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 left side mini-thoracotomy 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**
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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