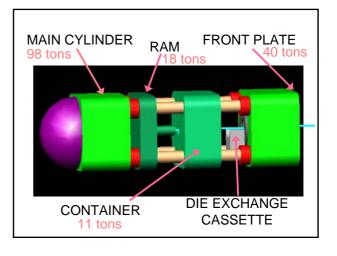


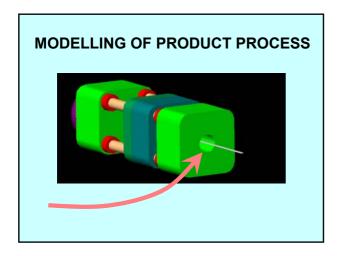
### Content

- Control and Setting Measurements at ALCOA Köfém, Hungary
- Control Measurements at Power Station Cottam, England

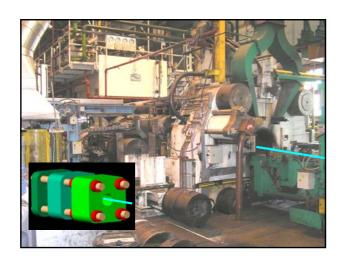
This is an authorised presentation by the ALCOA Köfém, Hungary and SAB GmBH, Austria

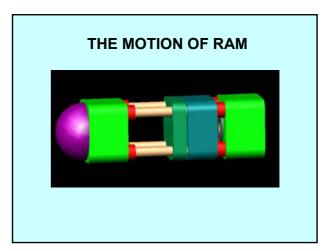
# ALCOA One of the greatest aluminium manufacturers all over the world Establishment in Hungary ⇒ ALCOA KÖFÉM Location : Székesfehérvár Half ready products Moulds Rolled plates Simple and complex shapes, e.g. wheel hoops

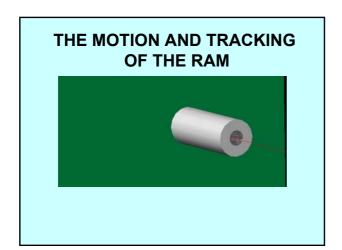


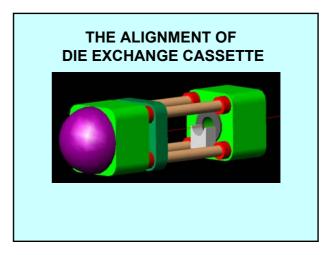


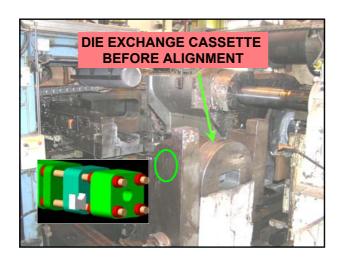
... and the REALITY

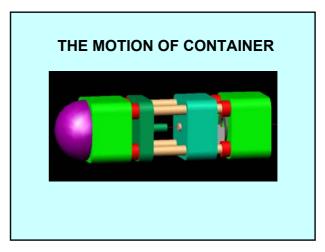


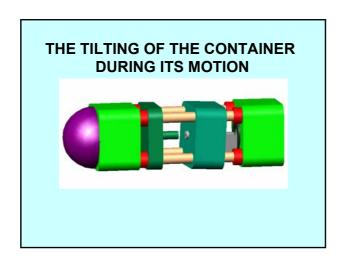


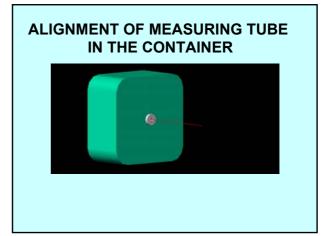


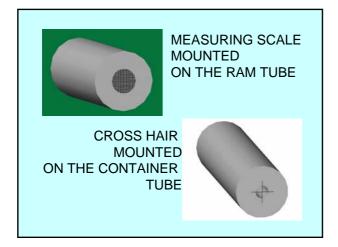




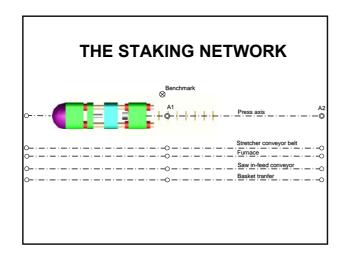


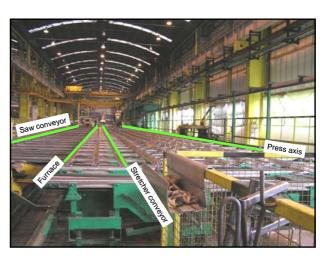






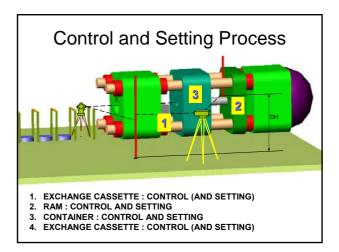
# **GEODETIC REFERENCES**





## THE TYPE OF MEASUREMENTS

- NI 002 A and TOTAL STATION
- Need for level the height of initial position of main cylinder
- Requisite for accuracy ≤ 1" to keep 0.1 mm ⇒ TC 1800



# THE ACCURACY OF OBSERVATIONS

- Non-preheated press
  - Horizontal: 0.1 mmVertical: 0.1 mm
- · Preheated press
  - couple of tenth mm, it cannot be said precisely

### **MAJOR FACTOR**

- The time of observations
  - -By night in the case of 90 per cent
  - Observer's attention and concentration capability

# **TIME NEED**

• EXCHANGE CASSETTE : couple of minutes

• RAM: 1 ... 3 ... (5) hours

• CONTAINER: 3 ... 6 hours ... (days)

• EXCHANGE CASSETTE : couple of

minutes ... 1 hour

Extreme case: May 2000, almost four days with longer breaks

# THE REASONS OF IMPERFECT OPERATIONS



