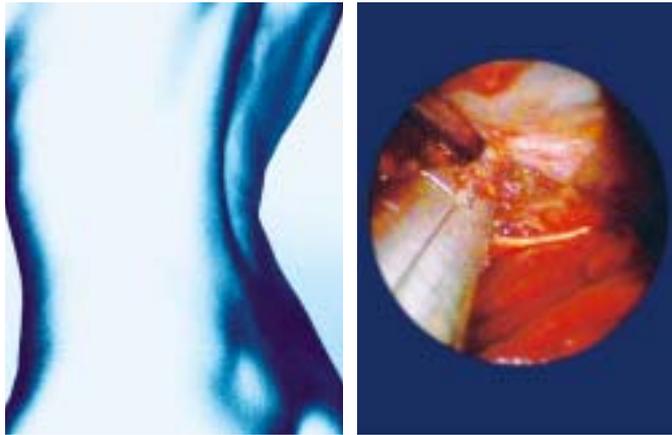




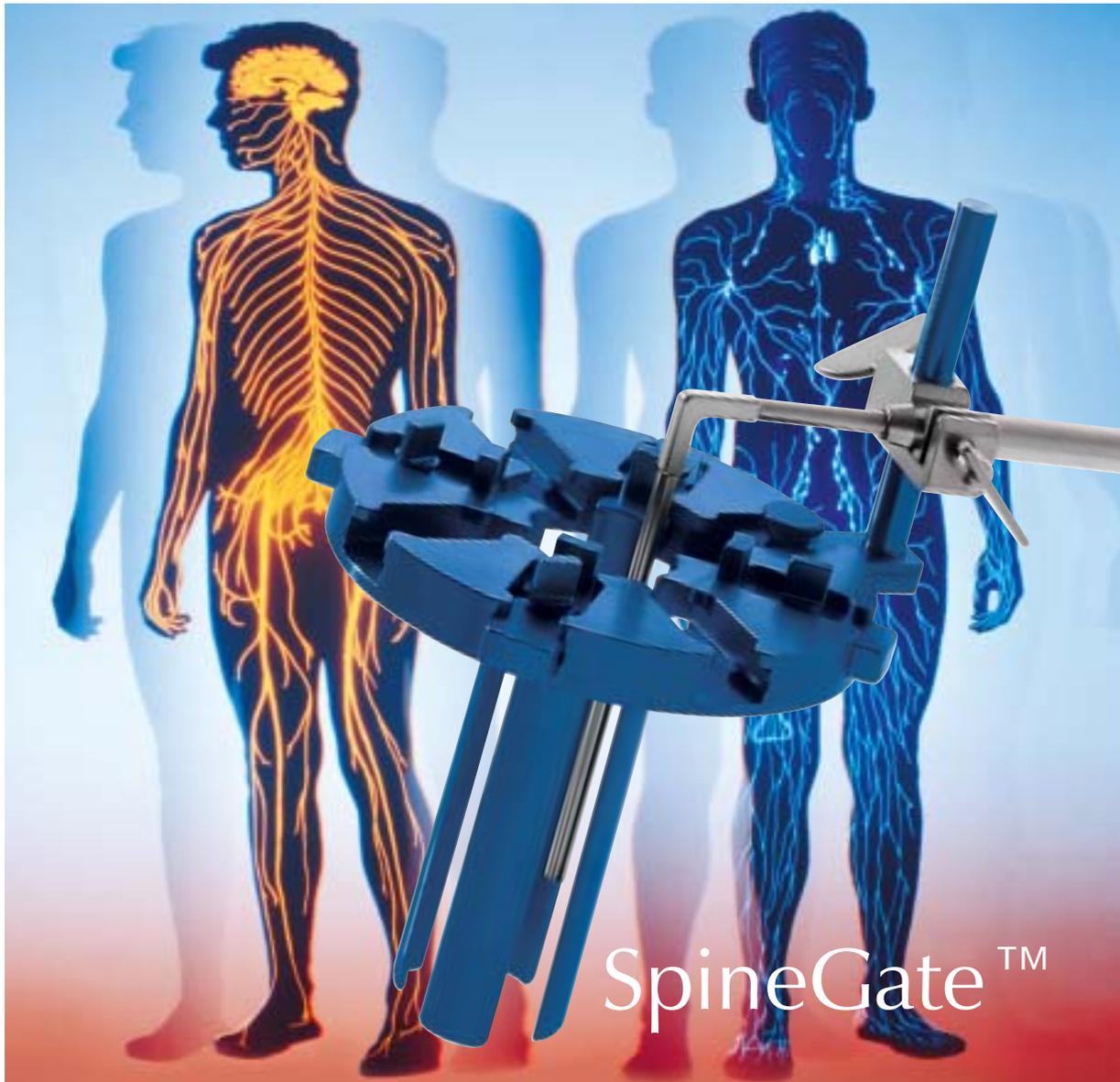
GEISTER

The better way to operate™



Minimally
Invasive
Spine Surgery

GEISTER



SpineGate™



SpineGate™

Circular retractor system with integrated endoscope for most endoscopic and microsurgical spinal interventions (e.g. microendoscopic lumbar discectomy, posterior cervical laminoforaminotomy)

Allows the spinal surgeon to decompress a symptomatic nerve root reliably using a minimally invasive surgical approach

