DELIVERY RECORD

Client: INFN-LNF

Facility: SPARC_LAB

(Sources for Plasma Accelerators and Radiation Compton with Lasers and Beams)

Location: Rome, Italy

1 October 2018

MITSUBISHI HEAVY INDUSTRIES MECHATRONICS SYSTEMS, LTD.
Machinery Systems Sales Department

MHIMS0115013

OUTLINE

MITSUBISHI HEAVY INDUSTRIES MACHINERY SYSTEMS

MHIMS0115013

1. OVERVIEW

2. S-BAND ACCELERATING STRUCTURE

1. OVERVIEW

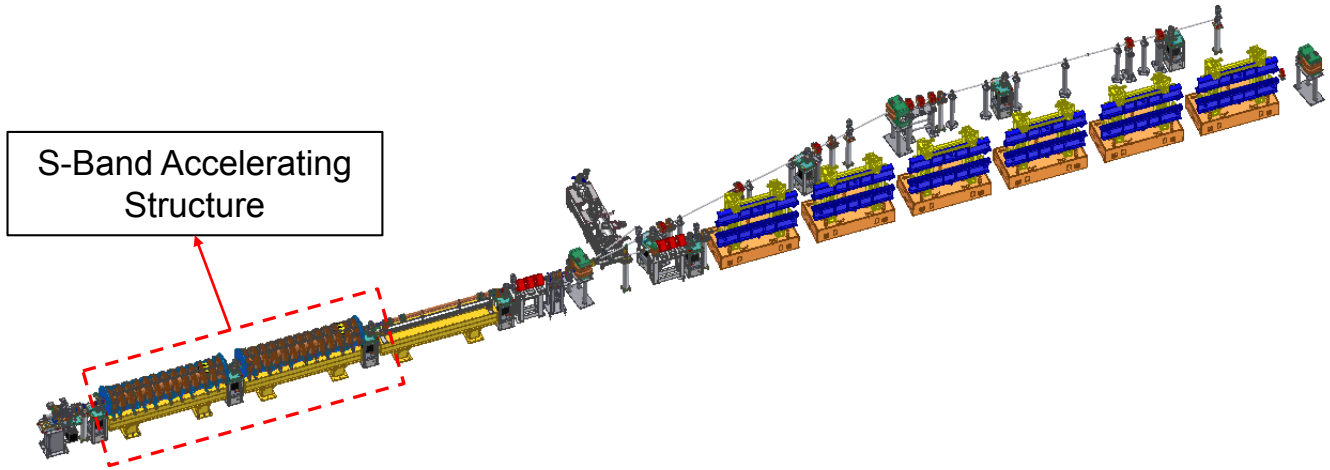
MITSUBISHI HEAVY INDUSTRIES MACHINERY SYSTEMS

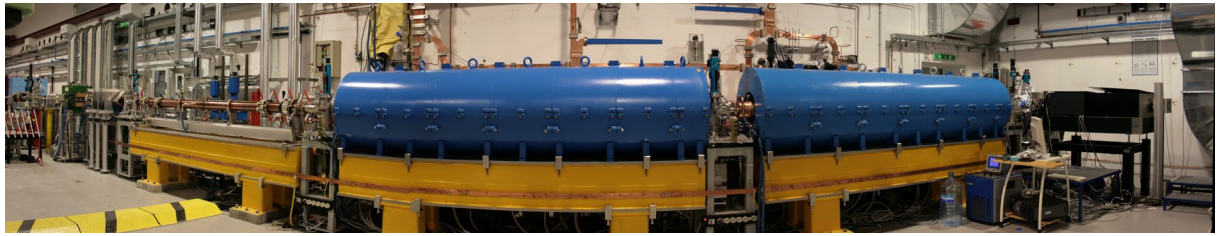
MHIMS0115013

Courtesy of INFN-LNF

List of Main Supplies

S-band Accelerating Stucture





2. S-BAND ACCELERATING STRUCTURE

MITSUBISHI HEAVY INDUSTRIES MACHINERY SYSTEMS

