MERIT INSTALLATION

Target Cart

Transporter

Common Baseplate Magnet Support

Beam

Magnet Support Beam

Target Transporter

Target Cart
MERIT INSTALLATION

- Total supported weight
  - Solenoid: 5500 kg (12000 lbs)
  - Hg System with 23liter Hg: 1800 kg (4000 lbs)
  - Baseplate: 450 kg (1000 lbs)
- Maximum width of 1.3m (51") to meet CERN facility constraints
MERIT INSTALLATION

- Layout

![Diagram of MERIT Installation Layout](image-url)
Cranes and shaft...
Solenoid handling with “yellow” cross-bar
• Mercury loop
Mercury loop handling
Placing solenoid on the baseplate

1. Baseplate on wedge
2. Solenoid on baseplate
3. Baseplate towed up slope with tractor “VOLK”
4. Wedge removed, traverse down TT2
MERIT INSTALLATION

- Handling with "VOLK" (testing with a dummy in TT2)
MERIT INSTALLATION

- TT2 to TT2A
• Same handling procedure for mercury loop...
Roll System into Beam Line

Elevate & Tilt

Remove Rollers