Continuously adjustable working space from 15 to 35mm and variable fixation of the endoscope allows for simultaneous use of two instruments with clear anatomic view of the surgical field. Rapid switch from endoscopic to microscopic technique is possible without change of retractor system when needed (e.g. in case of hypertrophic facet joint requiring extensive medial facetectomy)

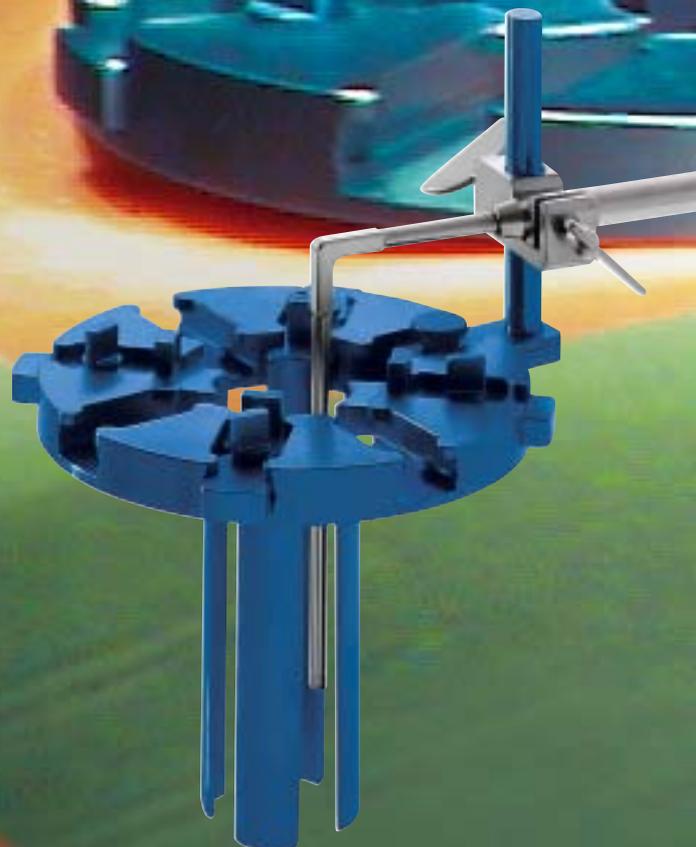
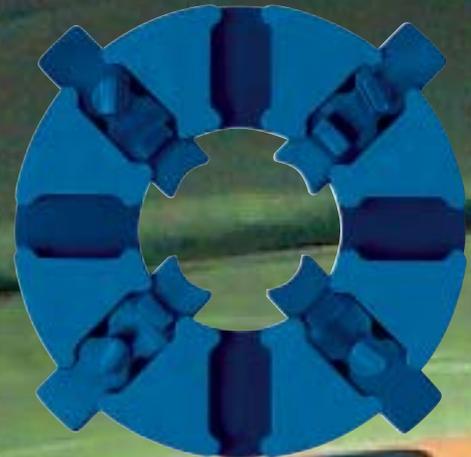
No additional fixation device, no special instruments required

