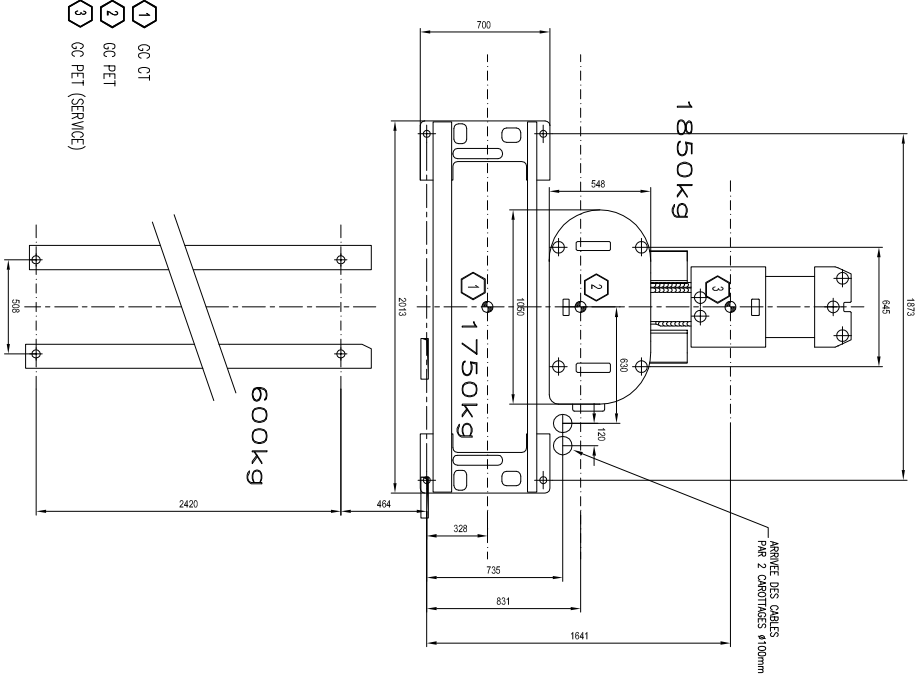


POWER REQUIREMENTS

POWER INPUT THREE-PHASE + GROUND	
VOLTAGES	380V 400V 415V 440V 460V 480V 497
MAXIMUM MOMENTARY POWER	100 kVA
AVERAGE POWER	25 kVA
FREQUENCIES	50/60Hz ±0.5 Hz.
POWER FACTOR	0.85
LINE IMPEDANCE	0.040Ω/m

DETAIL 1 : FLOOR LOADING DISTRIBUTION



BUILDING REQUIREMENTS.

- The recommended height from finished floor to ceiling in examination room is 2600mm.
- The minimum ceiling height is 2500mm from finished floor.
- The minimum height from finished floor to ceiling in the control room to be 2400mm.
- All doors to & within the DISCOVERY ST suite have to have a minimum height of 2000mm to allow for DISCOVERY ST equipment access.
- All doors of the DISCOVERY ST suite to be self-closing to ensure stability of the air conditioning system.
- Vinyl floor coverings in the DISCOVERY ST suite have to have anti-static properties.
- Sufficient cupboards, work-tops, shelving, etc. to be provided in the DISCOVERY ST suite for the storage of ancillary equipment, and GEMS service manuals etc.

INSITE

- 1 - RECOMMENDED CONFIGURATION**
- A dedicated phone line R45 socket will be connected to an ISDN router installed in the technical room.
 - The BR line (for ISDN line)
 - 2 channels/1 number
 - Aggregating by channels
 - Income calls identification
 - Point to point
 - The router will be connected to a LAN through out a RJ45 socket, a maximum distance of 10 meters from the router.
- 2 - ALTERNATIVE CONFIGURATION**
- A dedicated phone line (34800 Bands) used only for the connection to a modem must be located at 1 meter maximum from the operator console OC1
 - This line will be a direct standard phone line or will go through a PBX switch board with automatic call distributor (ACD)
- TELEPHONE**
- It is advisable to have a telephone close to the operator console to be able to have an easy dialogue with the GEMS service engineer

DELIVERY

THE CUSTOMER MUST:

