

BUTT DIMENSION VISION SYSTEM ALUMINIUM SMELTER

The Butt Dimension Vision System is a measurement system for butts returned from the potline. The butt height and width and optionally the butt top are measured. Thus the butt volume are calculated.

The anode is running in front of the vision system and images are captured while the anode is passing.

BUTT DIMENSION MEASUREMENTS

The Butt Dimension system includes the following measurements:

- Height
- Length
- Top area - option

Based on these measurements the butt volume and weight is calculated.

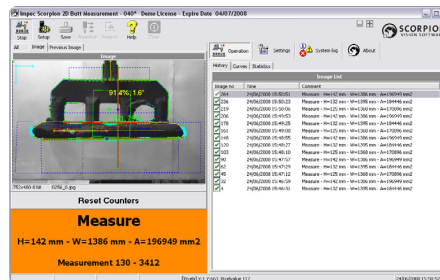


Butt ready to be measured.

The system is equipped with 1 to 3 cameras where 1 camera is used for the height and length measurements.

The height is important information to the potline for knowledge about the standing time of the anodes.

As an option 2 extra cameras can be mounted for measurement of the area of the butt. This is used for the volume and weight calculation.



Butt measurements presented on screen

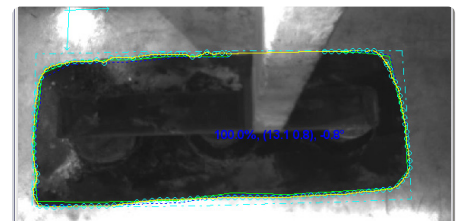
RESULTS

The system displays the following information on screen:

- The system state:
 - **NO BUTT**
 - **BUTT PRESENT**
 - **COMPLETE BUTT PRESENT**
 - **MEASURE**
- When the system is in Measure state, the measured values are presented.

In addition the system has the following features:

- Real time presentation of camera images with fault indication
- Curves for all measured parameters
- Measurement statistics
- A classification counter



Top area

For all vision tasks, the software of choice is Scorpion Vision Software®. Scorpion is an independent, configurable and open software tool for industrial vision. It is ideal for increased automation and improved quality in production output.

The hardware platform for a Scorpion Vision Server is GigE cameras, OPC, TCP/IP, Profibus, Quad Core processors, Hot Swap redundant disk and Industrial Ethernet technology.

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TECHNICAL DATA

EQUIPMENT: 19" cabinet IP56 and cooling device, Industrial Computer, Color Touch Screen, Scorpion Vision Software, One (optional 2 extra) digital cameras, One halogen lamp, Devicenet interface, Ethernet connection for remote control

CABINET DIMENSION: The interior dimension of the enclosure is: width=2000 mm, length=1500 mm and height = 2400 mm

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