Different length of blades for lumbar, cervical or far lateral application available

Easy and safe to handle, fully reusable, cost saving

Made from titanium

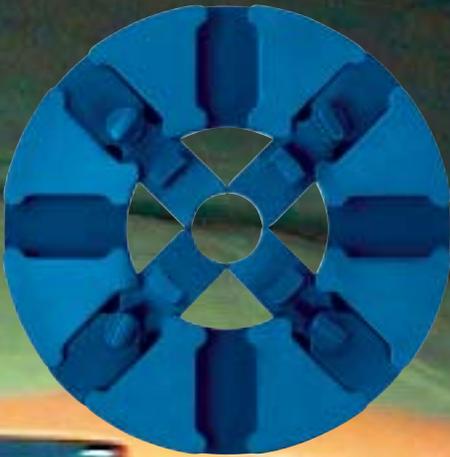
Developed in cooperation with Thomas Bauer, MD and Frank Duffner, MD, Neurosurgical Department, University of Tuebingen/ Germany



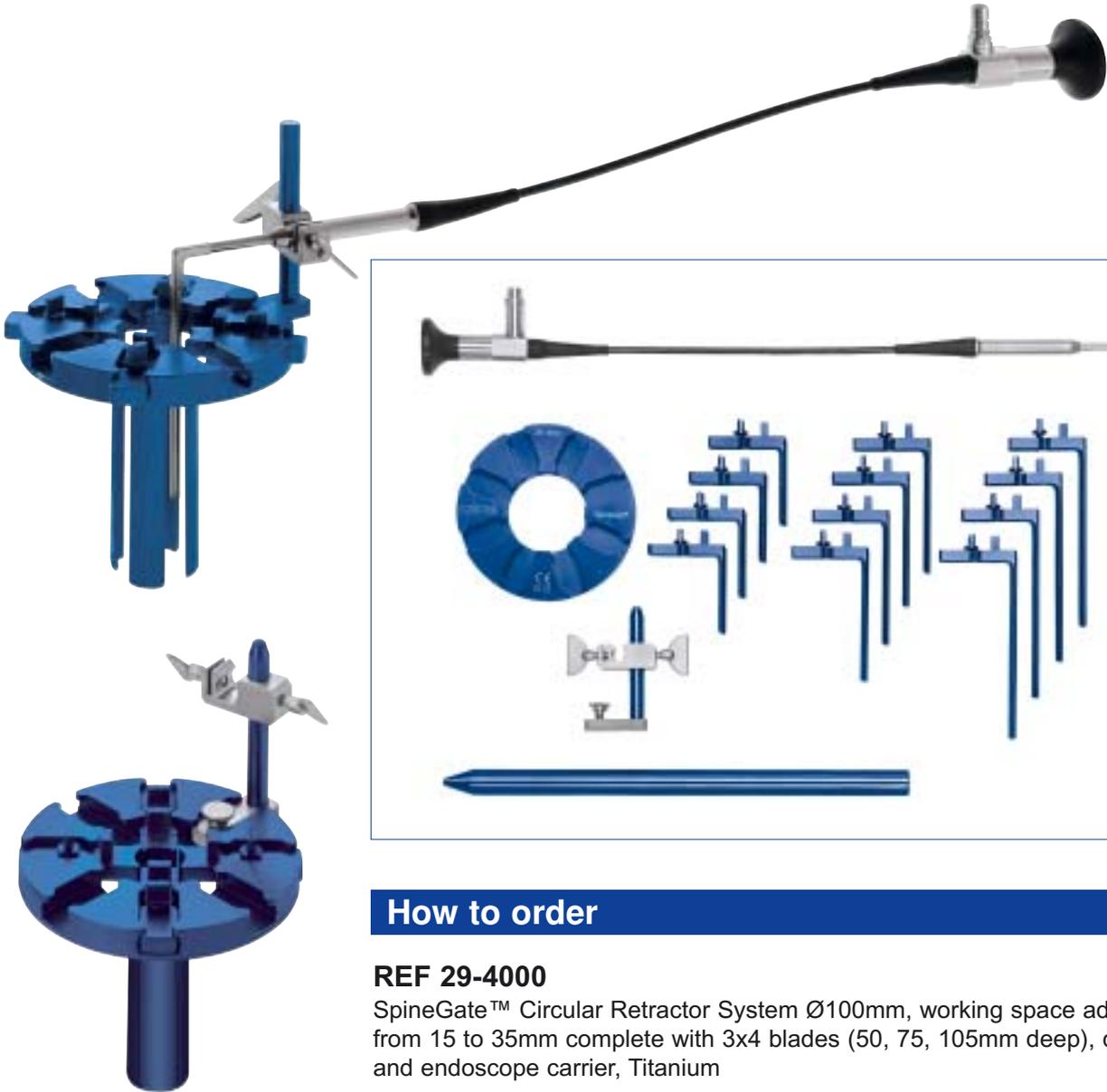


How to do it

- 1) After a 15-20mm incision of skin and lumbo-dorsal fascia the dilator is introduced under lateral fluoroscopic guidance
- 2) Sliding down the closed retractor over the dilator
- 3) Fixation in situ, opening of blades to desired position
- 4) Insertion and fixation of the endoscope
- 5) Microendoscopic discectomy operation
