HEC status at MPI Munich

- module assembly preparation
- QC improvements
- contributions to CERN repair line
- electronics and cables
- technical run news

stacking preparation

- stacking tables installed
- HV test stands prepared
- EST HV-test electrodes in workshop for modification
- EST contour/dimension testing device at external firm, expect delivery in March
- height control testing tool ready
- copper for 5 rear modules in clean room, for 2 front modules in stock
- expect start-up of stacking March 6

QC improvements

- simplified procedures
- HV reduced to 2.5/2 kV
- Gap capacity measurement dropped
- EST dimension test and gap height control added
- QC forms revised

Prüfblatt Gap

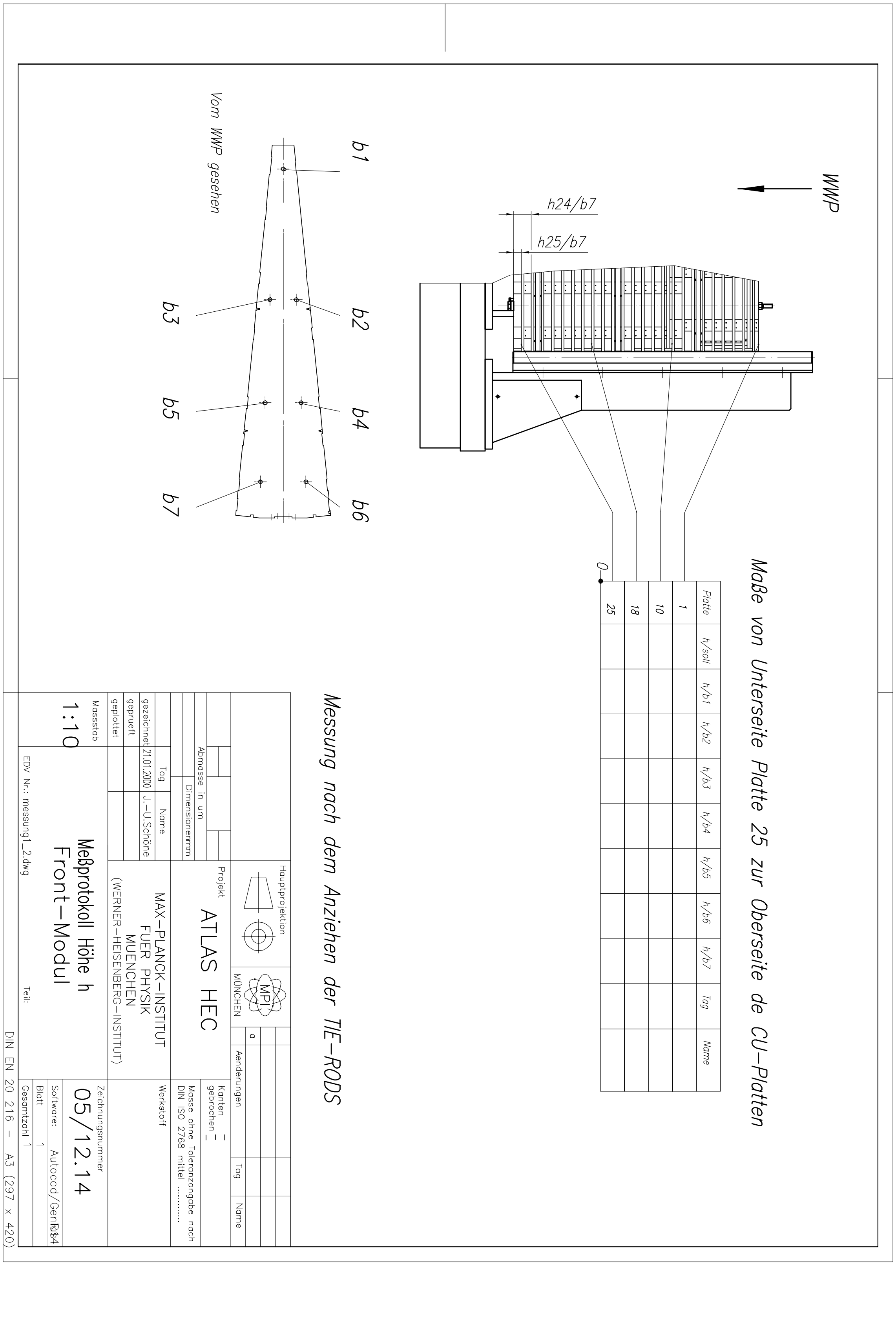
Module	**Lage**	**Beginn - Datum/Uhrzeit**	**Ende - Datum/Uhrzeit**	**Crew**
	Temperatur :		**Luftfeuchtigkeit :**	

Typ	**Seriennummer**	**Gereinigt**	**Kommentar**
Cu Platte			
Spacer			
Hexcel 4		XXXXX	
EST 2		XXXXX	
Hexcel 3		XXXXX	
PAD		XXXXX	
Hexcel 2		XXXXX	
EST 1		XXXXX	
Hexcel 1		XXXXX	
Gaphöhenkontrolle			

Gaptest				
Subgap 3% Luftfeucht.	**Spannung [kV]**	**Strom [nA]** Maximum	**Strom [nA]** Gemessen	**Kommentar**
Gap EST 2	2.5	50(?)		
Gap PAD 2	2.5	50(?)		
Gap PAD 1	2.5	50(?)		
Gap EST 1	2.5	50(?)		

Stapeltest				
Subgap 50% Luftfeucht.	**Spannung [kV]**	**Strom [nA]** Maximum	**Strom [nA]** Gemessen	**Kommentar**
Gap EST 2	2.5	100(?)		
Gap PAD 2	2.5	100(?)		
Gap PAD 1	2.5	100(?)		
Gap EST 1	2.5	100(?)		

QC forms



Platte	h/soll	h/b1	h/b2	h/b3	h/b4	h/b5	h/b6	h/b7	Tag	Name
1										
10										
18										
25										

CERN repair line support

- stacking table ready
- 3 stacking posts at workshop
- first-plate feet at workshop
- hydraulics and driving rolls ready
- shipment to CERN in March
- Capacity measuring device and HV equipment are at CERN

- **PSB production well advanced**
- **100 % of chips produced**
- **139 PSB's produced**
- **130 PSB's passed acceptance tests**
- **production of remaining 235 PSB's starts this week**
- **problems with the testing set-up calibration control module unstable**
- **cable harnesses for one whole endcap are produced**

Motivation:

- test mechanical cold test equipment
- investigate noise
- understand calibration pulse and signal distortion

Status:

- mechanical installation (1 front module) completed
- electronics chain and daq is running
- noise investigation started
- shape distortion measurements underway

Problem : → figure