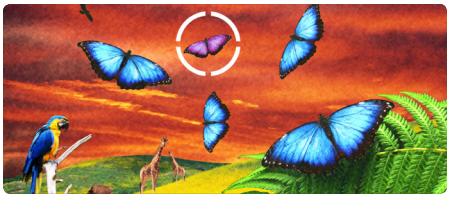


SCORPION VISION SOFTWARE®

Tordivel as
Storgata 20, N-0184 Oslo, Norway
www.scorpionvision.com
TORDIVEL

Vision System for Rodding Aluminium Smelter

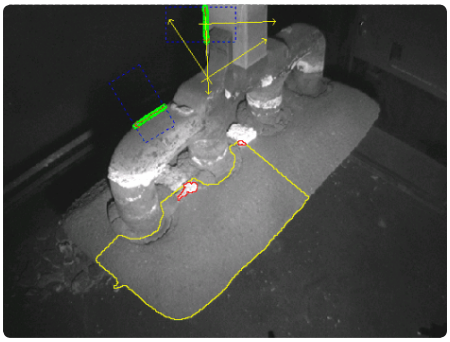
Scorpion Vision System for Rodding is a complete, cost effective and expandable platform for robust measurement, classification and tracking in Rodding Shops.
The system consists of these applications:

- Butt Classification
- Stub Classification
- Rod Tracking System

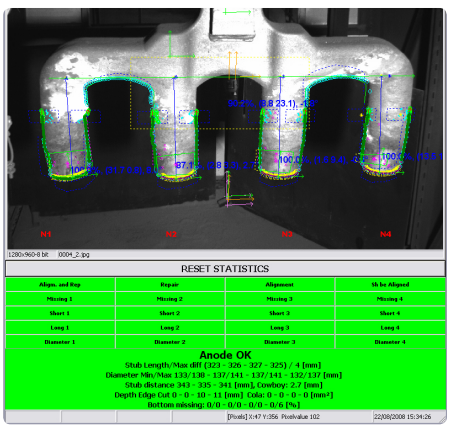
Butt Classification

The Butt Classification includes the following measurements:

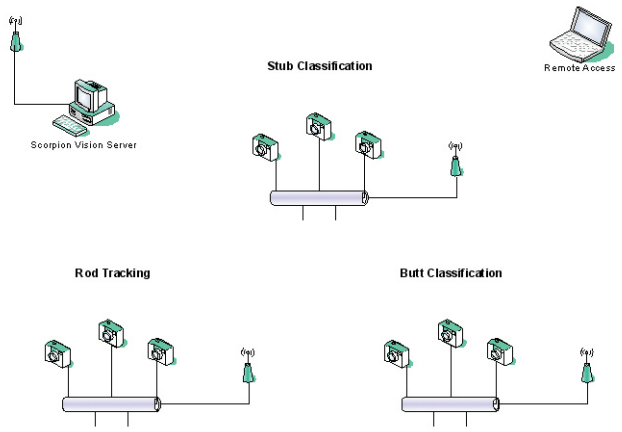
- Butt Dimension
  - Height, Area or Volume
- Bath Inspection
  - Area and Coverage %
  - Classification



The white areas identified with red borders are not properly cleaned.



Stub classification



System Architecture. Multiple application are connected over tcp/ip to a Scorpion Vision Rodding Server. With digital ip-cameras, the deployment and installation costs are low. The system can be remotely supported and configured.

Stub Classification

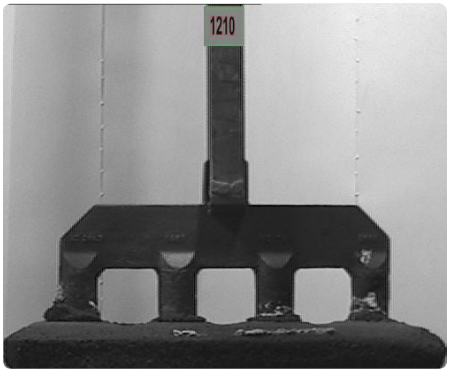
The Stub Classification includes the following measurements and calculations:

- Stub Measurement
  - 2D & 3D Measurement
  - Stub Cowboy Classification
- Stub Shape Verification
  - Stub Length, Diameter (min, max, mean)
  - Stub Shape Classification
- Bimetal Crack Detection

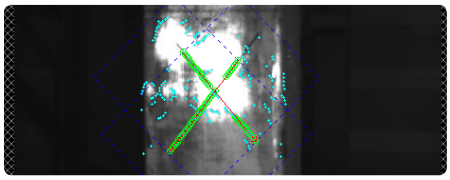
Rod Tracking

The Rod Tracking system includes these functions:

- Reading number on anode
- Reading number on rod
- Reading numbers / position in pot line
- Use this to collect / read information.



Rod tracking



Identification symbol found

For all vision tasks, the software of choice is Scorpion Vision Software®. Scorpion is an independent, configurable and open software tool for industrial vision.

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.
The Scorpion 3D Stinger Camera is used as a building block.

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