

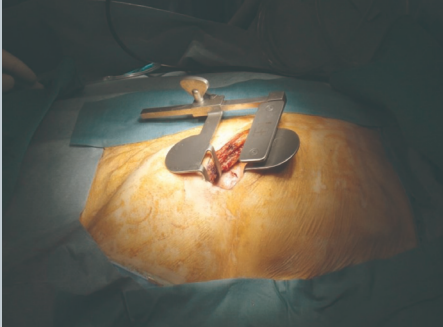
**Minimally Invasive  
Direct Coronary Artery Bypass**

**Takahashi MIDCAB Retractors**

## Small Thoracotomy Retractor

### Opening

Opening



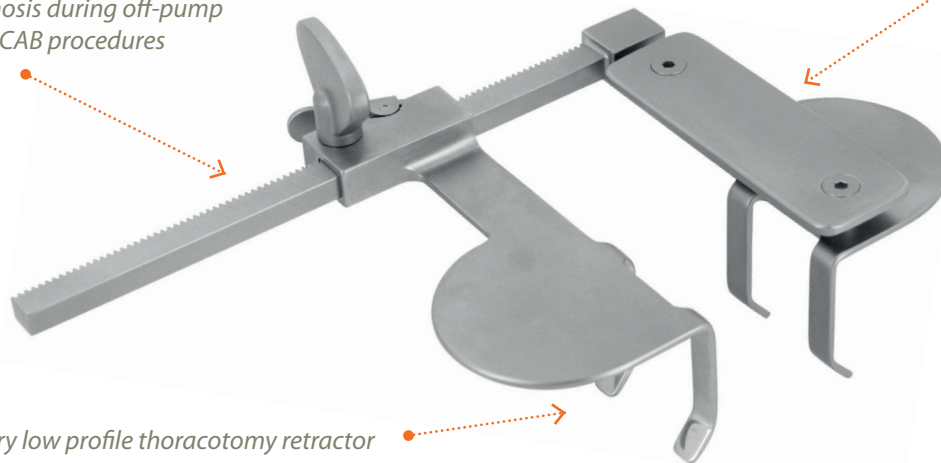
Tissue dissection



Pericardium opening and traction suturing



To perform anastomosis during off-pump CABG and MIDCAB procedures

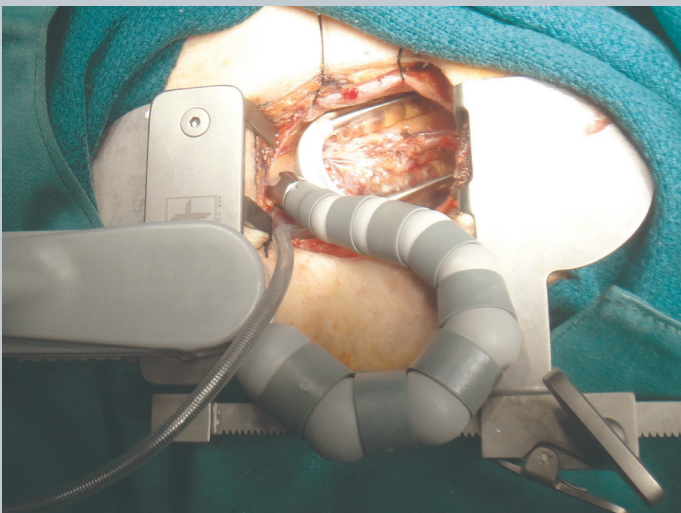


The attached plate allows to accommodate most of the commercially available stabilizers

