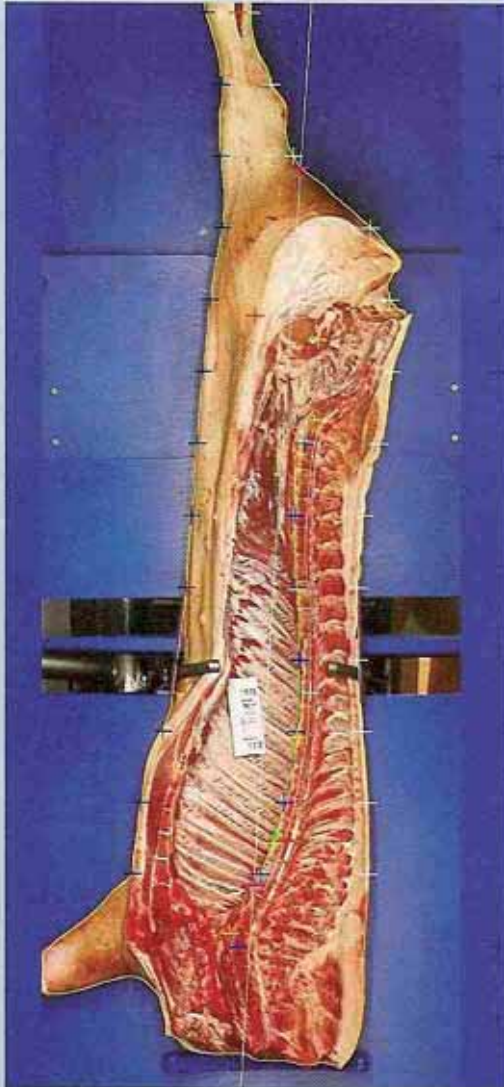


# VRCS 2000



**vision based  
cutting robot**

**in co-operation with:  
KUKA and BANSS**



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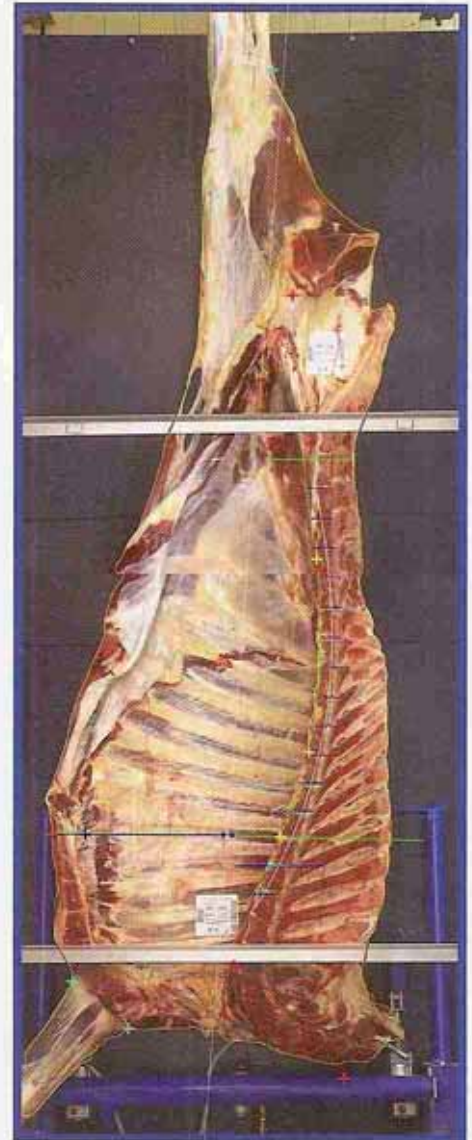
**VRCS 2000** Sensor system for automatic primal cutting of vertical halves  
**VRBS 2000** (pig and cattle) by industrial robots

For the cutting robot of the company KUKA a sensor system was developed based on image processing for control of the cut path

- primal cutting of vertical halves
- flexible non-linear cut direction (curve cut), for instance separation of chop / belly



robot system



example of  
cut path:  
thoracic vertebra cut to cattle dissection

- a 2 camera system automatically acquires the halves and transmits the image data to a separate evaluation pc
- the cut path is determined with high stability and precision based on the specific anatomic features of every half
- according to customer requirements and market conditions different cuts can be defined



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