

our machine was studied and actually made at CERN in the 1980s. In 1996 PTR (a German company) installed an electron gun with 70 kV and 30 kW together with the corresponding equipment (high voltage generator, power supply, and CNC). The mechanical elements and the low-level electronics are bought from industry and where then installed in the machine (motors, encoders, mechanical positioning,...)

Below there are some references:

CNC

Synumeric 880N version 6

[http://www.automation.siemens.com/doconweb/pdf/840C\\_1101\\_E/UNIV\\_SS.pdf?p=1](http://www.automation.siemens.com/doconweb/pdf/840C_1101_E/UNIV_SS.pdf?p=1)

Guideways for linear motion for the main table

<http://www.directindustry.fr/prod/schaeffler-kg-ina/patin-a-recirculation-de-rouleaux-169-54690.html>

Motor for the main table: SIEMENS 3-phase Servomotor

Type : 1 FT5 074

[http://www.automation.siemens.com/doconweb/pdf/SINUMERIK\\_SIMODRIVE\\_04\\_2009\\_E/1FT506\\_BE.pdf?p=1](http://www.automation.siemens.com/doconweb/pdf/SINUMERIK_SIMODRIVE_04_2009_E/1FT506_BE.pdf?p=1)

Encoder

HEIDENHAIM ROD 420 RDD426

<http://www.atechauthority.com/products.asp?id=173>

-- FrankGerigk - 2009-09-16

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