- Provide an area, adjacent to the System site, for delivery and unloading
- of the GEMS equipment,
- ensure that the dimensions of all doors, corridors, ceiling heights, are sufficient to accommodate the movement of GEMS equipment from the delivery area to the specific rooms of the site.
- ensure that the access route will accommodate the weights of the equipment and any transportation, lifting and rigging equipment, if the parking and dock facilities are on property which does not belong to the customer, ensure that all necessary steps have been taken to ensure their temporary use by GEMS.
- GANTRY OVER ALL DIMENSIONS (the bigger system sub-assembly)

ITEM	HEIGHT (mm)	LENGTH (mm)	WIDTH (mm)	WEIGHT (kg)
G1 MINI	1880	2790	1050	1900
G1 MAXI	2000	2810	1050	2100
G2 MINI	1889	2108	1016	1397
G2 MAXI	2083	2769	1372	1811
BED MINI	1130	2794	950	500
BED MAXI	1130	3099	950	600

TEMPERATURE AND HUMIDITY SPECIFICATIONS

- Environmental conditions must ensure patient and operator comfort and must be maintained within the range below:
- TEMPERATURE
 - Examination and control room 20° to 24°C.
 - Electronics room 18° to 22°C.
 - Gradient 3°C/hr max.
 - RELATIVE HUMIDITY
 - Examination and control room 30–60% RH non-condensing
 - Electronics room 30–60% RH non-condensing
 - Gradient 5% RH/hr max.
- These specifications must be maintained at all times. When these limits are reached, a visual and/or audio alarm must indicate the damage risk of the system.
- STORAGE LIMITS FOR EQUIPMENT**
- Temperature -30°C to +50°C
 - Humidity less than 80% RH non-condensing
 - The storage duration is limited to 90 days inside a dusted and cleaned room not directly on earth platform
- HEAT DISSIPATION :**
- The figures given below are maximum values (full operation)
 - Examination room 5.0KW
 - Control room 4.0KW
 - Electronics room 1.0KW
- RENEWING AIR**
- AIR QUALITY: The HVAC system should be designed to provide 5 air changes per hour to maintain adequate air quality and temperature.
- CONTROL OF AIRBORNE RADIATION:** Escaped gases and exhaled radioactive carbon dioxide should not be allowed to enter active air conditioning systems. It may be necessary to install radiation detectors in duct work that can be used to stop any blower motors which could transport radiation to active ducts.

ENVIRONMENTAL CONDITIONS

- ALTIMUDE
- System operating do not exceed 2400 m above sea level.
- MAGNETIC INTERFERENCE SPECIFICATIONS:
- Gantry : Ambient static magnetic fields less than 1 Gauss
- Electronics cabinets : Ambient static magnetic fields less than 10 Gauss
- Operator console : Ambient static magnetic fields less than 0.5 Gauss
- RADIATION PROTECTION
- Background radiation should be kept to a minimum.
- Radioactive sources must be kept in shielded containers and the examination room shielded from external sources.
- THERMIC SHOCK
- Do not place any DISCOVERY ST gantry near registers or A/C outlets, windows or other devices which might very air around the Gantry.
- ROOMS
- Electrostatic discharge is know to cause severe damage to sophisticated electronics.
- Static charges associated with lower humidity levels may interfere with system operation.

TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER

PRELIMINARY INFORMATION

THE FOLLOWING DRAWING ARE CONTAINED IN THIS FILE :

- STRUCTURAL, ELECTRICAL AND ENVIRONMENTAL PLAN

ERRORS MAY OCCUR BY NOT REFERRING TO THE COMPLETE SET OF FINAL ISSUE DRAWING. GEMS CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGE DUE TO THE PARTIAL USE OF GEMS FINAL ISSUE DRAWINGS, HOWEVER CAUSED.

