Minimally Invasive
Direct Coronary Artery Bypass

Takahashi MIDCAB Retractors
Small Thoracotomy Retractor

Opening

- Opening
- Tissue dissection
- Pericardium opening and traction suturing

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

To perform anastomosis during off-pump CABG and MIDCAB procedures.

Anastomosis

- Exposure of LAD
- Anastomosis

Very low profile thoracotomy retractor.
**Exposure of IMA**

- **Opening**
- **Setting up**
- **Exposure**

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

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

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

**IMA Harvesting**

- **Change of blade**
- **IMA Harvesting**

*Anatomically adapted*
**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.

**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.