TECHNICAL INFORMATION

**Venue**
- approx. 1000 sqm - 1200 sqm at 3.3 m ceiling height,
- 3.3 m is assembly height
- no daylight within the exhibition room

**Delivery**
- four heavy trucks
- three 40’ - 12,192 m × 2,438 m × 2,591 m - seacontainer
- one 20’ - 6,058 m × 2,438 m × 2,591 m
- containers are shippers own (SOC)
- Weight of containers:
  - Container Nº 1: DBOU 240036-9; 1 x 40’ BOX,
    - 3,900 kg (netto); 15,000 kg (brutto)
  - Container Nº 2: DBOU 240035-3; 1 x 40’ BOX,
    - 3,900 kg (netto); 8,000 kg (brutto)
  - Container Nº 3: DBOU 240047-7; 1 x 40’ BOX;
    - 3,900 kg (netto); 12,000 kg (brutto)
  - Container Nº 4: ALNU 512820-0; 1 x 20’ BOX,
    - 2,200 kg (netto); 7,900 kg (brutto)
- containers are shippers own, guarded interim storage is required from the day of arrival until the day of the exhibition’s removal
- some exhibits are uncased, parts are screwed to container walls others are in cases and boxes, e.g. euro pallets
- in case there is no loading ramp a forklifter is required, the forklifter requires 2000 kg weight loading. It requires long reach forks of 2 m
- please provide one/two pallet truck(s) during unloading and loading, no other handling devices are required if the venue offers a loading ramp, if not the containers need to be craned or forklifted of the trucks
- 6 helpers are needed for unloading and loading, first day of assembly and last day of dismantling
**Technical Information**

**Installation**

Staff to assemble and dismantle the exhibition:
- 1 supervisor, 5 exhibition technicians, 1 electrician, 1 media technician, 1 curator: all speak English
- For power connection on day one an electrician is needed
- It takes 12 days to assemble the exhibition.
- Guarded storage for containers must be provided
- Lockable storage room for tools, spare parts and empty cases, approx 50 sqm, close to exhibition area

**Electrical Requirements of Science Tunnel:**
- The exhibitions total average electrical power consumption is approx. 45kVA
- All electric devices within the exhibition are European standard: 230V / 50 Hz.
- The frequency inside the exhibition-subnet must be 50Hz because we cannot assure that every component of the exhibition can handle other frequencies e.g. 60Hz.
- The connectors for the exhibition are 32A-CEE-3P-1N-1PE 6h
- 4 connections 400V / 32 Ampere are needed
- In addition to the 3Phase - one 4wire connection, „earth”, is provided (3P-1N-1PE)
- The circuit breaker right before the distribution/Frequency Converter should be at least 40A, because the exhibition subnet has two 32A circuit breakers.
- All conductive surfaces adequately earthed
- All light bulbs and fluorescent tubes are German standard, spare parts like: light bulbs, projectors are with the exhibition
- All computers in the exhibition boot up automatically.

**Internet Optimal Minimum Needs**
- Capacity of 2Mbit upstream/downstream
- No firewall or ability to adjust its rules for our access needs
- No mandatory proxy (directly connected)
- Reliable (no packet drops, granted continuity)
- If possible: our own public IP
**Daily Floor Cleaning**
- dusting of exhibits and projection surfaces (without chemical cleansers)
- exchange of defect fluorescent tubes and defect bulbs in the video projectors, exchange of video projectors or other technical equipment according to need

**Dismantling**
- it takes 6 days to dismantle, pallet trucks and fork lifters are needed again
- the museum needs to provide 6 workers for loading
Eight (8) Exhibition Modules

- The exhibitions consist of eight (8) exhibition modules, one central hub module, one intro module, two projection mapping installations, eight (8) big picture grafic boards and several exhibits.
TECHNICAL INFORMATION

8 Exhibition Modules
01 Universum
02 Materie
03 Life
04 Complexity
05 Brain
06 Health
07 Energy
08 Society
TECHNICAL INFORMATION

Central hub module
Welcome module
Projection Mapping
Big Picture Grafik Board
TECHNICAL INFORMATION

Welcome module handout of and return of iPods

Exhibit showcase

IPod

Science Kiosk, Think Bubble, Science Network

Charging units for iPods

Big picture Grafic board
Exhibition floorplan:
- drawing below displays the layout of the Science Tunnel exhibition at the Heinz Nixdorf MuseumsForum in Paderborn, Germany.
- the area covered is approx. 1000 sqm
TECHNICAL INFORMATION

For further information please get in touch with

Archimedes Exhibitions GmbH
Werner Rien
Managing Partner
+49 561 932 48 41
E-Mail: wr@archimedes-exhibitions.de
www.archimedes-exhibitions.de

Science Tunnel information:
www.sciencetunnel.de

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