MHIMS0115013

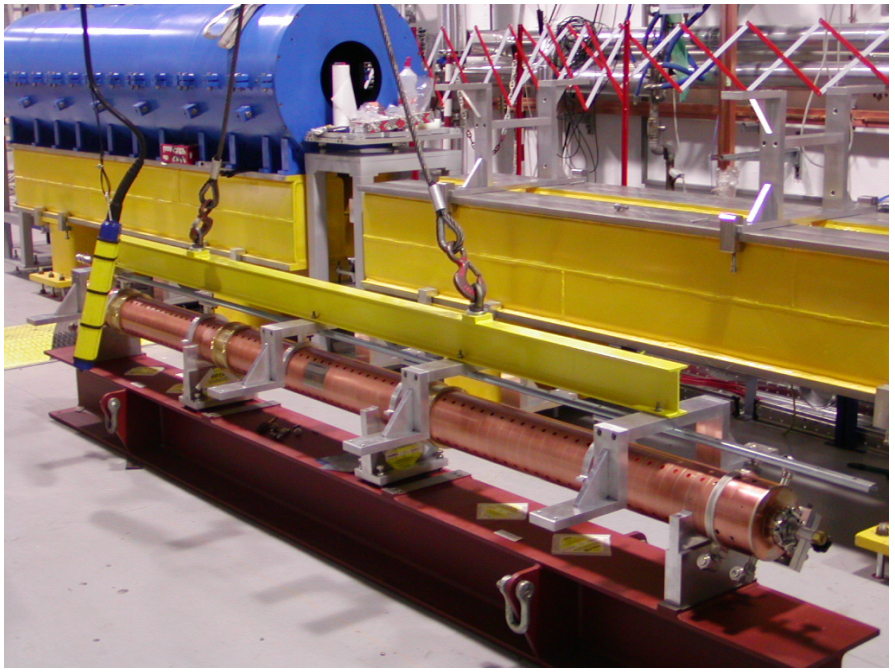
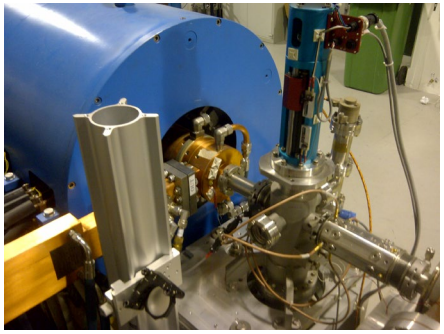


Photo courtesy of INFN-LNF



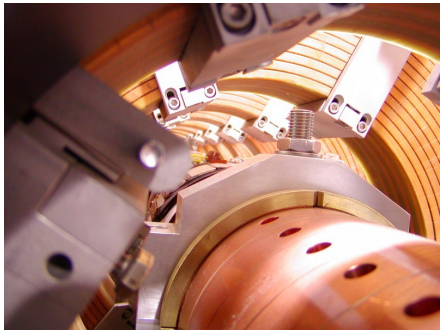


Photo courtesy of INFN-LNF

Main Parameters	
Frequency	2856 MHz (45° C in vacuum)
Structure	Disk-loaded
Average Accelerating Field	< 25MV/m
Accelerating Type	Constant Gradient, Travelling Wave
Operation Mode	2π/3
Unloaded Q	13000
Input VSWR	< 1.05 (at Operation Frequency)
Attenuation Constant	0.57
Phase error	2.5 degree
Number of Cells	82 + 2 Coupler Cells
Filling Time	0.83 μs
Waveguide Flange	SLAC rectangular type
Beam Line Flange	Fast-demounting Type
Length	3 m

MOVE THE WORLD FORWARD

MITSUBISHI
HEAVY
INDUSTRIES
GROUP