- 6) Removal of herniated lumbar discs
- 7) Wound closure



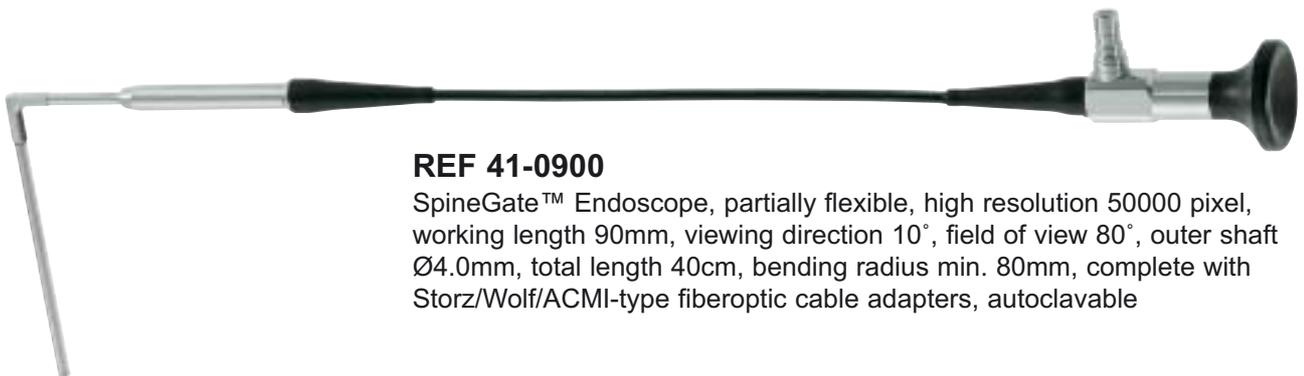
GEISTER®



How to order

REF 29-4000

SpineGate™ Circular Retractor System Ø100mm, working space adjustable from 15 to 35mm complete with 3x4 blades (50, 75, 105mm deep), dilator and endoscope carrier, Titanium



REF 41-0900

SpineGate™ Endoscope, partially flexible, high resolution 50000 pixel, working length 90mm, viewing direction 10°, field of view 80°, outer shaft Ø4.0mm, total length 40cm, bending radius min. 80mm, complete with Storz/Wolf/ACMI-type fiberoptic cable adapters, autoclavable

Patent pending in the US, Germany and other countries



The better way to operate™

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