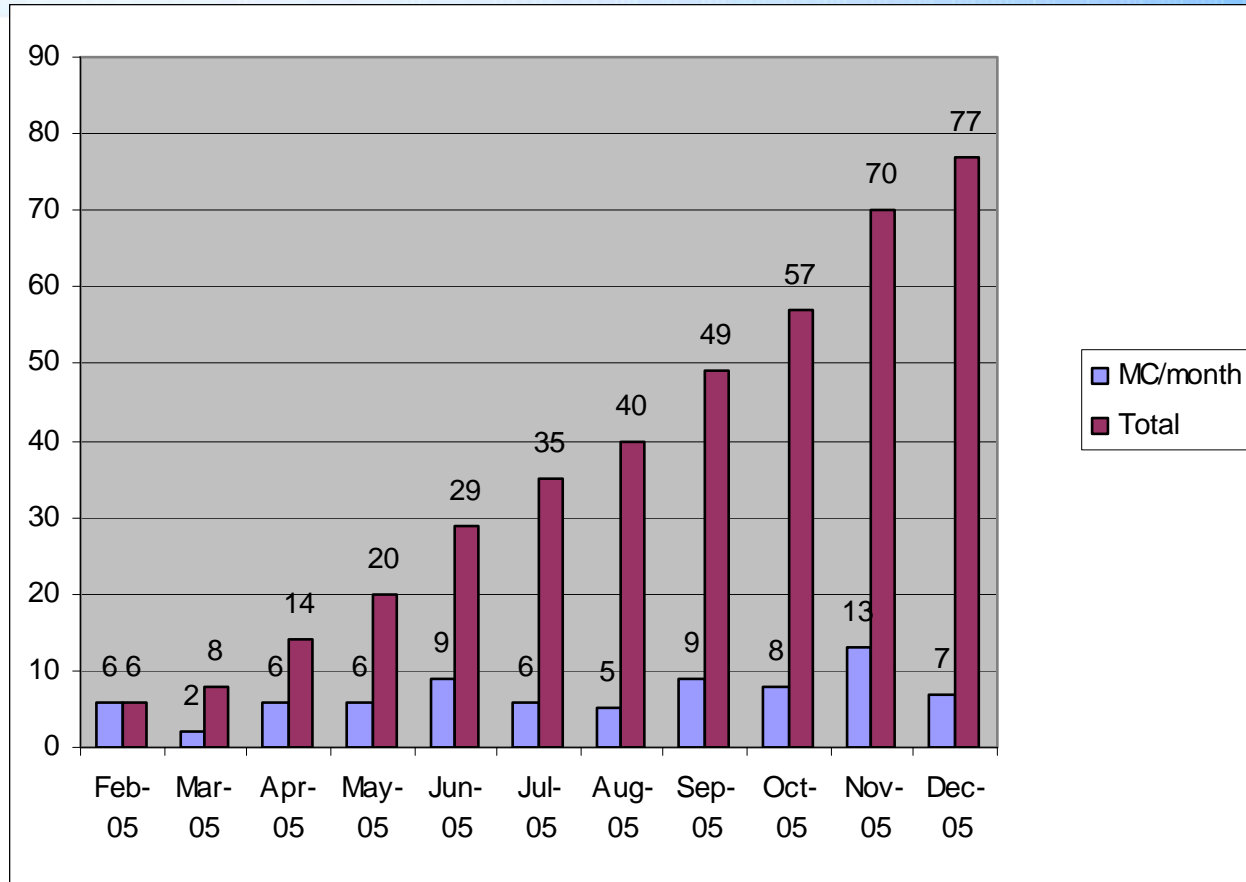




Bologna MC production - status



October 24: Assembly and Boundary Scan Test done by external firm



Schedule



MC type Label	stato	31-Oct	7-Nov	14-Nov	21-Nov	28-Nov	5-Dec	12-Dec	19-Dec	26-Dec
MB2-R /S-	at Cern	█								
MB3-L /S0	at Cern									
MB1-R /S+	at Cern	█								
MB2-R /S-	at Cern		█							
MB3-L /S0	at Cern		█							
MB3-L /S0	at Cern		█							
MB1-L /S-	at Cern			█						
MB3-L /S0	at Cern yesterday	█								
MB1-L /S-	at Cern			█						
MB1-L /S-	at Cern				█					
MB4(9-11)-L /S0	at Cern yesterday	█								
MB1-R /S+	at Cern				█					
MB2-R /S-	at Cern yesterday	█								
MB1-L /S-	at Cern yesterday	█								
MB2-L /S+	boundary scan ok					█				
MB4(9-11)-L /S0	at Cern yesterday	█					█			
MB1-R /S+	at Cern						█			
MB2-R /S-	boundary scan ok						█			
MB1-R /S+	at Cern							█		
MB2-R /S-	boundary scan ok							█		
MB1-R /S+	at Cern								█	
MB2-R /S-	to do								█	
MB1-R /S+	at Cern yesterday	█								
MB1-R /S+	at Cern yesterday	█								
MB1-R /S+	under test								█	
MB1-R /S+	boundary scan ok									█
MB1-R /S+	to do									█

