gag	Hengsheng Medical Instrument Co., Ltd.	PMT-KKQ001	Used to handle annulus breaks prior to disc
Nerve hook	Hengsheng Medical Instrument Co., Ltd.	PMT-LG001	Used for traction of nerve root in surgery; under endoscopic surgical field, pull apart and protect nerve root in instrument channel and can simultaneously enter other instruments for processing intervertebral disc.
Nucleus pulposus forceps	Hengsheng Medical Instrument Co., Ltd.	PMT-SHQ003	Used for clamping soft tissue and nucleus pulposus tissue of intervertebral disc during operation. Different angles and sizes allow

			easier grasping of soft tissue in various locations during surgery, and the finger loop design is ergonomic and easy to perform, along with gunshot forceps.
Osteotome	Hengsheng Medical Instrument Co., Ltd.	PMT-GZ001	During the operation, handle the lamina and facet, osteotomes with different angles and sizes can efficiently and flexibly chisel the facet and laminar bone
Radiofrequency electrode	GAOTONG	DZX-T2430-A160	Used for hemostasis ablation, cutting and cleaning soft tissue under endoscope during operation
Rongeur	Hengsheng Medical Instrument Co., Ltd.	PMT-YGQ002	During the operation, the laminar and facet bones were bitten and cut, the bone window was enlarged, and different sizes and angles were different. The biting mouth of the large incision easily bitewed off different bony tissues and calcified tissues, greatly saving the operation time, gun design, better hand holding sensation, and more forceful biting of bony tissues during the operation
Scalpel	Hengsheng Medical Instrument Co., Ltd.	PMT-SSD001	Used to cut the annulus fibrosus
Tissue Liberator	Hengsheng Medical Instrument Co., Ltd.	PMT-BLQ002	Used for stripping soft tissue in surgery, bidirectionally at different angles; used for stripping and separating mucosal tissue under instrument channel.