NO	DATE	MODIFICATIONS

THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GEMS EQUIPMENT AND ASSOCIATED CABLES TO THE CUSTOMER FOR REVIEW AND APPROVAL. IT IS NOT TO BE USED FOR ACTUAL CONSTRUCTION PURPOSES. HOWEVER, AND THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

CE Installation Specialist
Customer Name :
Date :

CE Medical Systems

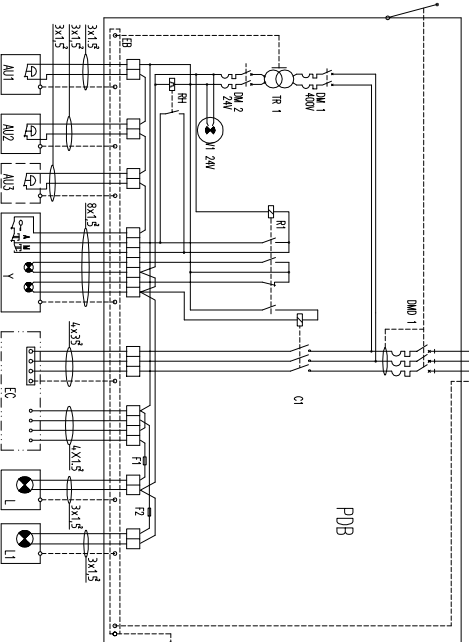
SITING MANAGEMENT SERVICES

Diognoscan Magyartorszög HUNGARY
SZEGED

Discovery ST STRUCTURAL, ELECTRICAL AND ENVIRONMENTAL PLAN FINAL STUDY

DATE	SCALE	DRAWN	APPROVED	CEL. HT.	S.O.	DRAWING	REV	PAGE
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DETAIL 3 : POWER DISTRIBUTION BOX

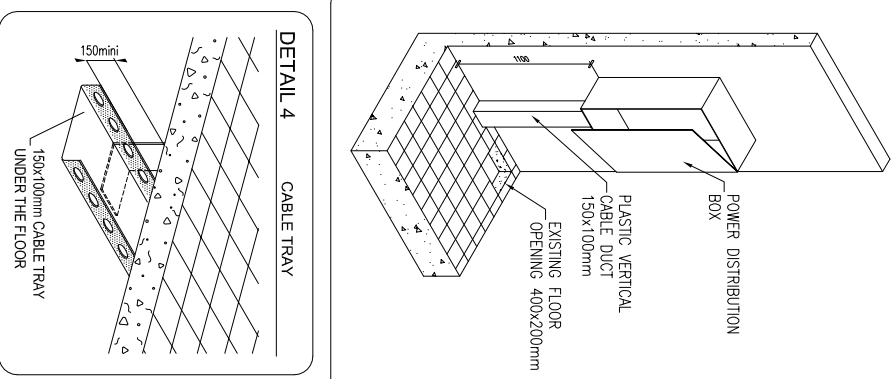


RECOMMENDED POWER DISTRIBUTION SYSTEM
NOTE: DEPENDING ON LOCAL REGULATION, FUSSES MAY BE REQUIRED ON THE INCOMING SUPPLY LINES