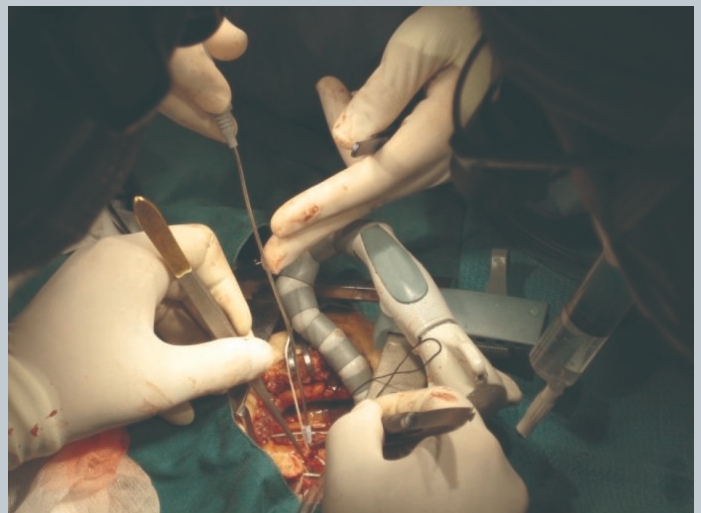
Very low profile thoracotomy retractor

### Anastomosis

Exposure of LAD

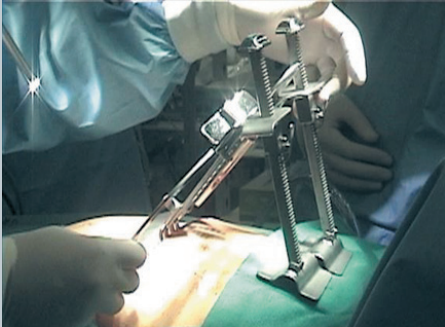


Anastomosis

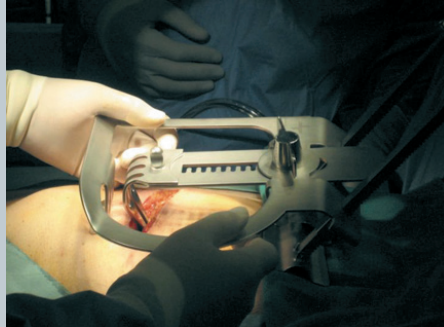


## Exposure of IMA

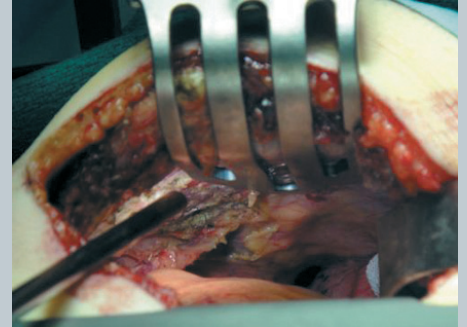
Opening



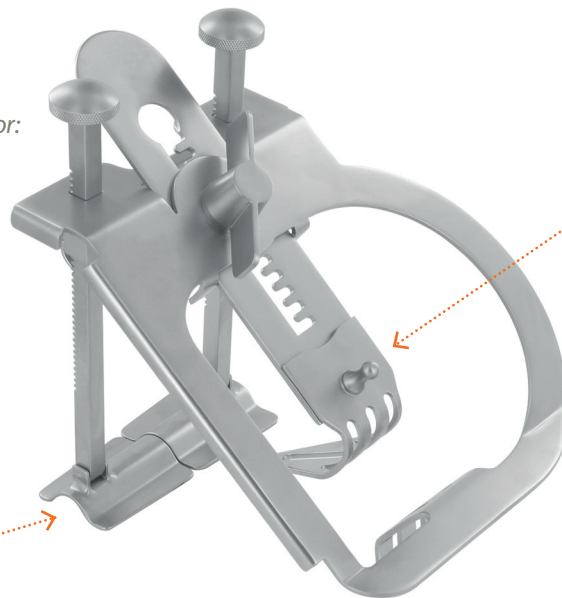
Setting up



Exposure



*Intercostal IMA self-retracting retractor:  
does not need any arm to hold it*



*Anatomically adapted*

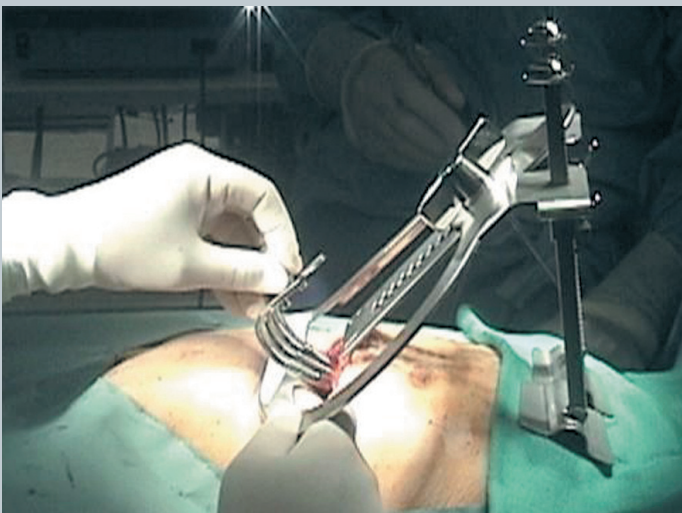
*Easy positioning and changing blade  
with an upper holding pin*