today

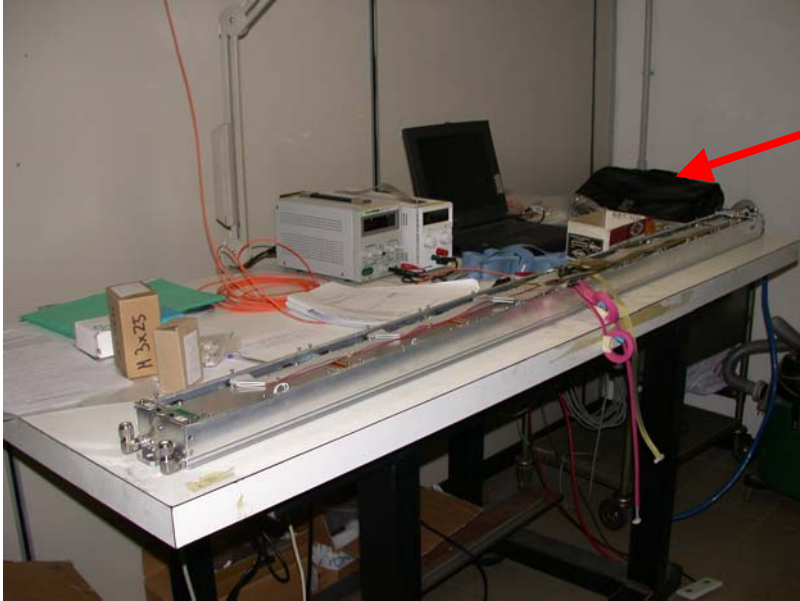


Table 1: assembly and boundary scan

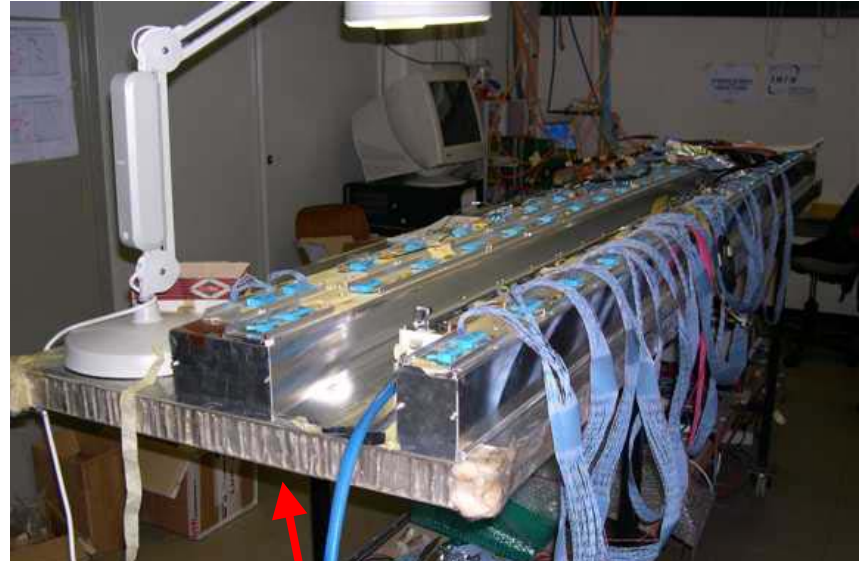


Table 2: full test of Minicrate



Table 3: dressing



Ext. Firm Assembly

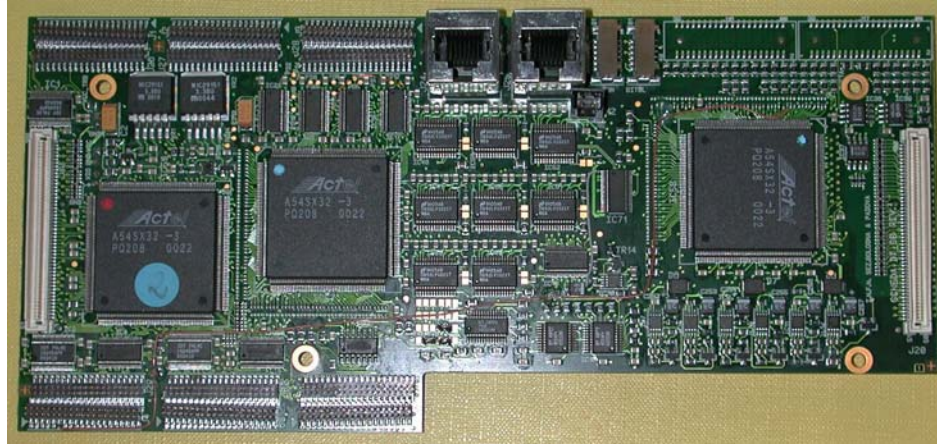
- 1 technician in our lab => MC stuffing with boards + cabling + first powering + boundary scan test
- Started at 24 october: the training was very fast; actually he needs support only when the boundary scan test fails
- 20 MC in 6 weeks; only few stops (3-4 days in total) due to missing parts
- Boost in MC production : 20 MC in 6 week (> 3 MC/week)



..and tomorrow?

3 critical factors which could limit the actual production rate

- MC availability: now we have a buffer (7 MC); ok until mid of Dec. when MC will arrive from Madrid
 - => we will fulfill the gap between delivered/assembled (this will affect only our buffering capability or the production rate?)
- TRB availability: no long stops so far, only schedule fine adjustments (e.g. mb1 instead of mb3) but...
 - the number of board with failures grows
 - => planning of manpower to fulfill concurrent priorities (MC production, test of delivered boards, recovery of faulty boards) is getting difficult.
- All other parts availability and procurements (mainly cables):
Since we are approaching 2/3 of MC production, a cross-check of installed/available on sites/faults/still to be produced/... parts should start



- Madrid needs 15 SB to finish the 250 MC production
- In Bologna we have 11 SB perfectly working + ~30 SB with failures
- We decided to use the last MC to be shipped in our schedule for testing the faulty SB (on-board functionalities + boundary scan test).