SCORPION
VISION SOFTWARE®

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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.
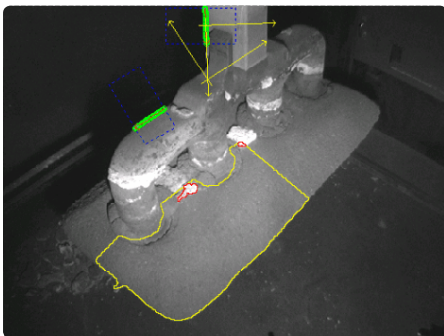
The system consists of these applications:

- Butt Classification
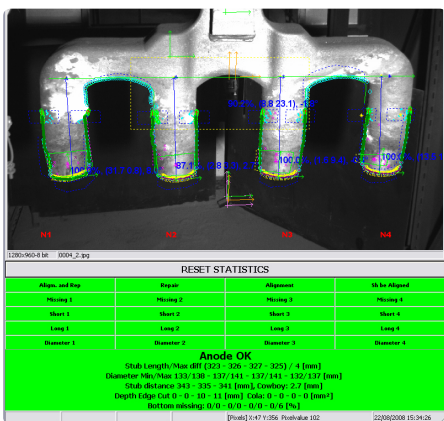- Stub Classification
- Rod Tracking System

Butt Classification
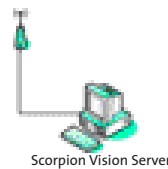
The Butt Classification includes the following measurements:

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

Stub Classification

Scorpion Vision Server

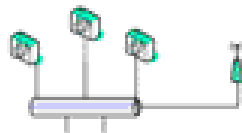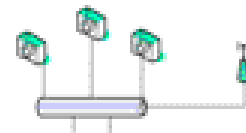Remote Access

Rod Tracking

Butt 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.

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

Stub Classification

The Stub Classification includes the following measurements and calculations:

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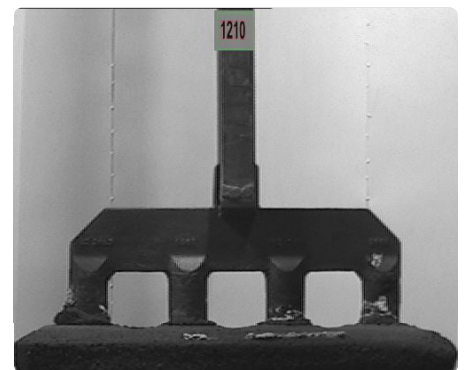
Rod Tracking

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

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.

Stub classification

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IMPEC
- improving process efficiency

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