

# GEISTER



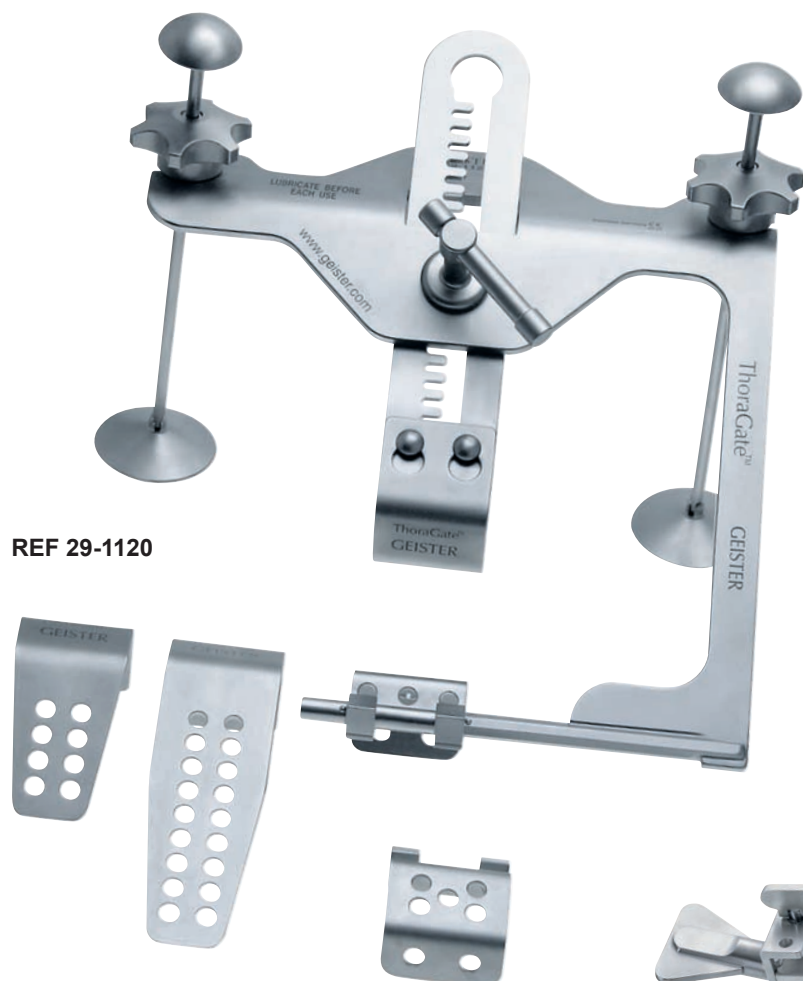
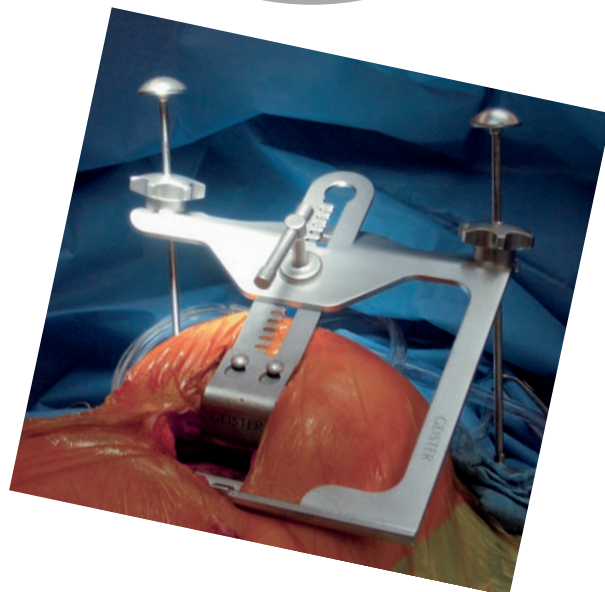
The better way to operate™



ThoraGate™  
Rib Up Retractor



Minimally invasive direct coronary artery bypass (MIDCAB) with the GEISTER® ThoraGate™ system requires a substantially smaller incision than conventional coronary artery bypass grafting (CABG). A leftside minithoracotomy is being performed, then the left internal mammary artery (IMA) harvested under direct vision, and an anastomosis being performed between IMA and LAD under direct vision, using a mechanical GEISTER® stabilizer system, fixed by a t-bar or a flexible arm either on the ThoraGate™ itself, or - after changing the retractor in situ - on a small mini-thoracotomy retractor, for local mechanical immobilization.



REF 29-1120

## 29-1120

ThoraGate™ Rib Up Retractor for MIDCAB Surgery (left side open)

## 29-1121 (not illustrated)

ThoraGate™ Rib Up Retractor for MIDCAB Surgery (right side open)

- + stable rib elevation
- + facilitates harvesting
- + excellent exposure
- + larger operating area
- + choice of 2 lower blades
- + choice of 3 upper blades



## 29-1485

Flexible Arm (without foot)



## 29-1443V

Satoh II Suction Stabilizer Foot



## 29-1444V

Compact Suction Stabilizer Foot



## 29-1441V

Riess Stabilizer Foot



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