

Chamber production status Aachen

CMS week, February 24-28, 2003

Chambers:

- **Ready:** 12 (2002)
- **at CERN:** 12 (2002)

Superlayers:

- **Mechanics:** 64-1 = 63 SL ready
- **Cosmic test:** 53-1 = 52 SL ready

Production speed 2003:

- **Mechanics:** 13 SL in 7 weeks = 1.8 SL/week
(nominal = 1.5 SL/week)
- **Electronics/Test:** same, at the limit !

Comments:

- **Improvements in Quality Control**
preparing tests of slow control boards
- **11+2 special chambers:** different sizes !
new tooling in preparation
need plates, honeycombs, covers

Aachen Chamber Quality

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Overall:

- **Mechanics, Electronics, Cosmic Test:** ok

Not yet:

- **Slow Control:** coming !

Alignment problem in 2 SLs:

- **Symptom:**
 - outer layer in ϕ -SL 18 in ch. 3: offset 0.5 mm = 9 ns
 - outer layer in ϕ -SL 21 in ch. 8: offset 0.4 mm = 8 ns
- **Consequences:** offline: ok; trigger: just ok (12.5 ns)
- **Cause:** not 100% clear, appropriate measures taken
- **Quality Control ?**
 - **absolute wire coordinates:**
 - new (additional) reference system since end 2002
 - **cosmic test SL:**
 - more rigorous check of meantime
 - **cosmic test full chamber:**
 - discovery of problem !