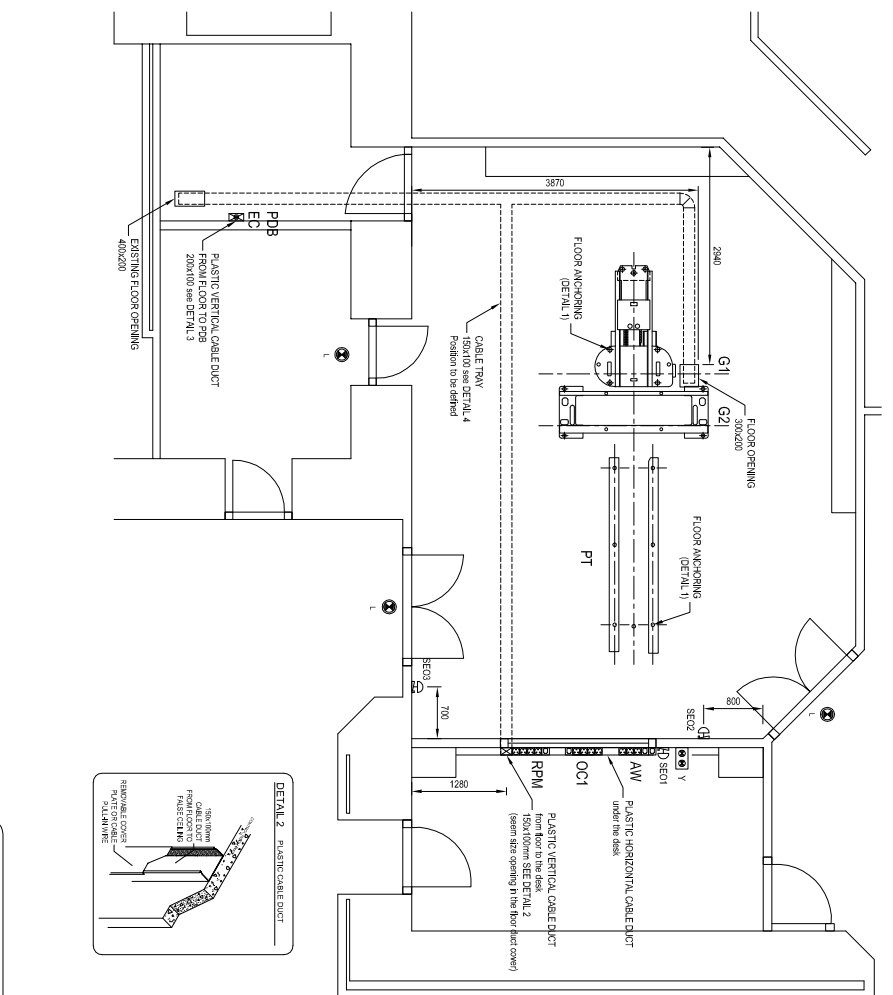
- DM** LOG OUT / TAG OUT DEVICE
- PDB** POWER DISTRIBUTION BOX FOR CT EQUIPMENT (NOT SUPPLIED BY GEMS, CAN BE ORDERED AS AN OPTION)
- DM1** DIFFERENTIAL THERMALMAGNETIC CIRCUIT BREAKER IN=160A / Imog= 12In±20% FOR 380V. DIFFERENTIAL 300mA
- DM2** THERMALMAGNETIC CIRCUIT BREAKER In= 1A. Imog= 12In±20%.
- DM3** THERMALMAGNETIC CIRCUIT BREAKER In= 6A 7In±20%.
- TR1** 400V/24V TRANSFORMER P= 250VA
- V1** 24V TELLTALE LAMP
- R** 24V PILOT RELAY
- RH** RELAY WITH TEMPORARY CONTACT (200ms).
- CT** 200A REMOTE CONTROLLED CONTRACTOR BY Y, 24V COIL
- Y** REMOTE CONTROL LOCKED WHEN POWER OFF. "ON" AND "OFF" PULSE BUTTONS WITH INDICATOR LAMPS RED=ON / GREEN=OFF LOCATED AT 1.50m ABOVE FLOOR.
- L** 24V YELLOW LIGHT, LOCATED ABOVE THE MAIN ENTRANCE DOORS, INDICATES X-RAY GENERATION.
- L1** 24V RED LIGHT INDICATOR CONTINUOUS OR FLASHING, LOCATED NEXT TO L.
- L1** LIGHTS UP WHEN LOW VOLTAGE IS SUPPLIED TO THE SYSTEM.
- AU1-2-3** THERM, THE GLASS TYPE EMERGENCY STOP COUPLER CONTACTS POSITIONED 1.50m ABOVE THE FLOOR NEAR THE ACCESS DOORS SUPPLIED BY 24V DC WITH : 10 REFER STRUCTURAL LAYOUT.
- EB** EQUIPMENTAL BAY LINKING ALL CONDUCTIONS IN ROOMS WHERE SYSTEM COMPONENTS ARE LOCATED.
- PDU** POWER DISTRIBUTION UNIT. CABLES MET ON SKIRTING BOARD WITH 2m EXTRA LENGTH.

88) SUPPLIED BY THE KIT B9399PW
NOTE: UNINTERFERIBLE 12 kVA SEE ON POWERMANE REF:9150

DETAIL 4 : CABLE TRAY



DETAIL 4 : CABLE TRAY



DISCO_ST REV 1 19/05/03