*Complete dissection of mammary artery  
thanks to 3 sizes of blades*

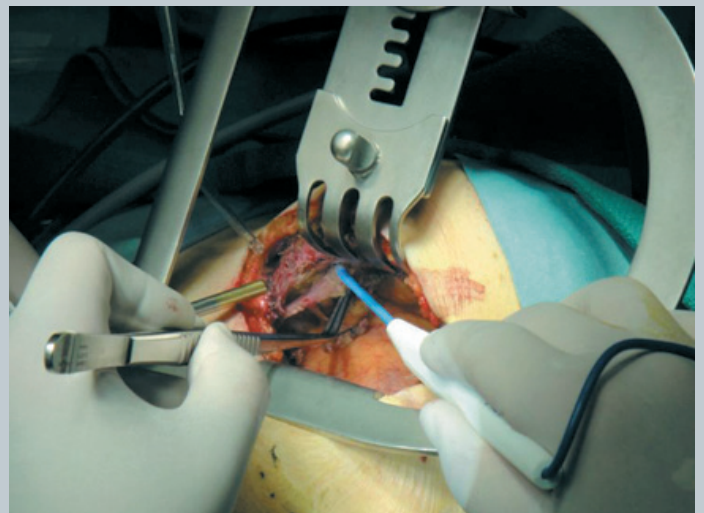


## IMA Harvesting

Change of blade

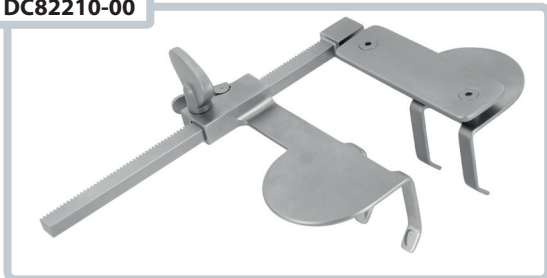


IMA Harvesting





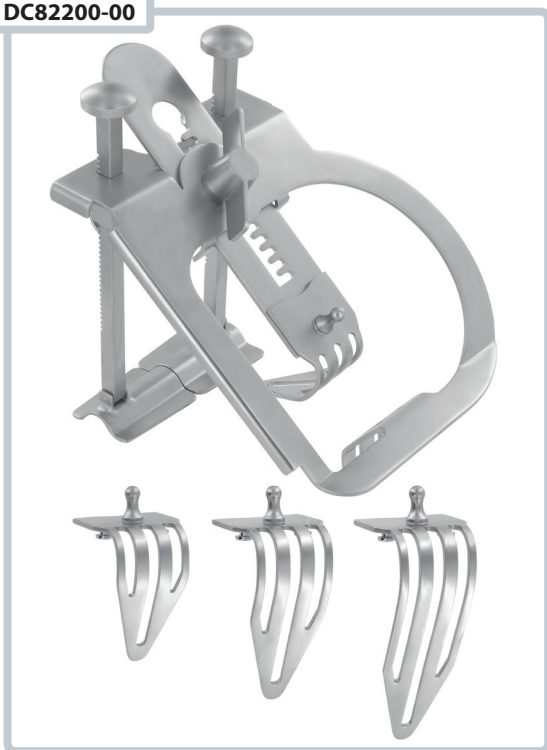
DC82210-00



## Small Thoracotomy Retractor

- ✦ Very low profile thoracotomy retractor,
- ✦ The attached plate allows to accommodate most of the commercially available stabilizers,
- ✦ To perform anastomosis during off-pump CABG and MIDCAB procedures.

DC82200-00



## MIDAccess IMA Retractor for MIDCAB procedure

- ✦ Intercostal IMA self-retraining retractor: does not need any arm to hold it,
- ✦ Easy positioning and changing blade with an upper holding pin,
- ✦ Complete dissection of mammary artery thanks to 3 sizes of blades,
- ✦ A stabilizer can be fixed on it to perform the anastomosis,
- ✦ Totally comes apart for a simple cleaning,
- ✦ Provided with three blades : 65 x 40mm, 85 x 40mm and 110 x 40mm.

  
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